HAZARD RANKING SYSTEM (HRS) PACKAGE
WAPPINGER CREEK
DOWNSTREAM OF WAPPINGERS FALLS
WAPPINGER FALLS, NY

EPA ID No.: NYN000201758

VOLUME 14 OF 14

EPA Contract No. EP-S13-08-01
TDD No. 0004/1508-06
Document Control No. W0269.1A.00815

March 2016

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:
Weston Solutions, Inc.
Edison, New Jersey 08837

411964

REFERENCE 65

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

SDG Cover Page
Traffic Report/Chain of Custody
Sample Log-In Sheet (DC-1)
CSF Inventory Sheet (DC-2)
SDG Narrative

The following analysis are included in this package, if applicable:

ICP-AES Data
ICP-MS Data
Mercury Data
Cyanide Data
Miscellaneous Data

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: N/A SDG No.: MBC7B7

SOW No.: ISM02.2

Analysis Method

EPA Sample No.	Lab Sample ID	ICP-AES	ICP-MS	Mercury	Cyanide
MBC764	QK17017-020	X		X	
MBC7B7	QK17017-008	X		X	
MBC7B8	QK17017-001	X		X	
MBC7B9	QK17017-009	X		X	
MBC7C0	QK17017-010	X		X	
MBC7C1	QK17017-011	X		X	
MBC7C2	QK17017-012	X		X	
MBC7C3	QK17017-013	X		X	
MBC7C4	QK17017-014	X		X	
MBC7C5	QK17017-015	X		X	
MBC7C6	QK17017-016	X		X	
MBC7C7	QK17017-017	X		X	
MBC7C8	QK17017-018	X		X	
MBC7D2	QK17017-019	X		X	
MBC7D3	QK17017-002	X		X	
MBC7D4	QK17017-003	X		X	
MBC7H4	QK17017-004	X		X	
MBC7H5	QK17017-005	X		X	
MBC7H6	QK17017-006	X		X	
MBC7J0	QK17017-007	X		X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Robert Zhu

Date: 12/5/2015 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	MBC7B7	Case Number	45717	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	7 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	MBC7B7	Last Sample Received in SDG	MBC764
First Sample Receipt Date	11/17/2015	Last Sample Receipt Date	11/17/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

	CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	MBC7B7	Sediment	ICP AES, Hg	N/A	N/A
2	MBC7B8	Sediment	ICP AES, Hg	N/A	N/A
3	MBC7B9	Sediment	ICP AES, Hg	N/A	N/A
4	MBC7C0	Sediment	ICP AES, Hg	N/A	N/A
5	MBC7C1	Sediment	ICP AES, Hg	N/A	N/A
6	MBC7C2	Sediment	ICP AES, Hg	N/A	N/A
7	MBC7C3	Sediment	ICP AES, Hg	N/A	N/A
8	MBC7C4	Sediment	ICP AES, Hg	N/A	N/A
9	MBC7C5	Sediment	ICP AES, Hg	N/A	N/A
10	MBC7C6	Sediment	ICP AES, Hg	N/A	N/A
11	MBC7C7	Sediment	ICP AES, Hg	N/A	N/A
12	MBC7C8	Sediment	ICP AES, Hg	N/A	N/A
13	MBC7D2	Sediment	ICP AES, Hg	N/A	N/A
14	MBC7D3	Sediment	ICP AES, Hg	N/A	N/A
15	MBC7D4	Sediment	ICP AES, Hg	N/A	N/A
16	MBC7H4	Sediment	ICP AES, Hg	N/A	N/A
17	MBC7H5	Sediment	ICP AES, Hg	N/A	N/A
18	MBC7H6	Sediment	ICP AES, Hg	N/A	N/A
19	MBC7J0	Sediment	ICP AES, Hg	N/A	N/A
20	MBC764	Water	ICP AES, Hg	N/A	N/A

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature _____ Date 11/24/15

MBC7B7 MBC7F4 MBC769 MBC7B8

USEPA CLP COC (LAB COPY)

Date Shipped: 11/16/2015

Carrier Name: FedEx

Airbill No: 8088 5684 8438

CHAIN OF CUSTODY RECORD

Case #: 45717

EDW14035

No: 2-111615-154640-0029

Lab: Shealy Environmental Services

Lab Contact: Robert Zhu

Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-RIN05	MBC764	DI Water/ Region 2 SAT	Grab	TAL(7)	1410 (HNO3 to pH<2) (1)	N/A	11/16/2015 12:15	
0269-SED15-0-6	MBC7B7	Sediment/ Region 2 SAT	Grab	TAL(7)	1330 (4 C) (1)	0269-SED15	11/16/2015 09:50	
0269-SED15-12-24	MBC7B8	Sediment/ Region 2 SAT	Grab	TAL(7)	1338 (4 C) (2)	0269-SED15	11/16/2015 10:10	
0269-SED15-6-12	MBC7B9	Sediment/ Region 2 SAT	Grab	TAL(7)	1334 (4 C) (1)	0269-SED15	11/16/2015 10:00	
0269-SED16-0-6	MBC7C0	Sediment/ Region 2 SAT	Grab	TAL(7)	1342 (4 C) (1)	0269-SED16	11/16/2015 10:30	
0269-SED16-12-24	MBC7C1	Sediment/ Region 2 SAT	Grab	TAL(7)	1350 (4 C) (1)	0269-SED16	11/16/2015 10:50	
0269-SED16-6-12	MBC7C2	Sediment/ Region 2 SAT	Grab	TAL(7)	1346 (4 C) (1)	0269-SED16	11/16/2015 10:40	
0269-SED17-0-6	MBC7C3	Sediment/ Region 2 SAT	Grab	TAL(7)	1354 (4 C) (1)	0269-SED17	11/16/2015 11:40	
0269-SED17-12-24	MBC7C4	Sediment/ Region 2 SAT	Grab	TAL(7)	1362 (4 C) (1)	0269-SED17	11/16/2015 12:00	
0269-SED17-6-12	MBC7C5	Sediment/ Region 2 SAT	Grab	TAL(7)	1358 (4 C) (1)	0269-SED17	11/16/2015 11:50	

Sample(s) to be used for Lab QC: 0269-SED15-12-24 Tag 1338 - Special Instructions: MS/MSD: 0269-SED15-12-24 (CLP No.: MBC7B8)	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green / WESTON	11/16/15 1800	FEDEX	11/16/15 1800	
				11-17-15/0920	OK

T=2.7°

MBC7B7 Bc 11/24/15 ~~MBC7C9~~ ~~MBC7B8~~

USEPA CLP COC (LAB COPY)

Date Shipped: 11/16/2015
Carrier Name: FedEx
Airbill No: 8088 5684 8438

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111615-154640-0029

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

EPW14525

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED18-0-6	MBC7C6	Sediment/ Region 2 SAT	Grab	TAL(7)	1366 (4 C) (1)	0269-SED18	11/16/2015 12:15	
0269-SED18-12-24	MBC7C7	Sediment/ Region 2 SAT	Grab	TAL(7)	1374 (4 C) (1)	0269-SED18	11/16/2015 12:35	
0269-SED18-6-12	MBC7C8	Sediment/ Region 2 SAT	Grab	TAL(7)	1370 (4 C) (1)	0269-SED18	11/16/2015 12:25	
0269-SED20-0-6	MBC7D2	Sediment/ Region 2 SAT	Grab	TAL(7)	1390 (4 C) (1)	0269-SED20	11/16/2015 16:00	
0269-SED20-12-24	MBC7D3	Sediment/ Region 2 SAT	Grab	TAL(7)	1398 (4 C) (1)	0269-SED20	11/16/2015 16:20	
0269-SED20-6-12	MBC7D4	Sediment/ Region 2 SAT	Grab	TAL(7)	1394 (4 C) (1)	0269-SED20	11/16/2015 16:10	
0269-SED21-0-6	MBC7H4	Sediment/ Region 2 SAT	Grab	TAL(7)	1434 (4 C) (1)	0269-SED21	11/16/2015 16:30	
0269-SED21-12-24	MBC7H5	Sediment/ Region 2 SAT	Grab	TAL(7)	1442 (4 C) (1)	0269-SED21	11/16/2015 16:50	
0269-SED21-6-12	MBC7H6	Sediment/ Region 2 SAT	Grab	TAL(7)	1438 (4 C) (1)	0269-SED21	11/16/2015 16:40	
0269-SED23-0-6	MBC7J0	Sediment/ Region 2 SAT	Grab	TAL(7)	1462 (4 C) (1)	0269-SED15	11/16/2015 09:55	

Special Instructions: MS/MSD: 0269-SED15-12-24 (CLP No.: MBC7B8)

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TAL=TAL Inorganics (incl. Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Breen/Weston	11/16/15	FEDEX	11/16/15	
			Kelly	11-17-15	OK

SDG MBC7B7 Final Sample

T=2.7°

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name	Shealy Environmental		Page 1 of 1
Received By (Print Name)	Kelly W Page		Log-in Date 11-17-15
Received By (Signature)	Kelly W Page		
Case Number 45717	SDG No. MBC7B7		MA No. N/A

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	808856848438
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.7°C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11-17-15
12. Time Received	0920.

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC764	1.0	N/A	RK17072020	OK
2	MBC7B7	N/A		RK17017-008	
3	MBC7B8			RK1707-B01	
4	MBC7B9			-009	RL 11/24/15
5	MBC7C0			-010	
6	MBC7C1			-011	
7	MBC7C2			-012	
8	MCB7C3			-013	
9	MBC7C4			-014	
10	MBC7C5			-015	
11	MBC7C6			-016	
12	MBC7C7			-017	
13	MBC7C8			-018	
14	MBC7D2			-019	
15	MBL7D3			-002	
16	MBC7D4			-003	
17	MBC7H4			-004	
18	MBC7H5			-005	
19	MBC7H6			-006	
20	MBC7J0	↓	↓	-007	↓
21					
22					RL 11/24/15

* Contact SMO and attach record of resolution

Reviewed By	RL	Logbook No.	
Date	11/24/15	Logbook Page No.	N/A

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME: Shealy Environmental Services, Inc.

LAB CODE: EQI

CONTRACT NO.: EPW-14-035

CASE NO.: 45717 SDG NO.: MBC7B7

MA NO.: NA

SOW NO.: ISM02.2

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	SDG Cover Page	1	3		
2.	Traffic Report/Chain of Custody Record(s)	4	6		
3.	Sample Log-In Sheet (DC-1)	7	7		
4.	CSF Inventory Sheet (DC-2)	8	11		
5.	SDG Narrative	12	14		
Inorganic Analysis					
ICP-AES					
6.	Inorganic Analysis Data Sheet (Form 1-IN)	15	37	X	
7.	Initial and Continuing Calibration Verification (Form 2-IN)	38	41	X	
8.	Blanks (Form 3-IN)	42	44	X	
9.	ICP Interference Check Sample (Form 4-IN)	45	46	X	
10.	Matrix Spike Sample Recovery (Form 5A-IN)	47	48	X	
11.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	49	50	X	
12.	Duplicates (Form 6-IN)	51	52	X	
13.	Laboratory Control Sample (Form 7-IN)	53	54	X	
14.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	55	56	X	
15.	Method Detection Limit (Form 9-IN)	57	58	X	
16.	ICP-AES Interelement Correction Factors (Form 10A-IN)	59	59	X	
17.	ICP-AES Interelement Correction Factors (Form 10B-IN)	60	63	X	
18.	Analysis Log (Form 12-IN)	64	67	X	
19.	Initial Calibration (Form 15-IN)	68	75	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
20.	Initial Calibration Summary (Form 16-IN)	76	77	X	
21.	ICP-AES Raw Data	78	419	X	
22.	ICP-AES Preparation Log Books, Preparation records, Analysis records, and PE Instructions	420	445	X	
ICP-MS					
23.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
24.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
25.	Blanks (Form 3-IN)	N/A	N/A	X	
26.	ICP Interference Check Sample (Form 4-IN)	N/A	N/A	X	
27.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
28.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
29.	Duplicates (Form 6-IN)	N/A	N/A	X	
30.	Laboratory Control Sample (Form 7-IN)	N/A	N/A	X	
31.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	N/A	N/A	X	
32.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
33.	ICP-MS Internal Standard Association (Form 11-IN)	N/A	N/A	X	
34.	Analysis Log (Form 12-IN)	N/A	N/A	X	
35.	ICP-MS Tune (Form 13-IN)	N/A	N/A	X	
36.	ICP-MS Internal Standards Relative Intensity Summary (Form 14-IN)	N/A	N/A	X	
37.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
38.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
39.	ICP-MS Raw Data	N/A	N/A	X	
40.	ICP-MS Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Mercury		N/A	N/A	X	
41.	Inorganic Analysis Data Sheet (Form 1-IN)	446	468	X	
42.	Initial and Continuing Calibration Verification (Form 2-IN)	469	481	X	
43.	Blanks (Form 3-IN)	482	489	X	
44.	Matrix Spike Sample Recovery (Form 5A-IN)	490	490	X	
45.	Duplicates (Form 6-IN)	491	491	X	
46.	Method Detection Limit (Form 9-IN)	492	493	X	
47.	Analysis Log (Form 12-IN)	494	502	X	
48.	Initial Calibration (Form 15-IN)	503	510	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

49.	Initial Calibration Summary (Form 16-IN)	511	514	X	
50.	Mercury Raw Data	515	530	X	
51.	Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions	531	550	X	
Cyanide		N/A	N/A	X	
52.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
53.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
54.	Blanks (Form 3-IN)	N/A	N/A	X	
55.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
56.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
57.	Duplicates (Form 6-IN)	N/A	N/A	X	
58.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
59.	Analysis Log (Form 12-IN)	N/A	N/A	X	
60.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
61.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
62.	Cyanide Raw Data	N/A	N/A	X	
63.	Cyanide Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Additional		551	561	X	
64.	Percent Solids Determination Log	552	556	X	
65.	EPA Shipping/Receiving Documents	N/A	N/A		
	Airbill (No. of Shipments 1)	557	557	X	
	Sample Tags	N/A	N/A		
	Sample Log-In Sheet (Lab)	558	558	X	
66.	Misc. Shipping/Receiving Records (list all individual records) Communication Logs	N/A	N/A		
67.	Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	559	560	X	
68.	Other Records (describe or list)				
	Communication Logs	561	561		
	Hazards warning document				

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

69. Comments:

Completed by:
(CLP Lab) Robert Zhu, Technical Director

(Signature) (Print Name & Title) (Date)

Audited by:
(EPA)

(Signature) (Print Name & Title) (Date)

Narrative

Shealy Environmental Services, Inc.

SDG Narrative
Date: 12/04/2015
Case 45717
SDGMBC7B7
SOW ISM02.2
Contract Number: EPW14035

ICP-AES Thermo Sci ICAP 7600 Software: iTEVA Version: 2.8.0.96 Operating System:Windows XP Professional Version: 5.1.2600 **MERCURY** Leeman Labs Hydra II Software: Envoy 2.0 Version: 6.1 Operating System: Windows 7 Professional	Water sample: Final concentration (ug/L) = C * DF Soil sample: Final concentration (mg/Kg) = $\frac{C * V * DF}{W * S}$ Where, C = the instrument readout in ug/L V = final sample volume in liter W = the wet sample weight (g) S = %solids/100 DF = Dilution Factor

Sample Receiving

The nineteen (19) soil and one (1) water samples in this SDG were received in a sealed shipping container on November 17, 2015 with a temperature of 2.7˚C.

Target Analyte

Mercury is also required for this SDG. The target analytes for ICP-AES are listed below:

Target Analytes	ICP-AES
Aluminum	Yes
Antimony	Yes
Arsenic	Yes
Barium	Yes
Beryllium	Yes
Cadmium	Yes
Calcium	Yes
Chromium	Yes
Cobalt	Yes
Copper	Yes
Iron	Yes
Lead	Yes
Magnesium	Yes
Manganese	Yes
Nickel	Yes
Potassium	Yes
Selenium	Yes
Silver	Yes

Sodium	Yes
Thallium	Yes
Vanadium	Yes
Zinc	Yes

ICP-AES

IEC factors and background corrections were applied during the ICP-AES analyses. Raw data was not generated prior to the application of the background corrections.

Mercury

ICP-AES Metals

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
ICP Interference Check Sample (Form 4-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Post Digestion/Distillation Spike Sample Recovery (Form 5B-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)
Method Detection Limit (Form 9-IN)
ICP-AES Interelement Correction Factors (Form 10A-IN)
ICP-AES Interelement Correction Factors (Form 10B-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
ICP-AES Raw Data
ICP-AES Preparation Log Books, Preparation Records, Analysis Records

ICP-AES
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC7B7

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method: ICP-AES	ICP-MS	Mercury	Cyanide
MBC764	QK17017-020	X			
MBC7B7	QK17017-008	X			
MBC7B8	QK17017-001	X			
MBC7B8D	QK17017-001DU	X			
MBC7B8S	QK17017-001MS	X			
MBC7B9	QK17017-009	X			
MBC7B9D	QK17017-009DU	X			
MBC7B9S	QK17017-009MS	X			
MBC7C0	QK17017-010	X			
MBC7C1	QK17017-011	X			
MBC7C2	QK17017-012	X			
MBC7C3	QK17017-013	X			
MBC7C4	QK17017-014	X			
MBC7C5	QK17017-015	X			
MBC7C6	QK17017-016	X			
MBC7C7	QK17017-017	X			
MBC7C8	QK17017-018	X			
MBC7D2	QK17017-019	X			
MBC7D3	QK17017-002	X			
MBC7D4	QK17017-003	X			
MBC7H4	QK17017-004	X			
MBC7H5	QK17017-005	X			
MBC7H6	QK17017-006	X			
MBC7J0	QK17017-007	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Zhu Name: Robert Zhu

Date: 12/5/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC764

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: WATER Lab Sample ID: QK17017-020

% Solids: Date Received: 11/24/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/21/2015	15:59:52
7440-36-0	Antimony	60.0		U	11/21/2015	15:59:52
7440-38-2	Arsenic	10.0		U	11/21/2015	15:59:52
7440-39-3	Barium	200		U	11/21/2015	15:59:52
7440-41-7	Beryllium	5.0		U	11/21/2015	15:59:52
7440-43-9	Cadmium	5.0		U	11/21/2015	15:59:52
7440-70-2	Calcium	5000		U	11/21/2015	15:59:52
7440-47-3	Chromium	10.0		U	11/21/2015	15:59:52
7440-48-4	Cobalt	50.0		U	11/21/2015	15:59:52
7440-50-8	Copper	25.0		U	11/21/2015	15:59:52
7439-89-6	Iron	26.4		J	11/21/2015	15:59:52
7439-92-1	Lead	10.0		U	11/21/2015	15:59:52
7439-95-4	Magnesium	5000		U	11/21/2015	15:59:52
7439-96-5	Manganese	1.2		J	11/21/2015	15:59:52
7440-02-0	Nickel	40.0		U	11/21/2015	15:59:52
7440-09-7	Potassium	5000		U	11/21/2015	15:59:52
7782-49-2	Selenium	35.0		U	11/21/2015	15:59:52
7440-22-4	Silver	10.0		U	11/21/2015	15:59:52
7440-23-5	Sodium	5000		U	11/21/2015	15:59:52
7440-28-0	Thallium	25.0		U	11/21/2015	15:59:52
7440-62-2	Vanadium	50.0		U	11/21/2015	15:59:52
7440-66-6	Zinc	60.0		U	11/21/2015	15:59:52

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-008

% Solids: 34.4 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14100		11/27/2015	11:34:25
7440-36-0	Antimony	14.9	U*	11/27/2015	11:34:25
7440-38-2	Arsenic	2.9		11/27/2015	11:34:25
7440-39-3	Barium	74.0		11/27/2015	11:34:25
7440-41-7	Beryllium	0.56	J	11/27/2015	11:34:25
7440-43-9	Cadmium	0.34	J	11/27/2015	11:34:25
7440-70-2	Calcium	7970		11/27/2015	11:34:25
7440-47-3	Chromium	16.0		11/27/2015	11:34:25
7440-48-4	Cobalt	8.9	J	11/27/2015	11:34:25
7440-50-8	Copper	28.1	*	11/27/2015	11:34:25
7439-89-6	Iron	21700		11/27/2015	11:34:25
7439-92-1	Lead	28.9	*	11/27/2015	11:34:25
7439-95-4	Magnesium	6130		11/27/2015	11:34:25
7439-96-5	Manganese	593		11/27/2015	11:34:25
7440-02-0	Nickel	19.6	*	11/27/2015	11:34:25
7440-09-7	Potassium	1280		11/27/2015	11:34:25
7782-49-2	Selenium	8.7	U	11/27/2015	11:34:25
7440-22-4	Silver	2.5	U	11/27/2015	11:34:25
7440-23-5	Sodium	142	J*	11/27/2015	11:34:25
7440-28-0	Thallium	6.2	U	11/27/2015	11:34:25
7440-62-2	Vanadium	16.8		11/27/2015	11:34:25
7440-66-6	Zinc	119		11/27/2015	11:34:25

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-001

% Solids: 44.8 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	16500		11/27/2015	10:41:06
7440-36-0	Antimony	18.5	U*D	11/27/2015	13:02:14
7440-38-2	Arsenic	4.2		11/27/2015	10:41:06
7440-39-3	Barium	86.6		11/27/2015	10:41:06
7440-41-7	Beryllium	0.67	J	11/27/2015	10:41:06
7440-43-9	Cadmium	0.49	JD	11/27/2015	13:02:14
7440-70-2	Calcium	10000		11/27/2015	10:41:06
7440-47-3	Chromium	18.3		11/27/2015	10:41:06
7440-48-4	Cobalt	9.9		11/27/2015	10:41:06
7440-50-8	Copper	33.8	*D	11/27/2015	13:02:14
7439-89-6	Iron	23900	D	11/27/2015	13:02:14
7439-92-1	Lead	46.5	*D	11/27/2015	13:02:14
7439-95-4	Magnesium	6110		11/27/2015	10:41:06
7439-96-5	Manganese	566		11/27/2015	10:41:06
7440-02-0	Nickel	21.5	*D	11/27/2015	13:02:14
7440-09-7	Potassium	1430		11/27/2015	10:41:06
7782-49-2	Selenium	0.96	J	11/27/2015	10:41:06
7440-22-4	Silver	1.5	U	11/27/2015	10:41:06
7440-23-5	Sodium	123	J*	11/27/2015	10:41:06
7440-28-0	Thallium	0.59	J	11/27/2015	10:41:06
7440-62-2	Vanadium	21.1		11/27/2015	10:41:06
7440-66-6	Zinc	128		11/27/2015	10:41:06

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-009

% Solids: 32.3 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	18500		11/27/2015	11:39:17
7440-36-0	Antimony	13.2	U*	11/27/2015	11:39:17
7440-38-2	Arsenic	3.6		11/27/2015	11:39:17
7440-39-3	Barium	100		11/27/2015	11:39:17
7440-41-7	Beryllium	0.70	J	11/27/2015	11:39:17
7440-43-9	Cadmium	0.41	J	11/27/2015	11:39:17
7440-70-2	Calcium	12000		11/27/2015	11:39:17
7440-47-3	Chromium	19.0		11/27/2015	11:39:17
7440-48-4	Cobalt	9.8	J	11/27/2015	11:39:17
7440-50-8	Copper	35.9	*	11/27/2015	11:39:17
7439-89-6	Iron	26900		11/27/2015	11:39:17
7439-92-1	Lead	44.0	*	11/27/2015	11:39:17
7439-95-4	Magnesium	7420		11/27/2015	11:39:17
7439-96-5	Manganese	610		11/27/2015	11:39:17
7440-02-0	Nickel	24.4	*	11/27/2015	11:39:17
7440-09-7	Potassium	1580		11/27/2015	11:39:17
7782-49-2	Selenium	7.7	U	11/27/2015	11:39:17
7440-22-4	Silver	2.2	U	11/27/2015	11:39:17
7440-23-5	Sodium	154	J*	11/27/2015	11:39:17
7440-28-0	Thallium	5.5	U	11/27/2015	11:39:17
7440-62-2	Vanadium	25.4		11/27/2015	11:39:17
7440-66-6	Zinc	140		11/27/2015	11:39:17

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-010

% Solids: 36.7 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13800		11/27/2015	12:03:27
7440-36-0	Antimony	13.9	U*	11/27/2015	12:03:27
7440-38-2	Arsenic	3.2		11/27/2015	12:03:27
7440-39-3	Barium	70.7		11/27/2015	12:03:27
7440-41-7	Beryllium	0.55	J	11/27/2015	12:03:27
7440-43-9	Cadmium	0.38	J	11/27/2015	12:03:27
7440-70-2	Calcium	6940		11/27/2015	12:03:27
7440-47-3	Chromium	15.8		11/27/2015	12:03:27
7440-48-4	Cobalt	8.8	J	11/27/2015	12:03:27
7440-50-8	Copper	27.4	*	11/27/2015	12:03:27
7439-89-6	Iron	20900		11/27/2015	12:03:27
7439-92-1	Lead	29.7	*	11/27/2015	12:03:27
7439-95-4	Magnesium	5880		11/27/2015	12:03:27
7439-96-5	Manganese	779		11/27/2015	12:03:27
7440-02-0	Nickel	19.3	*	11/27/2015	12:03:27
7440-09-7	Potassium	1390		11/27/2015	12:03:27
7782-49-2	Selenium	8.1	U	11/27/2015	12:03:27
7440-22-4	Silver	2.3	U	11/27/2015	12:03:27
7440-23-5	Sodium	128	J*	11/27/2015	12:03:27
7440-28-0	Thallium	5.8	U	11/27/2015	12:03:27
7440-62-2	Vanadium	17.9		11/27/2015	12:03:27
7440-66-6	Zinc	122		11/27/2015	12:03:27

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-011

% Solids: 43.9 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	16600		11/27/2015	12:18:31
7440-36-0	Antimony	18.9	U*D	11/27/2015	13:50:14
7440-38-2	Arsenic	5.0		11/27/2015	12:18:31
7440-39-3	Barium	83.1		11/27/2015	12:18:31
7440-41-7	Beryllium	0.68	J	11/27/2015	12:18:31
7440-43-9	Cadmium	0.54	JD	11/27/2015	13:50:14
7440-70-2	Calcium	5260		11/27/2015	12:18:31
7440-47-3	Chromium	18.1		11/27/2015	12:18:31
7440-48-4	Cobalt	10.3		11/27/2015	12:18:31
7440-50-8	Copper	38.1	*D	11/27/2015	13:50:14
7439-89-6	Iron	26700	D	11/27/2015	13:50:14
7439-92-1	Lead	51.4	*D	11/27/2015	13:50:14
7439-95-4	Magnesium	6240		11/27/2015	12:18:31
7439-96-5	Manganese	645		11/27/2015	12:18:31
7440-02-0	Nickel	24.1	*D	11/27/2015	13:50:14
7440-09-7	Potassium	1290		11/27/2015	12:18:31
7782-49-2	Selenium	5.5	U	11/27/2015	12:18:31
7440-22-4	Silver	1.6	U	11/27/2015	12:18:31
7440-23-5	Sodium	106	J*	11/27/2015	12:18:31
7440-28-0	Thallium	3.9	U	11/27/2015	12:18:31
7440-62-2	Vanadium	20.3		11/27/2015	12:18:31
7440-66-6	Zinc	129		11/27/2015	12:18:31

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-012

% Solids: 45.1 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13900		11/27/2015	12:23:23
7440-36-0	Antimony	10.2	U*	11/27/2015	12:23:23
7440-38-2	Arsenic	3.2		11/27/2015	12:23:23
7440-39-3	Barium	65.6		11/27/2015	12:23:23
7440-41-7	Beryllium	0.55	J	11/27/2015	12:23:23
7440-43-9	Cadmium	0.32	J	11/27/2015	12:23:23
7440-70-2	Calcium	5490		11/27/2015	12:23:23
7440-47-3	Chromium	15.8		11/27/2015	12:23:23
7440-48-4	Cobalt	9.3		11/27/2015	12:23:23
7440-50-8	Copper	27.9	*	11/27/2015	12:23:23
7439-89-6	Iron	21400		11/27/2015	12:23:23
7439-92-1	Lead	40.1	*	11/27/2015	12:23:23
7439-95-4	Magnesium	5840		11/27/2015	12:23:23
7439-96-5	Manganese	599		11/27/2015	12:23:23
7440-02-0	Nickel	20.5	*	11/27/2015	12:23:23
7440-09-7	Potassium	1170		11/27/2015	12:23:23
7782-49-2	Selenium	6.0	U	11/27/2015	12:23:23
7440-22-4	Silver	1.7	U	11/27/2015	12:23:23
7440-23-5	Sodium	97.0	J*	11/27/2015	12:23:23
7440-28-0	Thallium	4.3	U	11/27/2015	12:23:23
7440-62-2	Vanadium	19.6		11/27/2015	12:23:23
7440-66-6	Zinc	113		11/27/2015	12:23:23

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-013

% Solids: 51.3 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15300		11/27/2015	12:28:15
7440-36-0	Antimony	9.9	U*	11/27/2015	12:28:15
7440-38-2	Arsenic	2.1		11/27/2015	12:28:15
7440-39-3	Barium	77.7		11/27/2015	12:28:15
7440-41-7	Beryllium	0.60	J	11/27/2015	12:28:15
7440-43-9	Cadmium	0.22	J	11/27/2015	12:28:15
7440-70-2	Calcium	2630		11/27/2015	12:28:15
7440-47-3	Chromium	15.8		11/27/2015	12:28:15
7440-48-4	Cobalt	8.7		11/27/2015	12:28:15
7440-50-8	Copper	22.0	*	11/27/2015	12:28:15
7439-89-6	Iron	20600		11/27/2015	12:28:15
7439-92-1	Lead	22.8	*	11/27/2015	12:28:15
7439-95-4	Magnesium	5120		11/27/2015	12:28:15
7439-96-5	Manganese	352		11/27/2015	12:28:15
7440-02-0	Nickel	19.5	*	11/27/2015	12:28:15
7440-09-7	Potassium	1290		11/27/2015	12:28:15
7782-49-2	Selenium	5.8	U	11/27/2015	12:28:15
7440-22-4	Silver	1.6	U	11/27/2015	12:28:15
7440-23-5	Sodium	108	J*	11/27/2015	12:28:15
7440-28-0	Thallium	4.1	U	11/27/2015	12:28:15
7440-62-2	Vanadium	17.1		11/27/2015	12:28:15
7440-66-6	Zinc	79.9		11/27/2015	12:28:15

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-014

% Solids: 61.5 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	15500		11/27/2015	12:33:08
7440-36-0	Antimony	13.9	U*D	11/27/2015	14:05:18
7440-38-2	Arsenic	1.8		11/27/2015	12:33:08
7440-39-3	Barium	86.7		11/27/2015	12:33:08
7440-41-7	Beryllium	0.62		11/27/2015	12:33:08
7440-43-9	Cadmium	0.16	JD	11/27/2015	14:05:18
7440-70-2	Calcium	1900		11/27/2015	12:33:08
7440-47-3	Chromium	15.6		11/27/2015	12:33:08
7440-48-4	Cobalt	8.2		11/27/2015	12:33:08
7440-50-8	Copper	19.9	*D	11/27/2015	14:05:18
7439-89-6	Iron	22900	D	11/27/2015	14:05:18
7439-92-1	Lead	15.8	*D	11/27/2015	14:05:18
7439-95-4	Magnesium	4960		11/27/2015	12:33:08
7439-96-5	Manganese	328		11/27/2015	12:33:08
7440-02-0	Nickel	21.2	*D	11/27/2015	14:05:18
7440-09-7	Potassium	1100		11/27/2015	12:33:08
7782-49-2	Selenium	4.0	U	11/27/2015	12:33:08
7440-22-4	Silver	1.2	U	11/27/2015	12:33:08
7440-23-5	Sodium	78.4	J*	11/27/2015	12:33:08
7440-28-0	Thallium	2.9	U	11/27/2015	12:33:08
7440-62-2	Vanadium	16.6		11/27/2015	12:33:08
7440-66-6	Zinc	69.1		11/27/2015	12:33:08

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-015

% Solids: 47.8 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	14900		11/27/2015	12:37:59
7440-36-0	Antimony	9.0	U*	11/27/2015	12:37:59
7440-38-2	Arsenic	2.8		11/27/2015	12:37:59
7440-39-3	Barium	78.1		11/27/2015	12:37:59
7440-41-7	Beryllium	0.62	J	11/27/2015	12:37:59
7440-43-9	Cadmium	0.20	J	11/27/2015	12:37:59
7440-70-2	Calcium	2590		11/27/2015	12:37:59
7440-47-3	Chromium	15.6		11/27/2015	12:37:59
7440-48-4	Cobalt	9.4		11/27/2015	12:37:59
7440-50-8	Copper	21.5	*	11/27/2015	12:37:59
7439-89-6	Iron	21300		11/27/2015	12:37:59
7439-92-1	Lead	18.8	*	11/27/2015	12:37:59
7439-95-4	Magnesium	5160		11/27/2015	12:37:59
7439-96-5	Manganese	474		11/27/2015	12:37:59
7440-02-0	Nickel	20.1	*	11/27/2015	12:37:59
7440-09-7	Potassium	1060		11/27/2015	12:37:59
7782-49-2	Selenium	5.3	U	11/27/2015	12:37:59
7440-22-4	Silver	1.5	U	11/27/2015	12:37:59
7440-23-5	Sodium	106	J*	11/27/2015	12:37:59
7440-28-0	Thallium	3.8	U	11/27/2015	12:37:59
7440-62-2	Vanadium	15.9		11/27/2015	12:37:59
7440-66-6	Zinc	74.8		11/27/2015	12:37:59

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-016

% Solids: 76.9 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12200		11/27/2015	12:42:50
7440-36-0	Antimony	12.4	U*D	11/27/2015	14:10:03
7440-38-2	Arsenic	4.1		11/27/2015	12:42:50
7440-39-3	Barium	47.3		11/27/2015	12:42:50
7440-41-7	Beryllium	0.47	J	11/27/2015	12:42:50
7440-43-9	Cadmium	1.0	UD	11/27/2015	14:10:03
7440-70-2	Calcium	1520		11/27/2015	12:42:50
7440-47-3	Chromium	13.7		11/27/2015	12:42:50
7440-48-4	Cobalt	9.0		11/27/2015	12:42:50
7440-50-8	Copper	14.4	*D	11/27/2015	14:10:03
7439-89-6	Iron	27800	D	11/27/2015	14:10:03
7439-92-1	Lead	12.7	*D	11/27/2015	14:10:03
7439-95-4	Magnesium	6210		11/27/2015	12:42:50
7439-96-5	Manganese	444		11/27/2015	12:42:50
7440-02-0	Nickel	20.5	*D	11/27/2015	14:10:03
7440-09-7	Potassium	1060		11/27/2015	12:42:50
7782-49-2	Selenium	3.6	U	11/27/2015	12:42:50
7440-22-4	Silver	1.0	U	11/27/2015	12:42:50
7440-23-5	Sodium	50.6	J*	11/27/2015	12:42:50
7440-28-0	Thallium	0.41	J	11/27/2015	12:42:50
7440-62-2	Vanadium	13.4		11/27/2015	12:42:50
7440-66-6	Zinc	73.6		11/27/2015	12:42:50

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-017

% Solids: 87.3 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13500		11/27/2015	12:47:40
7440-36-0	Antimony	25.6	U*D	11/27/2015	14:14:55
7440-38-2	Arsenic	4.1		11/27/2015	12:47:40
7440-39-3	Barium	49.0		11/27/2015	12:47:40
7440-41-7	Beryllium	0.51		11/27/2015	12:47:40
7440-43-9	Cadmium	2.1	UD	11/27/2015	14:14:55
7440-70-2	Calcium	3320		11/27/2015	12:47:40
7440-47-3	Chromium	14.9		11/27/2015	12:47:40
7440-48-4	Cobalt	9.0		11/27/2015	12:47:40
7440-50-8	Copper	22.1	*D	11/27/2015	14:14:55
7439-89-6	Iron	34200	D	11/27/2015	14:14:55
7439-92-1	Lead	13.4	*D	11/27/2015	14:14:55
7439-95-4	Magnesium	6410		11/27/2015	12:47:40
7439-96-5	Manganese	404		11/27/2015	12:47:40
7440-02-0	Nickel	27.4	*D	11/27/2015	14:14:55
7440-09-7	Potassium	776		11/27/2015	12:47:40
7782-49-2	Selenium	3.0	U	11/27/2015	12:47:40
7440-22-4	Silver	0.85	U	11/27/2015	12:47:40
7440-23-5	Sodium	53.2	J*	11/27/2015	12:47:40
7440-28-0	Thallium	0.38	J	11/27/2015	12:47:40
7440-62-2	Vanadium	14.8		11/27/2015	12:47:40
7440-66-6	Zinc	65.9		11/27/2015	12:47:40

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-018

% Solids: 65.2 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11500		11/27/2015	12:52:39
7440-36-0	Antimony	12.6	U*D	11/27/2015	14:19:41
7440-38-2	Arsenic	3.7		11/27/2015	12:52:39
7440-39-3	Barium	43.2		11/27/2015	12:52:39
7440-41-7	Beryllium	0.43	J	11/27/2015	12:52:39
7440-43-9	Cadmium	0.11	JD	11/27/2015	14:19:41
7440-70-2	Calcium	3340		11/27/2015	12:52:39
7440-47-3	Chromium	12.1		11/27/2015	12:52:39
7440-48-4	Cobalt	7.7		11/27/2015	12:52:39
7440-50-8	Copper	15.7	*D	11/27/2015	14:19:41
7439-89-6	Iron	25700	D	11/27/2015	14:19:41
7439-92-1	Lead	16.2	*D	11/27/2015	14:19:41
7439-95-4	Magnesium	6430		11/27/2015	12:52:39
7439-96-5	Manganese	453		11/27/2015	12:52:39
7440-02-0	Nickel	19.5	*D	11/27/2015	14:19:41
7440-09-7	Potassium	791		11/27/2015	12:52:39
7782-49-2	Selenium	3.7	U	11/27/2015	12:52:39
7440-22-4	Silver	1.0	U	11/27/2015	12:52:39
7440-23-5	Sodium	55.3	J*	11/27/2015	12:52:39
7440-28-0	Thallium	0.59	J	11/27/2015	12:52:39
7440-62-2	Vanadium	14.0		11/27/2015	12:52:39
7440-66-6	Zinc	73.4		11/27/2015	12:52:39

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-019

% Solids: 76.0 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	8470		11/27/2015	12:57:31
7440-36-0	Antimony	6.8	U*	11/27/2015	12:57:31
7440-38-2	Arsenic	2.2		11/27/2015	12:57:31
7440-39-3	Barium	25.0		11/27/2015	12:57:31
7440-41-7	Beryllium	0.33	J	11/27/2015	12:57:31
7440-43-9	Cadmium	0.56	U	11/27/2015	12:57:31
7440-70-2	Calcium	787		11/27/2015	12:57:31
7440-47-3	Chromium	11.0		11/27/2015	12:57:31
7440-48-4	Cobalt	5.8		11/27/2015	12:57:31
7440-50-8	Copper	13.1	*	11/27/2015	12:57:31
7439-89-6	Iron	15400		11/27/2015	12:57:31
7439-92-1	Lead	8.8	*	11/27/2015	12:57:31
7439-95-4	Magnesium	3880		11/27/2015	12:57:31
7439-96-5	Manganese	164		11/27/2015	12:57:31
7440-02-0	Nickel	14.6	*	11/27/2015	12:57:31
7440-09-7	Potassium	906		11/27/2015	12:57:31
7782-49-2	Selenium	3.9	U	11/27/2015	12:57:31
7440-22-4	Silver	1.1	U	11/27/2015	12:57:31
7440-23-5	Sodium	65.7	J*	11/27/2015	12:57:31
7440-28-0	Thallium	2.8	U	11/27/2015	12:57:31
7440-62-2	Vanadium	11.4		11/27/2015	12:57:31
7440-66-6	Zinc	43.5		11/27/2015	12:57:31

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-002

% Solids: 65.5 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9260		11/27/2015	11:05:14
7440-36-0	Antimony	12.5	U*D	11/27/2015	13:26:24
7440-38-2	Arsenic	2.4		11/27/2015	11:05:14
7440-39-3	Barium	30.7		11/27/2015	11:05:14
7440-41-7	Beryllium	0.40	J	11/27/2015	11:05:14
7440-43-9	Cadmium	0.089	JD	11/27/2015	13:26:24
7440-70-2	Calcium	1680		11/27/2015	11:05:14
7440-47-3	Chromium	11.5		11/27/2015	11:05:14
7440-48-4	Cobalt	6.1		11/27/2015	11:05:14
7440-50-8	Copper	12.6	*D	11/27/2015	13:26:24
7439-89-6	Iron	17500	D	11/27/2015	13:26:24
7439-92-1	Lead	7.8	*D	11/27/2015	13:26:24
7439-95-4	Magnesium	3900		11/27/2015	11:05:14
7439-96-5	Manganese	190		11/27/2015	11:05:14
7440-02-0	Nickel	16.2	*D	11/27/2015	13:26:24
7440-09-7	Potassium	1110		11/27/2015	11:05:14
7782-49-2	Selenium	3.7	U	11/27/2015	11:05:14
7440-22-4	Silver	1.0	U	11/27/2015	11:05:14
7440-23-5	Sodium	122	J*	11/27/2015	11:05:14
7440-28-0	Thallium	2.6	U	11/27/2015	11:05:14
7440-62-2	Vanadium	13.2		11/27/2015	11:05:14
7440-66-6	Zinc	42.8		11/27/2015	11:05:14

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-003

% Solids: 83.9 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9440		11/27/2015	11:10:03
7440-36-0	Antimony	10.9	U*D	11/27/2015	13:31:09
7440-38-2	Arsenic	3.9		11/27/2015	11:10:03
7440-39-3	Barium	27.2		11/27/2015	11:10:03
7440-41-7	Beryllium	0.51		11/27/2015	11:10:03
7440-43-9	Cadmium	0.91	UD	11/27/2015	13:31:09
7440-70-2	Calcium	1090		11/27/2015	11:10:03
7440-47-3	Chromium	13.2		11/27/2015	11:10:03
7440-48-4	Cobalt	7.8		11/27/2015	11:10:03
7440-50-8	Copper	13.9	*D	11/27/2015	13:31:09
7439-89-6	Iron	21300	D	11/27/2015	13:31:09
7439-92-1	Lead	11.4	*D	11/27/2015	13:31:09
7439-95-4	Magnesium	4210		11/27/2015	11:10:03
7439-96-5	Manganese	199		11/27/2015	11:10:03
7440-02-0	Nickel	19.2	*D	11/27/2015	13:31:09
7440-09-7	Potassium	854		11/27/2015	11:10:03
7782-49-2	Selenium	3.2	U	11/27/2015	11:10:03
7440-22-4	Silver	0.91	U	11/27/2015	11:10:03
7440-23-5	Sodium	73.2	J*	11/27/2015	11:10:03
7440-28-0	Thallium	2.3	U	11/27/2015	11:10:03
7440-62-2	Vanadium	13.4		11/27/2015	11:10:03
7440-66-6	Zinc	47.2		11/27/2015	11:10:03

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-004

% Solids: 71.3 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9580		11/27/2015	11:14:55
7440-36-0	Antimony	12.9	U*D	11/27/2015	13:35:53
7440-38-2	Arsenic	3.3		11/27/2015	11:14:55
7440-39-3	Barium	31.9		11/27/2015	11:14:55
7440-41-7	Beryllium	0.40	J	11/27/2015	11:14:55
7440-43-9	Cadmium	1.1	UD	11/27/2015	13:35:53
7440-70-2	Calcium	3560		11/27/2015	11:14:55
7440-47-3	Chromium	12.6		11/27/2015	11:14:55
7440-48-4	Cobalt	6.5		11/27/2015	11:14:55
7440-50-8	Copper	15.8	*D	11/27/2015	13:35:53
7439-89-6	Iron	20600	D	11/27/2015	13:35:53
7439-92-1	Lead	10.1	*D	11/27/2015	13:35:53
7439-95-4	Magnesium	4930		11/27/2015	11:14:55
7439-96-5	Manganese	429		11/27/2015	11:14:55
7440-02-0	Nickel	18.0	*D	11/27/2015	13:35:53
7440-09-7	Potassium	844		11/27/2015	11:14:55
7782-49-2	Selenium	3.8	U	11/27/2015	11:14:55
7440-22-4	Silver	1.1	U	11/27/2015	11:14:55
7440-23-5	Sodium	89.5	J*	11/27/2015	11:14:55
7440-28-0	Thallium	0.55	J	11/27/2015	11:14:55
7440-62-2	Vanadium	13.5		11/27/2015	11:14:55
7440-66-6	Zinc	55.4		11/27/2015	11:14:55

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-005

% Solids: 78.3 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9230		11/27/2015	11:19:48
7440-36-0	Antimony	12.7	U*D	11/27/2015	13:40:46
7440-38-2	Arsenic	1.6		11/27/2015	11:19:48
7440-39-3	Barium	29.3		11/27/2015	11:19:48
7440-41-7	Beryllium	0.38	J	11/27/2015	11:19:48
7440-43-9	Cadmium	1.1	UD	11/27/2015	13:40:46
7440-70-2	Calcium	1630		11/27/2015	11:19:48
7440-47-3	Chromium	12.0		11/27/2015	11:19:48
7440-48-4	Cobalt	6.7		11/27/2015	11:19:48
7440-50-8	Copper	15.1	*D	11/27/2015	13:40:46
7439-89-6	Iron	18000	D	11/27/2015	13:40:46
7439-92-1	Lead	12.2	*D	11/27/2015	13:40:46
7439-95-4	Magnesium	4070		11/27/2015	11:19:48
7439-96-5	Manganese	202		11/27/2015	11:19:48
7440-02-0	Nickel	17.3	*D	11/27/2015	13:40:46
7440-09-7	Potassium	1080		11/27/2015	11:19:48
7782-49-2	Selenium	3.7	U	11/27/2015	11:19:48
7440-22-4	Silver	1.1	U	11/27/2015	11:19:48
7440-23-5	Sodium	60.0	J*	11/27/2015	11:19:48
7440-28-0	Thallium	2.7	U	11/27/2015	11:19:48
7440-62-2	Vanadium	12.3		11/27/2015	11:19:48
7440-66-6	Zinc	62.5		11/27/2015	11:19:48

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-006

% Solids: 80.8 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	10700		11/27/2015	11:24:41
7440-36-0	Antimony	12.1	U*D	11/27/2015	13:45:30
7440-38-2	Arsenic	3.1		11/27/2015	11:24:41
7440-39-3	Barium	30.8		11/27/2015	11:24:41
7440-41-7	Beryllium	0.43	J	11/27/2015	11:24:41
7440-43-9	Cadmium	1.0	UD	11/27/2015	13:45:30
7440-70-2	Calcium	2950		11/27/2015	11:24:41
7440-47-3	Chromium	13.1		11/27/2015	11:24:41
7440-48-4	Cobalt	7.0		11/27/2015	11:24:41
7440-50-8	Copper	18.0	*D	11/27/2015	13:45:30
7439-89-6	Iron	22700	D	11/27/2015	13:45:30
7439-92-1	Lead	12.2	*D	11/27/2015	13:45:30
7439-95-4	Magnesium	5160		11/27/2015	11:24:41
7439-96-5	Manganese	303		11/27/2015	11:24:41
7440-02-0	Nickel	19.5	*D	11/27/2015	13:45:30
7440-09-7	Potassium	1030		11/27/2015	11:24:41
7782-49-2	Selenium	3.5	U	11/27/2015	11:24:41
7440-22-4	Silver	1.0	U	11/27/2015	11:24:41
7440-23-5	Sodium	66.5	J*	11/27/2015	11:24:41
7440-28-0	Thallium	2.5	U	11/27/2015	11:24:41
7440-62-2	Vanadium	14.6		11/27/2015	11:24:41
7440-66-6	Zinc	59.3		11/27/2015	11:24:41

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7J0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-007

% Solids: 33.9 Date Received: 11/17/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13300		11/27/2015	11:29:33
7440-36-0	Antimony	15.5	U*	11/27/2015	11:29:33
7440-38-2	Arsenic	2.9		11/27/2015	11:29:33
7440-39-3	Barium	69.3		11/27/2015	11:29:33
7440-41-7	Beryllium	0.53	J	11/27/2015	11:29:33
7440-43-9	Cadmium	0.32	J	11/27/2015	11:29:33
7440-70-2	Calcium	7520		11/27/2015	11:29:33
7440-47-3	Chromium	15.1		11/27/2015	11:29:33
7440-48-4	Cobalt	8.4	J	11/27/2015	11:29:33
7440-50-8	Copper	27.0	*	11/27/2015	11:29:33
7439-89-6	Iron	20900		11/27/2015	11:29:33
7439-92-1	Lead	27.2	*	11/27/2015	11:29:33
7439-95-4	Magnesium	5810		11/27/2015	11:29:33
7439-96-5	Manganese	613		11/27/2015	11:29:33
7440-02-0	Nickel	18.2	*	11/27/2015	11:29:33
7440-09-7	Potassium	1170	J	11/27/2015	11:29:33
7782-49-2	Selenium	9.1	U	11/27/2015	11:29:33
7440-22-4	Silver	2.6	U	11/27/2015	11:29:33
7440-23-5	Sodium	139	J*	11/27/2015	11:29:33
7440-28-0	Thallium	6.5	U	11/27/2015	11:29:33
7440-62-2	Vanadium	16.0		11/27/2015	11:29:33
7440-66-6	Zinc	112		11/27/2015	11:29:33

NOTE: Hardness (total) is reported in mg/L

Comments:

ICP-AES
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2740	109	1	50000	51900	104	0	50700	101	0
Antimony	994	980	99	0	2500	2450	98	0	2450	98	0
Arsenic	999	1000	100	0	2500	2500	100	0	2490	100	0
Barium	497	511	103	0	10000	9980	100	3	10000	100	4
Beryllium	495	499	101	1	1000	1050	105	3	1010	101	1
Cadmium	496	480	97	0	1000	987	99	0	983	98	0
Calcium	10000	10800	108	0	50000	52300	105	0	51600	103	0
Chromium	490	504	103	2	10000	10300	103	3	9990	100	1
Cobalt	499	484	97	0	5000	4820	96	0	4810	96	0
Copper	492	488	99	1	12500	12200	98	3	11900	95	2
Iron	5080	5350	105	0	25000	26000	104	0	25500	102	0
Lead	1000	937	94	1	10000	9450	95	0	9400	94	0
Magnesium	6070	6440	106	0	50000	52400	105	0	51400	103	0
Manganese	499	517	104	1	5000	5040	101	2	4910	98	2
Nickel	503	488	97	0	5000	4800	96	0	4770	95	0
Potassium	10000	10600	106	0	37500	38700	103	0	38300	102	1
Selenium	1030	987	96	0	1250	1240	99	0	1240	99	0
Silver	501	502	100	1	750	759	101	3	739	99	1
Sodium	10100	11000	109	0	25000	26500	106	0	26400	106	0
Thallium	1030	989	96	1	1000	934	93	0	925	93	0
Vanadium	501	504	101	1	2500	2550	102	3	2480	99	1
Zinc	1030	1000	98	0	5000	4970	99	0	4950	99	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112715A ISMecs Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV047				ID: CCV049				ID: CCV050		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2640	105	1	50000	50700	101	0	50600	101	0
Antimony	994	952	96	0	2500	2450	98	0	2480	99	0
Arsenic	999	977	98	0	2500	2460	98	0	2470	99	0
Barium	497	491	99	0	10000	9900	99	3	9810	98	1
Beryllium	495	512	103	1	1000	1060	106	1	1040	104	2
Cadmium	496	469	95	0	1000	973	97	0	993	99	0
Calcium	10000	10200	102	0	50000	50300	101	0	49400	99	0
Chromium	490	479	98	1	10000	9720	97	2	9660	97	2
Cobalt	499	475	95	0	5000	4760	95	0	4860	97	0
Copper	492	494	100	1	12500	12300	98	0	12300	98	1
Iron	5080	5060	100	0	25000	25000	100	0	24500	98	0
Lead	1000	911	91	0	10000	9230	92	0	9300	93	0
Magnesium	6070	6160	101	0	50000	50500	101	0	49000	98	0
Manganese	499	505	101	1	5000	4960	99	1	4870	97	2
Nickel	503	476	95	0	5000	4720	94	0	4750	95	0
Potassium	10000	9750	97	1	37500	36500	97	0	35800	95	0
Selenium	1030	960	93	0	1250	1230	98	0	1230	98	0
Silver	501	483	96	1	750	732	98	1	732	98	1
Sodium	10100	10300	102	0	25000	25200	101	0	25000	100	0
Thallium	1030	964	94	0	1000	918	92	0	938	94	0
Vanadium	501	495	99	1	2500	2510	100	1	2500	100	1
Zinc	1030	975	95	0	5000	4850	97	0	4890	98	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112715A ISMecs Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV051				ID: CCV052		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	50000	100	0	50300	101	1
Antimony					2500	2420	97	0	2470	99	0
Arsenic					2500	2410	96	0	2440	98	0
Barium					10000	9640	96	1	9680	97	1
Beryllium					1000	1040	104	1	1030	103	1
Cadmium					1000	972	97	0	991	99	0
Calcium					50000	48700	97	0	48500	97	1
Chromium					10000	9420	94	1	9410	94	2
Cobalt					5000	4760	95	0	4870	97	0
Copper					12500	12100	97	1	12200	98	1
Iron					25000	24000	96	0	23900	96	0
Lead					10000	9080	91	0	9230	92	0
Magnesium					50000	48200	96	0	47800	96	1
Manganese					5000	4770	95	1	4760	95	1
Nickel					5000	4630	93	0	4690	94	0
Potassium					37500	35200	94	0	35100	94	1
Selenium					1250	1190	95	0	1210	97	0
Silver					750	709	95	1	715	95	1
Sodium					25000	24600	98	0	24500	98	1
Thallium					1000	922	92	0	944	94	0
Vanadium					2500	2430	97	1	2460	98	1
Zinc					5000	4780	96	0	4870	97	0

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix: WATER

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

Analytical Method: ICP-AES Preparation Batch: 89995

Run Batch: I5112115A ISM Preparation Method 200.7

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID:	Q	ID: PBW001	Q
Aluminum	200	U	200	U	200	U			200	U
Antimony	60.0	U	60.0	U	60.0	U			60.0	U
Arsenic	10.0	U	10.0	U	10.0	U			10.0	U
Barium	200	U	200	U	200	U			200	U
Beryllium	5.0	U	5.0	U	5.0	U			5.0	U
Cadmium	5.0	U	5.0	U	5.0	U			5.0	U
Calcium	5000	U	5000	U	5000	U			5000	U
Chromium	10.0	U	10.0	U	10.0	U			10.0	U
Cobalt	50.0	U	50.0	U	50.0	U			50.0	U
Copper	25.0	U	25.0	U	25.0	U			25.0	U
Iron	100	U	100	U	100	U			100	U
Lead	10.0	U	10.0	U	10.0	U			10.0	U
Magnesium	5000	U	5000	U	5000	U			5000	U
Manganese	15.0	U	15.0	U	15.0	U			15.0	U
Nickel	40.0	U	40.0	U	40.0	U			40.0	U
Potassium	136	J	105	J	5000	U			5000	U
Selenium	35.0	U	35.0	U	35.0	U			35.0	U
Silver	10.0	U	10.0	U	10.0	U			10.0	U
Sodium	5000	U	5000	U	5000	U			5000	U
Thallium	25.0	U	25.0	U	25.0	U			25.0	U
Vanadium	50.0	U	50.0	U	50.0	U			50.0	U
Zinc	60.0	U	60.0	U	60.0	U			60.0	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix: SOIL

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

Analytical Method: ICP-AES Preparation Batch: 90333

Run Batch: I5112715A ISMecs Preparation Method 3050B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB048	Q	ID: CCB049	Q	ID: CCB050	Q	ID: CCB051	Q	ID: PBS002	Q
Aluminum	200	U	200	U	200	U	200	U	20.0	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Barium	200	U	200	U	200	U	200	U	20.0	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Calcium	5000	U	5000	U	5000	U	5000	U	11.0	J
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Copper	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Iron	100	U	100	U	100	U	100	U	10.0	U
Lead	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Magnesium	5000	U	5000	U	5000	U	5000	U	500	U
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	1.5	U
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	4.0	U
Potassium	5000	U	5000	U	5000	U	5000	U	500	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	3.5	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	500	U
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5112715A ISMecs Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB052	Q	ID:	Q	ID:	Q	ID:	Q
Aluminum			200	U						
Antimony			60.0	U						
Arsenic			10.0	U						
Barium			200	U						
Beryllium			5.0	U						
Cadmium			5.0	U						
Calcium			5000	U						
Chromium			10.0	U						
Cobalt			50.0	U						
Copper			25.0	U						
Iron			100	U						
Lead			10.0	U						
Magnesium			5000	U						
Manganese			15.0	U						
Nickel			40.0	U						
Potassium			5000	U						
Selenium			35.0	U						
Silver			10.0	U						
Sodium			5000	U						
Thallium			25.0	U						
Vanadium			50.0	U						
Zinc			60.0	U						

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112715A ISMecs

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	265000	104	267000	108
Antimony	0.00	618	4.8	0	597	97
Arsenic	0.00	104	-4.2	0	97.3	94
Barium	6.0	537	8.4	140	538	100
Beryllium	0.0000	495	0.24	0	546	110
Cadmium	1.0	972	1.2	120	1010	104
Calcium	245000	235000	263000	108	262000	112
Chromium	52.0	542	60.0	115	580	107
Cobalt	0.000	476	-0.53	0	468	98
Copper	2.0	511	-3.9	-195	506	99
Iron	101000	99300	104000	103	105000	106
Lead	0.00	49.0	-0.41	0	45.5	93
Magnesium	255000	248000	272000	106	273000	110
Manganese	7.0	507	18.3	261	554	109
Nickel	2.0	954	3.0	150	936	98
Selenium	0.00	46.0	-0.43	0	51.0	111
Silver	0.00	201	0.20	0	214	106
Thallium	0.00	108	-2.0	0	88.6	82
Vanadium	0.00	491	1.8	0	519	106
Zinc	0.00	952	1.2	0	982	103

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112715A ISMecs

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	280000	110	255000	103
Antimony	0.00	618	4.2	0	571	92
Arsenic	0.00	104	-5.6	0	90.8	87
Barium	6.0	537	8.8	147	505	94
Beryllium	0.0000	495	0.19	0	556	112
Cadmium	1.0	972	1.3	130	965	99
Calcium	245000	235000	263000	108	240000	102
Chromium	52.0	542	61.7	119	540	100
Cobalt	0.000	476	-0.82	0	453	95
Copper	2.0	511	-0.65	-33	503	98
Iron	101000	99300	108000	107	97600	98
Lead	0.00	49.0	6.1	0	47.4	97
Magnesium	255000	248000	282000	110	256000	103
Manganese	7.0	507	19.3	276	530	105
Nickel	2.0	954	7.6	380	904	95
Selenium	0.00	46.0	-2.3	0	47.0	102
Silver	0.00	201	-0.35	0	201	100
Thallium	0.00	108	-2.0	0	87.7	81
Vanadium	0.00	491	2.0	0	499	102
Zinc	0.00	952	1.5	0	943	99

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7B8S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids for Sample: 44.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Antimony	75 - 125	5.8	J	20.2	U	33.6	17	*D
Arsenic	75 - 125	15.9		4.2		13.4	87	
Barium	75 - 125	706		86.6		672	92	
Beryllium	75 - 125	17.8		0.67	J	16.8	102	
Cadmium	75 - 125	15.1		0.49	J	16.8	87	D
Chromium	75 - 125	78.7		18.3		67.2	90	
Cobalt	75 - 125	158		9.9		168	88	
Copper	75 - 125	114		33.8		84.0	95	D
Lead		51.3		46.5		6.7	72	D
Manganese	75 - 125	726		566		168	95	
Nickel	75 - 125	167		21.5		168	87	D
Selenium	75 - 125	29.3		5.9	U	33.6	87	
Silver	75 - 125	15.0		1.7	U	16.8	89	
Thallium	75 - 125	15.4		4.2	U	16.8	92	
Vanadium	75 - 125	175		21.1		168	92	
Zinc	75 - 125	273		128		168	86	

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7B9S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids for Sample: 32.3

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Antimony	75 - 125	7.5	J	12.5	U	41.6	18	*
Arsenic	75 - 125	18.7		3.6		16.6	91	
Barium	75 - 125	859		100		832	91	
Beryllium	75 - 125	22.7		0.70	J	20.8	106	
Cadmium	75 - 125	19.0		0.41	J	20.8	89	
Chromium	75 - 125	97.5		19.0		83.2	94	
Cobalt	75 - 125	200		9.8	J	208	91	
Copper	75 - 125	141		35.9		104	101	
Lead		53.0		44.0		8.3	108	
Manganese	75 - 125	852		610		208	116	
Nickel	75 - 125	210		24.4		208	89	
Selenium	75 - 125	37.2		7.3	U	41.6	89	
Silver	75 - 125	19.3		2.1	U	20.8	93	
Thallium	75 - 125	19.7		5.2	U	20.8	95	
Vanadium	75 - 125	225		25.4		208	96	
Zinc	75 - 125	336		140		208	94	

FORM 5B-IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7B8A

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids:

Concentration Units: (ug/L, mg/L, or mg/Kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Q	Sample Result (SR)	Q	Spike Added (SA)	%R	Q
Antimony		117	JD	120	UD	120	98	

FORM 5B-IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7B9A

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids:

Concentration Units: (ug/L, mg/L, or mg/Kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Q	Sample Result (SR)	Q	Spike Added (SA)	%R	Q
Antimony		108		60.0	U	120	90	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7B8D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids: 44.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		16500		15700		5	
Antimony		21.9	U	21.9	U		
Arsenic	1.8	4.2		4.3		2	
Barium	36.5	86.6		84.6		2	
Beryllium		0.67	J	0.62	J		
Cadmium		0.49	J	0.43	J		
Calcium		10000		9290		7	
Chromium		18.3		16.9		8	
Cobalt	9.1	9.9		10.7		8	
Copper	9.1	33.8		33.0		2	
Iron		23900		25400		6	
Lead		46.5		43.9		6	
Magnesium		6110		5760		6	
Manganese		566		628		10	
Nickel	14.6	21.5		21.2		1	
Potassium	912	1430		1440		1	
Selenium		6.4	U	6.4	U		
Silver		1.8	U	1.8	U		
Sodium		123	J	104	J		
Thallium		4.6	U	4.6	U		
Vanadium	9.1	21.1		20.5		3	
Zinc		128		117		9	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7B9D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids: 32.3

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		18500		16500		11	
Antimony		12.8	U	12.8	U		
Arsenic	2.1	3.6		3.3		9	
Barium	42.6	100		89.2		11	
Beryllium		0.70	J	0.67	J		
Cadmium		0.41	J	0.44	J		
Calcium		12000		10700		11	
Chromium		19.0		18.3		4	
Cobalt		9.8	J	9.3	J		
Copper		35.9		34.4		4	
Iron		26900		23900		12	
Lead		44.0		41.9		5	
Magnesium		7420		6510		13	
Manganese		610		616		1	
Nickel	8.5	24.4		23.3		5	
Potassium	1070	1580		1440		9	
Selenium		7.5	U	7.5	U		
Silver		2.1	U	2.1	U		
Sodium		154	J	137	J		
Thallium		5.3	U	0.78	J		
Vanadium	10.7	25.4		24.7		3	
Zinc		140		133		5	

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS001

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: WATER Preparation Method: 200.7

Analytical Method: ICP-AES Preparation Batch: 89995

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

Analyte	True	Found	%R
Aluminum	400	386	97
Antimony	120	120	100
Arsenic	20.0	21.3	107
Barium	400	389	97
Beryllium	10.0	10.0	100
Cadmium	10.0	9.2	92
Calcium	10000	10300	103
Chromium	20.0	20.2	101
Cobalt	100	94.7	95
Copper	50.0	47.4	95
Iron	200	220	110
Lead	20.0	17.3	87
Magnesium	10000	10500	105
Manganese	30.0	30.9	103
Nickel	80.0	75.3	94
Potassium	10000	10200	102
Selenium	70.0	71.3	102
Silver	20.0	20.4	102
Sodium	10000	10700	107
Thallium	50.0	49.6	99
Vanadium	100	97.7	98
Zinc	120	118	98

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS002

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Preparation Method: 3050B

Analytical Method: ICP-AES Preparation Batch: 90333

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

Analyte	True	Found	%R
Aluminum	40.0	40.5	101
Antimony	12.0	11.5	96
Arsenic	2.0	1.9	95
Barium	40.0	39.3	98
Beryllium	1.0	1.1	110
Cadmium	1.0	0.95	95
Calcium	1000	1040	104
Chromium	2.0	2.0	100
Cobalt	10.0	9.8	98
Copper	5.0	5.4	108
Iron	20.0	21.3	107
Lead	2.0	1.8	90
Magnesium	1000	1040	104
Manganese	3.0	3.1	103
Nickel	8.0	7.7	96
Potassium	1000	981	98
Selenium	7.0	6.6	94
Silver	2.0	1.9	95
Sodium	1000	1040	104
Thallium	5.0	4.8	96
Vanadium	10.0	10.0	100
Zinc	12.0	11.9	99

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC7B8L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	107000		113000		6	
Antimony	12.0	U	60.0	U		
Arsenic	27.1		24.7		9	
Barium	561		591		5	
Beryllium	4.3		4.4		2	
Cadmium	3.2		3.2	J	0	
Calcium	65000		68600		6	
Chromium	119		126		6	
Cobalt	64.0		68.0		6	
Copper	219		246		12	*
Iron	155000		169000		9	
Lead	302		331		10	
Magnesium	39600		42300		7	
Manganese	3670		3960		8	
Nickel	139		155		12	*
Potassium	9300		8830		5	
Selenium	6.2		3.3	J	47	
Silver	1.0	U	5.0	U		
Sodium	795		845	J	6	
Thallium	3.8		5.4	J	42	
Vanadium	137		143		4	
Zinc	831		867		4	

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC7B9L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	84000		85500		2	
Antimony	6.0	U	30.0	U		
Arsenic	16.5		9.3		44	
Barium	457		461		1	
Beryllium	3.2		3.3		3	
Cadmium	1.9		2.2	J	16	
Calcium	54600		53100		3	
Chromium	86.6		92.9		7	
Cobalt	44.4		47.7		7	
Copper	163		176		8	
Iron	123000		120000		2	
Lead	200		229		15	*
Magnesium	33800		33400		1	
Manganese	2780		2950		6	
Nickel	111		121		9	
Potassium	7210		6950		4	
Selenium	3.8		5.7	J	50	
Silver	1.0	U	5.0	U		
Sodium	700		807	J	15	*
Thallium	3.0		4.1	J	37	
Vanadium	116		126		9	
Zinc	638		686		8	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 200.7

Concentration Units (ug/L, ug, mg/kg): UG/L

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	95.0	02/07/2015
Antimony	206.83	7.8	02/07/2015
Arsenic	189.04	3.9	02/07/2015
Barium	455.40	19.0	02/07/2015
Beryllium	313.04	0.052	02/07/2015
Cadmium	228.80	0.60	02/07/2015
Calcium	422.67	503	02/07/2015
Chromium	267.72	1.8	02/07/2015
Cobalt	228.62	0.25	02/07/2015
Copper	327.40	5.0	02/07/2015
Iron	261.19	19.0	02/07/2015
Lead	220.35	3.5	02/07/2015
Magnesium	285.21	51.0	02/07/2015
Manganese	257.61	0.43	02/07/2015
Nickel	231.60	1.1	02/07/2015
Potassium	766.49	90.0	02/07/2015
Selenium	196.09	5.5	02/07/2015
Silver	328.07	1.6	02/07/2015
Sodium	589.59	516	02/07/2015
Thallium	190.86	3.8	02/07/2015
Vanadium	292.40	1.1	02/07/2015
Zinc	206.20	6.6	02/07/2015

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 3050B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	7.6	02/07/2015
Antimony	206.83	0.35	02/07/2015
Arsenic	189.04	0.39	02/07/2015
Barium	455.40	0.20	02/07/2015
Beryllium	313.04	0.0079	02/07/2015
Cadmium	228.80	0.040	02/07/2015
Calcium	422.67	6.9	02/07/2015
Chromium	267.72	0.012	02/07/2015
Cobalt	228.62	0.068	02/07/2015
Copper	327.40	0.24	02/07/2015
Iron	261.19	2.6	02/07/2015
Lead	220.35	0.28	02/07/2015
Magnesium	285.21	9.7	02/07/2015
Manganese	257.61	0.085	02/07/2015
Nickel	231.60	0.21	02/07/2015
Potassium	766.49	11.0	02/07/2015
Selenium	196.09	0.62	02/07/2015
Silver	328.07	0.19	02/07/2015
Sodium	589.59	4.9	02/07/2015
Thallium	190.86	0.36	02/07/2015
Vanadium	292.40	0.13	02/07/2015
Zinc	206.20	0.26	02/07/2015

FORM 10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	-0.000044	0	0.000024	0	0
Arsenic	189.00	0.000007(	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0.000003(	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0.000038	-0.000018	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0.00041	0	0.000035	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	-0.0005(	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0.000004(	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0.013	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0.00033
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0.00050
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0.0027
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Mo
Aluminum	308.215	0	0	0	0	0.012
Antimony	206.838	0.019	0	0	0	-0.0065
Arsenic	189.00	0.00079	0	0	-0.00042	0.00033
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0.00030	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00043	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	-0.0037
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00018	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	Tl	U	V	Zn
Aluminum	308.215	0	0	0	0.043	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0.00042	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0.0023	0	0	0	0
Copper	327.3	-0.00072	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	-0.012	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1348	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1353	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1357	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1402	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1407		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1413		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1418	X						X				X		X				X			X						
S07	1.0	1423	X						X				X		X													
S08	1.0	1428																	X			X						
S09	1.0	1433																				X						
S10	1.0	1437																	X									
ICV001	1.0	1442	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB001	1.0	1447	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA001	1.0	1452	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB001	1.0	1457	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV001	1.0	1502	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB001	1.0	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW001	1.0	1512	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS001	1.0	1516	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1521																										
ZZZZZZ	5.0	1526																										
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1535																										
ZZZZZZ	1.0	1540																										
ZZZZZZ	1.0	1545																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1555																										
MBC764	1.0	1559	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1604																										
ZZZZZZ	5.0	1609																										
ZZZZZZ	1.0	1614																										
ZZZZZZ	1.0	1619																										
ZZZZZZ	1.0	1623																										
ZZZZZZ	1.0	1628																										
ZZZZZZ	5.0	1633																										
ZZZZZZ	1.0	1638																										
ZZZZZZ	1.0	1643																										
ZZZZZZ	1.0	1647																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
CCV002	1.0	1652	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB002	1.0	1657	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/27/2015 End Date: 11/27/2015

Run Batch: I5112715A ISMecs

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	0907	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	0912	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	0916	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	0921	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	0926		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	0932		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	0937	X						X				X		X				X			X						
S07	1.0	0942	X						X				X		X													
S08	1.0	0947																	X			X						
S09	1.0	0952																				X						
S10	1.0	0957																	X									
ICV047	1.0	1001	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB048	1.0	1006	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA002	1.0	1011	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB002	1.0	1016	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV049	1.0	1021	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB049	1.0	1026	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBS002	1.0	1031	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS002	1.0	1036	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B8	1.0	1041	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7B8L	5.0	1045	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7B8D	1.0	1050	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7B8S	1.0	1055			X	X	X			X	X					X				X	X		X	X	X			
ZZZZZZ	1.0	1100																										
MBC7D3	1.0	1105	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D4	1.0	1110	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7H4	1.0	1114	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7H5	1.0	1119	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7H6	1.0	1124	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7J0	1.0	1129	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B7	1.0	1134	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B9	1.0	1139	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B9L	5.0	1144	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B9D	1.0	1148	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B9S	1.0	1153		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
MBC7B9A	1.0	1158		X																								
MBC7C0	1.0	1203	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV050	1.0	1208	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/27/2015 End Date: 11/27/2015

Run Batch: I5112715A ISMecs

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCB050	1.0	1213	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7C1	1.0	1218	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7C2	1.0	1223	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7C3	1.0	1228	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7C4	1.0	1233	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7C5	1.0	1237	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7C6	1.0	1242	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7C7	1.0	1247	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7C8	1.0	1252	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7D2	1.0	1257	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B8	2.0	1302		X				X				X	X	X				X										
MBC7B8L	10	1306		X				X				X	X	X				X										
MBC7B8D	2.0	1311		X				X				X	X	X				X										
MBC7B8S	2.0	1316		X				X				X		X				X										
MBC7B8A	2.0	1321		X																								
MBC7D3	2.0	1326		X				X				X	X	X				X										
MBC7D4	2.0	1331		X				X				X	X	X				X										
MBC7H4	2.0	1335		X				X				X	X	X				X										
MBC7H5	2.0	1340		X				X				X	X	X				X										
MBC7H6	2.0	1345		X				X				X	X	X				X										
MBC7C1	2.0	1350		X				X				X	X	X				X										
CCV051	1.0	1355	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB051	1.0	1400	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7C4	2.0	1405		X				X				X	X	X				X										
MBC7C6	2.0	1410		X				X				X	X	X				X										
MBC7C7	5.0	1414		X				X				X	X	X				X										
MBC7C8	2.0	1419		X				X				X	X	X				X										
CCV052	1.0	1424	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB052	1.0	1429	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.0062	0	200	183	-9	800	871	9
Antimony	0.00	0.0030	0	60.0	60	0	240	232	-3
Arsenic	0.00	0.00017	0	10.0	10	1	40.0	39	-2
Barium	0.00	-0.0032	0	200	206	3	800	787	-2
Beryllium	0.00	-0.00015	0	5.00	5.1	2	20.0	20	1
Cadmium	0.00	0.00090	0	5.00	4.6	-8	20.0	18	-9
Calcium	0.00	-0.86	0	5000	5454	9	20000	20774	4
Chromium	0.00	-0.00058	0	10.0	11	5	40.0	40	1
Cobalt	0.00	0.0052	0	50.0	49	-2	200	187	-6
Copper	0.00	0.0017	0	25.0	25	-1	100	96	-4
Iron	0.00	-0.020	0	100	114	14	400	410	3
Lead	0.00	0.0010	0	10.0	10	5	40.0	35	-12
Magnesium	0.00	-0.73	0	5000	5432	9	20000	20570	3
Manganese	0.00	-0.0011	0	15.0	16	6	60.0	61	2
Nickel	0.00	0.0039	0	40.0	39	-2	160	151	-6
Potassium	0.00	-0.85	0	5000	5361	7	20000	20390	2
Selenium	0.00	0.00034	0	35.0	36	3	140	135	-3
Silver	0.00	0.00041	0	10.0	9.9	-1	40.0	39	-2
Sodium	0.00	-0.73	0	3000	3392	13	12000	12709	6
Thallium	0.00	0.0025	0	25.0	25	1	100	93	-7
Vanadium	0.00	-0.00020	0	50.0	51	2	200	198	-1
Zinc	0.00	0.0012	0	60.0	61	1	240	235	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/27/2015

Analytical Method: ICP-AES **Run Batch:** I5112715A ISMecs

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.050	0	200	235	18	800	857	7
Antimony	0.00	0.0032	0	60.0	59	-1	240	232	-3
Arsenic	0.00	0.00005	0	10.0	9.9	-1	40.0	40	0
Barium	0.00	-0.025	0	200	215	8	800	837	5
Beryllium	0.00	-0.00037	0	5.00	5.1	1	20.0	21	4
Cadmium	0.00	0.00040	0	5.00	4.9	-3	20.0	19	-4
Calcium	0.00	-1.0	0	5000	5521	10	20000	21499	7
Chromium	0.00	-0.0018	0	10.0	11	10	40.0	43	7
Cobalt	0.00	0.0019	0	50.0	50	0	200	196	-2
Copper	0.00	0.0012	0	25.0	24	-2	100	98	-2
Iron	0.00	-0.027	0	100	113	13	400	441	10
Lead	0.00	0.00053	0	10.0	10	2	40.0	38	-5
Magnesium	0.00	-0.92	0	5000	5478	10	20000	21270	6
Manganese	0.00	-0.0024	0	15.0	16	8	60.0	64	7
Nickel	0.00	0.0014	0	40.0	40	0	160	157	-2
Potassium	0.00	-0.51	0	5000	5202	4	20000	20640	3
Selenium	0.00	-0.00037	0	35.0	35	0	140	142	1
Silver	0.00	-0.00020	0	10.0	9.9	-1	40.0	41	2
Sodium	0.00	-0.78	0	3000	3411	14	12000	13036	9
Thallium	0.00	0.00061	0	25.0	26	3	100	97	-3
Vanadium	0.00	-0.0040	0	50.0	52	3	200	208	4
Zinc	0.00	-0.0029	0	60.0	62	3	240	244	2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	51540	3			0			
Antimony	2500	2438	-2	3750	3719	-1	5000	5101	2
Arsenic	2500	2489	0	3750	3690	-2	5000	5073	1
Barium	10000	10071	1	15000	14865	-1	20000	20071	0
Beryllium	1000	1018	2	1500	1482	-1	2000	2000	0
Cadmium	1000	978	-2	1500	1532	2	2000	2104	5
Calcium	50000	52162	4			0			
Chromium	10000	9987	0	15000	14881	-1	20000	20131	1
Cobalt	5000	4775	-5	7500	7491	0	10000	10248	2
Copper	12500	12063	-3	18750	18908	1	25000	25283	1
Iron	25000	25923	4			0			
Lead	10000	9381	-6	15000	15048	0	20000	20576	3
Magnesium	50000	51730	3			0			
Manganese	5000	4938	-1	7500	7474	0	10000	10087	1
Nickel	5000	4778	-4	7500	7491	0	10000	10241	2
Potassium	37500	38530	3			0			
Selenium	1250	1241	-1	1875	1848	-1	2500	2540	2
Silver	750	738	-2	1125	1125	0	1500	1514	1
Sodium	25000	26334	5			0			
Thallium	1000	920	-8	1500	1520	1	2000	2067	3
Vanadium	2500	2477	-1	3750	3733	0	5000	5040	1
Zinc	5000	4945	-1	7500	7454	-1	10000	10107	1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/27/2015

Analytical Method: ICP-AES **Run Batch:** I5112715A ISMecs

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	49832	0			0			
Antimony	2500	2470	-1	3750	3715	-1	5000	5070	1
Arsenic	2500	2532	1	3750	3696	-1	5000	5022	0
Barium	10000	10036	0	15000	15404	3	20000	19508	-2
Beryllium	1000	1035	3	1500	1501	0	2000	1964	-2
Cadmium	1000	993	-1	1500	1533	2	2000	2086	4
Calcium	50000	51935	4			0			
Chromium	10000	10149	1	15000	15271	2	20000	19576	-2
Cobalt	5000	4827	-3	7500	7503	0	10000	10174	2
Copper	12500	12038	-4	18750	19215	2	25000	24999	0
Iron	25000	25827	3			0			
Lead	10000	9508	-5	15000	15071	0	20000	20423	2
Magnesium	50000	51380	3			0			
Manganese	5000	4989	0	7500	7721	3	10000	9785	-2
Nickel	5000	4836	-3	7500	7503	0	10000	10164	2
Potassium	37500	37760	1			0			
Selenium	1250	1263	1	1875	1848	-1	2500	2513	1
Silver	750	756	1	1125	1143	2	1500	1476	-2
Sodium	25000	26125	5			0			
Thallium	1000	938	-6	1500	1520	1	2000	2045	2
Vanadium	2500	2527	1	3750	3780	1	5000	4933	-1
Zinc	5000	4995	0	7500	7447	-1	10000	10052	1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	151080	1	300000	297320	-1			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	153170	2	300000	293440	-2			
Chromium									
Cobalt									
Copper									
Iron	75000	75827	1	150000	148230	-1			
Lead									
Magnesium	150000	151600	1	300000	295600	-1			
Manganese									
Nickel									
Potassium	112500	110800	-2				56250	55360	-2
Selenium									
Silver									
Sodium	75000	76448	2				37500	38765	3
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/27/2015

Analytical Method: ICP-AES **Run Batch:** I5112715A ISMecs

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	151360	1	300000	298710	0			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	149600	0	300000	296440	-1			
Chromium									
Cobalt									
Copper									
Iron	75000	76295	2	150000	147820	-1			
Lead									
Magnesium	150000	152100	1	300000	294800	-2			
Manganese									
Nickel									
Potassium	112500	111500	-1				56250	55740	-1
Selenium									
Silver									
Sodium	75000	76472	2				37500	38352	2
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10820	8			
Selenium									
Silver									
Sodium	100000	94852	-5						
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/27/2015

Analytical Method: ICP-AES **Run Batch:** I5112715A ISMecs

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10410	4			
Selenium									
Silver									
Sodium	100000	95104	-5						
Thallium									
Vanadium									
Zinc									

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	0.994	0.00317	Lin. Req	Inverse Conc
Antimony	0.9998	1.01	-0.000487	Lin. Req	Inverse Conc
Arsenic	0.9999	1.00	-0.000173	Lin. Req	Inverse Conc
Barium	1.0000	1.00	-0.00116	Lin. Req	Inverse Conc
Beryllium	0.9999	0.998	0.000861	Lin. Req	Inverse Conc
Cadmium	0.9996	1.03	-0.000452	Lin. Req	Inverse Conc
Calcium	0.9998	0.985	0.00663	Lin. Req	Inverse Conc
Chromium	1.0000	1.00	0.000177	Lin. Req	Inverse Conc
Cobalt	0.9996	1.01	0.000453	Lin. Req	Inverse Conc
Copper	0.9998	1.01	-0.000141	Lin. Req	Inverse Conc
Iron	0.9999	0.992	0.000660	Lin. Req	Inverse Conc
Lead	0.9994	1.01	-0.000187	Lin. Req	Inverse Conc
Magnesium	0.9999	0.989	-0.000172	Lin. Req	Inverse Conc
Manganese	1.0000	1.00	0.0000040	Lin. Req	Inverse Conc
Nickel	0.9996	1.01	-0.000617	Lin. Req	Inverse Conc
Potassium	0.9999	0.985	-0.00582	Lin. Req	Inverse Conc
Selenium	0.9999	1.00	-0.000170	Lin. Req	Inverse Conc
Silver	1.0000	1.00	0.0000370	Lin. Req	Inverse Conc
Sodium	0.9989	0.974	0.0120	Lin. Req	Inverse Conc
Thallium	0.9991	1.02	-0.000275	Lin. Req	Inverse Conc
Vanadium	1.0000	1.00	0.0000720	Lin. Req	Inverse Conc
Zinc	0.9999	1.00	-0.000340	Lin. Req	Inverse Conc

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

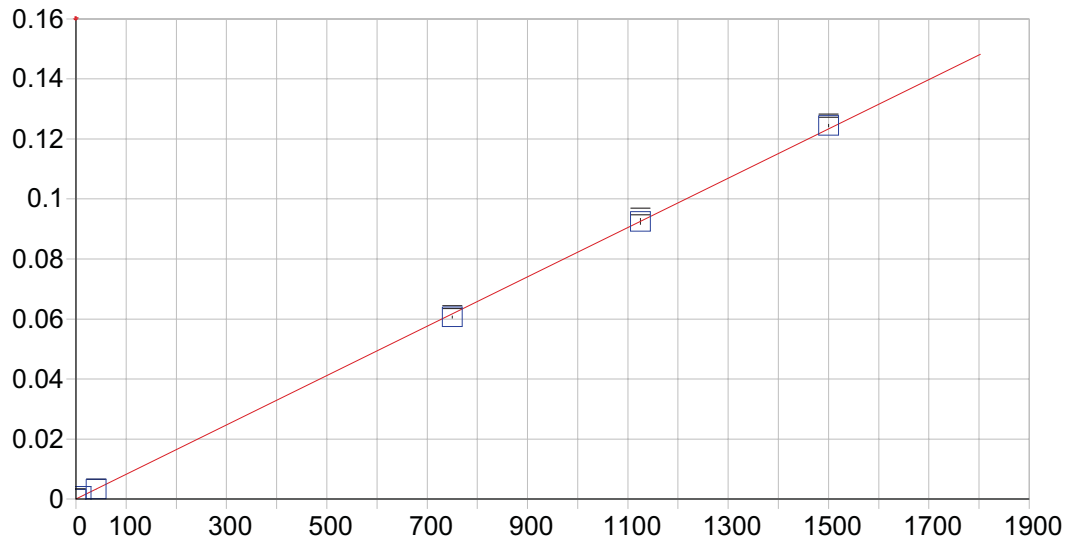
Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: ICP5 **Start Date:** 11/27/2015

Analytical Method: ICP-AES **Run Batch:** I5112715A ISMecs

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	0.998	0.00288	Lin. Req	Inverse Conc
Antimony	0.9999	1.00	-0.000399	Lin. Req	Inverse Conc
Arsenic	0.9999	1.000	-0.000141	Lin. Req	Inverse Conc
Barium	0.9996	0.994	-0.00572	Lin. Req	Inverse Conc
Beryllium	0.9998	0.993	0.000499	Lin. Req	Inverse Conc
Cadmium	0.9998	1.03	-0.000684	Lin. Req	Inverse Conc
Calcium	1.0000	0.989	0.00564	Lin. Req	Inverse Conc
Chromium	0.9998	0.995	0.000199	Lin. Req	Inverse Conc
Cobalt	0.9998	1.01	0.000545	Lin. Req	Inverse Conc
Copper	0.9998	1.00	-0.000220	Lin. Req	Inverse Conc
Iron	0.9999	0.991	0.000796	Lin. Req	Inverse Conc
Lead	0.9996	1.01	-0.000259	Lin. Req	Inverse Conc
Magnesium	0.9999	0.987	0.0000660	Lin. Req	Inverse Conc
Manganese	0.9997	0.996	-0.0000050	Lin. Req	Inverse Conc
Nickel	0.9998	1.01	-0.000762	Lin. Req	Inverse Conc
Potassium	1.0000	0.991	0.00355	Lin. Req	Inverse Conc
Selenium	0.9999	1.000	-0.000147	Lin. Req	Inverse Conc
Silver	0.9998	0.996	0.000116	Lin. Req	Inverse Conc
Sodium	0.9991	0.975	0.00843	Lin. Req	Inverse Conc
Thallium	0.9995	1.01	-0.000281	Lin. Req	Inverse Conc
Vanadium	0.9999	0.995	0.0000450	Lin. Req	Inverse Conc
Zinc	1.0000	1.00	-0.000420	Lin. Req	Inverse Conc

ICP-AES
Raw Data



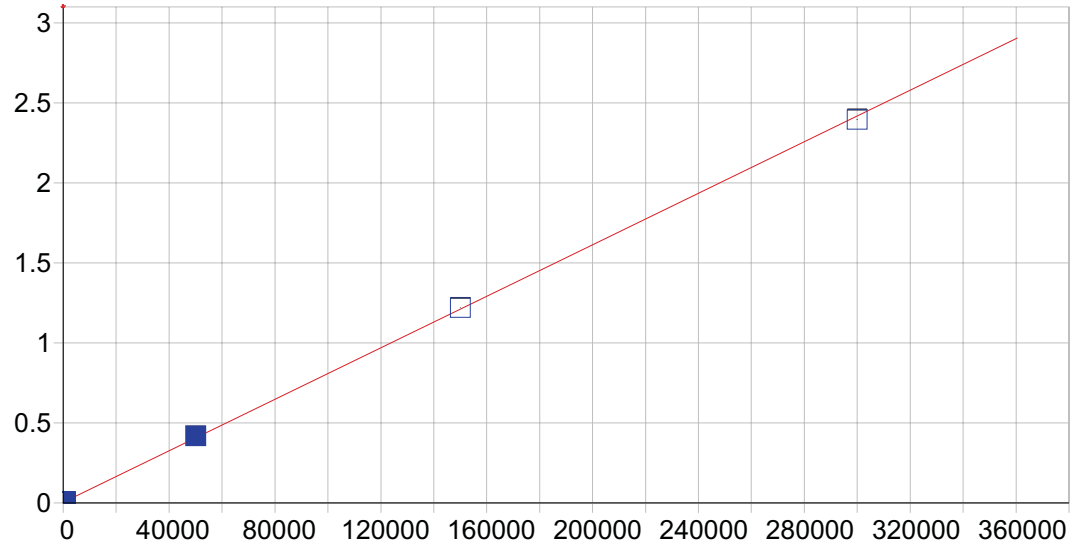
Ag 328.068 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000037	Re-Slope:	1.000000
A1 (Gain):	0.000082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.483268		
Predicted MQL:	1.610893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00041	.000	.000	.00004	.000	1
S01 ISM-520	10.000	9.8710	-.129	-1.29	.00085	.000	1
S02 ISM-521	40.000	39.179	-.821	-2.05	.00326	.000	1
S03 ISM-538	750.00	737.51	-12.5	-1.67	.06067	.000	1
S04 ISM-523	1125.0	1124.8	-.195	-.017	.09252	.001	1
S05 ISM-524	1500.0	1513.6	13.6	.909	.12448	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



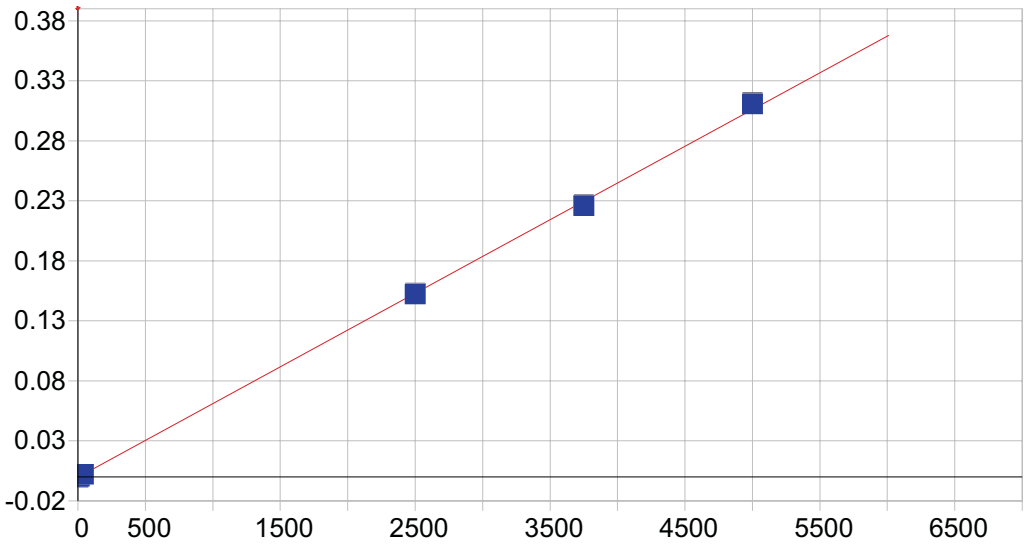
Al 308.215 {109}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003175	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	62.145854		
Predicted MQL:	207.152846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00616	-.006	.000	.00317	.000	1
S01 ISM-520	200.00	182.62	-17.4	-8.69	.00467	.000	1
S02 ISM-521	800.00	870.94	70.9	8.87	.01027	.000	1
S03 ISM-538	50000.	51538.	1540.	3.08	.41909	.002	1
S06 ISM-463	150000.	151080.	1080.	.721	1.2196	.002	1
S07 ISM-464	300000.	297320.	-2680.	-.893	2.3970	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



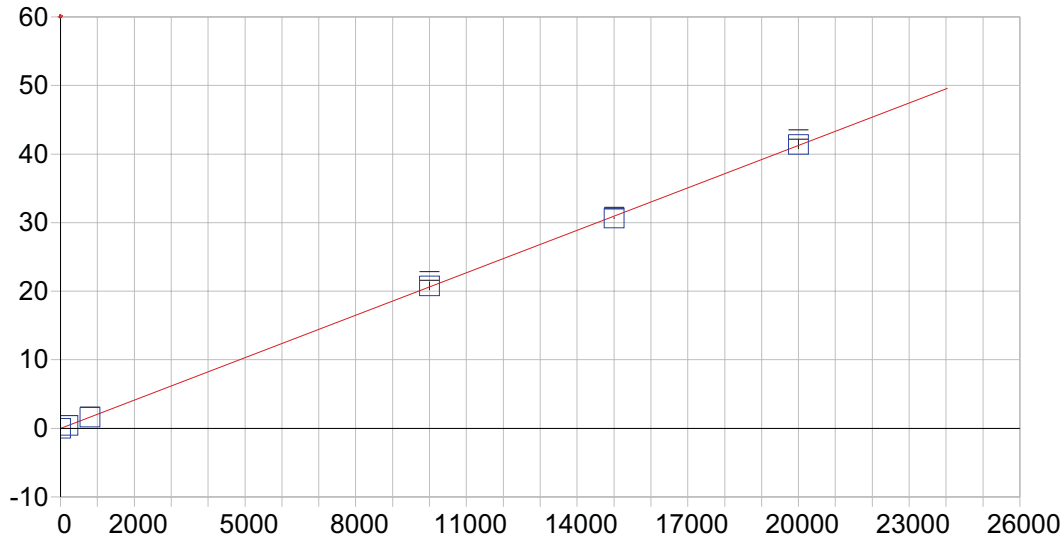
As 189.042 {478}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000173	Re-Slope:	1.000000
A1 (Gain):	0.000061	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	1.259893		
Predicted MQL:	4.199644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00017	.000	.000	-.00017	.000	1
S01 ISM-520	10.000	10.113	.113	1.13	.00045	.000	1
S02 ISM-521	40.000	39.124	-.876	-2.19	.00223	.000	1
S03 ISM-538	2500.0	2488.6	-11.4	-.454	.15263	.000	1
S04 ISM-523	3750.0	3689.4	-60.6	-1.62	.22633	.000	1
S05 ISM-524	5000.0	5072.8	72.8	1.46	.31123	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



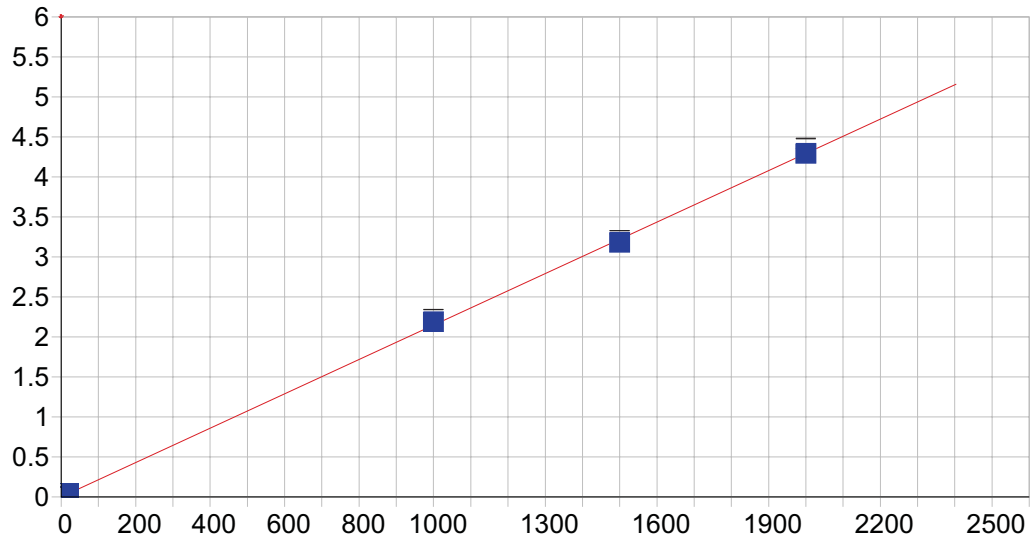
Ba 455.403 { 74}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001162	Re-Slope:	1.000000
A1 (Gain):	0.002063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.001736		
Predicted MDL:	0.631319		
Predicted MQL:	2.104397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00316	-.003	.000	-.00117	.001	1
S01 ISM-520	200.00	206.11	6.11	3.06	.42399	.016	1
S02 ISM-521	800.00	786.88	-13.1	-1.64	1.6219	.002	1
S03 ISM-538	10000.	10071.	70.5	.705	20.771	.643	1
S04 ISM-523	15000.	14865.	-135.	-.898	30.661	.129	1
S05 ISM-524	20000.	20071.	71.2	.356	41.399	.683	1

PDF created with pdfFactory trial version www.pdffactory.com



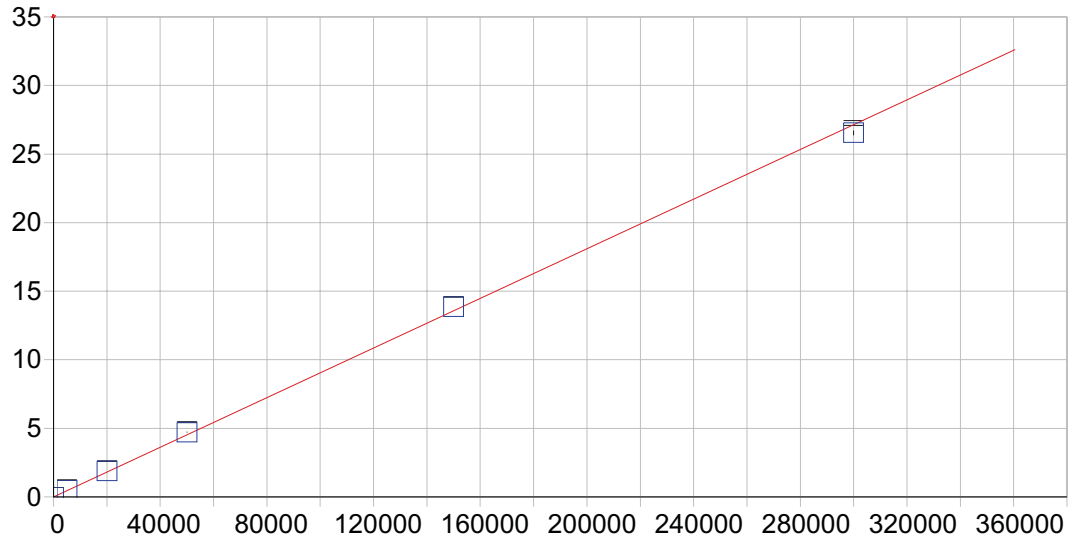
Be 313.042 {108}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000861	Re-Slope:	1.000000
A1 (Gain):	0.002146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.015736		
Predicted MQL:	0.052454		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00086	.000	1
S01 ISM-520	5.0000	5.0875	.087	1.75	.01183	.000	1
S02 ISM-521	20.000	20.149	.149	.747	.04429	.000	1
S03 ISM-538	1000.0	1018.2	18.2	1.82	2.1884	.031	1
S04 ISM-523	1500.0	1481.9	-18.1	-1.21	3.1849	.021	1
S05 ISM-524	2000.0	1999.7	-.268	-.013	4.2975	.061	1

PDF created with pdfFactory trial version www.pdffactory.com

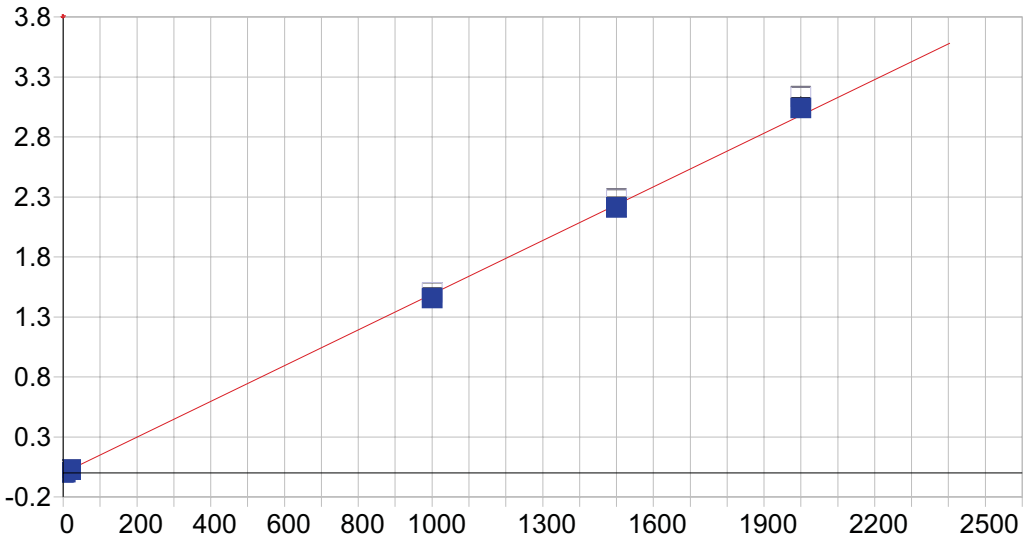


Ca 317.933 {106}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.006635		Re-Slope:	1.000000		
A1 (Gain):	0.000090		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999643		Status:	OK.		
Std Error of Est:	0.004793					
Predicted MDL:	6.637735					
Predicted MQL:	22.125783					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.86015	-.860	.000	.00656	.000	1
S01 ISM-520	5000.0	5454.1	454.	9.08	.49988	.019	1
S02 ISM-521	20000.	20774.	774.	3.87	1.8853	.005	1
S03 ISM-538	50000.	52162.	2160.	4.32	4.7239	.034	1
S06 ISM-463	150000.	153170.	3170.	2.11	13.858	.005	1
S07 ISM-464	300000.	293440.	-6560.	-2.19	26.544	.171	1

PDF created with pdfFactory trial version www.pdffactory.com

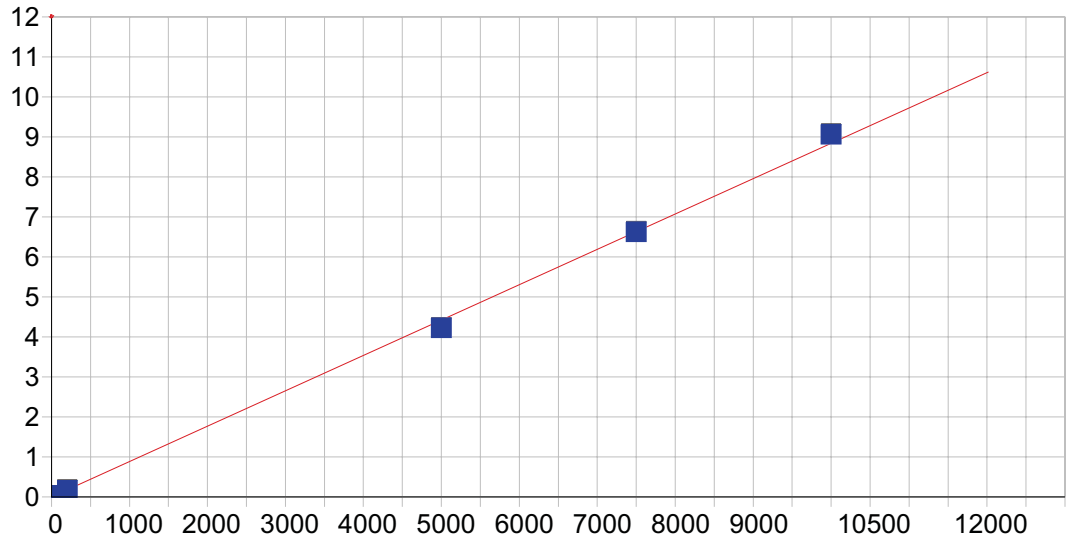


Cd 228.802 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	-0.000452		Re-Slope:	1.000000		
A1 (Gain):	0.001490		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999826		Status:	OK.		
Std Error of Est:	0.000167					
Predicted MDL:	0.182839					
Predicted MQL:	0.609463					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00090	.001	.000	-.00045	.000	1
S01 ISM-520	5.0000	4.6187	-.381	-7.63	.00662	.000	1
S02 ISM-521	20.000	18.178	-1.82	-9.11	.02739	.000	1
S03 ISM-538	1000.0	977.48	-22.5	-2.25	1.5035	.002	1
S04 ISM-523	1500.0	1484.4	-15.6	-1.04	2.2825	.004	1
S05 ISM-524	2000.0	2040.3	40.3	2.01	3.1344	.004	1

PDF created with pdfFactory trial version www.pdffactory.com

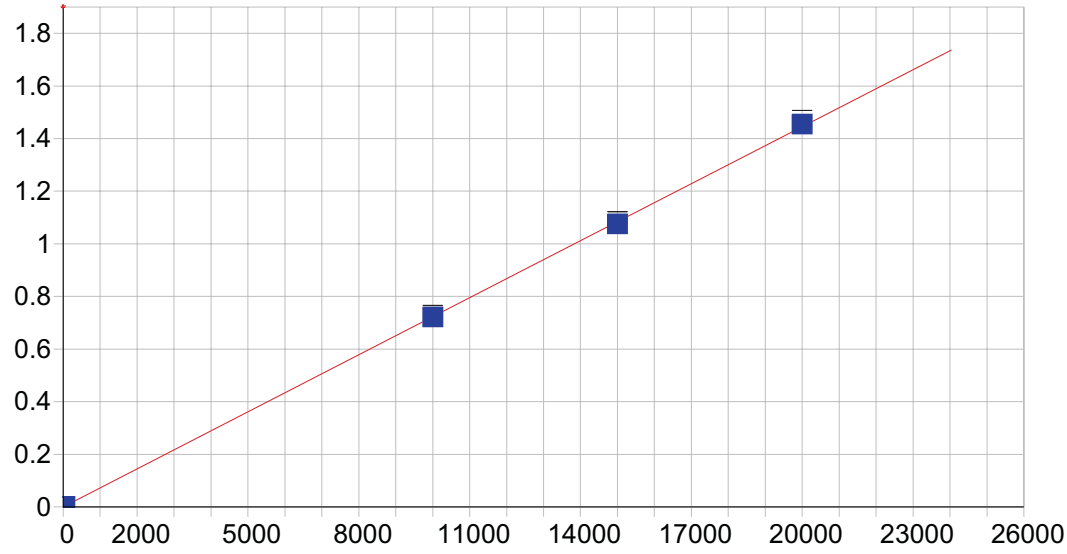


Co 228.616 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000453		Re-Slope:	1.000000		
A1 (Gain):	0.000884		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999623		Status:	OK.		
Std Error of Est:	0.001003					
Predicted MDL:	0.180383					
Predicted MQL:	0.601276					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00521	.005	.000	.00046	.000	1
S01 ISM-520	50.000	49.047	-.953	-1.91	.04391	.000	1
S02 ISM-521	200.00	187.26	-12.7	-6.37	.16620	.000	1
S03 ISM-538	5000.0	4774.7	-225.	-4.51	4.2234	.005	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	6.6253	.011	1
S05 ISM-524	10000.	10248.	248.	2.48	9.0644	.011	1

PDF created with pdfFactory trial version www.pdffactory.com

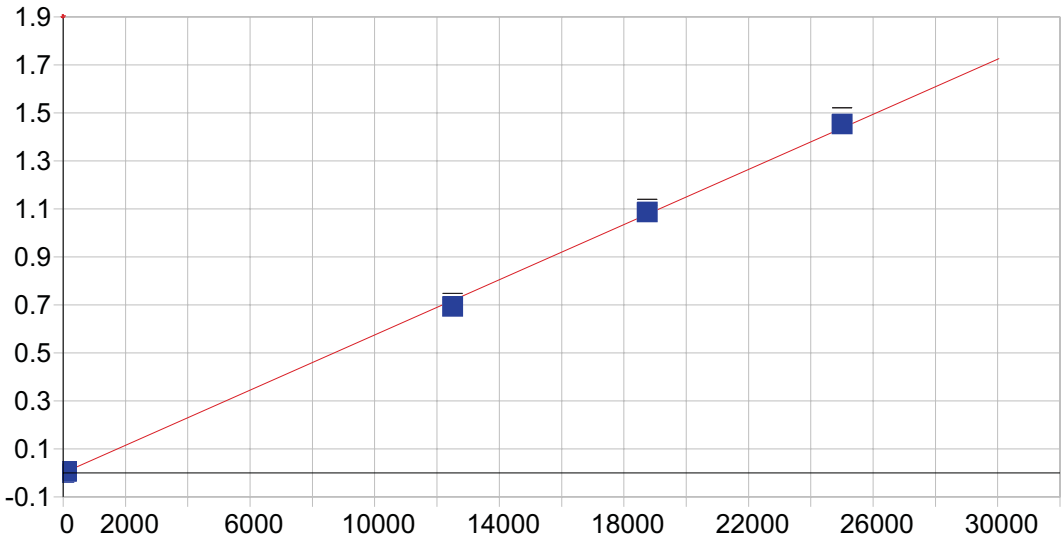


Cr 267.716 {126}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000177		Re-Slope:	1.000000		
A1 (Gain):	0.000072		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999979		Status:	OK.		
Std Error of Est:	0.000012					
Predicted MDL:	0.347563					
Predicted MQL:	1.158543					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00058	-.001	.000	.00018	.000	1
S01 ISM-520	10.000	10.511	.511	5.11	.00094	.000	1
S02 ISM-521	40.000	40.392	.392	.981	.00310	.000	1
S03 ISM-538	10000.	9986.6	-13.4	-.134	.72199	.006	1
S04 ISM-523	15000.	14881.	-119.	-.794	1.0757	.009	1
S05 ISM-524	20000.	20132.	132.	.658	1.4552	.014	1

PDF created with pdfFactory trial version www.pdffactory.com

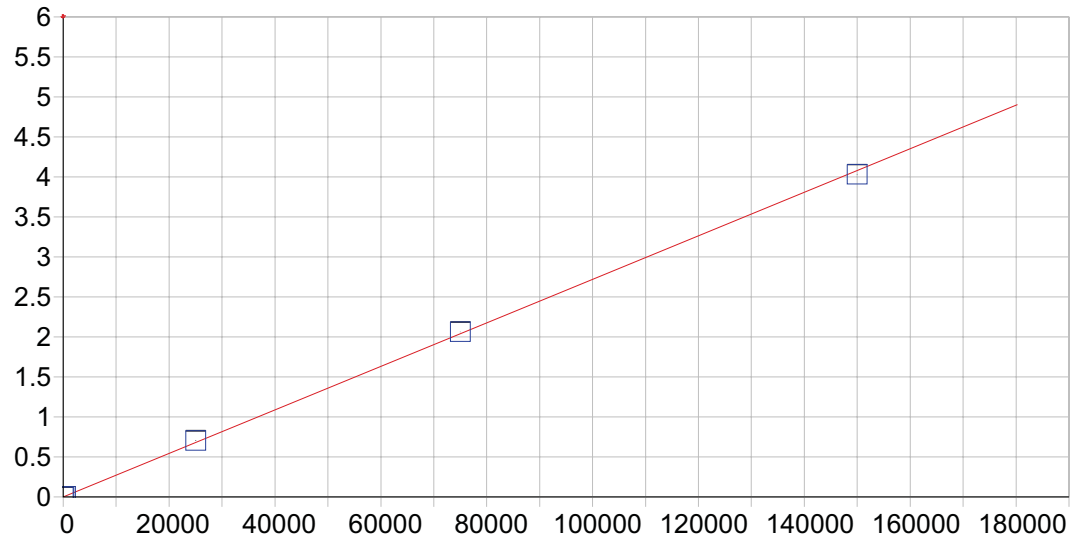


Cu 327.396 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	-0.000141		Re-Slope:	1.000000		
A1 (Gain):	0.000057		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999823		Status:	OK.		
Std Error of Est:	0.000050					
Predicted MDL:	0.753977					
Predicted MQL:	2.513258					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00168	.002	.000	-.00014	.000	1
S01 ISM-520	25.000	24.739	-.261	-1.04	.00129	.000	1
S02 ISM-521	100.00	95.837	-4.16	-4.16	.00541	.000	1
S03 ISM-538	12500.	12063.	-437.	-3.49	.69350	.013	1
S04 ISM-523	18750.	18908.	158.	.841	1.0869	.012	1
S05 ISM-524	25000.	25283.	283.	1.13	1.4535	.027	1

PDF created with pdfFactory trial version www.pdffactory.com



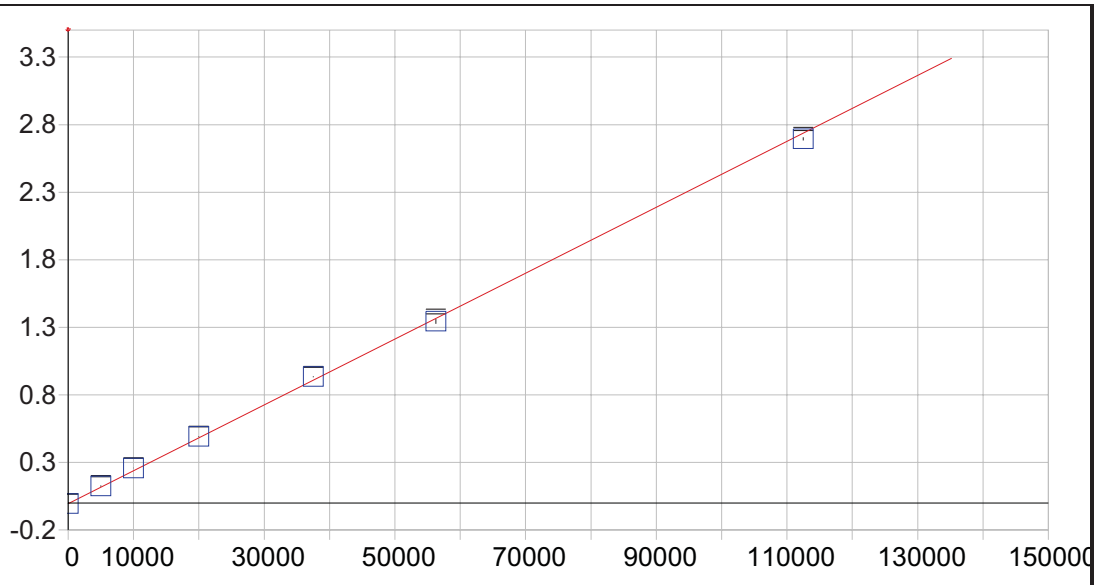
Fe 261.187 {129}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000660	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	12.750488		
Predicted MQL:	42.501625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02009	-.020	.000	.00066	.000	1
S01 ISM-520	100.00	113.94	13.9	13.9	.00376	.000	1
S02 ISM-521	400.00	410.15	10.1	2.54	.01181	.000	1
S03 ISM-538	25000.	25923.	923.	3.69	.70548	.004	1
S06 ISM-463	75000.	75827.	827.	1.10	2.0623	.001	1
S07 ISM-464	150000.	148230.	-1770.	-1.18	4.0307	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



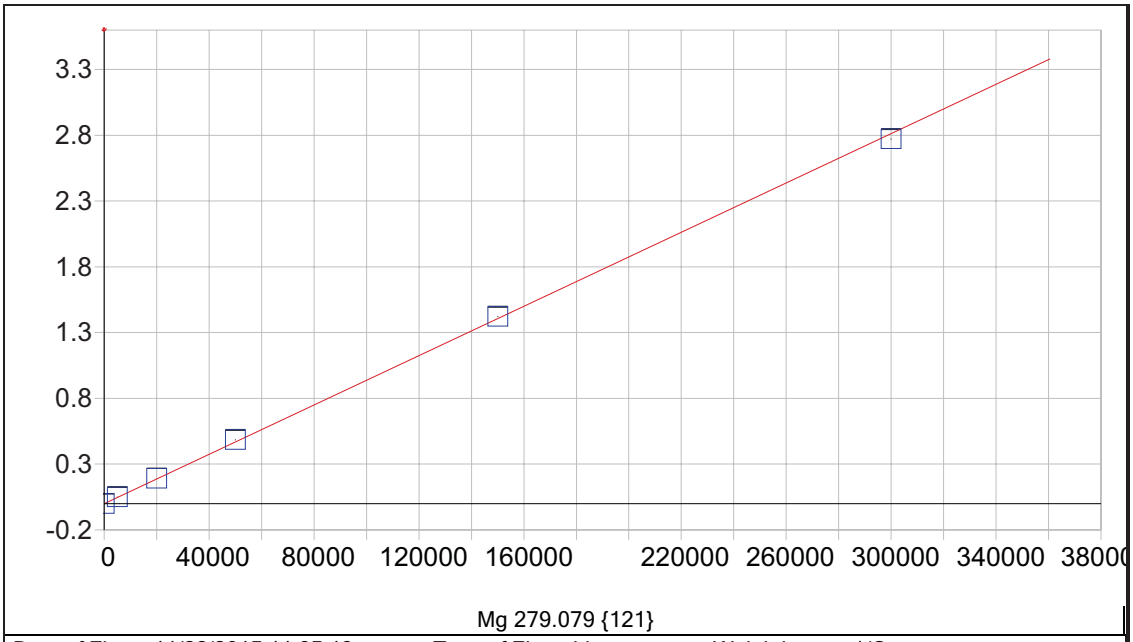
K 766.490 { 44}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005825	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999648	Status:	OK.
Std Error of Est:	0.000839		
Predicted MDL:	63.731155		
Predicted MQL:	212.437185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.85059	-.851	.000	-.00585	.002	1
S02 ISM-521	20000.	20394.	394.	1.97	.49133	.002	1
S01 ISM-520	5000.0	5360.6	361.	7.21	.12485	.005	1
S03 ISM-538	37500.	38534.	1030.	2.76	.93352	.005	1
S08 ISM-465	56250.	55359.	-891.	-1.58	1.3437	.018	1
S06 ISM-463	112500.	110780.	-1720.	-1.52	2.6948	.012	1
S10 ISM-457	10000.	10818.	818.	8.18	.25789	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



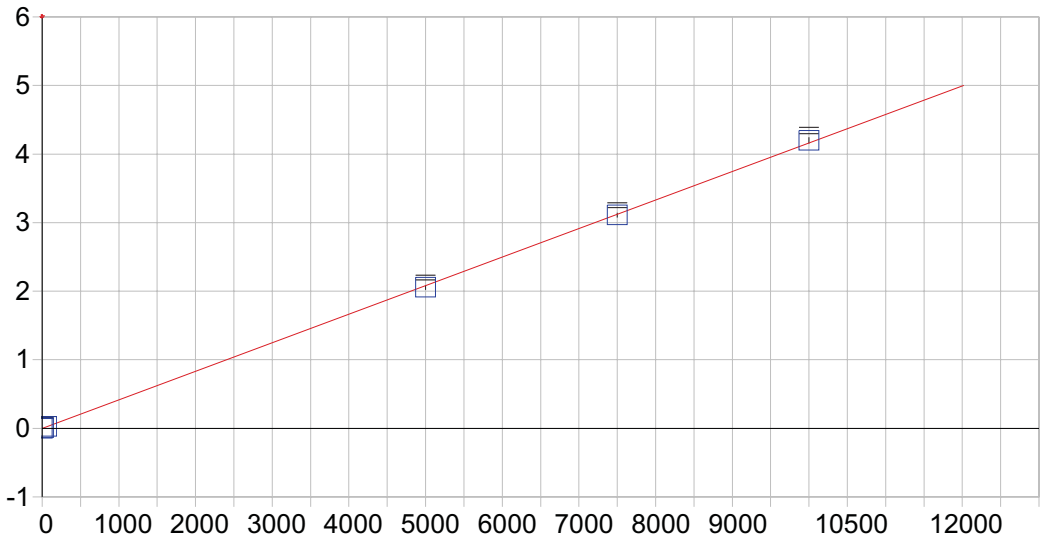
Mg 279.079 {121}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000172	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000358		
Predicted MDL:	33.403479		
Predicted MQL:	111.344929		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.72888	-.729	.000	-.00018	.000	1
S01 ISM-520	5000.0	5432.4	432.	8.65	.05076	.002	1
S02 ISM-521	20000.	20567.	567.	2.84	.19268	.001	1
S03 ISM-538	50000.	51726.	1730.	3.45	.48483	.003	1
S06 ISM-463	150000.	151650.	1650.	1.10	1.4218	.003	1
S07 ISM-464	300000.	295630.	-4370.	-1.46	2.7717	.003	1

PDF created with pdfFactory trial version www.pdffactory.com

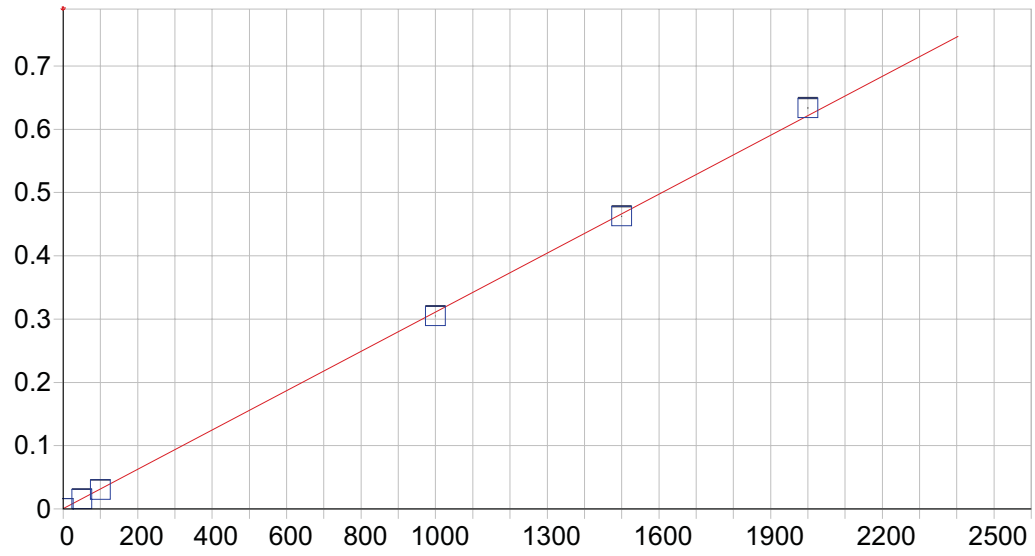


Mn 257.610 {131}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000004		Re-Slope:	1.000000		
A1 (Gain):	0.000416		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999962		Status:	OK.		
Std Error of Est:	0.000082					
Predicted MDL:	0.058489					
Predicted MQL:	0.194962					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00114	-.001	.000	.00000	.000	1
S01 ISM-520	15.000	15.968	.968	6.46	.00665	.000	1
S02 ISM-521	60.000	61.130	1.13	1.88	.02544	.000	1
S03 ISM-538	5000.0	4937.6	-62.4	-1.25	2.0549	.033	1
S04 ISM-523	7500.0	7473.5	-26.5	-.353	3.1103	.035	1
S05 ISM-524	10000.	10087.	86.8	.868	4.1979	.046	1

PDF created with pdfFactory trial version www.pdffactory.com



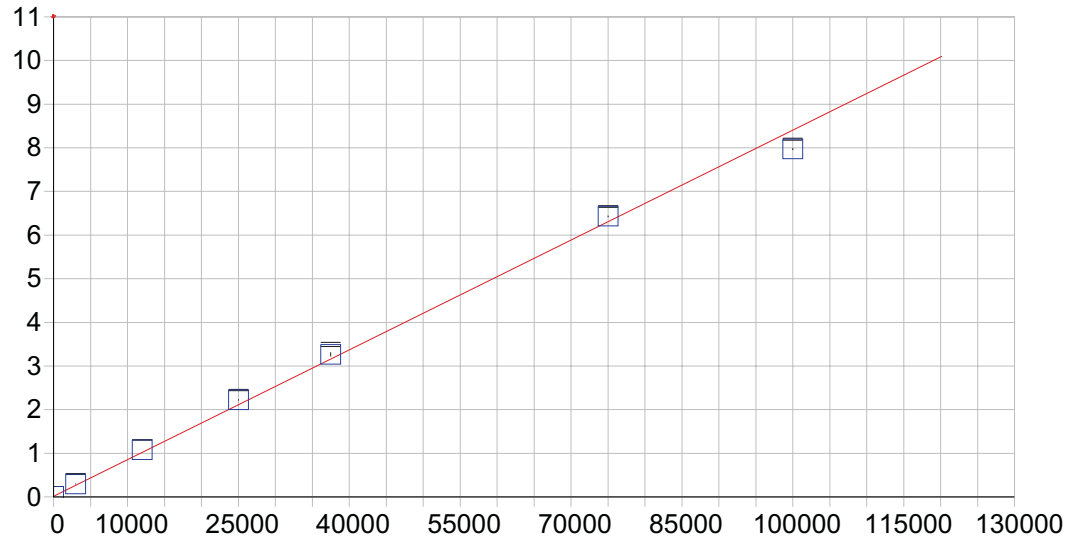
Mo 202.030 {467}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000647	Re-Slope:	1.000000
A1 (Gain):	0.000310	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.284501		
Predicted MQL:	0.948337		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00487	.005	.000	.00065	.000	1
S01 ISM-520	50.000	47.962	-2.04	-4.08	.01554	.000	1
S02 ISM-521	100.00	95.197	-4.80	-4.80	.03020	.000	1
S03 ISM-538	1000.0	980.18	-19.8	-1.98	.30496	.001	1
S04 ISM-523	1500.0	1487.8	-12.2	-.811	.46257	.001	1
S05 ISM-524	2000.0	2038.8	38.8	1.94	.63363	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



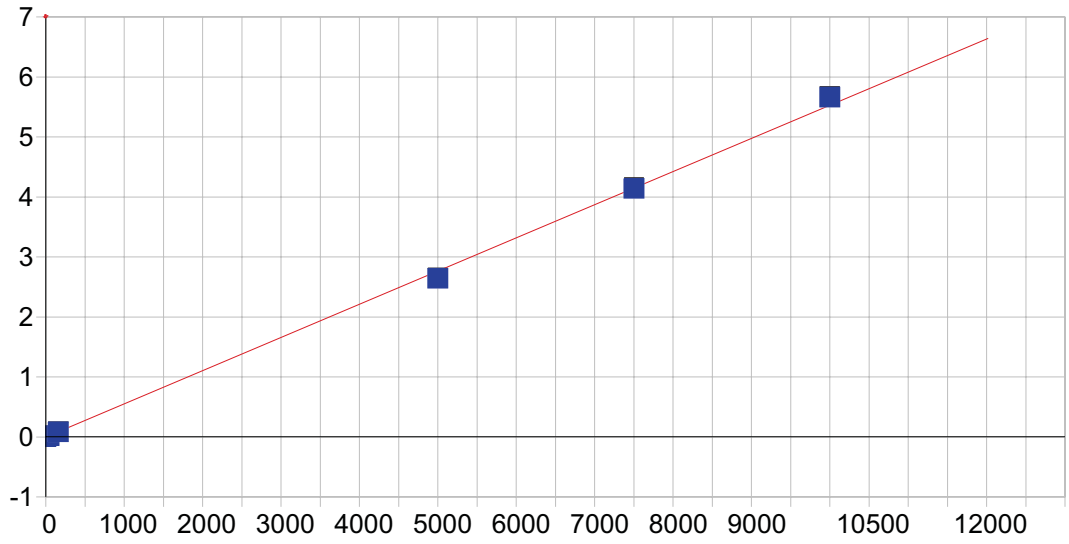
Na 589.592 { 57}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012000	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999010	Status:	OK.
Std Error of Est:	0.003844		
Predicted MDL:	22.751943		
Predicted MQL:	75.839810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.73411	-.734	.000	.01194	.000	1
S01 ISM-520	3000.0	3392.0	392.	13.1	.29668	.010	1
S02 ISM-521	12000.	12709.	709.	5.91	1.0786	.000	1
S03 ISM-538	25000.	26334.	1330.	5.34	2.2221	.013	1
S06 ISM-463	75000.	76448.	1450.	1.93	6.4279	.016	1
S08 ISM-465	37500.	38765.	1270.	3.37	3.2654	.047	1
S09 ISM-456	100000.	94852.	-5150.	-5.15	7.9724	.022	1

PDF created with pdfFactory trial version www.pdffactory.com



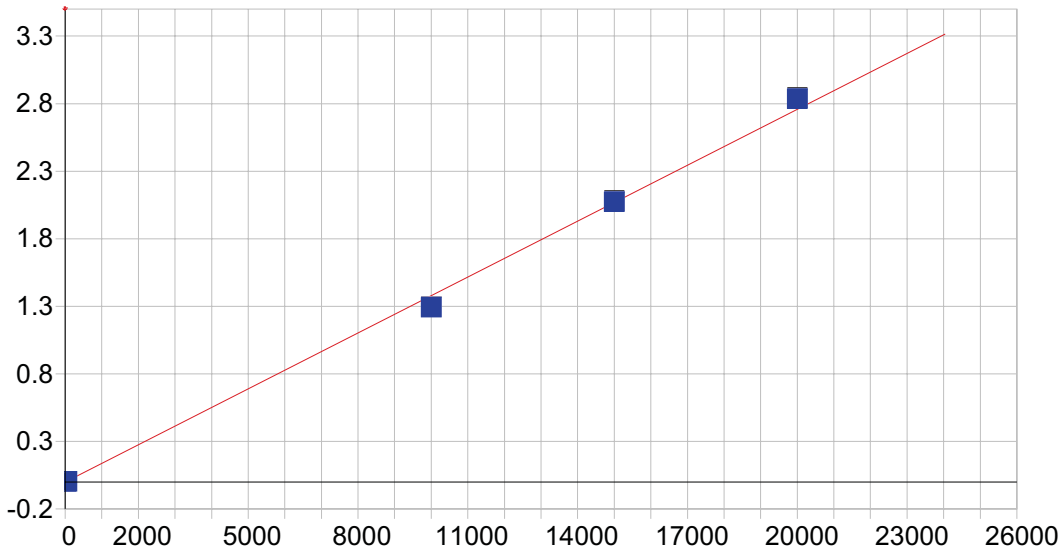
Ni 231.604 {445}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000617	Re-Slope:	1.000000
A1 (Gain):	0.000553	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.000545		
Predicted MDL:	0.296618		
Predicted MQL:	0.988726		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00395	.004	.000	-.00062	.000	1
S01 ISM-520	40.000	39.263	-.737	-1.84	.02110	.000	1
S02 ISM-521	160.00	150.57	-9.43	-5.89	.08267	.000	1
S03 ISM-538	5000.0	4778.2	-222.	-4.44	2.6417	.004	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	4.1423	.008	1
S05 ISM-524	10000.	10241.	241.	2.41	5.6636	.010	1

PDF created with pdfFactory trial version www.pdffactory.com

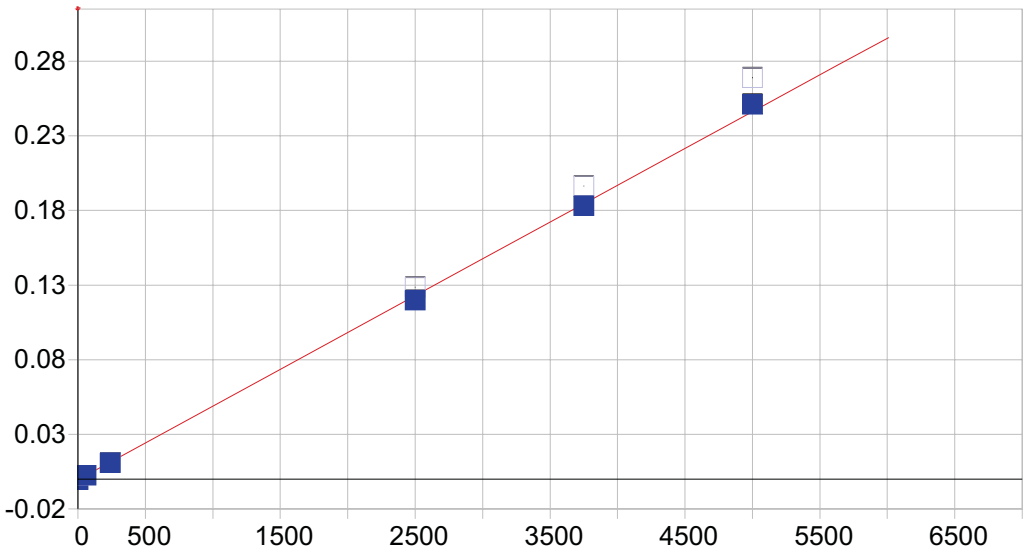


Pb 220.353 {453}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	-0.000187		Re-Slope:	1.000000		
A1 (Gain):	0.000138		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999385		Status:	OK.		
Std Error of Est:	0.000126					
Predicted MDL:	1.503113					
Predicted MQL:	5.010378					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00100	.001	.000	-.00019	.000	1
S01 ISM-520	10.000	10.457	.457	4.57	.00127	.000	1
S02 ISM-521	40.000	35.363	-4.64	-11.6	.00475	.000	1
S03 ISM-538	10000.	9381.1	-619.	-6.19	1.2970	.001	1
S04 ISM-523	15000.	15048.	48.2	.321	2.0758	.005	1
S05 ISM-524	20000.	20576.	576.	2.88	2.8384	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



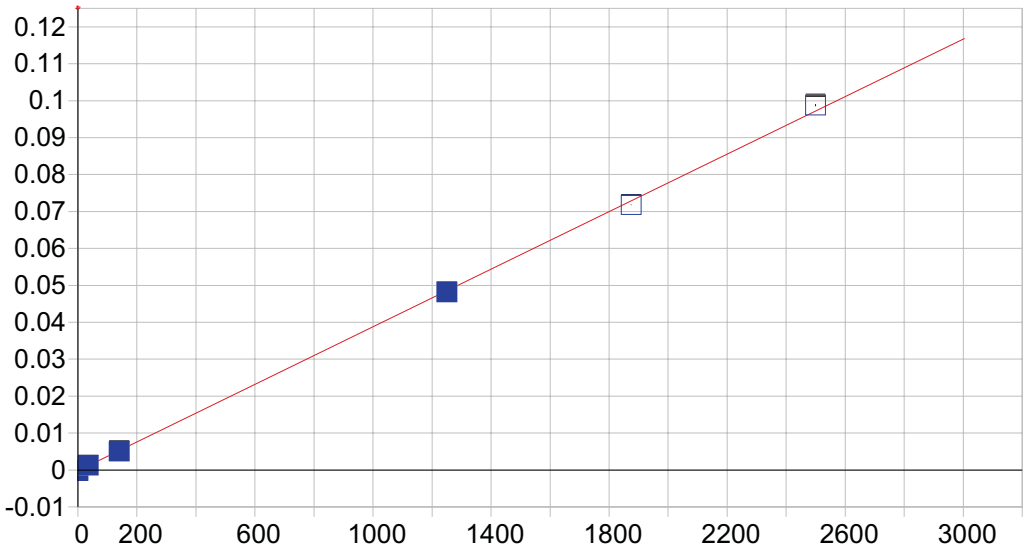
Sb 206.833 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000487	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999845	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	2.049779		
Predicted MQL:	6.832597		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00291	.003	.000	-.00049	.000	1
S01 ISM-520	60.000	59.956	-.044	-.074	.00246	.000	1
S02 ISM-521	240.00	231.64	-8.36	-3.49	.01095	.000	1
S03 ISM-538	2500.0	2438.1	-61.9	-2.48	.12864	.000	1
S04 ISM-523	3750.0	3719.2	-30.8	-.821	.19639	.000	1
S05 ISM-524	5000.0	5100.5	100.	2.01	.26899	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



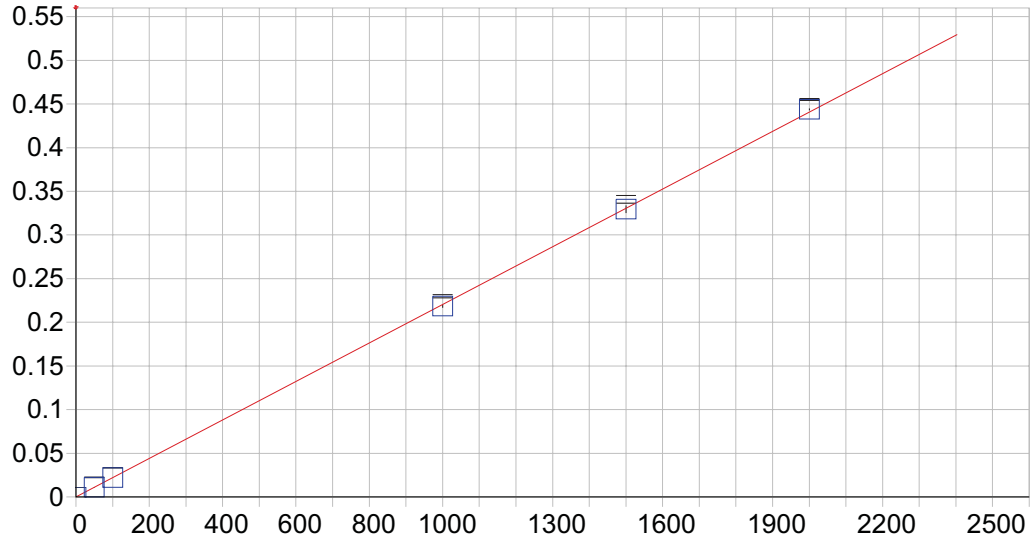
Se 196.090 {472}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000170	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	2.121056		
Predicted MQL:	7.070185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00034	.000	.000	-.00017	.000	1
S01 ISM-520	35.000	36.016	1.02	2.90	.00123	.000	1
S02 ISM-521	140.00	135.38	-4.62	-3.30	.00510	.000	1
S03 ISM-538	1250.0	1241.3	-8.70	-.696	.04819	.000	1
S04 ISM-523	1875.0	1847.8	-27.2	-1.45	.07181	.000	1
S05 ISM-524	2500.0	2539.5	39.5	1.58	.09875	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



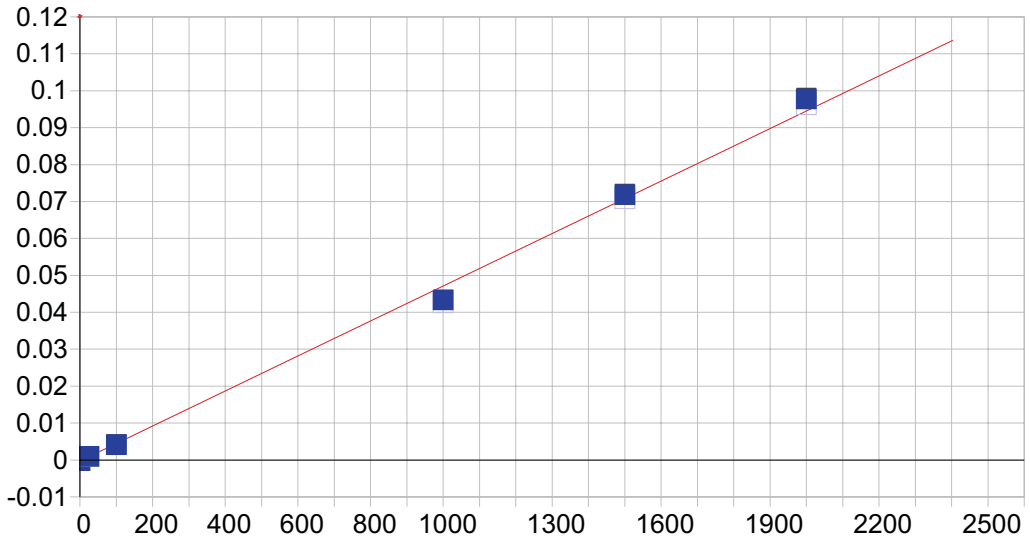
Ti 337.280 {100}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000104	Re-Slope:	1.000000
A1 (Gain):	0.000220	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.214352		
Predicted MQL:	0.714507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00066	.001	.000	.00010	.000	1
S01 ISM-520	50.000	49.920	-.080	-.161	.01110	.000	1
S02 ISM-521	100.00	99.346	-.654	-.654	.02199	.000	1
S03 ISM-538	1000.0	990.57	-9.43	-.943	.21829	.002	1
S04 ISM-523	1500.0	1495.6	-4.35	-.290	.32954	.004	1
S05 ISM-524	2000.0	2014.5	14.5	.726	.44382	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



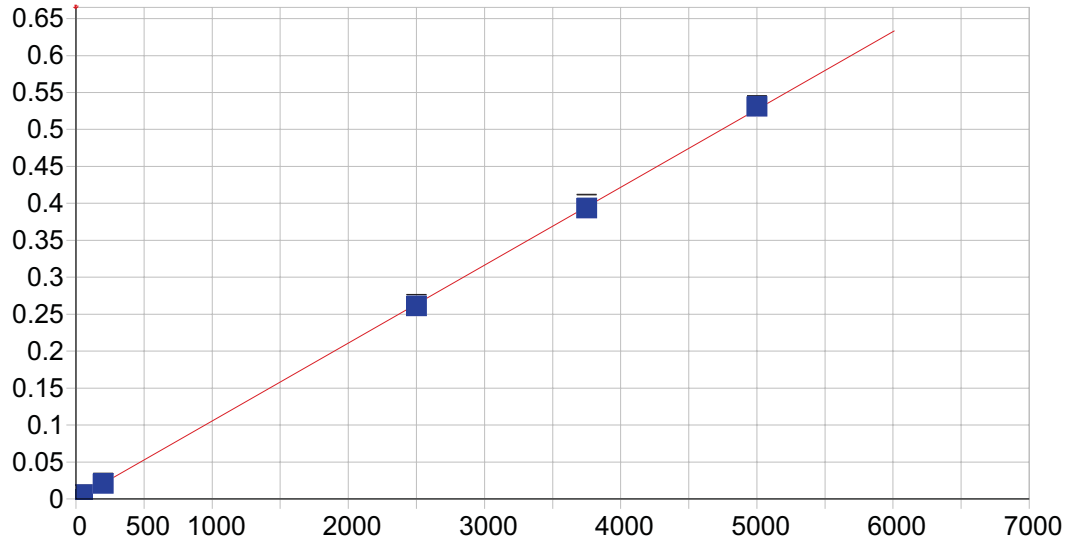
Tl 190.856 {477}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000275	Re-Slope:	1.000000
A1 (Gain):	0.000047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998929	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	1.321381		
Predicted MQL:	4.404603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00253	.003	.000	-.00028	.000	1
S01 ISM-520	25.000	25.171	.171	.685	.00090	.000	1
S02 ISM-521	100.00	92.517	-7.48	-7.48	.00402	.000	1
S03 ISM-538	1000.0	919.37	-80.6	-8.06	.04255	.000	1
S04 ISM-523	1500.0	1520.6	20.6	1.37	.07067	.000	1
S05 ISM-524	2000.0	2067.3	67.3	3.37	.09620	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



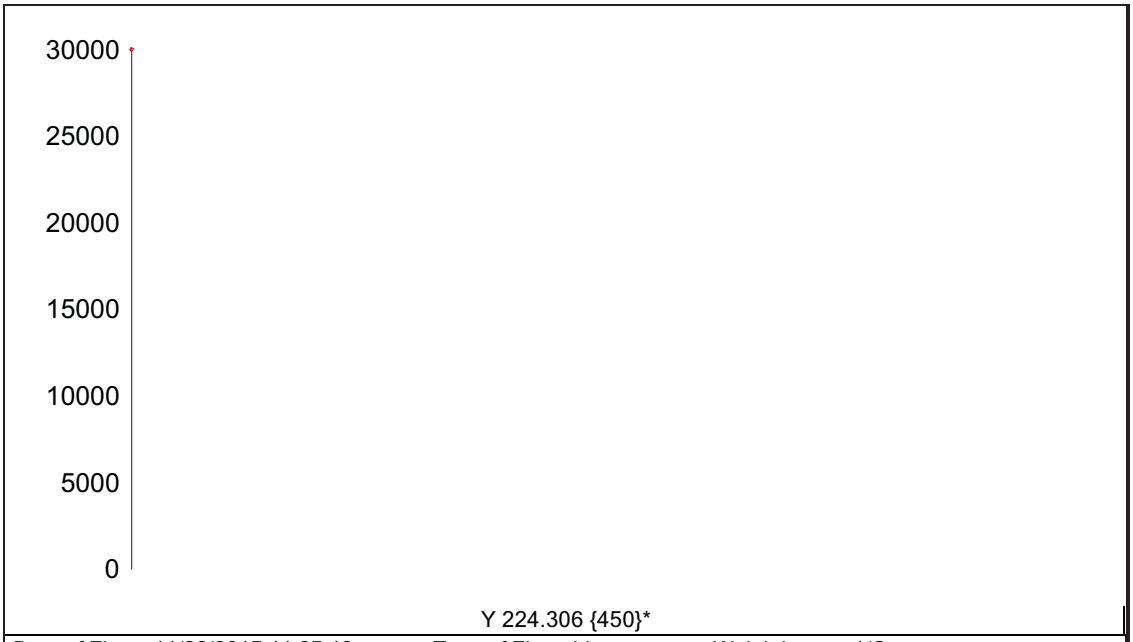
V 292.402 {115}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear
Weighting:	1/Conc		

A0 (Offset):	0.000072	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.337166		
Predicted MQL:	1.123886		

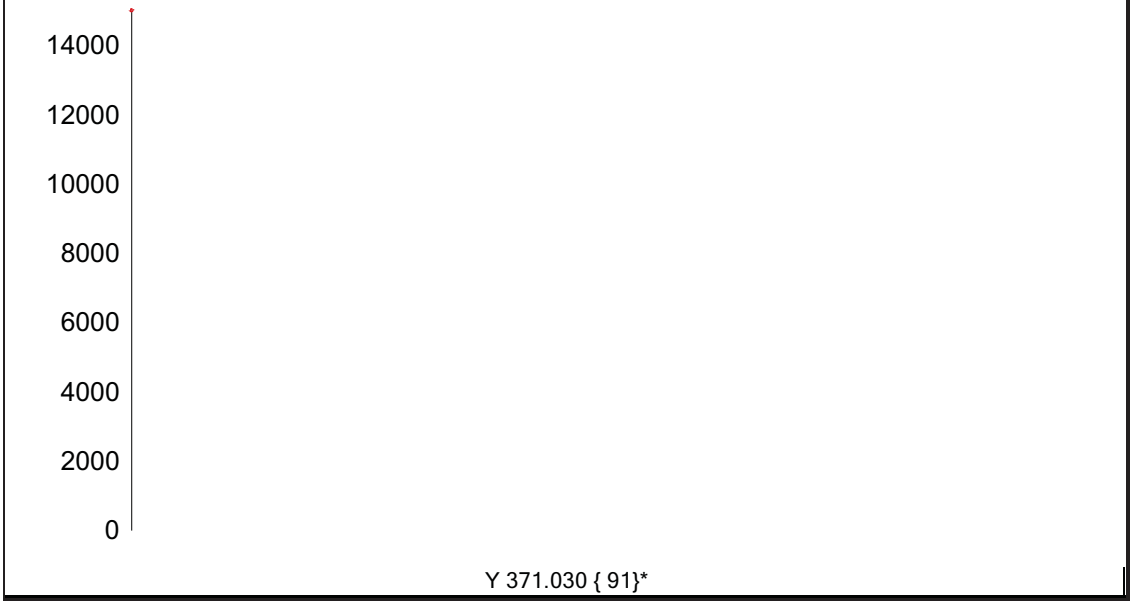
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.00007	.000	1
S01 ISM-520	50.000	50.886	.886	1.77	.00542	.000	1
S02 ISM-521	200.00	198.45	-1.55	-.775	.02095	.000	1
S03 ISM-538	2500.0	2477.4	-22.6	-.903	.26083	.002	1
S04 ISM-523	3750.0	3733.0	-17.0	-.452	.39298	.005	1
S05 ISM-524	5000.0	5040.2	40.2	.804	.53058	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

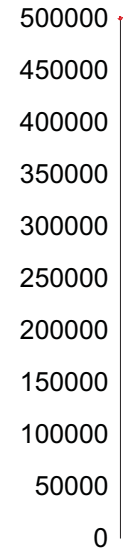
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	28348.	132.	1



PDF created with pdfFactory trial version www.pdffactory.com

Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	13646.	204.	1

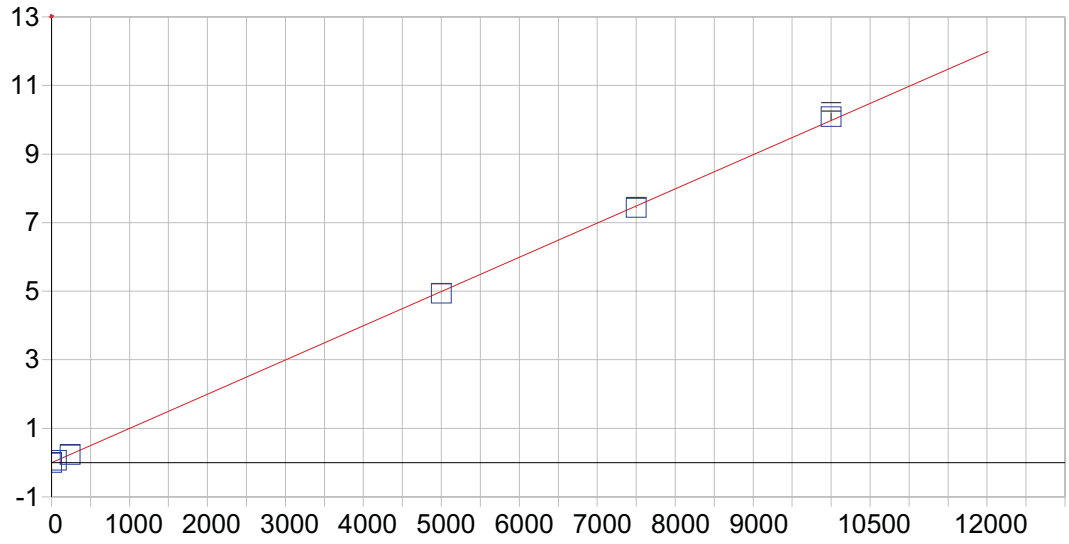


Y 371.030 { 91}2*

Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	410170.	6630.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear
Weighting:	1/Conc		

A0 (Offset):	-0.000340	Re-Slope:	1.000000
A1 (Gain):	0.000998	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000441		
Predicted MDL:	0.103235		
Predicted MQL:	0.344117		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00125	.001	.000	-.00034	.000	1
S01 ISM-520	60.000	60.510	.510	.850	.06005	.000	1
S02 ISM-521	240.00	234.55	-5.45	-2.27	.23373	.001	1
S03 ISM-538	5000.0	4944.7	-55.3	-1.11	4.9344	.006	1
S04 ISM-523	7500.0	7453.5	-46.5	-.619	7.4382	.011	1
S05 ISM-524	10000.	10107.	107.	1.07	10.086	.122	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00004	.00317	-.00017	-.00117	.00086	.00656	-.0005
Stddev	.00004	.00043	.00002	.00052	.00001	.00046	.0002
%RSD	98.848	13.566	14.151	44.431	1.6657	7.0726	53.15
#1	.00008	.00268	-.00015	-.00148	.00087	.00652	-.0006
#2	.00001	.00335	-.00018	-.00057	.00086	.00611	-.0006
#3	.00002	.00349	-.00019	-.00146	.00085	.00704	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00046	.00018	-.00014	.00066	-.0058	-.0002	.00000
Stddev	.00019	.00003	.00003	.00027	.0020	.0004	.00002
%RSD	41.427	14.583	22.318	40.929	33.71	226.3	500.00
#1	.00064	.00015	-.00017	.00066	-.0058	-.0005	.00002
#2	.00047	.00019	-.00015	.00093	-.0039	-.0003	-.00001
#3	.00026	.00019	-.00011	.00039	-.0078	.0003	-.00001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00065	.01194	-.00062	-.00019	-.00049	-.00017	.0001
Stddev	.00007	.00050	.00026	.00015	.00003	.00003	.0000
%RSD	11.358	4.1814	41.737	79.998	7.0730	15.451	32.11
#1	.00056	.01177	-.00035	-.00035	-.00050	-.00015	.0001
#2	.00069	.01155	-.00063	-.00006	-.00051	-.00020	.0001
#3	.00069	.01250	-.00086	-.00015	-.00045	-.00016	.0001

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00028	.00007	-.00034
Stddev	.00000	.00001	.00002
%RSD	1.1533	19.900	5.8315
#1	-.00028	.00009	-.00033
#2	-.00027	.00007	-.00033
#3	-.00028	.00006	-.00036

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28348.	13646.	410170.
Stddev	132.	204.	6625.
%RSD	.46535	1.4975	1.6153
#1	28453.	13563.	413230.
#2	28392.	13878.	402570.
#3	28200.	13496.	414710.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00085	.00467	.00045	.42399	.01183	.49988	.0066
Stddev	.00005	.00039	.00007	.01566	.00038	.01856	.0003
%RSD	5.4475	8.4113	15.023	3.6941	3.1776	3.7126	4.434
#1	.00088	.00481	.00041	.41253	.01217	.48620	.0070
#2	.00087	.00422	.00041	.44183	.01189	.52101	.0065
#3	.00080	.00497	.00053	.41759	.01142	.49244	.0064

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04391	.00094	.00129	.00376	.1249	.0508	.00665
Stddev	.00019	.00004	.00004	.00045	.0048	.0020	.00024
%RSD	.43025	4.0228	2.9368	11.996	3.866	3.904	3.5461
#1	.04398	.00098	.00132	.00385	.1211	.0496	.00689
#2	.04370	.00093	.00131	.00416	.1303	.0531	.00664
#3	.04406	.00090	.00125	.00327	.1232	.0496	.00642

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01554	.29668	.02110	.00127	.00246	.00123	.0111
Stddev	.00007	.00993	.00013	.00012	.00012	.00006	.0004
%RSD	.47234	3.3455	.60987	9.4894	4.9501	5.1628	3.188
#1	.01562	.29003	.02121	.00132	.00259	.00118	.0115
#2	.01552	.30809	.02096	.00113	.00246	.00122	.0110
#3	.01547	.29191	.02114	.00136	.00234	.00130	.0108

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00090	.00542	.06005
Stddev	.00002	.00018	.00019
%RSD	1.7608	3.2817	.31357
#1	.00088	.00559	.06005
#2	.00091	.00542	.05986
#3	.00091	.00523	.06024

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28146.	13832.	408840.
Stddev	144.	543.	15544.
%RSD	.51307	3.9241	3.8021
#1	28028.	14343.	393320.
#2	28307.	13263.	408790.
#3	28104.	13891.	424410.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00326	.01027	.00223	1.6219	.04429	1.8853	.0274
Stddev	.00003	.00018	.00008	.0024	.00016	.0054	.0002
%RSD	1.0130	1.7562	3.4282	.14463	.37103	.28590	.8792
#1	.00327	.01021	.00227	1.6199	.04420	1.8801	.0276
#2	.00328	.01047	.00214	1.6245	.04448	1.8851	.0271
#3	.00322	.01012	.00227	1.6213	.04419	1.8908	.0275

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16620	.00310	.00541	.01181	.4913	.1927	.02544
Stddev	.00044	.00002	.00001	.00005	.0016	.0009	.00011
%RSD	.26684	.48665	.26811	.42069	.3159	.4485	.41548
#1	.16582	.00311	.00540	.01175	.4931	.1925	.02540
#2	.16608	.00311	.00541	.01184	.4905	.1919	.02557
#3	.16668	.00308	.00543	.01184	.4903	.1936	.02537

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03020	1.0786	.08267	.00475	.01095	.00510	.0220
Stddev	.00003	.0003	.00012	.00004	.00019	.00004	.0001
%RSD	.11312	.02825	.15116	.90971	1.6954	.69628	.2476
#1	.03020	1.0786	.08252	.00474	.01074	.00514	.0220
#2	.03024	1.0783	.08274	.00479	.01111	.00509	.0220
#3	.03017	1.0789	.08274	.00471	.01098	.00508	.0219

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00402	.02095	.23373
Stddev	.00006	.00009	.00066
%RSD	1.4581	.40603	.28239
#1	.00398	.02092	.23311
#2	.00400	.02105	.23367
#3	.00409	.02088	.23442

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27527.	13810.	393920.
Stddev	73.	103.	1791.
%RSD	.26560	.74901	.45456
#1	27473.	13814.	392370.
#2	27498.	13912.	393490.
#3	27610.	13705.	395880.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06067	.41909	.15263	20.771	2.1884	4.7239	1.504
Stddev	.00047	.00237	.00026	.643	.0310	.0337	.002
%RSD	.77039	.56531	.16940	3.0951	1.4166	.71320	.1123
#1	.06029	.41656	.15247	20.572	2.1735	4.6865	1.504
#2	.06119	.41947	.15249	20.251	2.2241	4.7336	1.502
#3	.06053	.42125	.15293	21.490	2.1677	4.7518	1.505

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.2234	.72199	.69350	.70548	.9335	.4848	2.0549
Stddev	.0055	.00611	.01280	.00428	.0046	.0032	.0334
%RSD	.12997	.84633	1.8459	.60623	.4959	.6601	1.6241
#1	4.2253	.71681	.69849	.70055	.9294	.4812	2.0369
#2	4.2172	.72873	.70305	.70766	.9326	.4861	2.0934
#3	4.2277	.72042	.67895	.70823	.9385	.4872	2.0344

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30496	2.2221	2.6417	1.2970	.12864	.04819	.2183
Stddev	.00062	.0127	.0042	.0012	.00015	.00004	.0018
%RSD	.20413	.57326	.16008	.09200	.11912	.09068	.8286
#1	.30517	2.2078	2.6451	1.2974	.12863	.04820	.2168
#2	.30426	2.2265	2.6370	1.2957	.12849	.04814	.2203
#3	.30545	2.2321	2.6430	1.2980	.12880	.04823	.2177

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04255	.26083	4.9344
Stddev	.00003	.00203	.0056
%RSD	.08092	.77811	.11327
#1	.04258	.25933	4.9366
#2	.04252	.26314	4.9280
#3	.04254	.26001	4.9385

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26224.	13550.	386950.
Stddev	10.	173.	2153.
%RSD	.03923	1.2753	.55651
#1	26217.	13634.	388670.
#2	26218.	13665.	384530.
#3	26235.	13351.	387640.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09252	.22633	30.661	3.1849	2.282	6.6253	1.0757
Stddev	.00111	.00024	.129	.0211	.004	.0110	.0087
%RSD	1.1983	.10615	.42072	.66207	.1765	.16521	.81272
#1	.09140	.22618	30.729	3.1987	2.281	6.6230	1.0703
#2	.09362	.22620	30.512	3.1954	2.279	6.6157	1.0858
#3	.09253	.22661	30.742	3.1606	2.287	6.6372	1.0711

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0869	3.1103	.46257	4.1423	2.0758	.19639	.07181
Stddev	.0119	.0354	.00062	.0078	.0053	.00021	.00011
%RSD	1.0955	1.1392	.13312	.18886	.25567	.10581	.15522
#1	1.0775	3.0760	.46214	4.1410	2.0761	.19638	.07174
#2	1.0830	3.1467	.46230	4.1351	2.0704	.19618	.07174
#3	1.1003	3.1081	.46328	4.1506	2.0810	.19660	.07194

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3295	.07067	.39298	7.4382
Stddev	.0044	.00021	.00513	.0108
%RSD	1.330	.30389	1.3057	.14513
#1	.3251	.07061	.38772	7.4360
#2	.3339	.07049	.39797	7.4288
#3	.3296	.07090	.39327	7.4500

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27032.	13844.	405350.
Stddev	86.	70.	2462.
%RSD	.31984	.50268	.60742
#1	27094.	13825.	408120.
#2	27070.	13921.	403430.
#3	26934.	13786.	404490.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12448	.31123	41.399	4.2975	3.134	9.0644	1.4552
Stddev	.00050	.00043	.683	.0607	.004	.0112	.0139
%RSD	.40063	.13687	1.6492	1.4128	.1397	.12385	.95591
#1	.12500	.31133	40.685	4.3653	3.131	9.0596	1.4593
#2	.12445	.31077	42.046	4.2481	3.133	9.0564	1.4667
#3	.12401	.31160	41.467	4.2791	3.139	9.0773	1.4398

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4535	4.1979	.63363	5.6636	2.8384	.26899	.09875
Stddev	.0271	.0461	.00116	.0099	.0053	.00032	.00030
%RSD	1.8672	1.0973	.18358	.17555	.18803	.12003	.30111
#1	1.4445	4.2490	.63324	5.6597	2.8340	.26887	.09862
#2	1.4839	4.1851	.63271	5.6562	2.8369	.26875	.09855
#3	1.4319	4.1595	.63494	5.6749	2.8444	.26936	.09909

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4438	.09620	.53058	10.086
Stddev	.0011	.00028	.00112	.122
%RSD	.2560	.29401	.21131	1.2069
#1	.4449	.09604	.53168	10.020
#2	.4440	.09604	.53061	10.227
#3	.4426	.09653	.52944	10.012

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26488.	14077.	405690.
Stddev	39.	35.	4261.
%RSD	.14737	.25151	1.0502
#1	26520.	14040.	401410.
#2	26499.	14111.	405730.
#3	26444.	14078.	409930.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S06 ISM-463 Acquired: 11/21/2015 14:18:46 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2196	13.858	2.0623	2.695	1.422	6.4279
Stddev	.0018	.005	.0007	.012	.003	.0160
%RSD	.15124	.03811	.03431	.4600	.2038	.24847
#1	1.2215	13.864	2.0626	2.707	1.422	6.4460
#2	1.2178	13.853	2.0629	2.695	1.419	6.4218
#3	1.2195	13.858	2.0615	2.682	1.425	6.4158

Int. Std.	Y_3710
Units	Cts/S
Avg	13621.
Stddev	138.
%RSD	1.0151
#1	13642.
#2	13748.
#3	13473.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S07 ISM-464 Acquired: 11/21/2015 14:23:30 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3970	26.544	4.0307	2.772
Stddev	.0024	.171	.0023	.003
%RSD	.09810	.64515	.05671	.1211
#1	2.3962	26.363	4.0300	2.772
#2	2.3951	26.703	4.0289	2.768
#3	2.3996	26.567	4.0333	2.775

Int. Std.	Y_3710
Units	Cts/S
Avg	13567.
Stddev	64.
%RSD	.47072
#1	13612.
#2	13494.
#3	13595.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S08 ISM-465 Acquired: 11/21/2015 14:28:19 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.344	3.2654
Stddev	.018	.0466
%RSD	1.345	1.4280
#1	1.358	3.3109
#2	1.323	3.2177
#3	1.350	3.2676

Int. Std.	Y_3710
Units	Cts/S
Avg	13506.
Stddev	264.
%RSD	1.9550
#1	13532.
#2	13756.
#3	13230.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S09 ISM-456 Acquired: 11/21/2015 14:33:01 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	7.9724
Stddev	.0220
%RSD	.27596
#1	7.9497
#2	7.9740
#3	7.9936
Int. Std.	Y_3710
Units	Cts/S
Avg	13868.
Stddev	86.
%RSD	.62318
#1	13772.
#2	13941.
#3	13890.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S10 ISM-457 Acquired: 11/21/2015 14:37:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2579
Stddev	.0005
%RSD	.2071
#1	.2574
#2	.2585
#3	.2578

Int. Std.	Y_3710
Units	Cts/S
Avg	13755.
Stddev	59.
%RSD	.42739
#1	13693.
#2	13809.
#3	13764.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.75	2739.3	1002.3	511.16	498.52	10784.	480.4
Stddev	7.03	38.3	2.2	1.34	5.58	20.	1.5
%RSD	1.4007	1.3966	.21829	.26131	1.1194	.18687	.3223
#1	509.44	2742.5	999.88	512.33	504.88	10801.	479.4
#2	495.66	2699.5	1002.8	509.70	494.46	10762.	479.5
#3	500.15	2775.8	1004.2	511.45	496.21	10790.	482.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484.15	503.91	487.89	5349.8	10630.	6444.	517.44
Stddev	1.24	7.58	6.77	26.7	51.	31.	6.99
%RSD	.25515	1.5038	1.3885	.49841	.4824	.4748	1.3515
#1	483.69	511.33	495.17	5368.5	10620.	6414.	524.68
#2	483.21	496.18	481.77	5319.3	10580.	6475.	510.72
#3	485.55	504.22	486.73	5361.6	10680.	6443.	516.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.61358	11005.	487.56	936.74	979.82	986.83	-.0233
Stddev	.27007	35.	1.01	4.74	2.24	2.70	.2181
%RSD	44.015	.32001	.20724	.50560	.22900	.27341	936.9
#1	-.50171	11032.	486.85	934.66	977.47	985.26	.2182
#2	-.41742	11018.	487.11	933.40	980.03	985.28	-.2062
#3	-.92160	10965.	488.71	942.16	981.95	989.94	-.0818
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	989.44	503.51	1003.1
Stddev	5.25	7.21	2.3
%RSD	.53040	1.4326	.23184
#1	985.77	510.77	1001.7
#2	987.10	496.35	1001.9
#3	995.45	503.40	1005.8
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28108.	14028.	407660.
Stddev	166.	16.	5168.
%RSD	.59154	.11120	1.2678
#1	28133.	14044.	402200.
#2	28261.	14027.	412480.
#3	27931.	14013.	408300.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10648	7.6703	-1.0825	.08966	.02754	-4.2645	-.0708
Stddev	.27688	15.470	.4528	.43327	.01287	5.4224	.1259
%RSD	260.02	201.69	41.831	483.26	46.743	127.15	177.8
#1	.08547	25.386	-1.4646	-.41057	.04185	-7.0936	-.1460
#2	-.15929	-3.1743	-.58232	.34719	.02387	-7.6872	.0745
#3	.39327	.79970	-1.2007	.33235	.01690	1.9874	-.1409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02844	.01948	.55733	6.0915	135.9	30.12	.06922
Stddev	.10499	.25529	.64717	8.6382	19.0	20.34	.03115
%RSD	369.11	1310.7	116.12	141.81	14.00	67.55	44.993
#1	-.05352	.30819	.27456	1.2554	119.7	52.67	.06790
#2	.08681	-.17641	1.2978	.95467	131.1	24.53	.03876
#3	-.11862	-.07334	.09967	16.065	156.8	13.15	.10101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55075	39.513	-.02246	-.70028	2.9715	1.9712	.0347
Stddev	.04981	17.876	.23836	1.2756	2.9035	.8829	.1818
%RSD	9.0438	45.241	1061.4	182.15	97.710	44.791	524.3
#1	-.49498	40.685	.07749	-.66731	5.6406	1.1168	-.1747
#2	-.59082	21.080	.14966	.55849	-.12000	2.8801	.1268
#3	-.56644	56.775	-.29452	-1.9920	3.3939	1.9167	.1519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29359	.12194	.05101
Stddev	.52720	.15816	.02389
%RSD	179.57	129.71	46.828
#1	-.56249	.00758	.07803
#2	-.63212	.05579	.03273
#3	.31385	.30244	.04226
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28483.	14121.	408960.
Stddev	261.	77.	4353.
%RSD	.91756	.54196	1.0644
#1	28784.	14189.	407770.
#2	28319.	14135.	405330.
#3	28345.	14038.	413780.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19525	264620.	-4.1707	8.3771	.23681	263050.	1.167
Stddev	.56683	5040.	1.6759	.2051	.01504	6863.	.093
%RSD	290.31	1.9045	40.184	2.4485	6.3520	2.6091	7.954
#1	-.37831	266620.	-2.8400	8.5859	.23160	257150.	1.271
#2	.20896	258890.	-3.6192	8.1759	.25377	261410.	1.091
#3	.75511	268360.	-6.0529	8.3695	.22507	270580.	1.139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53063	60.031	-3.8674	104020.	409.5	271600.	18.315
Stddev	.14166	.996	.1144	1964.	27.5	5110.	.285
%RSD	26.697	1.6588	2.9587	1.8879	6.711	1.882	1.5555
#1	-.67777	58.884	-3.9631	104790.	412.8	273700.	17.999
#2	-.51894	60.674	-3.8985	101790.	380.5	265700.	18.550
#3	-.39517	60.535	-3.7407	105480.	435.2	275300.	18.397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4251	128.87	2.9545	-.41139	4.7530	-.42710	3.403
Stddev	.2255	13.03	.3119	1.3800	.9673	3.0907	.044
%RSD	15.824	10.109	10.555	335.44	20.351	723.64	1.281
#1	1.5993	120.38	3.3064	-.39133	4.6992	-3.2981	3.397
#2	1.1704	122.36	2.8447	.95846	3.8137	2.8442	3.449
#3	1.5055	143.87	2.7125	-1.8013	5.7460	-.82748	3.362
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.0452	1.7814	1.2077
Stddev	1.7445	.1025	.0959
%RSD	85.296	5.7534	7.9446
#1	-3.6397	1.8103	1.2311
#2	-2.3141	1.8662	1.2897
#3	-.18192	1.6675	1.1022
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26051.	13326.	363290.
Stddev	93.	279.	4818.
%RSD	.35581	2.0907	1.3262
#1	25966.	13135.	368850.
#2	26150.	13646.	360700.
#3	26037.	13197.	360320.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.30	266680.	97.272	537.75	546.05	262490.	1014.
Stddev	.63	1169.	1.082	3.23	5.76	2306.	4.
%RSD	.29566	.43845	1.1122	.60008	1.0539	.87848	.4411
#1	214.98	265480.	97.449	535.87	542.28	262890.	1009.
#2	214.21	266730.	98.255	535.89	552.68	260010.	1016.
#3	213.72	267820.	96.113	541.47	543.20	264570.	1018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	468.23	580.02	505.74	104600.	319.0	273200.	553.54
Stddev	1.77	1.60	1.27	458.	16.3	1597.	1.66
%RSD	.37708	.27571	.25017	.43811	5.113	.5846	.30031
#1	466.38	579.97	507.13	104080.	336.6	271400.	554.63
#2	468.42	581.64	505.42	104800.	304.4	274600.	554.37
#3	469.90	578.44	504.66	104930.	316.0	273500.	551.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3507	110.95	936.47	45.525	596.72	51.011	3.529
Stddev	.0914	9.89	3.12	.923	2.73	2.255	.155
%RSD	6.7687	8.9168	.33267	2.0265	.45685	4.4208	4.378
#1	1.2507	122.34	933.05	46.589	594.10	53.261	3.373
#2	1.3713	105.99	937.21	44.965	599.54	48.751	3.682
#3	1.4301	104.51	939.14	45.020	596.52	51.019	3.532
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	88.622	518.84	982.22
Stddev	.885	1.36	3.60
%RSD	.99817	.26270	.36690
#1	89.314	520.20	978.50
#2	87.625	518.85	982.45
#3	88.926	517.47	985.70
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25544.	13203.	361410.
Stddev	116.	49.	1737.
%RSD	.45552	.36854	.48054
#1	25645.	13152.	361350.
#2	25569.	13249.	359700.
#3	25416.	13208.	363180.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	758.73	51855.	2498.2	9980.3	1047.3	52342.	986.8
Stddev	24.80	61.	9.1	257.1	28.1	178.	1.9
%RSD	3.2688	.11851	.36542	2.5758	2.6861	.33932	.1910
#1	761.52	51835.	2494.2	10171.	1045.5	52545.	986.1
#2	782.02	51924.	2491.7	9688.1	1076.3	52264.	985.4
#3	732.66	51805.	2508.6	10081.	1020.1	52216.	988.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4815.6	10266.	12235.	26034.	38710.	52420.	5040.0
Stddev	9.1	339.	416.	92.	30.	133.	94.7
%RSD	.18977	3.2978	3.3969	.35305	.0781	.2536	1.8781
#1	4810.1	10311.	12245.	26138.	38730.	52550.	5046.9
#2	4810.6	10579.	12646.	26001.	38720.	52410.	5131.0
#3	4826.2	9906.8	11815.	25963.	38670.	52290.	4942.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	983.50	26488.	4795.3	9450.5	2448.7	1244.7	1017.
Stddev	1.80	29.	10.3	21.4	10.9	3.6	34.
%RSD	.18263	.10996	.21494	.22670	.44344	.28914	3.303
#1	982.55	26522.	4789.3	9433.2	2445.2	1244.2	1023.
#2	982.38	26473.	4789.5	9443.7	2440.0	1241.4	1047.
#3	985.57	26469.	4807.2	9474.5	2460.8	1248.6	980.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	933.61	2553.1	4972.3
Stddev	2.45	85.3	8.6
%RSD	.26259	3.3429	.17363
#1	932.55	2569.0	4967.0
#2	931.88	2629.3	4967.7
#3	936.42	2460.9	4982.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26168.	13413.	381100.
Stddev	32.	198.	12202.
%RSD	.12315	1.4785	3.2019
#1	26204.	13184.	381450.
#2	26158.	13534.	368720.
#3	26142.	13521.	393120.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34962	-38.798	-.45699	.24415	.03099	-5.0739	.0174
Stddev	.34737	26.841	.45074	.54986	.01002	3.5076	.0439
%RSD	99.355	69.180	98.634	225.21	32.323	69.129	251.9
#1	.09722	-35.493	-.19911	.77732	.04238	-6.4361	-.0151
#2	.74580	-13.763	-.19440	.27613	.02706	-7.6960	.0674
#3	.20585	-67.139	-.97745	-.32100	.02353	-1.0896	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00421	-.12927	.09324	10.065	105.3	21.52	.07466
Stddev	.08100	.32455	.05558	8.256	73.5	14.88	.02163
%RSD	1923.8	251.06	59.610	82.021	69.80	69.16	28.973
#1	-.00526	.24326	.13876	.75927	77.11	11.59	.05429
#2	.08953	-.28020	.03130	12.928	50.09	38.63	.09736
#3	-.07164	-.35086	.10965	16.508	188.8	14.34	.07232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15305	8.2105	.21575	-1.2861	1.1014	.91784	-.0609
Stddev	.17253	27.320	.13198	.5238	.7677	1.0882	.1893
%RSD	112.73	332.74	61.174	40.726	69.703	118.56	310.9
#1	-.03956	30.354	.20833	-1.8342	.21800	.91352	-.0860
#2	.20528	16.597	.08763	-.79056	1.6070	2.0081	-.2364
#3	.29343	-22.319	.35128	-1.2336	1.4793	-.16815	.1397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.61410	.02812	.11982
Stddev	.28786	.03614	.03411
%RSD	46.875	128.52	28.463
#1	.74618	.05990	.15746
#2	.28391	.03565	.11104
#3	.81222	-.01119	.09097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28617.	13956.	404240.
Stddev	152.	576.	6778.
%RSD	.53066	4.1247	1.6768
#1	28443.	13758.	397190.
#2	28719.	13506.	404810.
#3	28691.	14605.	410710.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41330	-25.878	-.12370	.72306	.01748	-60.167	-.1098
Stddev	.38852	31.110	1.1307	.16300	.00904	3.806	.1616
%RSD	94.004	120.22	914.02	22.544	51.690	6.3256	147.2
#1	.52184	3.0522	1.0630	.56489	.01393	-58.405	.0247
#2	.73601	-21.900	-1.1884	.89050	.02775	-57.561	-.2891
#3	-.01795	-58.786	-.24573	.71378	.01076	-64.534	-.0650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16354	-.26254	.15540	8.1662	-20.92	13.45	.16716
Stddev	.14039	.07516	.60333	15.831	20.57	3.87	.05580
%RSD	85.846	28.628	388.24	193.85	98.31	28.77	33.384
#1	.13399	-.22684	-.39632	26.416	-13.00	9.495	.20801
#2	.31636	-.21188	.79964	-1.8625	-5.493	13.62	.10357
#3	.04027	-.34889	.06288	-.05479	-44.27	17.23	.18989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49469	-35.411	.06511	-.96039	.80194	1.9879	-.0118
Stddev	.26616	13.640	.15859	1.2852	.84152	1.7473	.0926
%RSD	53.804	38.519	243.59	133.82	104.94	87.895	782.9
#1	-.33994	-23.166	.14418	-.33077	.31992	1.3449	-.1144
#2	-.80203	-32.954	.16861	-.11142	.31226	3.9656	.0654
#3	-.34211	-50.112	-.11747	-2.4390	1.7736	.65326	.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.62619	-.12815	.32771
Stddev	1.3529	.23726	.06290
%RSD	216.05	185.14	19.194
#1	1.7234	.04321	.26377
#2	1.0406	-.39896	.32986
#3	-.88543	-.02872	.38951
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29662.	14298.	422490.
Stddev	126.	106.	1364.
%RSD	.42424	.73915	.32287
#1	29656.	14196.	424030.
#2	29540.	14407.	421970.
#3	29791.	14291.	421460.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.428	385.58	21.268	389.22	10.016	10340.	9.172
Stddev	.527	26.38	.410	2.98	.220	90.	.148
%RSD	2.5788	6.8414	1.9255	.76491	2.2002	.87069	1.619
#1	19.907	356.72	21.505	385.79	9.8358	10236.	9.343
#2	20.961	391.58	21.504	391.16	10.262	10392.	9.074
#3	20.417	408.44	20.795	390.70	9.9513	10392.	9.099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.729	20.190	47.367	219.64	10240.	10490.	30.876
Stddev	.139	.166	.720	5.55	56.	23.	.673
%RSD	.14712	.82358	1.5196	2.5279	.5481	.2221	2.1809
#1	94.879	20.002	46.853	213.44	10180.	10460.	30.288
#2	94.603	20.320	48.190	221.35	10260.	10500.	31.611
#3	94.704	20.247	47.059	224.14	10290.	10500.	30.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54793	10742.	75.300	17.304	120.16	71.296	.1423
Stddev	.22495	69.	.338	1.134	1.48	1.145	.2021
%RSD	41.055	.64563	.44881	6.5531	1.2318	1.6059	142.1
#1	-.37284	10665.	75.685	16.628	121.21	72.590	-.0330
#2	-.80164	10762.	75.166	18.613	118.47	70.417	.0965
#3	-.46932	10799.	75.050	16.670	120.80	70.880	.3634
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.550	97.747	117.52
Stddev	.430	2.563	.21
%RSD	.86765	2.6220	.17918
#1	49.557	95.422	117.76
#2	49.116	100.50	117.41
#3	49.976	97.324	117.38
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28768.	14306.	412360.
Stddev	87.	70.	7061.
%RSD	.30087	.48634	1.7123
#1	28681.	14355.	418120.
#2	28767.	14337.	404490.
#3	28854.	14227.	414480.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17276	89.939	.16119	16.904	.08930	45200.	-.0561
Stddev	.15793	54.658	.83200	.380	.01221	231.	.1355
%RSD	91.416	60.772	516.16	2.2472	13.673	.51018	241.3
#1	.26932	30.047	-.52149	16.480	.08300	44936.	-.0816
#2	.25846	102.65	1.0879	17.021	.08153	45299.	.0903
#3	-.00949	137.12	-.08286	17.212	.10337	45364.	-.1771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08492	.32499	.43099	232.50	1971.	12300.	67.656
Stddev	.15727	.17902	.42077	8.04	45.	98.	1.158
%RSD	185.20	55.085	97.628	3.4598	2.305	.8003	1.7123
#1	.09746	.41352	.91252	241.78	1919.	12200.	68.930
#2	.23554	.44250	.24628	228.20	2004.	12390.	67.369
#3	-.07824	.11895	.13417	227.52	1989.	12320.	66.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36204	36576.	.01460	.37891	2.1117	3.3380	.4186
Stddev	.16909	116.	.12162	.94583	.1047	2.3545	.0467
%RSD	46.705	.31600	832.78	249.62	4.9572	70.538	11.15
#1	-.43740	36474.	-.02829	.48276	2.0146	2.4871	.3821
#2	-.16837	36554.	.15186	-.61456	2.0978	1.5271	.4024
#3	-.48035	36702.	-.07976	1.2685	2.2226	5.9997	.4712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3316	-.05117	3.6436
Stddev	1.5050	.09580	.0410
%RSD	113.02	187.22	1.1257
#1	-.13611	-.04563	3.6791
#2	2.8713	.04174	3.5987
#3	1.2596	-.14962	3.6531
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27867.	13942.	400180.
Stddev	141.	204.	6315.
%RSD	.50503	1.4656	1.5781
#1	27946.	14150.	394590.
#2	27951.	13934.	398930.
#3	27705.	13742.	407030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.303%	102.17%	97.565%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47375	13.931	.88298	3.6443	.04041	9021.3	-.1066
Stddev	.34170	16.405	.24722	.5044	.01736	42.8	.1175
%RSD	72.126	117.76	27.999	13.841	42.967	.47469	110.3
#1	.41440	-4.6453	1.1157	4.0339	.03109	8975.5	.0126
#2	.16562	26.432	.62346	3.0746	.06044	9028.1	-.1100
#3	.84124	20.007	.90975	3.8245	.02969	9060.4	-.2223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05146	-.01142	-.04047	49.584	484.1	2477.	13.955
Stddev	.08241	.24337	.81040	8.786	46.7	35.	.644
%RSD	160.15	2130.4	2002.4	17.720	9.648	1.401	4.6177
#1	-.14512	.20217	.26718	52.452	485.4	2450.	13.522
#2	-.01918	.03993	.57105	56.578	530.1	2464.	14.696
#3	.00992	-.27638	-.95965	39.722	436.7	2516.	13.648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44157	7470.5	.14624	-.80614	1.6391	2.1090	.0692
Stddev	.23225	43.5	.19103	.89581	.6770	.7835	.0102
%RSD	52.596	.58276	130.63	111.12	41.302	37.150	14.79
#1	-.28993	7448.2	.19069	-1.0033	.86435	1.2529	.0608
#2	-.32583	7442.6	-.06310	.17185	1.9364	2.2836	.0806
#3	-.70894	7520.7	.31113	-1.5869	2.1166	2.7904	.0662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.11474	-.01160	.71736
Stddev	1.3851	.27494	.05823
%RSD	1207.2	2370.5	8.1169
#1	-.98682	-.01160	.65857
#2	1.4824	.26334	.71851
#3	-.83981	-.28653	.77501
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28789.	14072.	399740.
Stddev	293.	80.	16563.
%RSD	1.0178	.56573	4.1435
#1	28908.	13992.	408510.
#2	29004.	14151.	380640.
#3	28455.	14071.	410080.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.55%	103.12%	97.457%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23288	73.482	.34242	16.425	.09612	45289.	-.0943
Stddev	.17681	49.333	.16848	.871	.02002	183.	.0441
%RSD	75.922	67.136	49.203	5.3042	20.834	.40509	46.72
#1	.30457	61.826	.49521	15.723	.11916	45206.	-.0486
#2	.03149	31.021	.16173	16.152	.08295	45499.	-.1365
#3	.36258	127.60	.37032	17.400	.08624	45161.	-.0980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07368	.40689	.46759	237.85	1991.	12330.	67.602
Stddev	.16206	.06593	.46293	10.20	89.	97.	.910
%RSD	219.94	16.204	99.005	4.2875	4.444	.7874	1.3454
#1	.00206	.40846	.24049	246.06	1996.	12250.	68.630
#2	-.04022	.34018	.16205	241.06	1901.	12430.	67.276
#3	.25921	.47202	1.0002	226.44	2078.	12300.	66.901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29425	36710.	.26640	-.19630	-.24008	1.1440	.6266
Stddev	.39059	136.	.19319	1.0136	.72987	.3342	.2659
%RSD	132.74	.37052	72.520	516.35	304.01	29.213	42.44
#1	-.74517	36739.	.42862	-1.1860	.36580	1.3932	.6818
#2	-.06134	36829.	.31790	.83962	-.03569	1.2746	.8605
#3	-.07622	36562.	.05267	-.24256	-1.0504	.76425	.3374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2450	.25567	2.0199
Stddev	.5423	.04502	.1648
%RSD	24.157	17.610	8.1577
#1	2.8706	.23216	2.1672
#2	1.9572	.22726	1.8419
#3	1.9073	.30758	2.0505
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28157.	14221.	402020.
Stddev	123.	138.	4366.
%RSD	.43643	.97173	1.0860
#1	28031.	14061.	397100.
#2	28277.	14309.	405440.
#3	28164.	14291.	403530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.325%	104.21%	98.013%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.836	2124.1	38.656	1918.0	49.766	42629.	46.47
Stddev	.436	47.8	.798	5.7	.897	155.	.01
%RSD	.87528	2.2489	2.0653	.29941	1.8023	.36468	.0240
#1	49.765	2069.1	38.876	1912.7	49.224	42619.	46.47
#2	50.303	2154.1	37.770	1917.2	50.802	42479.	46.47
#3	49.439	2149.3	39.321	1924.1	49.273	42789.	46.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	464.17	197.09	231.10	1224.1	1911.	11690.	561.75
Stddev	1.27	3.64	4.48	15.5	40.	53.	10.55
%RSD	.27364	1.8471	1.9402	1.2699	2.093	.4554	1.8777
#1	462.79	195.15	227.61	1227.5	1887.	11640.	556.06
#2	465.29	201.29	236.15	1207.1	1890.	11680.	573.92
#3	464.41	194.84	229.53	1237.6	1958.	11740.	555.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54866	34726.	461.37	17.694	97.992	99.266	.8313
Stddev	.08112	73.	1.16	.467	.167	2.420	.3032
%RSD	14.786	.21092	.25220	2.6414	.17022	2.4376	36.47
#1	-.45718	34677.	460.26	17.255	97.929	96.594	.5546
#2	-.57695	34691.	462.58	18.185	97.866	99.897	1.155
#3	-.61185	34810.	461.26	17.641	98.181	101.31	.7840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.725	485.24	484.19
Stddev	.281	8.78	.82
%RSD	.58869	1.8102	.16887
#1	47.820	479.94	483.36
#2	47.946	495.38	484.99
#3	47.408	480.40	484.21
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27806.	14056.	399390.
Stddev	79.	128.	8610.
%RSD	.28342	.90964	2.1559
#1	27741.	14165.	404250.
#2	27894.	14088.	389450.
#3	27783.	13916.	404480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.086%	103.01%	97.372%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.851	421.61	19.942	401.26	10.094	53633.	9.249
Stddev	.272	44.27	1.017	2.11	.065	188.	.157
%RSD	1.3692	10.501	5.1012	.52653	.63976	.34993	1.699
#1	20.110	418.76	20.988	398.86	10.148	53420.	9.091
#2	19.876	378.83	18.956	402.84	10.113	53773.	9.250
#3	19.568	467.24	19.882	402.08	10.023	53708.	9.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.204	20.329	45.780	428.77	12150.	22230.	94.973
Stddev	.471	.242	.575	12.78	55.	82.	.762
%RSD	.50027	1.1886	1.2553	2.9815	.4519	.3683	.80270
#1	93.729	20.307	45.834	420.81	12140.	22150.	95.366
#2	94.211	20.581	45.180	421.99	12100.	22310.	95.458
#3	94.672	20.099	46.326	443.51	12210.	22240.	94.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19971	45313.	75.229	19.630	116.34	71.284	.7124
Stddev	.24229	107.	.300	.392	.73	1.205	.0774
%RSD	121.32	.23554	.39912	1.9971	.62606	1.6901	10.87
#1	.07866	45198.	74.919	20.082	115.51	71.815	.6237
#2	-.36311	45332.	75.252	19.426	116.65	69.905	.7469
#3	-.31468	45409.	75.518	19.383	116.86	72.133	.7665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.453	97.914	120.78
Stddev	.803	.410	.24
%RSD	1.6920	.41868	.19957
#1	46.527	98.257	120.54
#2	47.879	98.025	120.78
#3	47.953	97.460	121.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27692.	14101.	398620.
Stddev	127.	155.	1995.
%RSD	.45692	1.0991	.50058
#1	27546.	14220.	398270.
#2	27766.	13926.	396820.
#3	27764.	14157.	400760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.685%	103.34%	97.183%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27841	67.705	1.0903	14.263	.09578	40874.	-.0454
Stddev	.50970	5.030	1.6083	.410	.02038	113.	.3197
%RSD	183.08	7.4287	147.51	2.8780	21.278	.27754	703.8
#1	.30678	61.956	.29138	14.612	.11931	40773.	-.0470
#2	-.51663	69.866	.03786	13.811	.08340	40852.	.2750
#3	-.62537	71.293	2.9415	14.365	.08465	40997.	-.3643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10603	.25885	.33168	193.78	2068.	11200.	53.732
Stddev	.06871	.43896	.12701	5.13	34.	49.	.533
%RSD	64.802	169.58	38.295	2.6459	1.627	.4351	.99242
#1	.15992	.11216	.46758	193.22	2076.	11180.	54.344
#2	.12951	-.08798	.31148	199.16	2097.	11160.	53.373
#3	.02866	.75237	.21597	188.95	2031.	11250.	53.477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.50638	31546.	.07280	1.9358	1.2583	1.2599	.2914
Stddev	.39172	56.	.10882	.1433	1.3429	2.7765	.1025
%RSD	77.358	.17800	149.48	7.4010	106.72	220.38	35.16
#1	-.89668	31499.	.19359	2.0105	1.4952	4.3462	.1990
#2	-.50922	31532.	.04240	1.7706	-.18725	-1.0349	.4016
#3	-.11324	31608.	-.01759	2.0263	2.4669	.46828	.2736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8399	.23555	1.8348
Stddev	.4154	.42973	.0272
%RSD	22.576	182.44	1.4813
#1	1.6948	.09960	1.8281
#2	2.3084	.71681	1.8116
#3	1.5166	-.10976	1.8647
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27909.	13736.	399460.
Stddev	100.	216.	3069.
%RSD	.35896	1.5734	.76834
#1	28011.	13985.	395940.
#2	27905.	13628.	400860.
#3	27811.	13596.	401580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.450%	100.66%	97.388%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47617	59.477	.70369	14.765	.08859	41909.	-.1209
Stddev	.34823	60.486	2.0400	.106	.01429	106.	.1014
%RSD	73.131	101.70	289.89	.71989	16.125	.25306	83.88
#1	.58843	-2.9114	2.9417	14.792	.08041	41786.	-.2237
#2	.75442	63.481	.22115	14.854	.10509	41968.	-.1179
#3	.08566	117.86	-1.0517	14.647	.08028	41972.	-.0210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04564	.09198	.09806	156.45	2145.	11490.	42.268
Stddev	.04757	.16040	.89344	12.05	22.	38.	.428
%RSD	104.24	174.38	911.10	7.7041	1.037	.3304	1.0135
#1	.00692	-.01033	-.09908	151.13	2124.	11490.	41.773
#2	-.08575	.27684	-.68034	147.98	2168.	11460.	42.523
#3	-.05808	.00944	1.0736	170.25	2143.	11530.	42.508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36283	31839.	.09097	1.1526	.28516	2.2042	.2150
Stddev	.14170	148.	.15227	1.0476	2.3280	.5900	.1995
%RSD	39.055	.46578	167.38	90.896	816.40	26.768	92.79
#1	-.19923	31674.	.26584	2.2524	2.7357	2.4716	.3518
#2	-.44194	31880.	-.01234	1.0388	-1.8972	2.6133	.3070
#3	-.44731	31962.	.01942	.16643	.01699	1.5278	-.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3344	.00893	1.5870
Stddev	1.5643	.30617	.1285
%RSD	117.22	3429.0	8.0952
#1	-.01532	.31346	1.6341
#2	.96980	-.29885	1.6853
#3	3.0489	.01217	1.4416
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27765.	13918.	399520.
Stddev	78.	62.	2495.
%RSD	.28040	.44268	.62454
#1	27805.	13988.	401990.
#2	27815.	13897.	397000.
#3	27675.	13870.	399570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.942%	102.00%	97.403%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24246	60.964	.57350	15.176	.11043	43026.	-.2111
Stddev	.45125	39.088	1.4079	.402	.01325	144.	.2472
%RSD	186.11	64.117	245.49	2.6489	11.995	.33403	117.1
#1	.68737	45.534	1.0820	14.769	.12566	42876.	-.0141
#2	-.21486	31.946	1.6565	15.573	.10396	43038.	-.4884
#3	.25486	105.41	-1.0180	15.184	.10166	43163.	-.1306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10148	.27644	-.11129	184.56	2220.	11720.	53.922
Stddev	.17469	.44430	.52789	12.57	95.	84.	.843
%RSD	172.14	160.72	474.35	6.8104	4.285	.7137	1.5637
#1	-.06025	-.07856	.37476	170.97	2171.	11650.	54.244
#2	.28675	.13320	-.03574	195.76	2159.	11810.	52.965
#3	.07794	.77469	-.67288	186.96	2330.	11690.	54.556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37406	32583.	.13166	.37503	1.0445	1.1698	.5414
Stddev	.04762	90.	.20526	1.7945	2.2272	1.0430	.2638
%RSD	12.730	.27760	155.90	478.50	213.22	89.166	48.72
#1	-.42510	32498.	-.00677	2.4356	1.1530	.71411	.8318
#2	-.33083	32573.	.03427	-.46607	3.2155	.43211	.4760
#3	-.36623	32678.	.36749	-.84444	-1.2348	2.3631	.3165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.98166	-.16302	1.7072
Stddev	1.4272	.22744	.0331
%RSD	145.38	139.52	1.9359
#1	-.12327	-.42551	1.7437
#2	.47527	-.03920	1.6987
#3	2.5930	-.02435	1.6793
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27629.	13904.	393210.
Stddev	131.	144.	3201.
%RSD	.47258	1.0350	.81418
#1	27623.	14066.	392230.
#2	27763.	13793.	396790.
#3	27502.	13852.	390620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.462%	101.89%	95.865%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-020 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38104	-6.1397	-.59888	.12867	.02585	-43.514	-.1528
Stddev	.08760	20.199	.26350	.28987	.01749	1.920	.0383
%RSD	22.991	328.98	44.000	225.28	67.666	4.4127	25.04
#1	-.32223	-28.962	-.31089	.41026	.04605	-45.315	-.1296
#2	-.48172	1.1068	-.65781	.14456	.01567	-41.494	-.1969
#3	-.33917	9.4359	-.82792	-.16881	.01584	-43.735	-.1318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19167	-.00882	.27047	26.353	-67.18	20.19	1.1845
Stddev	.14063	.10266	.33486	10.803	35.13	16.33	.0701
%RSD	73.370	1164.5	123.81	40.994	52.29	80.88	5.9200
#1	.30476	-.11101	.00658	31.669	-76.75	22.08	1.2576
#2	.23603	.09431	.15766	13.922	-28.26	35.48	1.1782
#3	.03421	-.00975	.64717	33.469	-96.53	2.995	1.1178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-020 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63893	.57055	.20317	.12791	1.9323	-.61824	-.0306
Stddev	.17799	9.6825	.13409	.80381	.8294	.71913	.1110
%RSD	27.857	1697.1	65.997	628.43	42.921	116.32	363.2
#1	-.80226	-7.5945	.35782	-.66895	2.3993	-1.2251	.0350
#2	-.44923	11.267	.11941	.93850	2.4229	.17605	-.1587
#3	-.66531	-1.9613	.13227	.11417	.97472	-.80567	.0320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0839	-.06625	1.1096
Stddev	.8006	.01558	.0265
%RSD	73.864	23.511	2.3904
#1	.19394	-.05576	1.1329
#2	1.3122	-.05883	1.0808
#3	1.7457	-.08414	1.1152
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-020 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28834.	14186.	419130.
Stddev	55.	53.	6762.
%RSD	.18917	.37575	1.6135
#1	28892.	14241.	411630.
#2	28785.	14181.	420970.
#3	28824.	14135.	424770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.71%	103.96%	102.18%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107.07	2739.3	1019.7	526.50	519.74	10753.	510.1
Stddev	1.26	25.4	5.7	.40	4.98	3.	2.8
%RSD	1.1803	.92841	.56038	.07504	.95880	.03086	.5545
#1	108.46	2762.7	1014.6	526.18	523.46	10750.	507.7
#2	106.76	2742.9	1025.9	526.94	521.68	10752.	513.2
#3	105.99	2712.3	1018.6	526.38	514.08	10757.	509.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.01	532.13	503.93	10666.	10550.	6542.	538.85
Stddev	2.86	4.99	4.29	28.	48.	36.	5.21
%RSD	.56925	.93743	.85149	.26668	.4532	.5575	.96661
#1	499.45	536.47	506.66	10640.	10500.	6509.	543.13
#2	505.09	533.23	506.15	10697.	10560.	6534.	540.37
#3	501.47	526.68	498.98	10662.	10600.	6581.	533.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65374	11124.	501.26	956.49	1016.6	1047.4	-.0235
Stddev	.21687	22.	2.98	4.97	8.0	5.7	.1714
%RSD	33.173	.19799	.59432	.51937	.78551	.54691	730.0
#1	-.87522	11120.	498.42	952.48	1008.9	1044.0	.0799
#2	-.44181	11147.	504.36	962.05	1024.8	1054.0	-.2214
#3	-.64419	11103.	500.99	954.95	1016.0	1044.3	.0710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1013.7	515.68	1012.4
Stddev	4.6	4.53	5.2
%RSD	.45048	.87865	.51031
#1	1009.8	519.27	1008.5
#2	1018.7	517.18	1018.2
#3	1012.5	510.59	1010.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28071.	13774.	403690.
Stddev	126.	122.	5594.
%RSD	.44784	.88725	1.3858
#1	28077.	13744.	398200.
#2	27943.	13908.	403490.
#3	28194.	13669.	409380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.023%	100.94%	98.419%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.703	530.59	195.08	103.11	102.16	2097.3	94.63
Stddev	.269	28.11	.28	2.32	1.08	58.4	.04
%RSD	1.2379	5.2981	.14199	2.2492	1.0579	2.7867	.0389
#1	21.397	498.43	195.10	100.44	102.58	2032.6	94.67
#2	21.898	542.89	195.34	104.28	100.93	2112.9	94.61
#3	21.816	550.46	194.79	104.61	102.97	2146.3	94.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.110	105.71	101.32	2088.6	2099.	1303.	107.50
Stddev	.071	.76	1.09	44.3	48.	4.	.90
%RSD	.07206	.71436	1.0791	2.1231	2.303	.3383	.83939
#1	99.180	105.67	102.48	2037.6	2056.	1297.	107.91
#2	99.037	104.98	100.31	2109.5	2091.	1306.	106.46
#3	99.114	106.49	101.17	2118.6	2151.	1305.	108.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63638	2255.7	99.013	189.29	194.87	196.37	.0148
Stddev	.14490	66.2	.093	1.04	.64	.69	.1039
%RSD	22.769	2.9370	.09381	.55064	.32745	.35119	702.7
#1	-.49204	2179.3	98.981	188.23	195.14	197.13	.1260
#2	-.78183	2297.0	98.941	189.34	195.32	196.18	-.0798
#3	-.63527	2290.8	99.118	190.31	194.14	195.79	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	202.08	101.15	196.73
Stddev	.27	.82	.27
%RSD	.13393	.80811	.13775
#1	202.30	101.40	196.67
#2	201.78	100.23	196.49
#3	202.18	101.80	197.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28517.	14091.	406530.
Stddev	149.	320.	2296.
%RSD	.52390	2.2675	.56489
#1	28480.	14432.	403910.
#2	28390.	14042.	407450.
#3	28682.	13799.	408220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.60%	103.26%	99.111%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117.48	2578.9	960.11	496.06	500.85	10114.	478.9
Stddev	1.20	60.2	3.98	.94	1.45	35.	.7
%RSD	1.0179	2.3357	.41464	.18859	.29033	.34251	.1525
#1	116.15	2549.4	963.58	496.13	499.87	10100.	479.7
#2	118.47	2539.1	955.77	495.09	502.52	10089.	478.3
#3	117.83	2648.2	960.99	496.96	500.17	10153.	478.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.60	505.89	476.51	10036.	9976.	6172.	512.30
Stddev	1.22	4.57	4.59	19.	99.	22.	5.22
%RSD	.25766	.90260	.96314	.19177	.9898	.3560	1.0194
#1	473.74	501.71	472.29	10045.	10070.	6159.	507.85
#2	471.32	510.76	481.40	10014.	9877.	6198.	518.05
#3	472.74	505.21	475.83	10049.	9978.	6160.	511.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.70720	10558.	471.92	898.67	956.77	987.68	-.0216
Stddev	.13687	73.	.95	3.95	2.27	1.71	.0691
%RSD	19.353	.69235	.20042	.43911	.23686	.17320	320.0
#1	-.55998	10537.	473.01	903.22	959.19	989.14	.0390
#2	-.73104	10498.	471.36	896.65	956.44	985.80	-.0969
#3	-.83057	10639.	471.38	896.15	954.69	988.11	-.0069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	957.02	490.12	950.22
Stddev	3.15	5.47	2.02
%RSD	.32898	1.1157	.21241
#1	957.29	485.38	952.26
#2	953.74	496.10	948.22
#3	960.02	488.89	950.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28642.	14172.	408610.
Stddev	91.	52.	1818.
%RSD	.31789	.36862	.44489
#1	28702.	14126.	410520.
#2	28687.	14161.	406900.
#3	28538.	14229.	408390.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	103.86%	99.618%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126.79	4753.2	1033.2	2501.1	557.02	10396.	547.1
Stddev	2.08	74.6	2.3	8.4	12.84	36.	.8
%RSD	1.6371	1.5689	.22273	.33669	2.3044	.35072	.1438
#1	129.18	4721.2	1030.6	2491.4	570.58	10355.	546.3
#2	125.46	4700.0	1034.7	2506.1	545.06	10412.	547.8
#3	125.73	4838.5	1034.5	2505.8	555.42	10422.	547.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	976.04	721.23	731.62	11356.	10270.	6331.	1039.8
Stddev	.64	11.52	12.16	38.	54.	81.	17.1
%RSD	.06525	1.5977	1.6618	.33686	.5230	1.283	1.6467
#1	975.77	734.43	745.62	11312.	10240.	6242.	1059.5
#2	976.77	713.20	723.62	11370.	10330.	6348.	1029.5
#3	975.59	716.05	725.64	11385.	10240.	6402.	1030.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.90097	10847.	968.86	947.61	1089.6	1117.4	-.0822
Stddev	.05756	22.	.60	2.00	1.3	1.9	.1666
%RSD	6.3888	.20245	.06237	.21072	.12110	.17231	202.7
#1	-.83527	10827.	968.16	945.59	1089.8	1115.6	-.2719
#2	-.92507	10843.	969.26	949.58	1090.9	1119.4	-.0148
#3	-.94256	10870.	969.14	947.67	1088.3	1117.2	.0402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1038.2	1002.5	1482.8
Stddev	2.7	16.2	.9
%RSD	.26078	1.6146	.06164
#1	1039.5	1021.2	1483.6
#2	1039.9	992.44	1483.0
#3	1035.0	993.98	1481.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28744.	14148.	413700.
Stddev	76.	142.	7141.
%RSD	.26341	1.0018	1.7261
#1	28656.	14309.	405450.
#2	28792.	14042.	418010.
#3	28782.	14092.	417630.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.39%	103.68%	100.86%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121.42	3049.3	1009.4	903.57	524.48	20880.	499.2
Stddev	1.09	22.1	1.6	1.62	3.47	22.	.7
%RSD	.89629	.72445	.16006	.17948	.66181	.10321	.1317
#1	120.68	3032.4	1007.5	903.66	522.12	20880.	499.6
#2	120.90	3041.2	1010.4	901.90	522.86	20858.	498.5
#3	122.67	3074.3	1010.1	905.14	528.47	20901.	499.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	576.38	533.94	530.40	10404.	20560.	16920.	549.89
Stddev	.66	4.47	3.97	34.	56.	73.	4.94
%RSD	.11442	.83759	.74938	.32331	.2738	.4292	.89905
#1	577.12	528.83	525.84	10366.	20590.	16980.	544.26
#2	575.86	535.80	533.17	10417.	20490.	16840.	551.90
#3	576.16	537.17	532.18	10429.	20580.	16950.	553.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.87357	21424.	556.21	924.29	1097.7	1082.2	.1987
Stddev	.23116	10.	.56	1.71	.6	.9	.0517
%RSD	26.461	.04526	.10075	.18475	.05507	.08327	25.99
#1	-1.1402	21413.	556.15	925.79	1097.3	1082.4	.2276
#2	-.75009	21426.	555.68	924.66	1098.4	1083.0	.1391
#3	-.73037	21432.	556.80	922.43	1097.3	1081.3	.2295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1004.9	602.79	1092.9
Stddev	4.6	5.52	.9
%RSD	.45779	.91578	.08660
#1	1009.7	596.41	1094.0
#2	1004.6	605.90	1092.3
#3	1000.5	606.05	1092.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28610.	14256.	409520.
Stddev	57.	187.	3251.
%RSD	.19751	1.3113	.79380
#1	28570.	14087.	413260.
#2	28585.	14223.	407890.
#3	28675.	14457.	407410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.92%	104.47%	99.841%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62628	-12.951	2.2858	.39854	.04970	-31.541	-.1924
Stddev	.31606	31.055	1.0208	.40946	.01575	4.576	.0435
%RSD	50.467	239.80	44.658	102.74	31.694	14.508	22.60
#1	.26208	18.310	3.2619	.86029	.03333	-36.530	-.1750
#2	.78792	-13.366	1.2256	.25565	.05102	-30.554	-.1604
#3	.82882	-43.796	2.3697	.07967	.06475	-27.539	-.2419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01075	.94002	.13397	58.281	4.974	21.56	1.6130
Stddev	.04497	.13136	.09941	7.483	43.90	18.60	.0368
%RSD	418.38	13.974	74.208	12.840	882.7	86.30	2.2799
#1	.05460	.99086	.20737	66.576	15.66	37.61	1.6321
#2	.01291	1.0384	.02083	56.230	42.55	1.171	1.6362
#3	-.03526	.79084	.17371	52.037	-43.28	25.89	1.5706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64156	26.855	1.1702	.75154	1.5581	1.9316	.4377
Stddev	.11019	10.198	.2632	1.2090	1.2419	1.1702	.1011
%RSD	17.175	37.975	22.494	160.87	79.709	60.579	23.09
#1	-.76815	32.482	1.1311	-.42880	1.1261	.90228	.5293
#2	-.58938	15.083	1.4508	.69617	2.9583	3.2043	.3293
#3	-.56716	32.999	.92871	1.9873	.58987	1.6882	.4544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3927	.17673	5.1891
Stddev	.8847	.43238	.0512
%RSD	36.974	244.65	.98769
#1	1.4236	.65566	5.1472
#2	3.1571	-.18490	5.1739
#3	2.5975	.05944	5.2462
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28869.	14195.	411430.
Stddev	66.	127.	5477.
%RSD	.22864	.89150	1.3313
#1	28926.	14143.	417090.
#2	28885.	14340.	406150.
#3	28797.	14104.	411060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.84%	104.03%	100.31%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27539	44.196	-.13871	-.00578	.02900	-1.9810	-.0721
Stddev	.32747	17.164	.83770	.12494	.01495	4.3780	.1657
%RSD	118.91	38.836	603.93	2160.9	51.537	221.00	229.7
#1	.32801	41.367	-.73407	-.08073	.02296	-.58541	.0358
#2	-.07520	62.599	-.50125	.13845	.04602	-6.8867	.0107
#3	.57336	28.623	.81920	-.07507	.01802	1.5291	-.2629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02446	.12539	-.14352	15.552	58.03	9.267	.37077
Stddev	.01049	.34159	.25350	5.303	9.71	6.109	.02662
%RSD	42.899	272.41	176.63	34.096	16.72	65.92	7.1808
#1	.01287	-.00176	.10682	16.434	68.19	16.16	.37491
#2	.03332	.51232	-.40007	9.8640	57.04	7.100	.39508
#3	.02718	-.13438	-.13732	20.359	48.86	4.537	.34232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53172	37.882	.18131	-.91312	1.3520	2.8671	.1133
Stddev	.19804	25.108	.07981	1.4398	1.7466	.8039	.1803
%RSD	37.246	66.278	44.019	157.68	129.18	28.041	159.2
#1	-.72326	9.8870	.21311	-2.5497	.91207	2.3544	.2018
#2	-.32776	45.355	.09050	.15890	3.2765	2.4532	-.0942
#3	-.54413	58.406	.24031	-.34859	-.13253	3.7936	.2321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.01753	-.12014	1.0947
Stddev	.76454	.16016	.0702
%RSD	4360.5	133.31	6.4134
#1	.37096	-.30420	1.1247
#2	.47475	-.01250	1.0145
#3	-.89831	-.04373	1.1450
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28340.	13664.	409180.
Stddev	149.	66.	9225.
%RSD	.52681	.48550	2.2546
#1	28416.	13678.	410260.
#2	28168.	13721.	399470.
#3	28436.	13591.	417820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.969%	100.13%	99.759%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12527	65.744	1.8819	.20715	.03172	-18.425	-.2234
Stddev	.09302	24.652	.6219	.47369	.00863	4.162	.0384
%RSD	74.255	37.496	33.047	228.67	27.198	22.586	17.20
#1	.21014	73.571	2.5998	.73544	.02804	-23.211	-.2234
#2	.02583	85.532	1.5087	-.17972	.04158	-15.659	-.1850
#3	.13984	38.129	1.5371	.06572	.02554	-16.406	-.2619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01832	.62440	.75216	35.616	-49.78	-1.942	1.4920
Stddev	.07193	.18962	.55055	.573	27.75	10.02	.0501
%RSD	392.67	30.368	73.195	1.6088	55.74	516.0	3.3568
#1	.05926	.65886	1.0773	35.697	-74.95	9.552	1.4788
#2	-.03143	.79443	.11650	35.006	-54.38	-8.844	1.5473
#3	-.08278	.41992	1.0627	36.144	-20.02	-6.534	1.4498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45951	11.098	1.1404	1.2608	2.0867	.98908	.2469
Stddev	.16974	11.903	.1666	.4478	1.4488	1.0651	.1496
%RSD	36.941	107.25	14.608	35.517	69.432	107.68	60.58
#1	-.43360	-1.1286	1.3286	1.0509	3.6697	.99602	.2185
#2	-.64071	11.776	1.0118	1.7750	1.7639	2.0507	.4086
#3	-.30420	22.648	1.0809	.95650	.82645	-.07945	.1136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2678	-.00098	4.9934
Stddev	.9629	.30737	.1865
%RSD	75.956	31305.	3.7343
#1	1.9242	-.34867	5.2084
#2	.16231	.23462	4.8755
#3	1.7168	.11110	4.8963
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28847.	14201.	416100.
Stddev	41.	232.	8008.
%RSD	.14071	1.6313	1.9245
#1	28889.	14468.	415820.
#2	28808.	14057.	408240.
#3	28843.	14077.	424250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.76%	104.07%	101.45%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.935	2240.2	41.146	2027.1	50.865	-29.696	48.47
Stddev	1.287	52.8	.439	4.1	.581	2.901	.23
%RSD	2.4305	2.3553	1.0677	.20045	1.1427	9.7704	.4719
#1	54.274	2243.3	40.816	2022.4	51.477	-30.875	48.68
#2	51.707	2291.3	40.977	2029.2	50.321	-31.823	48.51
#3	52.825	2185.9	41.645	2029.7	50.797	-26.391	48.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	495.42	207.92	251.68	1103.2	-85.02	-6.247	537.76
Stddev	.07	2.40	2.33	6.8	33.87	23.41	5.86
%RSD	.01348	1.1527	.92579	.61482	39.84	374.7	1.0890
#1	495.46	210.62	254.06	1098.9	-86.62	-28.41	544.32
#2	495.35	206.06	249.40	1111.0	-118.1	-8.559	533.05
#3	495.47	207.06	251.59	1099.7	-50.38	18.23	535.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.92854	-1.2012	495.83	20.572	101.11	100.94	.2328
Stddev	.08491	1.4890	.23	.708	.59	.92	.0353
%RSD	9.1445	123.96	.04643	3.4395	.57910	.91580	15.15
#1	-.88630	.51737	495.56	21.388	100.49	101.78	.2081
#2	-.87304	-2.0139	495.95	20.201	101.65	99.951	.2732
#3	-1.0263	-2.1070	495.97	20.127	101.19	101.08	.2171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	52.362	498.12	505.59
Stddev	.460	5.71	.11
%RSD	.87928	1.1461	.02196
#1	51.892	504.13	505.47
#2	52.813	492.77	505.62
#3	52.380	497.46	505.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29220.	14280.	417000.
Stddev	21.	46.	4057.
%RSD	.07025	.32418	.97290
#1	29243.	14318.	412670.
#2	29202.	14228.	417610.
#3	29216.	14294.	420720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.08%	104.65%	101.66%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.275	471.01	21.193	387.46	10.063	10257.	9.145
Stddev	.754	40.18	.910	1.76	.097	63.	.023
%RSD	3.7206	8.5314	4.2961	.45503	.96056	.61668	.2466
#1	19.851	448.89	20.436	385.52	9.9519	10191.	9.133
#2	21.146	446.75	22.204	387.91	10.108	10317.	9.171
#3	19.827	517.40	20.941	388.96	10.129	10262.	9.131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.033	21.281	48.067	240.04	10270.	10350.	32.193
Stddev	.154	.402	.484	7.21	49.	100.	.345
%RSD	.16219	1.8879	1.0078	3.0032	.4760	.9636	1.0725
#1	94.895	20.828	47.516	232.21	10220.	10240.	31.794
#2	95.199	21.418	48.429	246.39	10260.	10430.	32.382
#3	95.003	21.596	48.254	241.52	10320.	10380.	32.402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55158	10733.	77.000	19.109	117.63	71.701	.5166
Stddev	.24902	49.	.197	.303	2.70	1.179	.0655
%RSD	45.147	.45635	.25640	1.5850	2.2951	1.6445	12.67
#1	-.46440	10689.	76.779	18.763	115.36	70.410	.5877
#2	-.35787	10726.	77.060	19.236	116.92	71.970	.4589
#3	-.83247	10786.	77.160	19.328	120.62	72.722	.5030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.169	98.616	122.23
Stddev	.634	.742	.10
%RSD	1.2895	.75235	.08138
#1	49.619	97.761	122.31
#2	49.443	98.998	122.12
#3	48.444	99.089	122.26
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28426.	13998.	405530.
Stddev	59.	111.	6558.
%RSD	.20775	.79452	1.6171
#1	28416.	13958.	412990.
#2	28372.	14123.	400680.
#3	28489.	13911.	402910.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.27%	102.58%	98.868%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	738.96	50713.	2485.7	9999.2	1005.3	51579.	983.2
Stddev	10.21	188.	5.1	411.3	13.4	75.	1.1
%RSD	1.3812	.37025	.20667	4.1129	1.3332	.14538	.1119
#1	731.58	50516.	2482.7	9537.4	1005.4	51493.	982.7
#2	734.69	50891.	2491.6	10326.	991.88	51627.	982.5
#3	750.61	50733.	2482.8	10134.	1018.7	51618.	984.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4809.2	9987.7	11924.	25502.	38340.	51370.	4906.2
Stddev	3.8	144.7	234.	5.	275.	92.	81.3
%RSD	.07798	1.4490	1.9652	.01959	.7167	.1787	1.6578
#1	4805.5	9885.5	11987.	25506.	38040.	51290.	4841.4
#2	4809.3	9924.2	11665.	25496.	38580.	51340.	4879.7
#3	4813.0	10153.	12120.	25504.	38400.	51470.	4997.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.52	26367.	4774.9	9401.1	2446.9	1237.7	988.4
Stddev	1.41	76.	1.9	9.5	1.3	2.0	14.3
%RSD	.14335	.28640	.03940	.10096	.05228	.16168	1.448
#1	979.74	26295.	4772.8	9390.2	2447.6	1237.9	978.5
#2	979.67	26446.	4775.7	9405.7	2445.4	1235.6	981.9
#3	982.14	26362.	4776.3	9407.5	2447.7	1239.5	1005.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	924.93	2479.4	4952.8
Stddev	3.17	36.6	4.0
%RSD	.34273	1.4757	.08065
#1	921.43	2453.8	4949.1
#2	927.59	2463.0	4957.0
#3	925.78	2521.3	4952.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26497.	13637.	391780.
Stddev	9.	301.	4977.
%RSD	.03381	2.2052	1.2704
#1	26507.	13981.	392370.
#2	26489.	13423.	396440.
#3	26496.	13507.	386540.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25311	36.013	.22104	-.19056	.02473	-9.9427	-.1196
Stddev	.20765	31.420	.50284	.54072	.00418	2.5697	.0283
%RSD	82.041	87.246	227.49	283.75	16.907	25.845	23.70
#1	.36140	68.848	.48689	-.14057	.02377	-12.831	-.1489
#2	.38424	6.2301	.53515	-.75455	.02112	-9.0867	-.0923
#3	.01369	32.962	-.35893	.32343	.02932	-7.9103	-.1177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09040	.08846	.70640	11.861	86.50	20.89	.05889
Stddev	.09616	.31198	.52547	.763	33.36	20.90	.04215
%RSD	106.38	352.67	74.387	6.4316	38.57	100.1	71.567
#1	.18522	.23685	1.1434	12.732	63.83	16.58	.01087
#2	.09303	.29856	.12336	11.538	70.86	43.61	.07605
#3	-.00706	-.27002	.85245	11.312	124.8	2.482	.08975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13046	17.901	.15960	-.56311	.07534	.36022	-.0104
Stddev	.04854	19.190	.01494	.89467	1.6581	1.7154	.1736
%RSD	37.210	107.20	9.3634	158.88	2200.9	476.20	1666.
#1	.16286	18.011	.14339	.26232	-1.3487	-.82922	.0627
#2	.15388	37.036	.17283	-1.5138	1.8957	-.41671	-.2086
#3	.07465	-1.3442	.16257	-.43784	-.32096	2.3266	.1146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

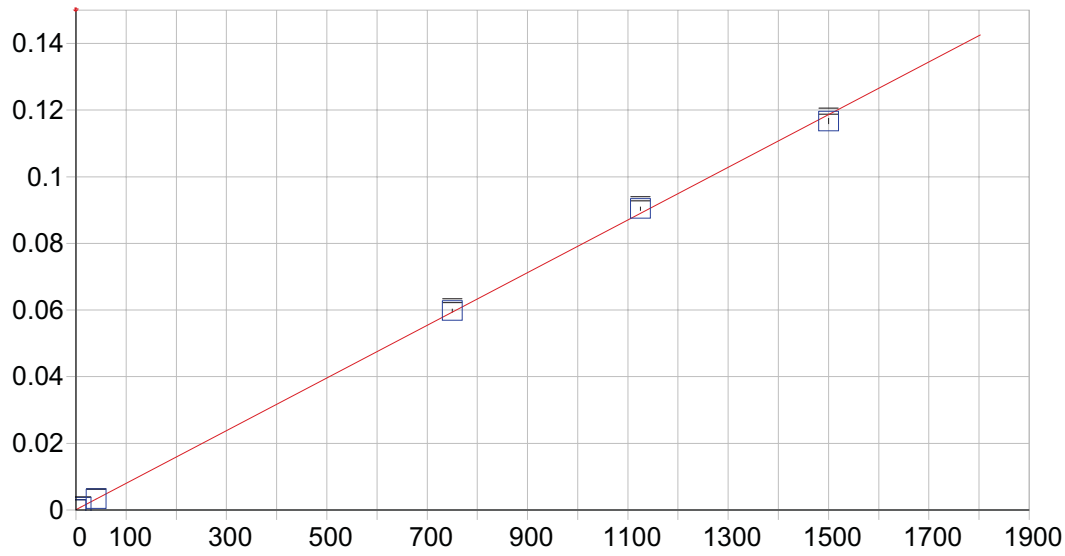
Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29869	.09040	-.00011
Stddev	.69172	.15873	.02002
%RSD	231.58	175.58	18709.
#1	-.66398	.24370	.02186
#2	.49909	.10075	-.00486
#3	-.73119	-.07325	-.01732
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28338.	13935.	409770.
Stddev	138.	74.	10352.
%RSD	.48581	.52906	2.5263
#1	28497.	13856.	412820.
#2	28257.	14002.	398240.
#3	28261.	13947.	418260.

PDF created with pdfFactory trial version www.pdffactory.com



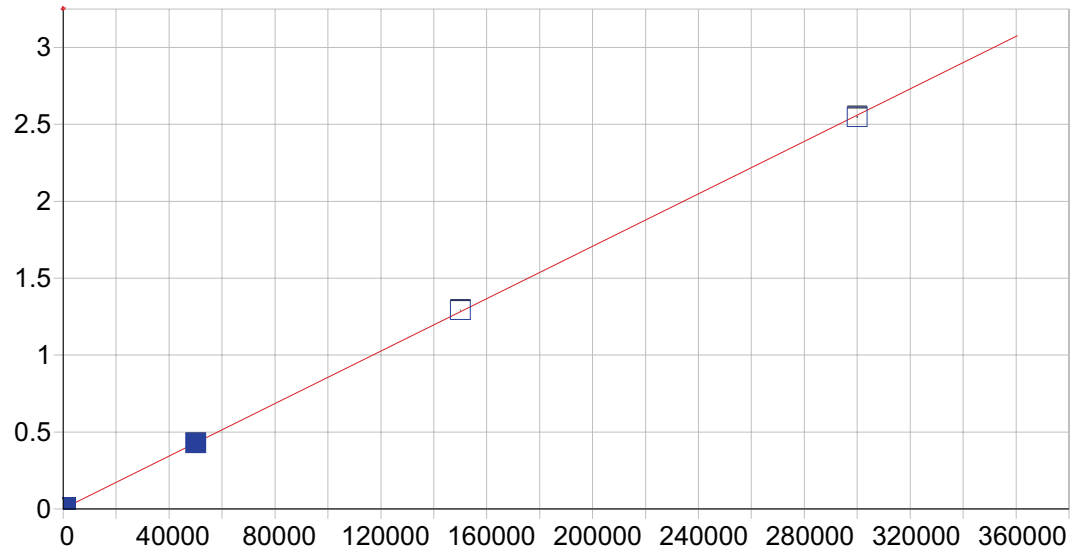
Ag 328.068 {103}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.000079	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	0.558079		
Predicted MQL:	1.860263		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00020	-.000	.000	.00012	.000	1
S01 ISM-520	10.000	9.9401	-.060	-.599	.00090	.000	1
S02 ISM-521	40.000	40.754	.754	1.88	.00334	.000	1
S03 ISM-538	750.00	755.97	5.97	.796	.05985	.001	1
S04 ISM-523	1125.0	1142.8	17.8	1.59	.09041	.001	1
S05 ISM-524	1500.0	1475.5	-24.5	-1.63	.11670	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



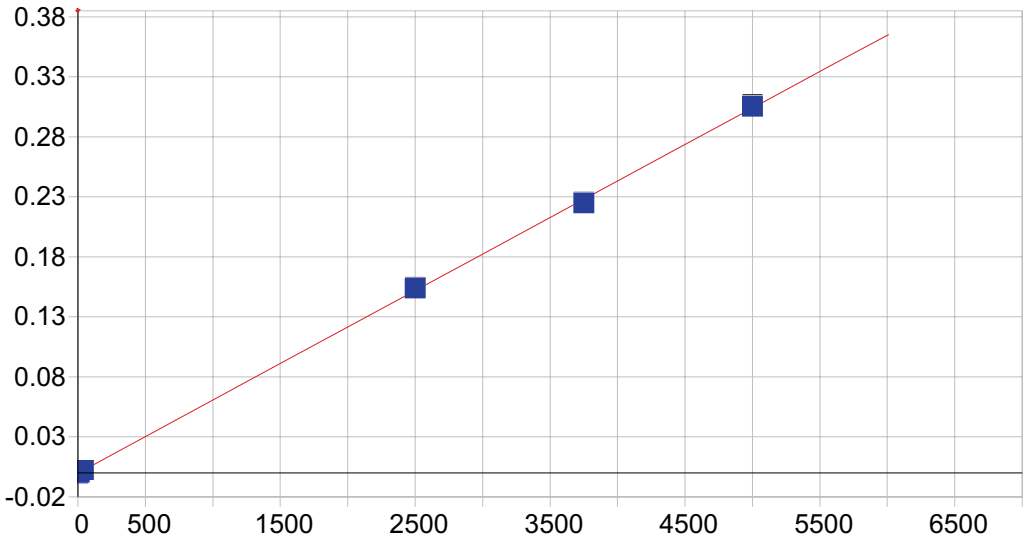
Al 308.215 {109}

Date of Fit:	11/27/2015 9:47:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002878	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	52.557761		
Predicted MQL:	175.192535		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.05031	-.050	.000	.00288	.000	1
S01 ISM-520	200.00	235.56	35.6	17.8	.00491	.000	1
S02 ISM-521	800.00	857.84	57.8	7.23	.01027	.000	1
S03 ISM-538	50000.	49833.	-167.	-.334	.42872	.001	1
S06 ISM-547	150000.	151360.	1360.	.909	1.2932	.003	1
S07 ISM-545	300000.	298710.	-1290.	-.430	2.5493	.006	1

PDF created with pdfFactory trial version www.pdffactory.com



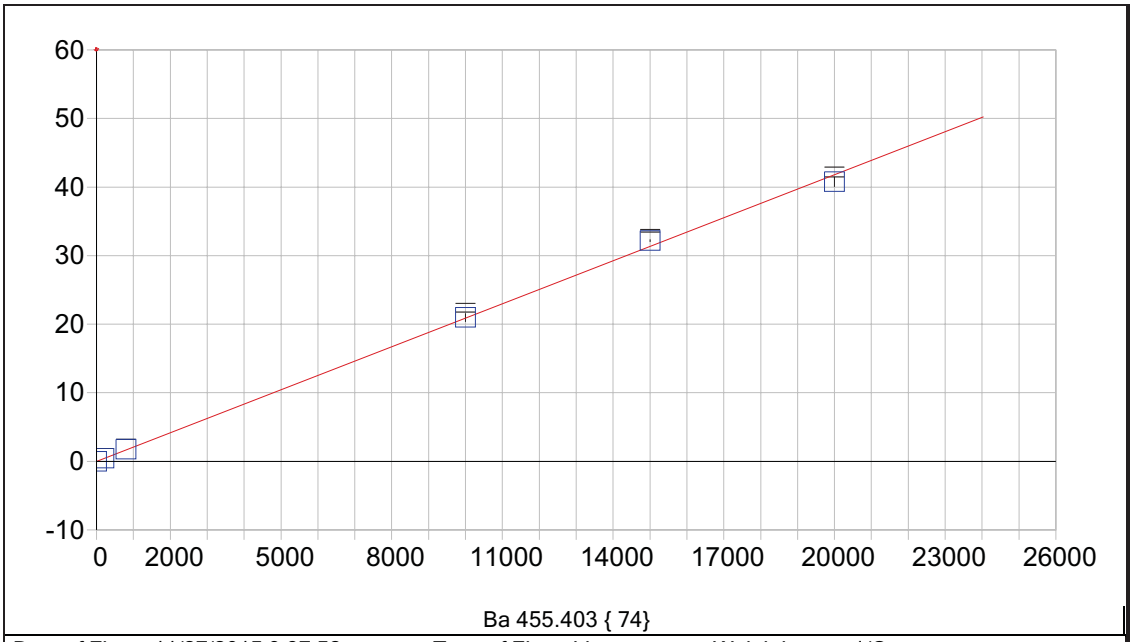
As 189.042 {478}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000141	Re-Slope:	1.000000
A1 (Gain):	0.000061	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.000008		
Predicted MDL:	1.297740		
Predicted MQL:	4.325801		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00005	.000	.000	-.00014	.000	1
S01 ISM-520	10.000	9.9259	-.074	-.741	.00046	.000	1
S02 ISM-521	40.000	39.982	-.018	-.046	.00229	.000	1
S03 ISM-538	2500.0	2532.1	32.1	1.28	.15426	.000	1
S04 ISM-523	3750.0	3696.3	-53.7	-1.43	.22523	.000	1
S05 ISM-524	5000.0	5021.7	21.7	.434	.30603	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



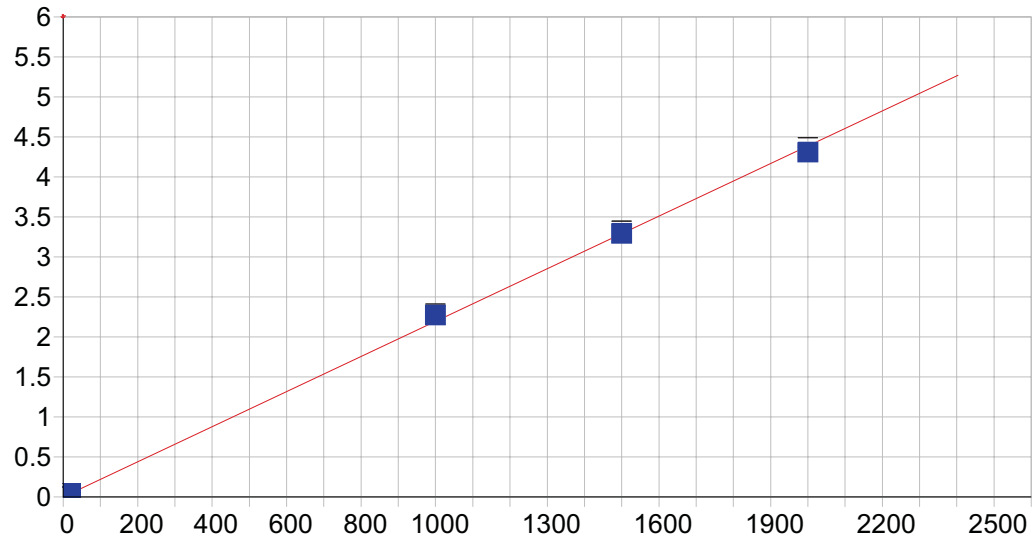
Ba 455.403 { 74}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005722	Re-Slope:	1.000000
A1 (Gain):	0.002090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999718	Status:	OK.
Std Error of Est:	0.005827		
Predicted MDL:	0.556077		
Predicted MQL:	1.853590		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02548	-.025	.000	-.00577	.001	1
S01 ISM-520	200.00	215.00	15.0	7.50	.44356	.001	1
S02 ISM-521	800.00	837.18	37.2	4.65	1.7437	.003	1
S03 ISM-538	10000.	10036.	36.2	.362	20.966	.630	1
S04 ISM-523	15000.	15404.	404.	2.69	32.182	.176	1
S05 ISM-524	20000.	19508.	-492.	-2.46	40.759	.724	1

PDF created with pdfFactory trial version www.pdffactory.com



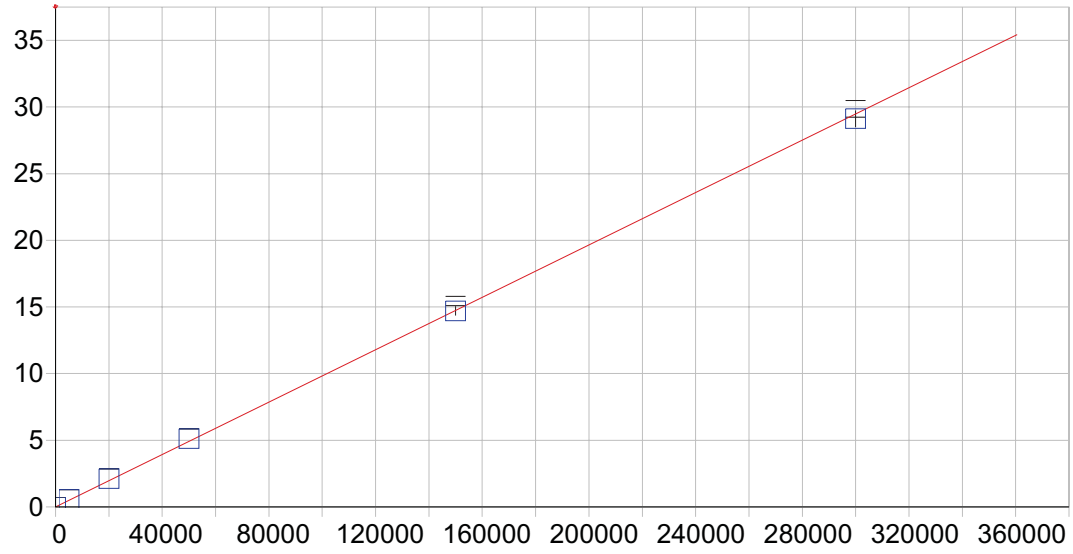
Be 313.042 {108}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000499	Re-Slope:	1.000000
A1 (Gain):	0.002193	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999789	Status:	OK.
Std Error of Est:	0.000263		
Predicted MDL:	0.016657		
Predicted MQL:	0.055522		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00037	-.000	.000	.00050	.000	1
S01 ISM-520	5.0000	5.0748	.075	1.50	.01168	.000	1
S02 ISM-521	20.000	20.834	.834	4.17	.04638	.000	1
S03 ISM-538	1000.0	1034.9	34.9	3.49	2.2726	.014	1
S04 ISM-523	1500.0	1500.7	.704	.047	3.2955	.030	1
S05 ISM-524	2000.0	1963.5	-36.5	-1.82	4.3117	.058	1

PDF created with pdfFactory trial version www.pdffactory.com

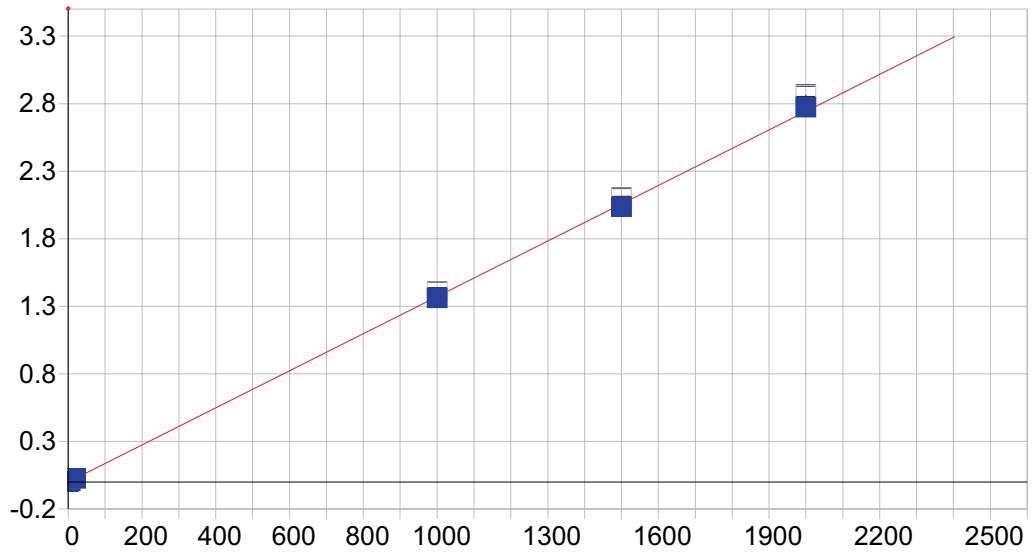


Ca 317.933 {106}

Date of Fit:	11/27/2015 9:47:31	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.005645		Re-Slope:	1.000000		
A1 (Gain):	0.000098		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999729		Status:	OK.		
Std Error of Est:	0.004539					
Predicted MDL:	5.431943					
Predicted MQL:	18.106477					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-1.0169	-1.02	.000	.00555	.000	1
S01 ISM-520	5000.0	5521.2	521.	10.4	.54806	.001	1
S02 ISM-521	20000.	21499.	1500.	7.49	2.1177	.003	1
S03 ISM-538	50000.	51935.	1940.	3.87	5.1078	.000	1
S06 ISM-547	150000.	149600.	-397.	-.265	14.703	.355	1
S07 ISM-545	300000.	296440.	-3560.	-1.19	29.129	.620	1

PDF created with pdfFactory trial version www.pdffactory.com



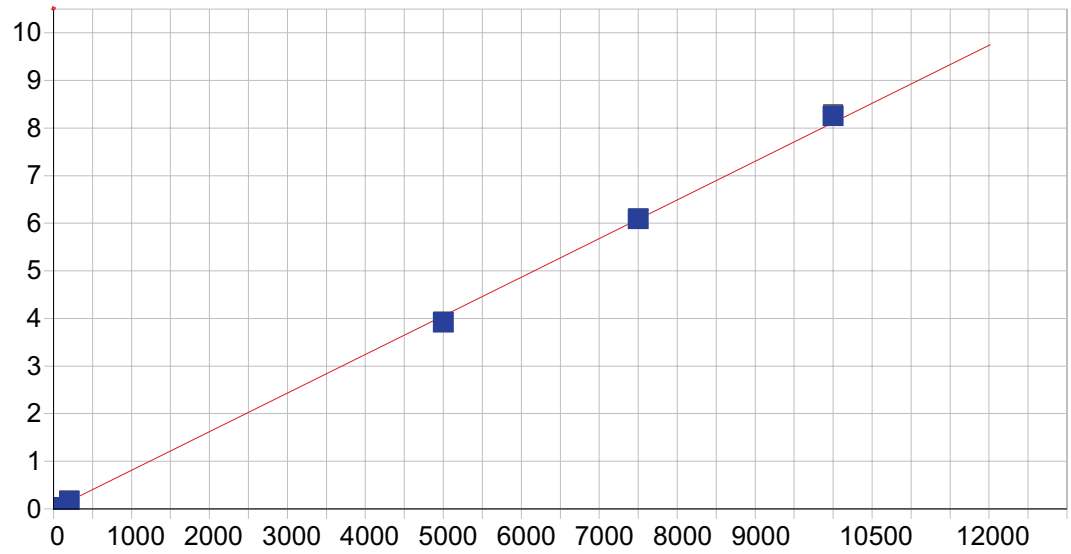
Cd 228.802 {447}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000684	Re-Slope:	1.000000
A1 (Gain):	0.001372	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999951	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.204418		
Predicted MQL:	0.681393		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00036	.000	.000	-.00068	.000	1
S01 ISM-520	5.0000	4.8498	-.150	-3.00	.00614	.000	1
S02 ISM-521	20.000	19.251	-.749	-3.75	.02642	.000	1
S03 ISM-538	1000.0	993.43	-6.57	-.657	1.4057	.001	1
S04 ISM-523	1500.0	1485.1	-14.9	-.994	2.1018	.003	1
S05 ISM-524	2000.0	2022.4	22.4	1.12	2.8606	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



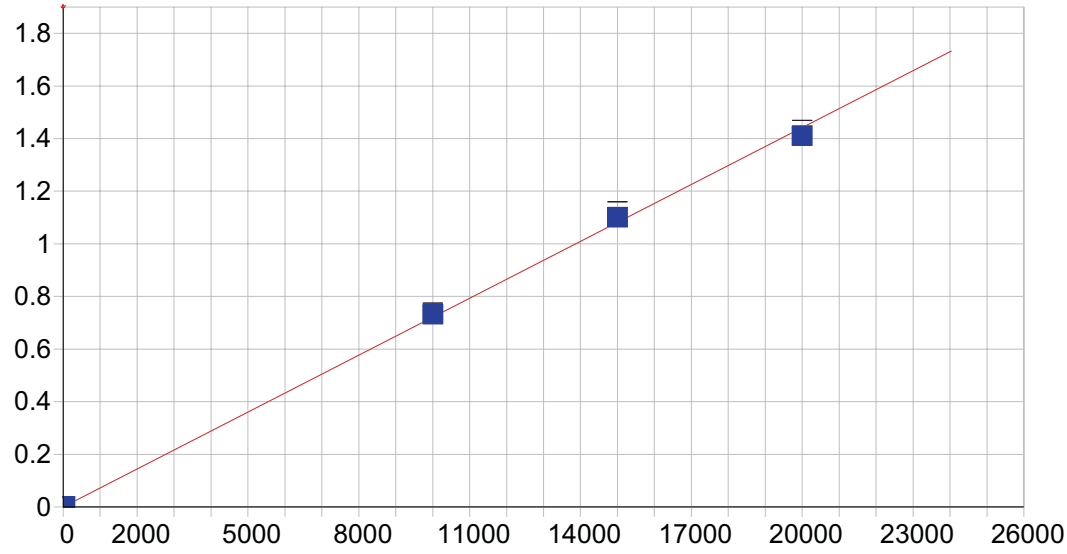
Co 228.616 {447}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000545	Re-Slope:	1.000000
A1 (Gain):	0.000811	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999801	Status:	OK.
Std Error of Est:	0.000669		
Predicted MDL:	0.201797		
Predicted MQL:	0.672656		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00191	.002	.000	.00055	.000	1
S01 ISM-520	50.000	50.020	.020	.040	.04121	.000	1
S02 ISM-521	200.00	195.61	-4.39	-2.19	.15941	.000	1
S03 ISM-538	5000.0	4827.4	-173.	-3.45	3.9184	.005	1
S04 ISM-523	7500.0	7503.2	3.16	.042	6.0899	.002	1
S05 ISM-524	10000.	10174.	174.	1.74	8.2572	.018	1

PDF created with pdfFactory trial version www.pdffactory.com

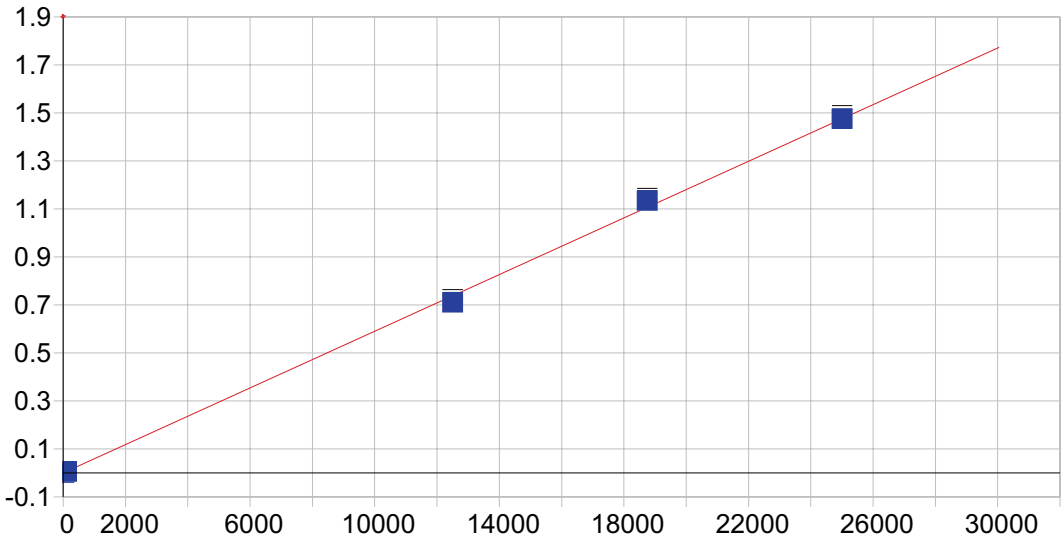


Cr 267.716 {126}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	0.000199		Re-Slope:	1.000000		
A1 (Gain):	0.000072		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999818		Status:	OK.		
Std Error of Est:	0.000036					
Predicted MDL:	0.392797					
Predicted MQL:	1.309324					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00181	-.002	.000	.00020	.000	1
S01 ISM-520	10.000	10.984	.984	9.84	.00099	.000	1
S02 ISM-521	40.000	42.818	2.82	7.05	.00329	.000	1
S03 ISM-538	10000.	10149.	149.	1.49	.73190	.006	1
S04 ISM-523	15000.	15271.	271.	1.81	1.1012	.021	1
S05 ISM-524	20000.	19576.	-424.	-2.12	1.4116	.020	1

PDF created with pdfFactory trial version www.pdffactory.com



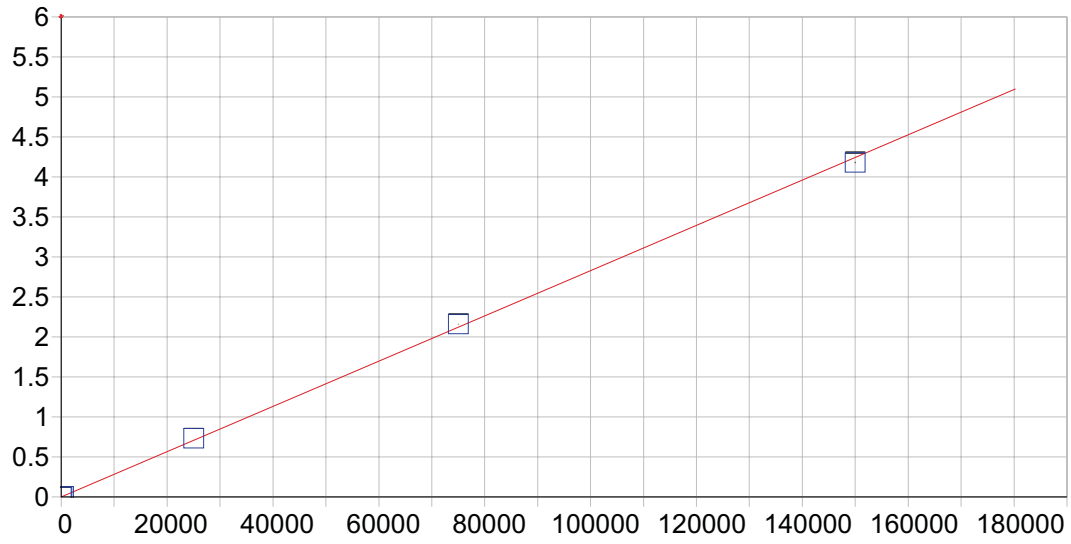
Cu 327.396 {103}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000220	Re-Slope:	1.000000
A1 (Gain):	0.000059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999746	Status:	OK.
Std Error of Est:	0.000061		
Predicted MDL:	0.794174		
Predicted MQL:	2.647245		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00117	.001	.000	-.00022	.000	1
S01 ISM-520	25.000	24.511	-.489	-1.96	.00124	.000	1
S02 ISM-521	100.00	98.483	-1.52	-1.52	.00564	.000	1
S03 ISM-538	12500.	12038.	-462.	-3.69	.71062	.013	1
S04 ISM-523	18750.	19215.	465.	2.48	1.1342	.010	1
S05 ISM-524	25000.	24999.	-1.10	-.004	1.4757	.014	1

PDF created with pdfFactory trial version www.pdffactory.com



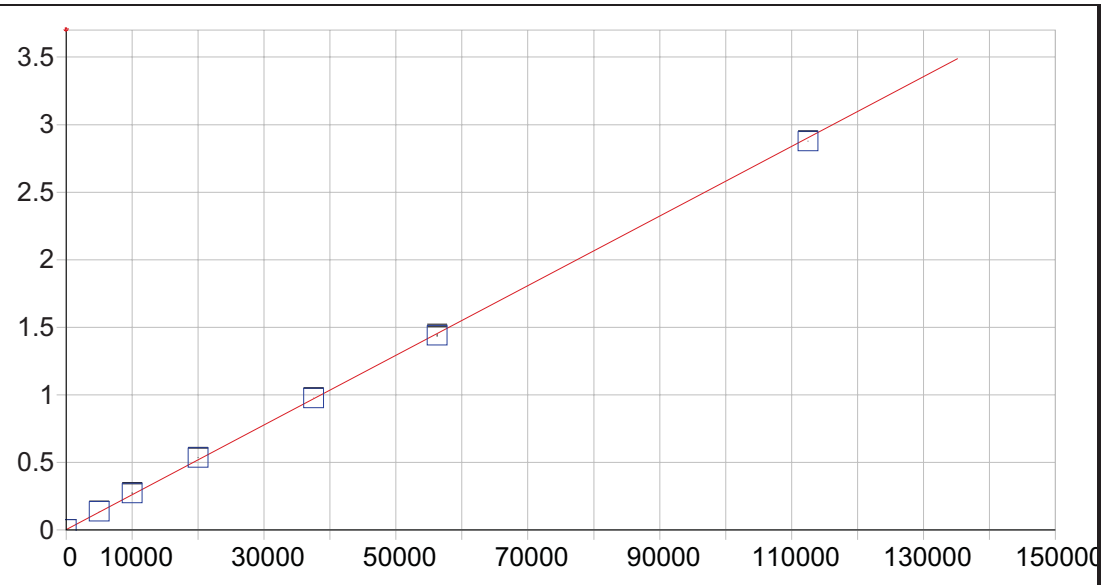
Fe 261.187 {129}

Date of Fit:	11/27/2015 9:47:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000796	Re-Slope:	1.000000
A1 (Gain):	0.000028	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999826	Status:	OK.
Std Error of Est:	0.000102		
Predicted MDL:	10.946190		
Predicted MQL:	36.487300		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02702	-.027	.000	.00079	.000	1
S01 ISM-520	100.00	113.25	13.2	13.2	.00400	.000	1
S02 ISM-521	400.00	440.77	40.8	10.2	.01326	.000	1
S03 ISM-538	25000.	25827.	827.	3.31	.73110	.000	1
S06 ISM-547	75000.	76295.	1300.	1.73	2.1582	.004	1
S07 ISM-545	150000.	147820.	-2180.	-1.45	4.1809	.007	1

PDF created with pdfFactory trial version www.pdffactory.com



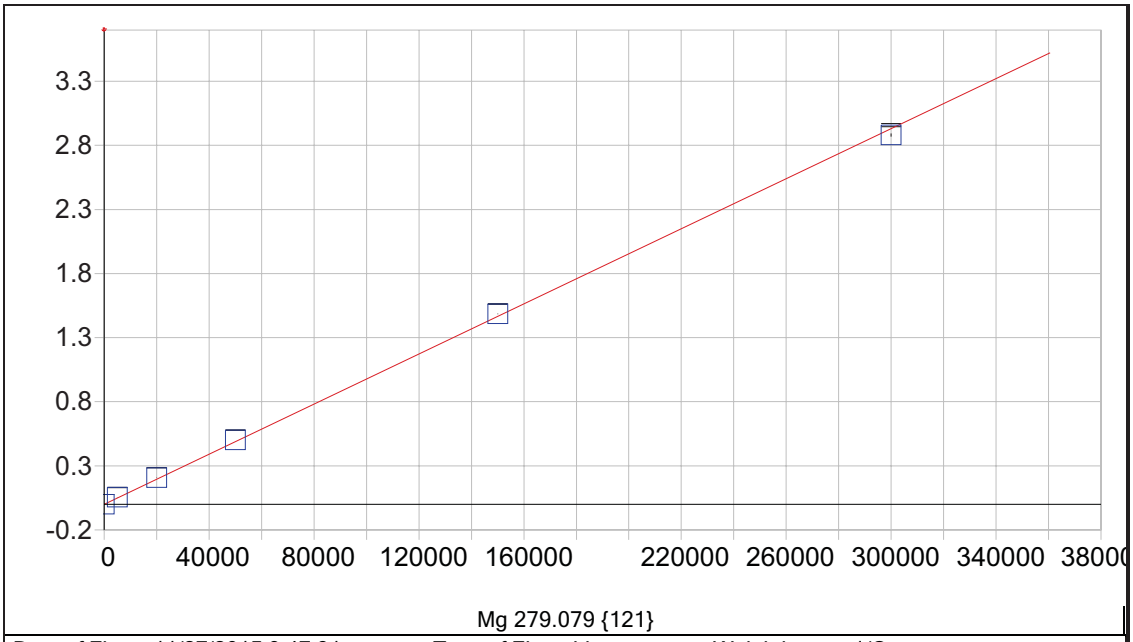
K 766.490 { 44}

Date of Fit:	11/27/2015 10:01:48	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003547	Re-Slope:	1.000000
A1 (Gain):	0.000026	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999873	Status:	OK.
Std Error of Est:	0.000533		
Predicted MDL:	53.215483		
Predicted MQL:	177.384944		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.51308	-.513	.000	.00353	.001	1
S02 ISM-521	20000.	20640.	640.	3.20	.53561	.001	1
S01 ISM-520	5000.0	5202.5	202.	4.05	.13766	.001	1
S03 ISM-538	37500.	37764.	264.	.704	.97703	.001	1
S08 ISM-546	56250.	55737.	-513.	-.912	1.4403	.009	1
S06 ISM-547	112500.	111500.	-1000.	-.893	2.8777	.003	1
S10 ISM-542	10000.	10411.	411.	4.11	.27193	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



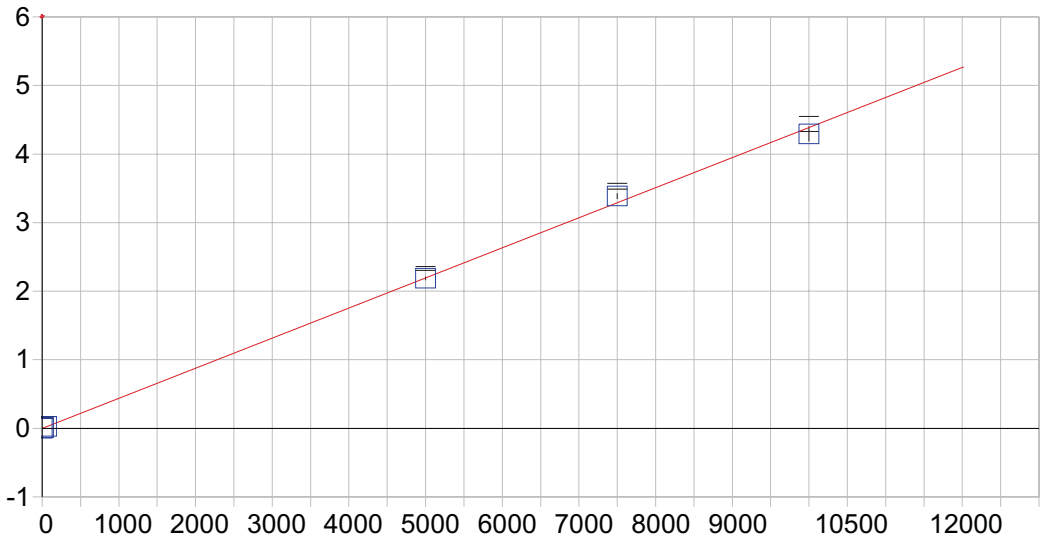
Mg 279.079 {121}

Date of Fit:	11/27/2015 9:47:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000066	Re-Slope:	1.000000
A1 (Gain):	0.000010	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999730	Status:	OK.
Std Error of Est:	0.000450		
Predicted MDL:	28.622283		
Predicted MQL:	95.407611		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.91537	-.915	.000	.00006	.000	1
S01 ISM-520	5000.0	5478.3	478.	9.57	.05360	.000	1
S02 ISM-521	20000.	21266.	1270.	6.33	.20786	.001	1
S03 ISM-538	50000.	51381.	1380.	2.76	.50212	.001	1
S06 ISM-547	150000.	152080.	2080.	1.38	1.4860	.002	1
S07 ISM-545	300000.	294800.	-5200.	-1.73	2.8806	.012	1

PDF created with pdfFactory trial version www.pdffactory.com

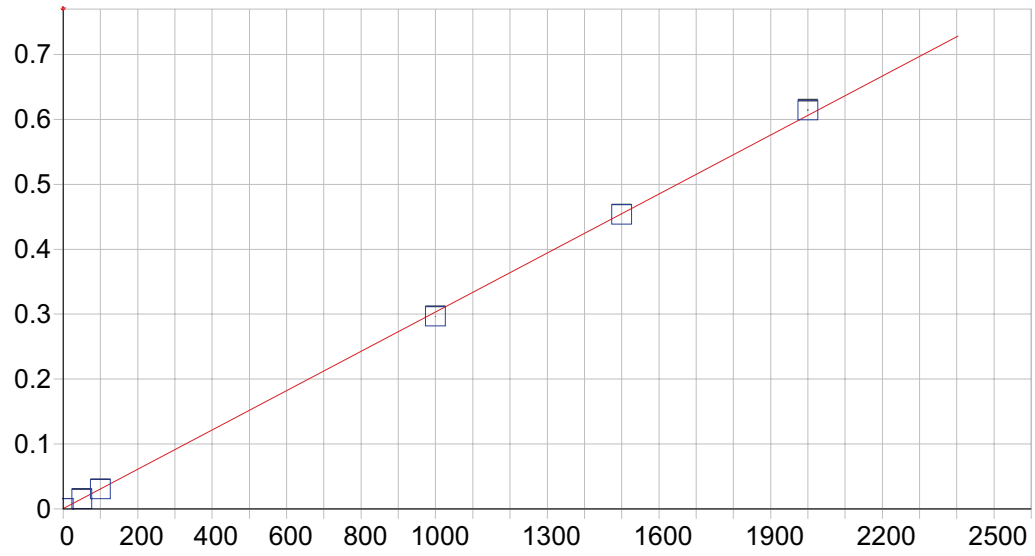


Mn 257.610 {131}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):	-0.000005		Re-Slope:	1.000000		
A1 (Gain):	0.000439		Y-int:	0.000000		
A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.999745		Status:	OK.		
Std Error of Est:	0.000223					
Predicted MDL:	0.061483					
Predicted MQL:	0.204942					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00237	-.002	.000	-.00001	.000	1
S01 ISM-520	15.000	16.238	1.24	8.26	.00712	.000	1
S02 ISM-521	60.000	64.175	4.18	6.96	.02815	.000	1
S03 ISM-538	5000.0	4988.8	-11.2	-.224	2.1883	.028	1
S04 ISM-523	7500.0	7720.8	221.	2.94	3.3867	.040	1
S05 ISM-524	10000.	9785.0	-215.	-2.15	4.2922	.110	1

PDF created with pdfFactory trial version www.pdffactory.com



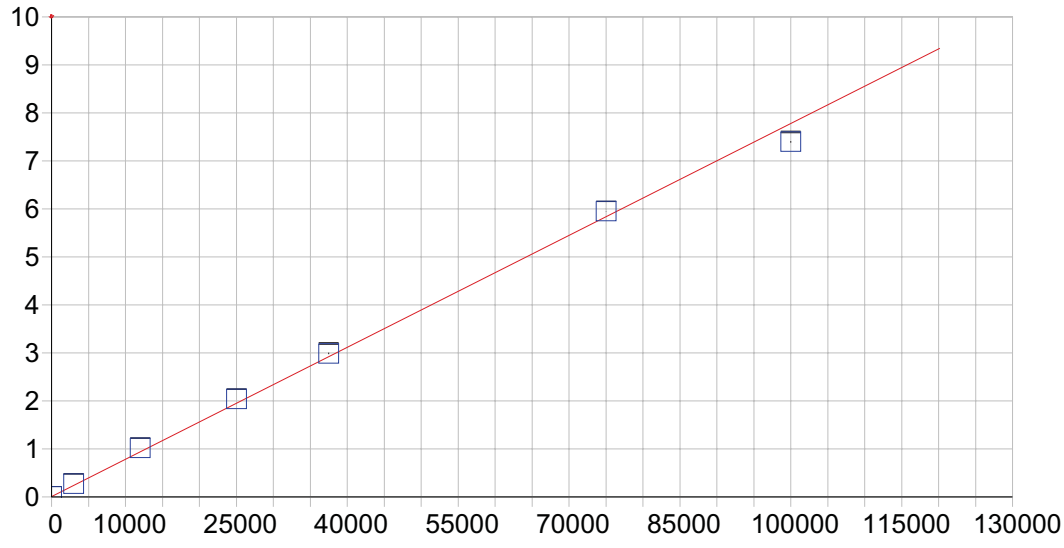
Mo 202.030 {467}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000368	Re-Slope:	1.000000
A1 (Gain):	0.000303	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999908	Status:	OK.
Std Error of Est:	0.000077		
Predicted MDL:	0.299160		
Predicted MQL:	0.997199		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00105	.001	.000	.00037	.000	1
S01 ISM-520	50.000	49.997	-.003	-.006	.01551	.000	1
S02 ISM-521	100.00	99.017	-.983	-.983	.03037	.000	1
S03 ISM-538	1000.0	977.86	-22.1	-2.21	.29662	.001	1
S04 ISM-523	1500.0	1496.6	-3.42	-.228	.45376	.000	1
S05 ISM-524	2000.0	2026.5	26.5	1.33	.61432	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



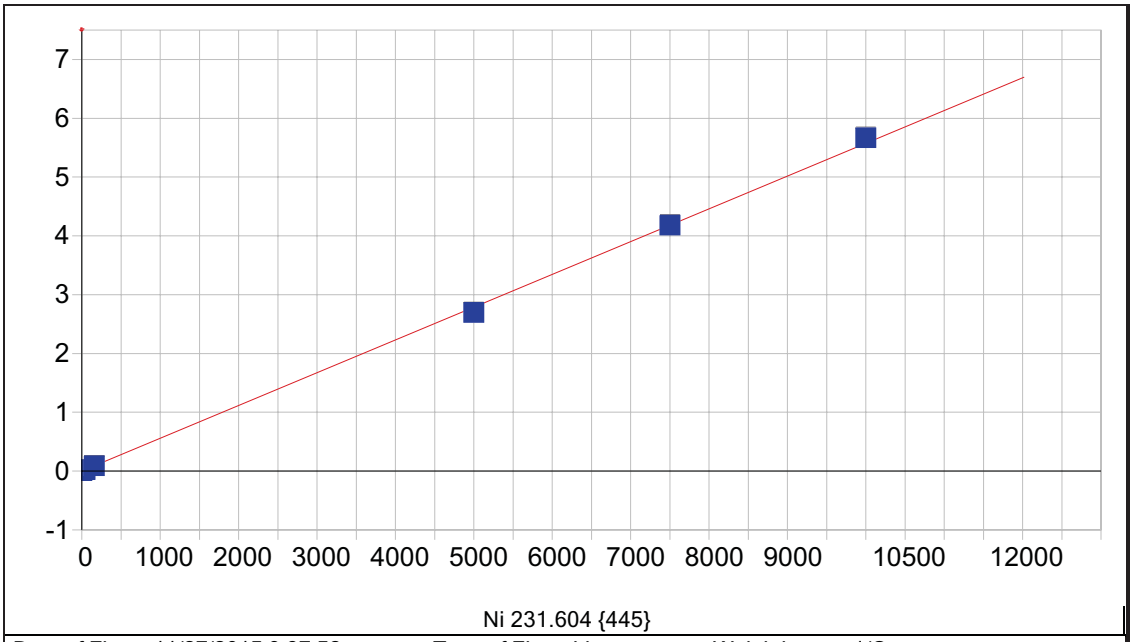
Na 589.592 { 57}

Date of Fit:	11/27/2015 9:57:00	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008426	Re-Slope:	1.000000
A1 (Gain):	0.000078	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999042	Status:	OK.
Std Error of Est:	0.003502		
Predicted MDL:	21.980767		
Predicted MQL:	73.269222		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.78480	-.785	.000	.00836	.001	1
S01 ISM-520	3000.0	3410.7	411.	13.7	.27344	.001	1
S02 ISM-521	12000.	13036.	1040.	8.63	1.0213	.001	1
S03 ISM-538	25000.	26125.	1130.	4.50	2.0384	.002	1
S06 ISM-547	75000.	76472.	1470.	1.96	5.9505	.002	1
S08 ISM-546	37500.	38352.	852.	2.27	2.9885	.018	1
S09 ISM-541	100000.	95104.	-4900.	-4.90	7.3982	.017	1

PDF created with pdfFactory trial version www.pdffactory.com



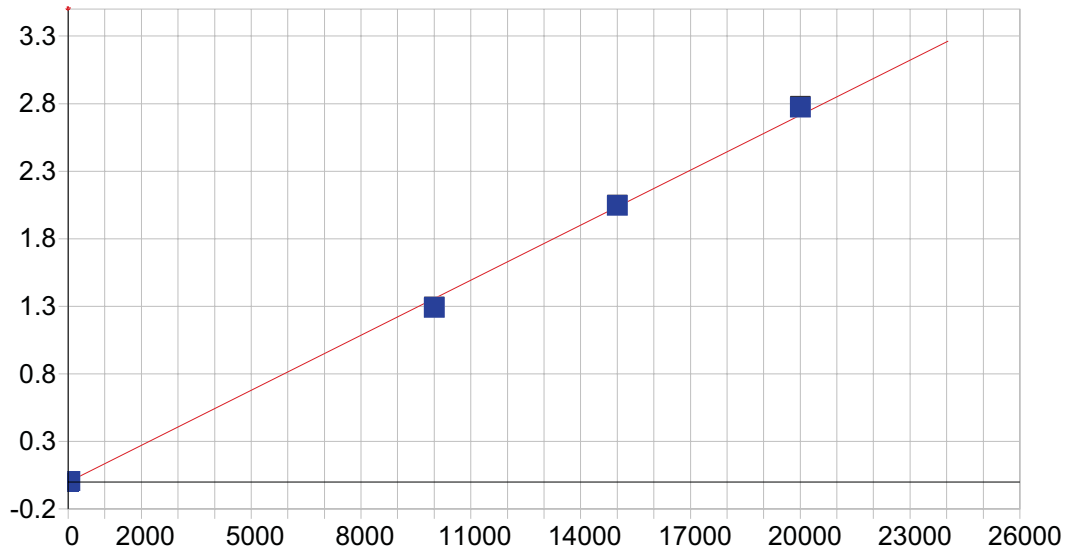
Ni 231.604 {445}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000762	Re-Slope:	1.000000
A1 (Gain):	0.000558	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999820	Status:	OK.
Std Error of Est:	0.000390		
Predicted MDL:	0.302898		
Predicted MQL:	1.009660		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00135	.001	.000	-.00076	.000	1
S01 ISM-520	40.000	39.965	-.035	-.087	.02153	.000	1
S02 ISM-521	160.00	157.32	-2.68	-1.67	.08701	.000	1
S03 ISM-538	5000.0	4835.4	-165.	-3.29	2.6964	.003	1
S04 ISM-523	7500.0	7502.8	2.81	.038	4.1849	.003	1
S05 ISM-524	10000.	10164.	164.	1.64	5.6698	.010	1

PDF created with pdfFactory trial version www.pdffactory.com



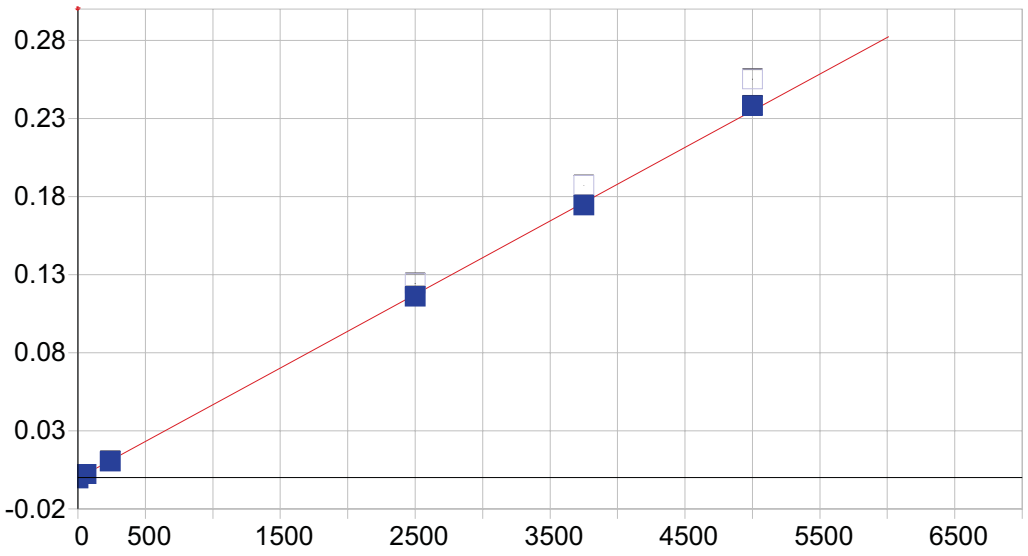
Pb 220.353 {453}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000259	Re-Slope:	1.000000
A1 (Gain):	0.000136	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999628	Status:	OK.
Std Error of Est:	0.000096		
Predicted MDL:	1.571462		
Predicted MQL:	5.238205		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00051	.001	.000	-.00026	.000	1
S01 ISM-520	10.000	10.172	.172	1.72	.00114	.000	1
S02 ISM-521	40.000	38.219	-1.78	-4.45	.00499	.000	1
S03 ISM-538	10000.	9507.8	-492.	-4.92	1.2941	.002	1
S04 ISM-523	15000.	15071.	71.4	.476	2.0468	.002	1
S05 ISM-524	20000.	20423.	423.	2.12	2.7738	.007	1

PDF created with pdfFactory trial version www.pdffactory.com



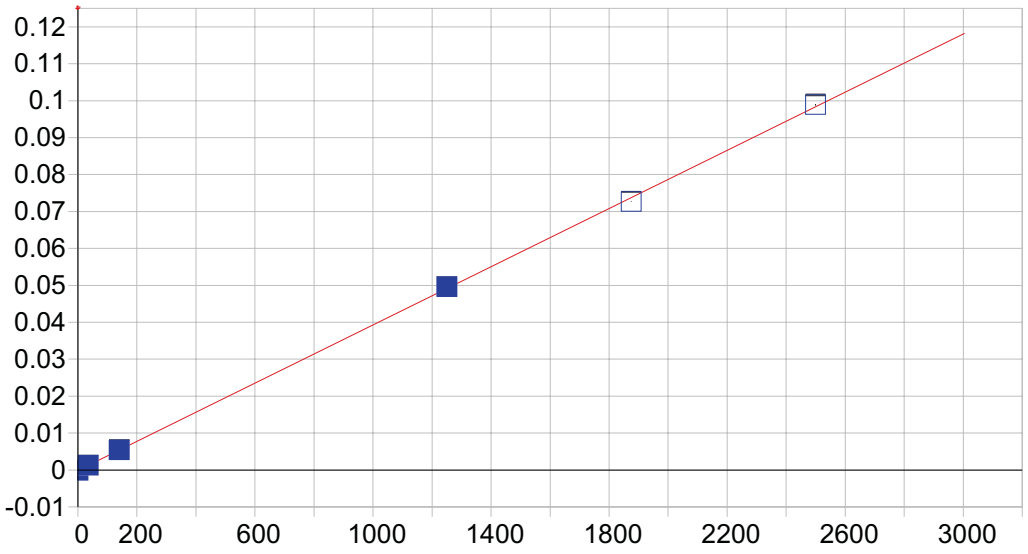
Sb 206.833 {463}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000399	Re-Slope:	1.000000
A1 (Gain):	0.000047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999930	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	2.195558		
Predicted MQL:	7.318526		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00318	.003	.000	-.00040	.000	1
S01 ISM-520	60.000	59.174	-.826	-1.38	.00238	.000	1
S02 ISM-521	240.00	232.05	-7.95	-3.31	.01052	.000	1
S03 ISM-538	2500.0	2473.3	-26.7	-1.07	.12442	.000	1
S04 ISM-523	3750.0	3715.2	-34.8	-.929	.18718	.000	1
S05 ISM-524	5000.0	5069.7	69.7	1.39	.25518	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



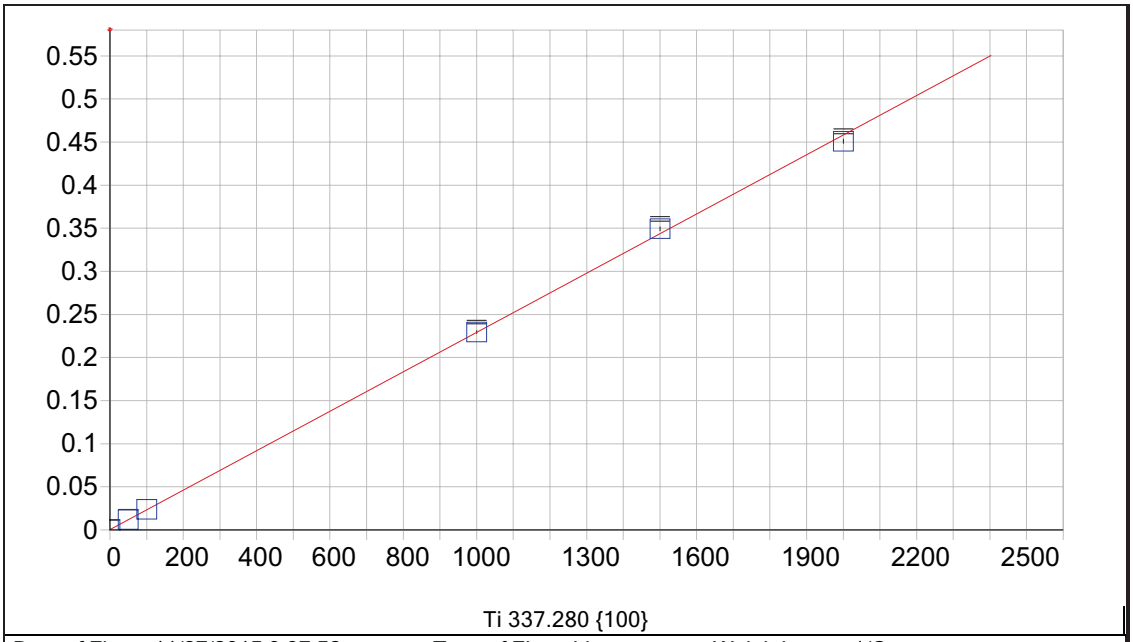
Se 196.090 {472}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000147	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999947	Status:	OK.
Std Error of Est:	0.000007		
Predicted MDL:	2.149393		
Predicted MQL:	7.164643		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00037	-.000	.000	-.00015	.000	1
S01 ISM-520	35.000	34.943	-.057	-.163	.00123	.000	1
S02 ISM-521	140.00	141.58	1.58	1.13	.00543	.000	1
S03 ISM-538	1250.0	1263.0	13.0	1.04	.04964	.000	1
S04 ISM-523	1875.0	1847.8	-27.2	-1.45	.07268	.000	1
S05 ISM-524	2500.0	2512.7	12.7	.507	.09888	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



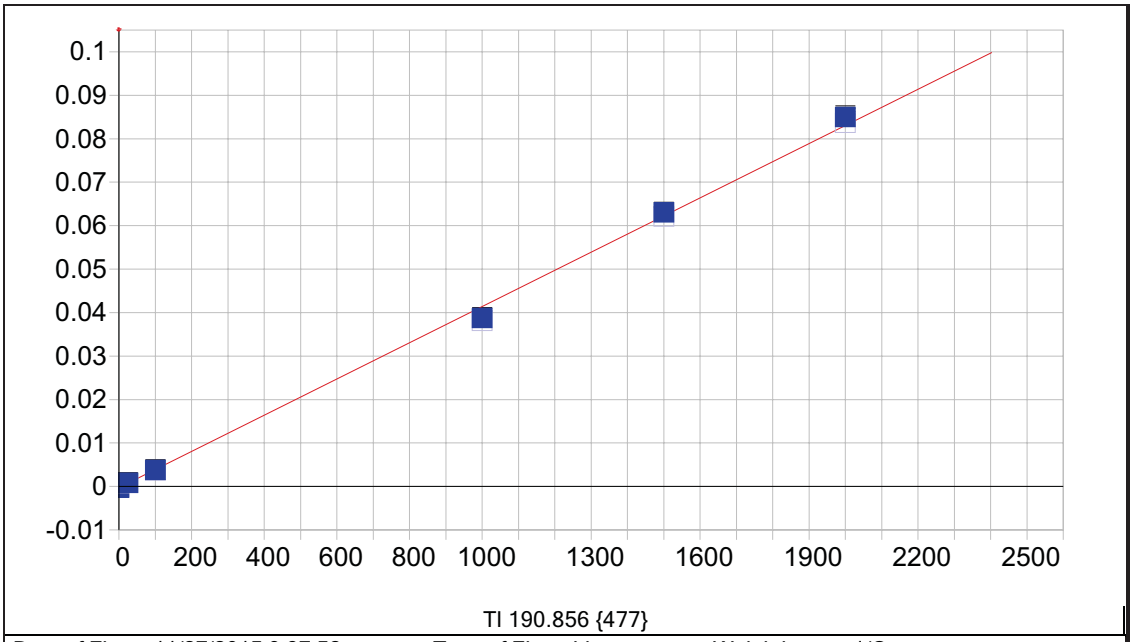
Ti 337.280 {100}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000225	Re-Slope:	1.000000
A1 (Gain):	0.000229	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999882	Status:	OK.
Std Error of Est:	0.000066		
Predicted MDL:	0.228588		
Predicted MQL:	0.761960		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00337	-.003	.000	.00022	.000	1
S01 ISM-520	50.000	51.572	1.57	3.14	.01203	.000	1
S02 ISM-521	100.00	103.33	3.33	3.33	.02389	.000	1
S03 ISM-538	1000.0	1001.7	1.73	.173	.22961	.002	1
S04 ISM-523	1500.0	1525.3	25.3	1.69	.34950	.003	1
S05 ISM-524	2000.0	1968.1	-31.9	-1.60	.45089	.003	1

PDF created with pdfFactory trial version www.pdffactory.com



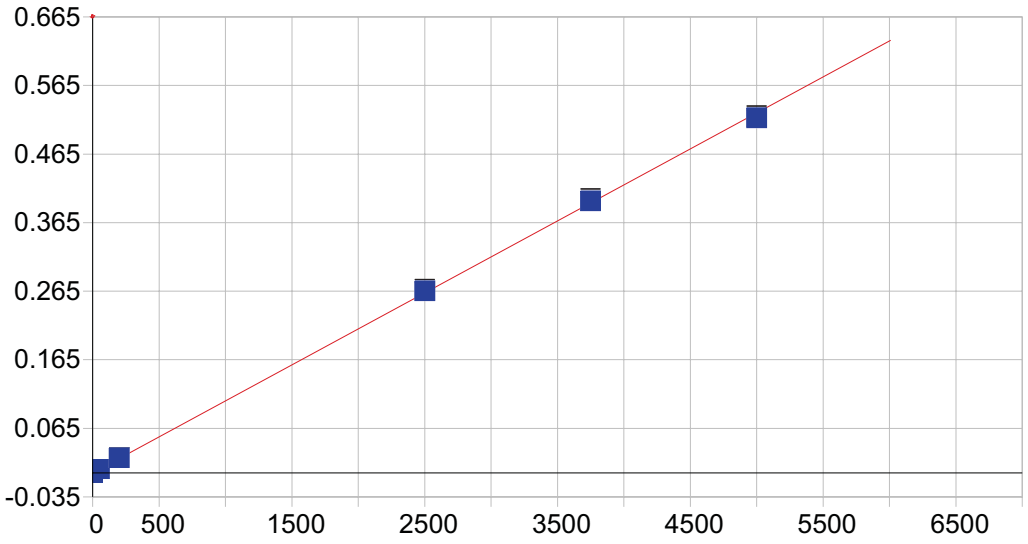
TI 190.856 {477}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000281	Re-Slope:	1.000000
A1 (Gain):	0.000042	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999400	Status:	OK.
Std Error of Est:	0.000019		
Predicted MDL:	1.529161		
Predicted MQL:	5.097203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00067	.001	.000	-.00028	.000	1
S01 ISM-520	25.000	25.795	.795	3.18	.00077	.000	1
S02 ISM-521	100.00	96.865	-3.14	-3.14	.00368	.000	1
S03 ISM-538	1000.0	937.10	-62.9	-6.29	.03811	.000	1
S04 ISM-523	1500.0	1519.2	19.2	1.28	.06204	.000	1
S05 ISM-524	2000.0	2046.0	46.0	2.30	.08366	.000	1

PDF created with pdfFactory trial version www.pdffactory.com

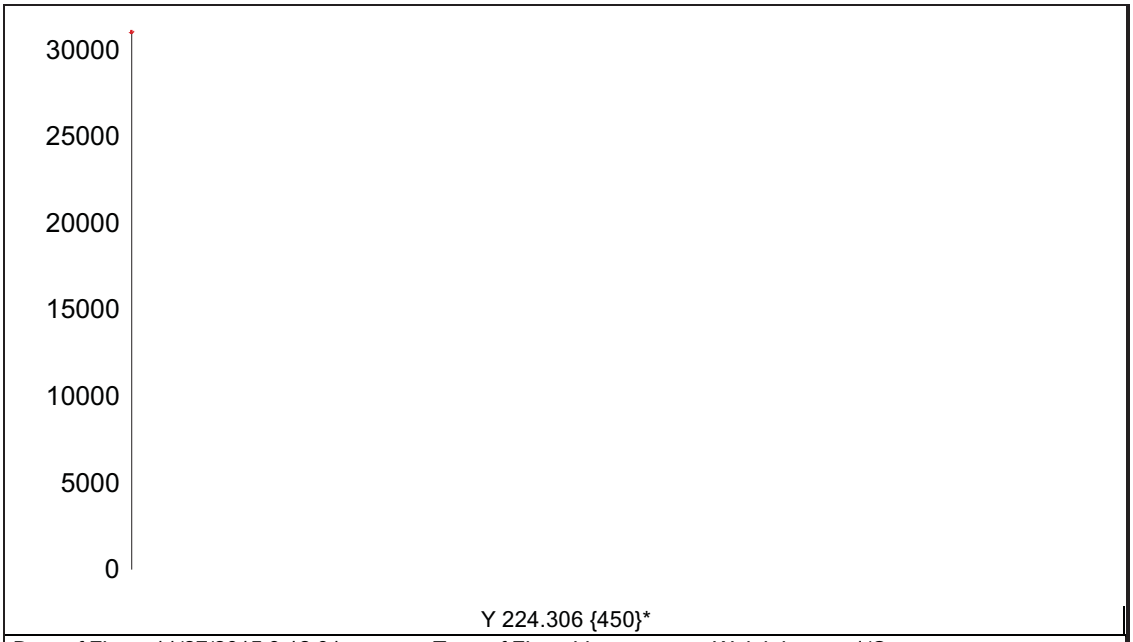


Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000045	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999920	Status:	OK.
Std Error of Est:	0.000039		
Predicted MDL:	0.372093		
Predicted MQL:	1.240309		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00397	-.004	.000	.00004	.000	1
S01 ISM-520	50.000	51.638	1.64	3.28	.00545	.000	1
S02 ISM-521	200.00	208.23	8.23	4.11	.02186	.000	1
S03 ISM-538	2500.0	2527.4	27.4	1.09	.26495	.002	1
S04 ISM-523	3750.0	3780.2	30.2	.806	.39627	.003	1
S05 ISM-524	5000.0	4932.5	-67.5	-1.35	.51704	.003	1

PDF created with pdfFactory trial version www.pdffactory.com



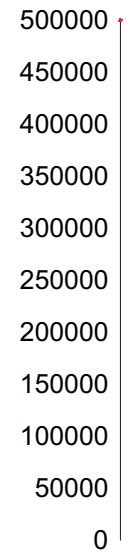
Date of Fit:	11/27/2015 9:12:01		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	29375.	32.7	1

PDF created with pdfFactory trial version www.pdffactory.com

Date of Fit:	11/27/2015 9:12:01		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	18854.	171.	1

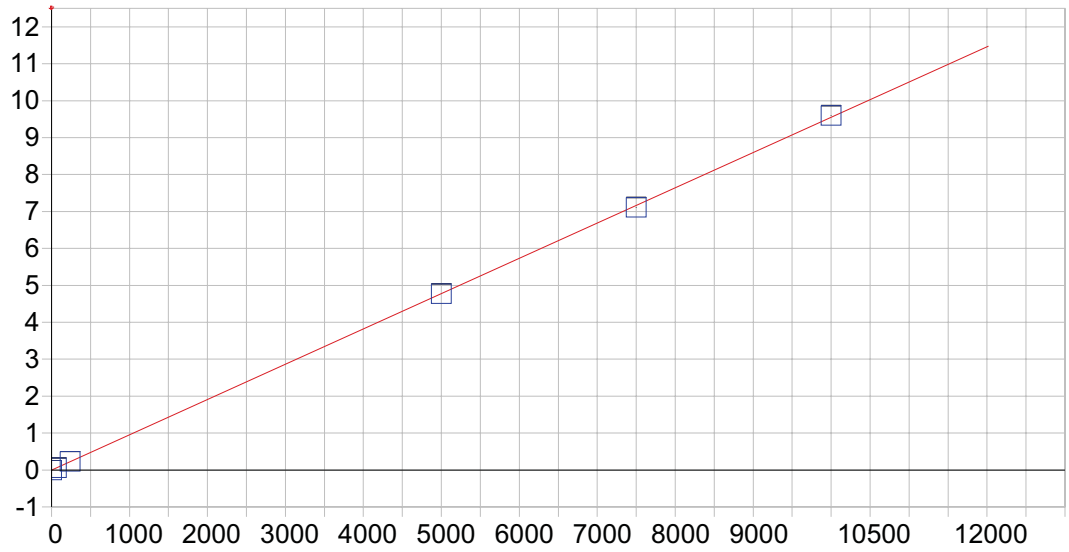


Y 371.030 { 91}2*

Date of Fit:	11/27/2015 9:12:01		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	394790.	6140.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/27/2015 9:37:52	Type of Fit:	Linear
Weighting:	1/Conc		

A0 (Offset):	-0.000420	Re-Slope:	1.000000
A1 (Gain):	0.000955	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999983	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	0.110567		
Predicted MQL:	0.368558		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00287	-.003	.000	-.00042	.000	1
S01 ISM-520	60.000	61.984	1.98	3.31	.05878	.000	1
S02 ISM-521	240.00	244.23	4.23	1.76	.23285	.000	1
S03 ISM-538	5000.0	4994.5	-5.45	-.109	4.7699	.002	1
S04 ISM-523	7500.0	7446.8	-53.2	-.709	7.1121	.006	1
S05 ISM-524	10000.	10052.	52.4	.524	9.6007	.009	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/27/2015 9:07:18 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00012	.00288	-.00014	-.00577	.00050	.00555	-.0007
Stddev	.00003	.00010	.00004	.00111	.00004	.00014	.0001
%RSD	27.294	3.5621	28.329	19.250	8.3268	2.5568	11.63
#1	.00011	.00295	-.00018	-.00472	.00054	.00539	-.0006
#2	.00015	.00292	-.00010	-.00566	.00046	.00567	-.0007
#3	.00009	.00276	-.00015	-.00694	.00050	.00557	-.0007

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00055	.00020	-.00022	.00079	.0035	.0001	-.00001
Stddev	.00020	.00003	.00002	.00024	.0011	.0004	.00001
%RSD	36.768	14.203	8.8501	30.743	31.83	626.4	181.48
#1	.00063	.00022	-.00023	.00106	.0029	.0003	-.00002
#2	.00032	.00021	-.00023	.00074	.0048	.0003	.00000
#3	.00069	.00017	-.00020	.00058	.0028	-.0004	-.00000

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00037	.00836	-.00076	-.00026	-.00040	-.00015	.0002
Stddev	.00005	.00138	.00017	.00003	.00002	.00002	.0001
%RSD	14.082	16.474	22.243	13.059	5.6083	15.717	46.47
#1	.00033	.00966	-.00085	-.00023	-.00042	-.00013	.0002
#2	.00043	.00691	-.00087	-.00026	-.00038	-.00014	.0001
#3	.00034	.00852	-.00057	-.00029	-.00040	-.00017	.0003

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/27/2015 9:07:18 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00028	.00004	-.00042
Stddev	.00002	.00005	.00005
%RSD	6.6791	101.41	12.119
#1	-.00030	.00008	-.00048
#2	-.00027	-.00001	-.00040
#3	-.00027	.00006	-.00039

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29375.	18854.	394790.
Stddev	33.	171.	6140.
%RSD	.11148	.90500	1.5552
#1	29407.	18713.	388700.
#2	29377.	18806.	394700.
#3	29341.	19043.	400980.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/27/2015 9:12:04 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00090	.00491	.00046	.44356	.01168	.54806	.0061
Stddev	.00004	.00042	.00008	.00105	.00024	.00116	.0002
%RSD	4.5044	8.5539	18.242	.23572	2.0822	.21131	3.168
#1	.00088	.00453	.00044	.44392	.01163	.54700	.0059
#2	.00095	.00484	.00056	.44238	.01194	.54789	.0063
#3	.00088	.00536	.00040	.44437	.01146	.54929	.0062

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04121	.00099	.00124	.00400	.1377	.0536	.00712
Stddev	.00013	.00001	.00006	.00026	.0010	.0003	.00013
%RSD	.30902	1.3878	4.9661	6.4007	.7440	.5733	1.8961
#1	.04121	.00098	.00118	.00429	.1372	.0535	.00710
#2	.04134	.00099	.00130	.00391	.1388	.0534	.00726
#3	.04109	.00100	.00123	.00380	.1370	.0539	.00699

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01551	.27344	.02153	.00114	.00238	.00123	.0120
Stddev	.00008	.00063	.00007	.00006	.00004	.00006	.0003
%RSD	.54011	.22923	.31093	5.3666	1.6809	5.0811	2.240
#1	.01558	.27413	.02161	.00121	.00241	.00130	.0120
#2	.01542	.27330	.02152	.00110	.00233	.00122	.0123
#3	.01554	.27290	.02147	.00110	.00240	.00117	.0118

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/27/2015 9:12:04 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00077	.00545	.05878
Stddev	.00003	.00012	.00006
%RSD	3.9465	2.1875	.10805
#1	.00074	.00542	.05884
#2	.00079	.00558	.05871
#3	.00080	.00534	.05879

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29156.	18900.	399560.
Stddev	124.	258.	5760.
%RSD	.42391	1.3627	1.4415
#1	29015.	19130.	402430.
#2	29205.	18622.	392930.
#3	29248.	18948.	403320.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/27/2015 9:16:49 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00334	.01027	.00229	1.7437	.04638	2.1177	.0264
Stddev	.00004	.00013	.00007	.0029	.00016	.0025	.0002
%RSD	1.2445	1.2922	3.2171	.16362	.35486	.11870	.7581
#1	.00334	.01039	.00231	1.7429	.04619	2.1204	.0264
#2	.00329	.01013	.00236	1.7413	.04649	2.1174	.0266
#3	.00337	.01030	.00221	1.7468	.04646	2.1154	.0262

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.15941	.00329	.00564	.01326	.5356	.2079	.02815
Stddev	.00021	.00001	.00004	.00043	.0015	.0006	.00004
%RSD	.13445	.20581	.72208	3.2576	.2721	.2817	.13241
#1	.15918	.00329	.00565	.01285	.5358	.2079	.02812
#2	.15960	.00329	.00567	.01371	.5341	.2084	.02819
#3	.15946	.00328	.00559	.01322	.5370	.2073	.02813

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03037	1.0213	.08701	.00499	.01052	.00543	.0239
Stddev	.00013	.0012	.00019	.00003	.00002	.00006	.0001
%RSD	.43256	.11871	.21338	.60278	.16449	1.0288	.2633
#1	.03022	1.0220	.08689	.00500	.01051	.00543	.0239
#2	.03041	1.0221	.08692	.00501	.01054	.00549	.0239
#3	.03047	1.0199	.08722	.00495	.01051	.00538	.0238

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/27/2015 9:16:49 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00368	.02186	.23285
Stddev	.00010	.00012	.00048
%RSD	2.6739	.53981	.20526
#1	.00360	.02177	.23264
#2	.00379	.02200	.23250
#3	.00364	.02183	.23339

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28136.	18507.	380330.
Stddev	94.	204.	1330.
%RSD	.33433	1.0996	.34975
#1	28028.	18273.	378880.
#2	28198.	18611.	380630.
#3	28183.	18637.	381490.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/27/2015 9:21:33 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.05985	.42872	.15426	20.966	2.2726	5.1078	1.406
Stddev	.00060	.00126	.00039	.630	.0138	.0004	.001
%RSD	1.0062	.29282	.25284	3.0030	.60748	.00816	.0466
#1	.05980	.42889	.15390	20.259	2.2581	5.1074	1.405
#2	.05927	.42738	.15419	21.176	2.2741	5.1078	1.406
#3	.06047	.42987	.15467	21.464	2.2856	5.1083	1.406

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.9184	.73190	.71062	.73110	.9770	.5021	2.1883
Stddev	.0048	.00572	.01264	.00021	.0009	.0005	.0275
%RSD	.12214	.78199	1.7783	.02881	.0919	.1056	1.2583
#1	3.9198	.73483	.70655	.73095	.9770	.5023	2.1981
#2	3.9131	.72531	.70053	.73134	.9779	.5025	2.1573
#3	3.9223	.73557	.72480	.73102	.9761	.5015	2.2097

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.29662	2.0384	2.6964	1.2941	.12442	.04964	.2296
Stddev	.00050	.0015	.0031	.0015	.00027	.00002	.0021
%RSD	.16902	.07383	.11433	.11907	.21334	.04369	.9003
#1	.29688	2.0389	2.6985	1.2927	.12432	.04965	.2293
#2	.29604	2.0396	2.6928	1.2939	.12422	.04962	.2277
#3	.29692	2.0367	2.6978	1.2958	.12472	.04966	.2318

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/27/2015 9:21:33 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.03811	.26495	4.7699
Stddev	.00010	.00230	.0024
%RSD	.27493	.86722	.05067
#1	.03801	.26454	4.7708
#2	.03811	.26289	4.7672
#3	.03822	.26743	4.7717

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27478.	18974.	383700.
Stddev	61.	109.	4089.
%RSD	.22279	.57676	1.0656
#1	27505.	18979.	383950.
#2	27408.	19081.	387650.
#3	27521.	18862.	379490.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/27/2015 9:26:56 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09041	.22523	32.182	3.2955	2.102	6.0899	1.1012
Stddev	.00066	.00020	.176	.0303	.003	.0018	.0210
%RSD	.73308	.08842	.54777	.91917	.1571	.02907	1.9117
#1	.08966	.22532	32.122	3.2698	2.106	6.0918	1.0783
#2	.09068	.22500	32.381	3.2877	2.099	6.0884	1.1057
#3	.09091	.22537	32.044	3.3289	2.101	6.0894	1.1197

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.1342	3.3867	.45376	4.1849	2.0468	.18718	.07268
Stddev	.0103	.0402	.00026	.0031	.0021	.00012	.00009
%RSD	.90825	1.1881	.05674	.07309	.10283	.06394	.11804
#1	1.1237	3.3444	.45406	4.1883	2.0491	.18728	.07277
#2	1.1442	3.3913	.45364	4.1839	2.0450	.18705	.07267
#3	1.1348	3.4245	.45359	4.1825	2.0464	.18723	.07260

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3495	.06204	.39627	7.1121
Stddev	.0026	.00009	.00331	.0065
%RSD	.7341	.14341	.83576	.09077
#1	.3467	.06213	.39264	7.1195
#2	.3502	.06204	.39706	7.1078
#3	.3516	.06195	.39912	7.1089

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/27/2015 9:26:56 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27906.	18990.	392870.
Stddev	30.	223.	3045.
%RSD	.10715	1.1769	.77515
#1	27892.	18737.	396230.
#2	27885.	19159.	392080.
#3	27940.	19076.	390290.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/27/2015 9:32:22 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11670	.30603	40.759	4.3117	2.861	8.2572	1.4116
Stddev	.00093	.00082	.724	.0579	.005	.0183	.0197
%RSD	.79465	.26862	1.7772	1.3432	.1902	.22132	1.3970
#1	.11651	.30642	40.475	4.3356	2.865	8.2649	1.4010
#2	.11771	.30508	40.220	4.3539	2.854	8.2363	1.4343
#3	.11588	.30658	41.583	4.2457	2.863	8.2703	1.3995

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4757	4.2922	.61432	5.6698	2.7738	.25518	.09888
Stddev	.0141	.1096	.00114	.0099	.0072	.00022	.00023
%RSD	.95840	2.5543	.18598	.17460	.26060	.08495	.23427
#1	1.4596	4.2162	.61504	5.6778	2.7799	.25514	.09900
#2	1.4859	4.4179	.61300	5.6587	2.7658	.25498	.09862
#3	1.4818	4.2425	.61491	5.6728	2.7756	.25541	.09903

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4509	.08366	.51704	9.6007
Stddev	.0027	.00030	.00311	.0088
%RSD	.6089	.35629	.60227	.09171
#1	.4496	.08388	.51522	9.6098
#2	.4540	.08332	.52063	9.5923
#3	.4490	.08379	.51526	9.5999

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/27/2015 9:32:22 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27178.	19537.	404310.
Stddev	81.	147.	4009.
%RSD	.29779	.74992	.99157
#1	27085.	19661.	405800.
#2	27213.	19375.	399770.
#3	27235.	19573.	407370.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S06 ISM-547 Acquired: 11/27/2015 9:37:56 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2932	14.703	2.1582	2.878	1.486	5.9505
Stddev	.0034	.355	.0039	.003	.002	.0017
%RSD	.25909	2.4124	.17966	.0891	.1609	.02779
#1	1.2905	15.110	2.1558	2.879	1.485	5.9515
#2	1.2922	14.542	2.1562	2.875	1.484	5.9486
#3	1.2969	14.457	2.1627	2.879	1.489	5.9514

Int. Std.	Y_3710
Units	Cts/S
Avg	18276.
Stddev	132.
%RSD	.72261
#1	18190.
#2	18428.
#3	18210.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S07 ISM-545 Acquired: 11/27/2015 9:42:46 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.5493	29.129	4.1809	2.881
Stddev	.0064	.620	.0073	.012
%RSD	.25241	2.1286	.17574	.4284
#1	2.5534	29.174	4.1813	2.880
#2	2.5419	28.487	4.1733	2.869
#3	2.5526	29.725	4.1880	2.893

Int. Std.	Y_3710
Units	Cts/S
Avg	18556.
Stddev	51.
%RSD	.27318
#1	18600.
#2	18568.
#3	18500.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S08 ISM-546 Acquired: 11/27/2015 9:47:34 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.440	2.9885
Stddev	.009	.0183
%RSD	.5995	.61144
#1	1.431	2.9682
#2	1.441	2.9934
#3	1.448	3.0037

Int. Std.	Y_3710
Units	Cts/S
Avg	19167.
Stddev	25.
%RSD	.12975
#1	19139.
#2	19182.
#3	19182.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S09 ISM-541 Acquired: 11/27/2015 9:52:17 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	7.3982
Stddev	.0173
%RSD	.23386
#1	7.3807
#2	7.3987
#3	7.4153

Int. Std.	Y_3710
Units	Cts/S
Avg	19511.
Stddev	77.
%RSD	.39259
#1	19526.
#2	19579.
#3	19428.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S10 ISM-542 Acquired: 11/27/2015 9:57:04 Type: Cal
Method: CLP ISM Method ICP5 A(v20) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2719
Stddev	.0044
%RSD	1.616
#1	.2769
#2	.2705
#3	.2685
Int. Std.	Y_3710
Units	Cts/S
Avg	19363.
Stddev	261.
%RSD	1.3496
#1	19087.
#2	19395.
#3	19607.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/27/2015 10:01:58 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV047

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	482.81	2644.5	976.53	490.75	512.35	10157.	468.7
Stddev	4.22	26.2	1.11	1.70	5.86	15.	.5
%RSD	.87372	.99008	.11318	.34627	1.1432	.14627	.1056
#1	483.15	2647.3	975.58	489.19	506.91	10142.	468.4
#2	486.84	2669.1	976.26	490.51	518.55	10171.	468.4
#3	478.43	2617.0	977.74	492.56	511.61	10159.	469.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	474.82	479.42	494.31	5064.3	9751.	6160.	505.28
Stddev	.82	2.69	4.00	6.8	83.	13.	3.66
%RSD	.17309	.56010	.80828	.13401	.8532	.2155	.72386
#1	474.53	479.02	493.76	5062.0	9820.	6174.	505.70
#2	474.18	482.28	498.55	5059.0	9774.	6157.	508.72
#3	475.75	476.96	490.62	5072.0	9659.	6148.	501.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/27/2015 10:01:58 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV047

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08413	10267.	476.10	910.86	951.84	959.75	-.4991
Stddev	.09100	21.	.56	3.51	2.75	1.73	.1247
%RSD	108.17	.20855	.11734	.38554	.28864	.18027	24.98
#1	.18893	10242.	475.96	909.55	953.00	960.44	-.5193
#2	.03840	10278.	475.62	908.18	948.71	957.78	-.6125
#3	.02507	10279.	476.71	914.83	953.83	961.02	-.3656
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	964.14	494.77	974.72
Stddev	3.95	3.85	1.34
%RSD	.40958	.77817	.13710
#1	960.41	495.38	973.86
#2	963.73	498.28	974.05
#3	968.28	490.65	976.26
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/27/2015 10:01:58 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV047

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29001.	19761.	404310.
Stddev	189.	163.	2004.
%RSD	.65102	.82647	.49559
#1	29182.	19864.	403810.
#2	29014.	19846.	402590.
#3	28806.	19573.	406510.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/27/2015 10:06:47 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB048

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2177	-33.041	-1.7379	.66167	.01021	-5.0799	.2441
Stddev	.4534	56.979	1.3155	.15347	.00982	1.0558	.1121
%RSD	37.235	172.45	75.699	23.195	96.157	20.784	45.94
#1	-.69456	-6.8090	-3.0478	.65973	.02007	-6.0400	.1307
#2	-1.4971	6.0973	-.41681	.81610	.00043	-3.9492	.2468
#3	-1.4615	-98.411	-1.7490	.50917	.01013	-5.2506	.3549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08428	-.08006	.69729	5.9642	-124.3	15.37	.10533
Stddev	.13087	.17603	.34955	5.8160	46.9	10.99	.08251
%RSD	155.28	219.86	50.130	97.515	37.70	71.53	78.336
#1	-.07953	-.22480	.84367	6.0496	-154.9	7.911	.19846
#2	-.21745	.11589	.29835	.10595	-147.7	27.99	.04132
#3	.04415	-.13129	.94984	11.737	-70.37	10.20	.07622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/27/2015 10:06:47 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB048

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31862	33.526	.14111	-1.1299	-1.4581	-.57343	-.4303
Stddev	.12440	5.108	.19604	1.0368	1.5495	.85006	.1542
%RSD	39.042	15.236	138.93	91.763	106.27	148.24	35.82
#1	.39276	35.695	-.08449	-1.5966	-.14260	-.59654	-.5595
#2	.17501	37.192	.23777	.05826	-1.0654	-1.4117	-.2597
#3	.38810	27.691	.27004	-1.8513	-3.1662	.28795	-.4718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.54073	.19583	-.05139
Stddev	1.4232	.29553	.05513
%RSD	263.20	150.91	107.29
#1	-1.0970	.53320	-.00819
#2	1.4772	-.01724	-.03249
#3	1.2421	.07152	-.11348
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/27/2015 10:06:47 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB048

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29753.	19870.	404270.
Stddev	116.	131.	4700.
%RSD	.39039	.65880	1.1626
#1	29698.	19997.	409080.
#2	29675.	19735.	399680.
#3	29886.	19877.	404060.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/27/2015 10:11:36 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35322	279950.	-5.6009	8.8004	.19203	262700.	1.324
Stddev	.16656	184.	.6839	.2650	.01019	7595.	.171
%RSD	47.154	.06589	12.211	3.0114	5.3053	2.8914	12.92
#1	-.54336	279770.	-5.2897	8.6017	.18402	254690.	1.323
#2	-.28311	280140.	-5.1278	9.1013	.18858	263590.	1.153
#3	-.23317	279940.	-6.3851	8.6982	.20350	269800.	1.495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.82396	61.725	-.64591	107670.	163.9	282300.	19.335
Stddev	.18083	1.785	.61860	241.	40.2	403.	.520
%RSD	21.947	2.8915	95.772	.22382	24.54	.1426	2.6899
#1	-.64681	60.462	.06392	107660.	205.8	282000.	19.001
#2	-1.0083	60.947	-.93178	107920.	125.6	282700.	19.069
#3	-.81681	63.767	-1.0699	107440.	160.2	282000.	19.934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/27/2015 10:11:36 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2661	92.762	7.5503	6.1114	4.1978	-2.3069	3.439
Stddev	.3124	8.350	.3594	1.0736	.9385	1.1458	.151
%RSD	13.786	9.0017	4.7596	17.566	22.356	49.667	4.378
#1	2.4409	91.766	7.1705	6.6455	4.0962	-1.6950	3.352
#2	2.4520	101.57	7.5955	6.8132	5.1829	-1.5971	3.352
#3	1.9054	84.955	7.8850	4.8756	3.3142	-3.6288	3.613
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.0209	2.0380	1.4618
Stddev	1.3781	.2403	.0375
%RSD	68.193	11.791	2.5682
#1	-3.0558	2.0130	1.4314
#2	-2.5503	1.8112	1.5038
#3	-.45658	2.2898	1.4503
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/27/2015 10:11:36 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27414.	19816.	372670.
Stddev	18.	82.	8366.
%RSD	.06467	.41449	2.2448
#1	27427.	19732.	379140.
#2	27394.	19819.	375660.
#3	27421.	19896.	363220.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/27/2015 10:16:27 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	200.93	254640.	90.797	505.43	555.98	240460.	965.4
Stddev	.52	1061.	1.377	2.40	4.75	3224.	1.7
%RSD	.25931	.41682	1.5166	.47439	.85419	1.3407	.1806
#1	200.98	253540.	89.781	503.16	551.15	236980.	966.7
#2	201.43	254710.	90.246	505.20	556.13	241060.	963.4
#3	200.39	255660.	92.364	507.94	560.64	243350.	966.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	453.30	539.58	502.78	97582.	113.3	255800.	529.61
Stddev	.64	.29	.77	258.	37.3	922.	.15
%RSD	.14084	.05405	.15287	.26452	32.93	.3606	.02745
#1	453.52	539.25	503.67	97336.	101.3	254700.	529.55
#2	452.58	539.70	502.29	97559.	155.1	256400.	529.78
#3	453.80	539.80	502.38	97851.	83.39	256200.	529.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/27/2015 10:16:27 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9585	141.87	903.74	47.387	570.63	47.034	2.866
Stddev	.0603	12.78	.54	.857	1.88	.943	.063
%RSD	3.0775	9.0106	.06024	1.8086	.32899	2.0058	2.199
#1	1.8918	138.53	903.55	48.005	572.77	47.143	2.893
#2	2.0092	131.09	903.32	46.409	569.88	47.918	2.910
#3	1.9743	155.99	904.36	47.747	569.25	46.040	2.793
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	87.710	499.49	942.69
Stddev	2.020	.57	1.51
%RSD	2.3027	.11397	.16067
#1	89.094	498.95	943.61
#2	88.644	500.08	940.95
#3	85.393	499.43	943.53
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/27/2015 10:16:27 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27223.	19217.	366210.
Stddev	190.	139.	1049.
%RSD	.69749	.72318	.28652
#1	27130.	19339.	365480.
#2	27442.	19066.	367420.
#3	27099.	19247.	365740.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/27/2015 10:21:25 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV049

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	732.11	50706.	2457.8	9901.4	1060.3	50300.	973.1
Stddev	8.80	101.	1.2	253.9	6.5	92.	.9
%RSD	1.2023	.19838	.05046	2.5646	.60957	.18293	.0877
#1	726.86	50609.	2457.8	9697.7	1064.5	50243.	973.8
#2	742.27	50809.	2459.1	9820.6	1063.6	50250.	973.3
#3	727.19	50700.	2456.6	10186.	1052.9	50406.	972.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4760.7	9716.0	12319.	24961.	36450.	50490.	4957.1
Stddev	5.8	172.9	8.	57.	122.	66.	57.3
%RSD	.12190	1.7794	.06682	.22853	.3342	.1301	1.1558
#1	4767.4	9852.1	12310.	24899.	36330.	50410.	4927.2
#2	4758.3	9774.4	12325.	24973.	36430.	50510.	5023.2
#3	4756.5	9521.5	12323.	25011.	36580.	50540.	4921.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/27/2015 10:21:25 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV049

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	967.32	25247.	4718.2	9227.0	2451.8	1225.1	981.9
Stddev	1.19	64.	5.6	4.2	2.0	1.3	13.2
%RSD	.12270	.25241	.11818	.04517	.08026	.10897	1.340
#1	968.46	25217.	4724.6	9231.6	2453.8	1224.5	975.8
#2	967.41	25205.	4715.6	9223.5	2449.9	1226.6	997.0
#3	966.09	25320.	4714.3	9225.9	2451.6	1224.1	972.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	917.64	2513.8	4854.3
Stddev	1.38	35.0	7.9
%RSD	.15090	1.3923	.16185
#1	919.23	2496.0	4863.4
#2	916.68	2554.1	4849.5
#3	917.02	2491.3	4850.0
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/27/2015 10:21:25 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV049

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27929.	19578.	388400.
Stddev	70.	107.	3887.
%RSD	.25178	.54406	1.0007
#1	27968.	19643.	388570.
#2	27971.	19636.	384430.
#3	27848.	19455.	392200.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/27/2015 10:26:47 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB049

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1255	-50.785	-1.2835	.50665	.01735	-7.2360	.0041
Stddev	.5655	22.186	.5234	.46557	.01169	2.9075	.1971
%RSD	50.239	43.686	40.778	91.892	67.372	40.181	4800.
#1	-.55482	-74.533	-1.8405	.92351	.00686	-8.1491	.1797
#2	-1.6856	-30.590	-1.2081	.59219	.01524	-3.9816	.0418
#3	-1.1362	-47.232	-.80195	.00424	.02996	-9.5773	-.2091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07328	.19995	.95008	-.21978	-126.2	-7.394	.14256
Stddev	.09246	.38610	.61416	6.3545	38.9	27.88	.05759
%RSD	126.17	193.10	64.643	2891.3	30.85	377.1	40.398
#1	-.00911	.25889	1.0957	.23738	-120.8	7.753	.20728
#2	-.17927	.55320	1.4784	-6.7905	-167.6	9.637	.12344
#3	-.03148	-.21223	.27620	5.8938	-90.28	-39.57	.09696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/27/2015 10:26:47 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB049

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2414	17.502	.43457	.12744	-.36022	-.56130	-.4814
Stddev	.0665	21.407	.38049	1.7969	1.5622	.32985	.0239
%RSD	5.3562	122.32	87.556	1410.0	433.68	58.765	4.954
#1	1.3132	16.325	.13615	-.18165	-2.0497	-.45618	-.4559
#2	1.2290	39.473	.30453	2.0588	-.06297	-.29681	-.4851
#3	1.1819	-3.2934	.86303	-1.4948	1.0320	-.93089	-.5032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.71563	.25306	.07250
Stddev	.88417	.12336	.02998
%RSD	123.55	48.747	41.355
#1	1.2759	.20698	.10019
#2	-.30365	.15938	.07665
#3	1.1747	.39283	.04066
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/27/2015 10:26:47 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB049

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29943.	19617.	414890.
Stddev	69.	180.	2037.
%RSD	.23017	.91928	.49097
#1	29925.	19823.	412980.
#2	30020.	19539.	414660.
#3	29886.	19489.	417030.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ90333-001 Acquired: 11/27/2015 10:31:34 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0811	7.0396	-.35565	.89597	.00343	110.22	-.0162
Stddev	.2481	51.183	1.3046	.62652	.01359	1.17	.1083
%RSD	22.948	727.06	366.83	69.927	395.91	1.0642	670.2
#1	-1.0327	-50.260	-1.8501	1.4275	-.01204	111.56	-.1053
#2	-1.3498	23.149	.55638	1.0552	.01344	109.69	.1044
#3	-.86078	48.229	.22672	.20520	.00890	109.40	-.0476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10724	-.08653	2.1487	11.276	-111.7	4.285	.13641
Stddev	.11985	.05495	1.1833	4.494	16.0	9.367	.01926
%RSD	111.76	63.501	55.072	39.854	14.30	218.6	14.120
#1	-.23469	-.02490	1.5528	14.807	-93.25	10.31	.14705
#2	.00319	-.10427	1.3818	12.804	-120.6	9.052	.14800
#3	-.09022	-.13041	3.5115	6.2172	-121.2	-6.506	.11417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ90333-001 Acquired: 11/27/2015 10:31:34 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58610	37.179	.55347	.10164	-1.7377	1.2521	-.4375
Stddev	.31583	11.592	.22279	.17458	.7585	.2668	.2197
%RSD	53.887	31.178	40.254	171.76	43.648	21.307	50.23
#1	.95020	31.150	.74807	.28631	-.86203	1.1667	-.4934
#2	.42199	29.844	.60189	.07932	-2.1628	1.5512	-.6239
#3	.38610	50.542	.31045	-.06071	-2.1884	1.0385	-.1952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.07720	.36529	1.0097
Stddev	.09410	.30790	.0586
%RSD	121.90	84.290	5.8007
#1	-.10847	.43932	.98045
#2	.02856	.02712	1.0771
#3	-.15169	.62943	.97143
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ90333-001 Acquired: 11/27/2015 10:31:34 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30449.	20627.	425290.
Stddev	66.	234.	603.
%RSD	.21645	1.1341	.14173
#1	30506.	20358.	425180.
#2	30463.	20738.	424750.
#3	30377.	20784.	425940.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ90333-002 Acquired: 11/27/2015 10:36:21 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.639	405.24	18.723	393.09	10.536	10355.	9.502
Stddev	.648	11.03	.206	1.43	.084	32.	.065
%RSD	3.4787	2.7223	1.1026	.36438	.79798	.30532	.6813
#1	17.897	408.13	18.852	391.89	10.458	10324.	9.519
#2	19.092	414.53	18.485	392.70	10.625	10353.	9.557
#3	18.929	393.05	18.832	394.68	10.526	10387.	9.431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.739	19.917	53.605	213.49	9806.	10400.	31.134
Stddev	.189	.320	.714	7.59	59.	71.	.287
%RSD	.19363	1.6042	1.3327	3.5534	.6008	.6835	.92166
#1	97.954	19.959	53.883	205.69	9742.	10330.	30.873
#2	97.664	20.214	54.138	213.95	9818.	10400.	31.441
#3	97.599	19.579	52.793	220.84	9858.	10470.	31.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ90333-002 Acquired: 11/27/2015 10:36:21 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.50020	10425.	77.299	18.435	114.84	66.209	-.1989
Stddev	.27292	33.	.331	1.483	2.05	.662	.1388
%RSD	54.562	.31256	.42821	8.0439	1.7866	.99979	69.78
#1	.19109	10388.	77.648	19.288	116.68	65.860	-.2438
#2	.70790	10441.	77.260	19.293	115.23	66.973	-.0432
#3	.60160	10447.	76.990	16.722	112.63	65.795	-.3097
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	48.051	100.37	118.92
Stddev	.694	.91	.18
%RSD	1.4433	.90593	.14869
#1	47.303	99.490	119.04
#2	48.178	101.31	119.01
#3	48.673	100.32	118.72
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ90333-002 Acquired: 11/27/2015 10:36:21 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29153.	19968.	403670.
Stddev	26.	128.	3066.
%RSD	.09009	.64175	.75940
#1	29142.	20009.	405850.
#2	29184.	19824.	400170.
#3	29135.	20070.	405000.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001 Acquired: 11/27/2015 10:41:06 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.59509	107060.	27.072	561.37	4.3119	65027.
Stddev	.06357	2908.	.764	15.60	.0293	1946.
%RSD	10.683	2.7160	2.8238	2.7796	.67962	2.9931
#1	-.53510	110030.	26.211	577.22	4.2970	66936.
#2	-.66173	106940.	27.672	560.87	4.3456	65101.
#3	-.58846	104210.	27.332	546.03	4.2930	63045.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.024	64.013	118.72	228.66	F 157660.	9302.
Stddev	.152	.234	.75	2.00	4629.	244.
%RSD	5.028	.36588	.63060	.87265	2.9359	2.626
#1	2.999	63.908	119.09	229.37	162310.	9560.
#2	3.186	63.851	119.21	230.20	157620.	9272.
#3	2.885	64.282	117.86	226.41	153050.	9074.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001 Acquired: 11/27/2015 10:41:06 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39610.	3668.1	1.9132	795.43	143.02	307.65
Stddev	1239.	35.9	.2220	32.20	.22	2.76
%RSD	3.128	.97817	11.601	4.0474	.15252	.89729
#1	40860.	3685.1	1.6580	828.58	143.27	305.46
#2	39580.	3692.4	2.0617	793.43	142.93	306.74
#3	38390.	3626.9	2.0199	764.28	142.86	310.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10724	6.2307	619.2	3.8298	136.79	831.27
Stddev	1.8766	2.0123	4.6	.7234	.61	.50
%RSD	1749.9	32.296	.7455	18.890	.44385	.06012
#1	2.2437	8.0766	617.3	3.0915	136.58	830.83
#2	-.64765	4.0856	624.4	4.5374	137.47	831.18
#3	-1.2743	6.5300	615.8	3.8604	136.31	831.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001 Acquired: 11/27/2015 10:41:06 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30504.	22098.	418880.
Stddev	62.	738.	1206.
%RSD	.20373	3.3412	.28801
#1	30574.	21338.	420250.
#2	30484.	22143.	417980.
#3	30455.	22813.	418400.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.84%	117.21%	106.10%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001L(5) Acquired: 11/27/2015 10:45:58 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1478	22658.	4.9313	118.23	.88739	13728.	.7507
Stddev	.3810	80.	1.0022	.20	.02040	25.	.0306
%RSD	33.190	.35091	20.323	.16540	2.2992	.17987	4.073
#1	-1.2579	22577.	4.6132	118.24	.88805	13699.	.7194
#2	-.72389	22736.	6.0539	118.03	.90746	13741.	.7805
#3	-1.4615	22661.	4.1268	118.42	.86667	13743.	.7523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.600	25.265	48.335	33631.	1766.	8465.	792.11
Stddev	.140	.592	.063	57.	24.	68.	9.43
%RSD	1.0295	2.3444	.13102	.17032	1.378	.8065	1.1910
#1	13.496	25.421	48.304	33571.	1789.	8397.	797.95
#2	13.543	25.764	48.292	33685.	1768.	8534.	797.16
#3	13.759	24.611	48.407	33636.	1740.	8464.	781.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001L(5) Acquired: 11/27/2015 10:45:58 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.66045	168.93	30.188	65.331	-2.0352	.66660	123.3
Stddev	.21789	20.36	.104	.393	1.7941	1.0103	1.3
%RSD	32.991	12.051	.34518	.60091	88.156	151.56	1.088
#1	.84666	150.77	30.247	65.758	-1.5697	1.4255	122.1
#2	.71386	165.09	30.068	64.985	-4.0161	-.48017	123.0
#3	.42082	190.93	30.249	65.251	-.51965	1.0544	124.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0715	28.586	173.39
Stddev	1.1502	.339	.48
%RSD	107.34	1.1849	.27694
#1	2.1855	28.957	173.02
#2	1.1408	28.510	173.22
#3	-.11173	28.293	173.94
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001L(5) Acquired: 11/27/2015 10:45:58 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30143.	20880.	405830.
Stddev	57.	122.	5117.
%RSD	.18773	.58348	1.2610
#1	30123.	20965.	402450.
#2	30100.	20741.	403320.
#3	30207.	20935.	411720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.62%	110.75%	102.80%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001DU Acquired: 11/27/2015 10:50:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.77955	86094.	23.729	463.49	3.3850	50888.	2.225
Stddev	.15157	224.	1.209	2.17	.0512	202.	.146
%RSD	19.443	.26023	5.0950	.46907	1.5120	.39713	6.559
#1	-.77140	85949.	22.349	461.65	3.4098	50673.	2.375
#2	-.63222	86352.	24.601	465.89	3.4191	51074.	2.083
#3	-.93503	85980.	24.237	462.93	3.3262	50916.	2.217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.782	92.352	172.51	138700.	7901.	31550.	3442.8
Stddev	.409	1.386	2.51	473.	8.	144.	44.3
%RSD	.69625	1.5003	1.4541	.34136	.1066	.4564	1.2868
#1	58.799	92.156	172.68	138170.	7892.	31390.	3448.3
#2	58.364	93.825	174.93	139080.	7909.	31670.	3484.1
#3	59.182	91.074	169.92	138850.	7901.	31590.	3396.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001DU Acquired: 11/27/2015 10:50:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7486	571.29	113.66	233.75	.57923	3.8708	264.6
Stddev	.1339	12.78	.41	.65	.87414	1.1881	8.4
%RSD	7.6596	2.2363	.36186	.27962	150.91	30.693	3.182
#1	1.6081	556.59	113.58	233.05	-.37459	3.7874	262.7
#2	1.8748	579.71	113.30	234.35	1.3421	2.7266	273.8
#3	1.7631	577.56	114.11	233.83	.77014	5.0984	257.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.4578	112.07	639.31
Stddev	1.3177	1.68	.24
%RSD	38.110	1.4959	.03738
#1	1.9657	112.34	639.13
#2	4.4621	113.60	639.23
#3	3.9456	110.28	639.58
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001DU Acquired: 11/27/2015 10:50:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30776.	21821.	429250.
Stddev	77.	86.	4963.
%RSD	.24868	.39342	1.1562
#1	30864.	21833.	430790.
#2	30738.	21730.	423690.
#3	30726.	21901.	433250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.77%	115.74%	108.73%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001MS Acquired: 11/27/2015 10:55:34 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	89.413	95428.	94.758	4198.4	105.80	57813.	89.75
Stddev	.895	118.	.476	6.5	.42	94.	.32
%RSD	1.0012	.12339	.50252	.15367	.39493	.16279	.3613
#1	89.071	95564.	94.512	4197.2	105.37	57913.	89.39
#2	88.738	95364.	94.454	4192.6	105.81	57799.	90.02
#3	90.428	95355.	95.306	4205.3	106.21	57726.	89.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	942.82	468.14	679.70	144240.	7912.	35670.	4317.9
Stddev	.70	2.75	2.10	203.	79.	131.	61.9
%RSD	.07417	.58849	.30955	.14096	.9996	.3684	1.4344
#1	942.08	465.86	677.29	144410.	7854.	35770.	4286.4
#2	942.90	467.35	680.63	144290.	8002.	35720.	4278.0
#3	943.48	471.20	681.18	144020.	7880.	35520.	4389.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001MS Acquired: 11/27/2015 10:55:34 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4232	614.65	994.54	300.76	37.614	174.37	266.4
Stddev	.3353	14.53	1.02	.76	1.083	1.48	3.5
%RSD	23.563	2.3634	.10289	.25373	2.8797	.84999	1.327
#1	1.2921	605.47	993.46	300.04	36.782	172.70	266.2
#2	1.1731	607.08	994.66	300.70	38.839	175.53	263.0
#3	1.8042	631.40	995.49	301.56	37.222	174.87	270.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	91.838	1043.1	1626.4
Stddev	.865	4.4	1.1
%RSD	.94230	.42322	.06885
#1	91.877	1039.4	1625.7
#2	92.684	1041.8	1625.7
#3	90.954	1048.0	1627.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001MS Acquired: 11/27/2015 10:55:34 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30276.	21309.	417040.
Stddev	18.	331.	2017.
%RSD	.05862	1.5543	.48359
#1	30258.	21139.	418100.
#2	30294.	21097.	418300.
#3	30277.	21690.	414710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.07%	113.02%	105.64%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001A Acquired: 11/27/2015 11:00:24 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.469	106100.	44.440	929.66	14.436	74261.
Stddev	.147	401.	.384	1.67	.087	55.
%RSD	.79498	.37792	.86424	.17991	.60514	.07472
#1	18.431	105660.	44.874	929.95	14.383	74216.
#2	18.631	106200.	44.146	931.17	14.389	74323.
#3	18.345	106450.	44.298	927.86	14.537	74245.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.70	149.55	133.11	265.41	F 157570.	18530.
Stddev	.11	.27	.58	1.03	24.	20.
%RSD	.9028	.18101	.43392	.38950	.01528	.1099
#1	11.58	149.69	132.64	264.69	157550.	18550.
#2	11.78	149.24	132.94	264.94	157560.	18500.
#3	11.73	149.73	133.75	266.59	157600.	18530.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001A Acquired: 11/27/2015 11:00:24 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48680.	3557.9	1.5894	10656.	206.70	308.17
Stddev	67.	43.8	.0799	18.	.78	.52
%RSD	.1372	1.2306	5.0259	.17188	.37857	.16962
#1	48650.	3526.0	1.5041	10665.	206.87	307.58
#2	48630.	3539.8	1.6017	10668.	205.85	308.32
#3	48750.	3607.8	1.6624	10635.	207.39	308.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	109.93	69.060	571.8	44.385	226.62	904.54
Stddev	1.28	1.130	3.6	.348	1.35	1.53
%RSD	1.1620	1.6358	.6350	.78491	.59671	.16909
#1	110.99	70.163	571.1	44.176	225.81	905.28
#2	110.28	69.111	575.7	44.193	225.86	902.78
#3	108.51	67.905	568.5	44.788	228.18	905.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001A Acquired: 11/27/2015 11:00:24 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30526.	21283.	416850.
Stddev	148.	280.	1590.
%RSD	.48330	1.3136	.38139
#1	30646.	21573.	416920.
#2	30571.	21015.	418400.
#3	30362.	21261.	415220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.92%	112.88%	105.59%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-002 Acquired: 11/27/2015 11:05:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.6791	88702.	22.552	293.58	3.8637	16102.
Stddev	.4285	231.	.315	.64	.0585	4.
%RSD	25.520	.26047	1.3960	.21696	1.5150	.02745
#1	-2.0659	88483.	22.512	293.11	3.8597	16098.
#2	-1.2185	88680.	22.260	294.31	3.8072	16100.
#3	-1.7529	88943.	22.886	293.33	3.9241	16107.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6118	58.545	110.34	110.24	F 153810.	10640.
Stddev	.0981	.184	1.77	1.84	33.	67.
%RSD	16.04	.31360	1.6015	1.6700	.02143	.6312
#1	.6540	58.757	110.17	110.76	153830.	10560.
#2	.4997	58.432	108.67	108.19	153830.	10670.
#3	.6819	58.446	112.19	111.76	153770.	10680.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-002 Acquired: 11/27/2015 11:05:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37310.	1819.3	3.1657	1167.6	140.83	67.451
Stddev	53.	5.1	.1525	23.3	.25	1.290
%RSD	.1413	.28236	4.8188	1.9995	.17735	1.9122
#1	37270.	1822.4	3.2980	1183.6	141.07	66.209
#2	37300.	1813.4	3.2003	1178.4	140.83	68.783
#3	37370.	1822.1	2.9988	1140.8	140.57	67.360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.4358	1.4544	375.3	1.2711	126.33	409.78
Stddev	2.3699	1.0159	4.7	.6505	1.86	.78
%RSD	165.07	69.848	1.257	51.180	1.4698	.19044
#1	-2.3988	.34536	374.2	2.0161	126.07	410.65
#2	-3.1726	1.6780	371.2	.81581	124.62	409.14
#3	1.2641	2.3398	380.4	.98124	128.30	409.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-002 Acquired: 11/27/2015 11:05:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30845.	21462.	419740.
Stddev	17.	251.	6334.
%RSD	.05592	1.1687	1.5091
#1	30862.	21586.	423040.
#2	30828.	21627.	423750.
#3	30845.	21173.	412440.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.00%	113.83%	106.32%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-003 Acquired: 11/27/2015 11:10:03 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0772	103920.	42.657	299.32	5.6341	11971.
Stddev	.1998	423.	.603	1.56	.0900	76.
%RSD	18.543	.40701	1.4137	.52104	1.5975	.63302
#1	-.84735	103440.	41.964	297.72	5.7349	11889.
#2	-1.2085	104160.	43.066	300.84	5.5618	11986.
#3	-1.1759	104180.	42.939	299.39	5.6055	12038.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3487	85.444	145.73	141.16	F 219970.	9403.
Stddev	.1445	.300	1.95	2.53	1303.	29.
%RSD	41.44	.35104	1.3400	1.7925	.59211	.3041
#1	.2145	85.781	147.68	144.01	218500.	9376.
#2	.3298	85.345	143.77	139.18	220430.	9399.
#3	.5017	85.207	145.73	140.31	220980.	9433.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-003 Acquired: 11/27/2015 11:10:03 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46370.	2190.2	3.9872	805.72	193.25	114.34
Stddev	367.	44.3	.1157	15.69	.32	.29
%RSD	.7917	2.0231	2.9008	1.9469	.16523	.25349
#1	45970.	2217.7	4.0352	804.31	193.58	114.66
#2	46430.	2139.1	4.0712	822.07	192.95	114.27
#3	46700.	2213.9	3.8553	790.79	193.21	114.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30505	.15617	242.8	2.2181	147.53	519.94
Stddev	.73215	1.5698	3.0	.6779	1.88	.60
%RSD	240.01	1005.2	1.245	30.563	1.2723	.11633
#1	.01899	-.82570	246.2	1.8954	149.49	520.57
#2	-1.1433	-.67250	240.3	1.7619	145.75	519.87
#3	.20916	1.9667	242.0	2.9971	147.36	519.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-003 Acquired: 11/27/2015 11:10:03 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30384.	21329.	413790.
Stddev	127.	273.	4846.
%RSD	.41877	1.2786	1.1710
#1	30430.	21311.	408990.
#2	30240.	21066.	418680.
#3	30482.	21611.	413700.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.43%	113.13%	104.81%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-004 Acquired: 11/27/2015 11:14:55 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.85201	89356.	30.922	297.43	3.7007	33230.
Stddev	.20964	131.	1.149	1.01	.1017	79.
%RSD	24.605	.14634	3.7162	.34032	2.7485	.23911
#1	-.93389	89205.	31.256	298.60	3.8179	33319.
#2	-.61379	89435.	29.643	296.82	3.6354	33206.
#3	-1.0084	89427.	31.868	296.88	3.6489	33166.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7428	60.418	117.26	144.07	F 195750.	7875.
Stddev	.0819	.234	2.59	3.33	437.	37.
%RSD	11.03	.38684	2.2114	2.3102	.22317	.4687
#1	.7880	60.218	120.25	147.82	196230.	7837.
#2	.6482	60.361	115.84	141.47	195650.	7911.
#3	.7921	60.675	115.69	142.92	195370.	7875.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-004 Acquired: 11/27/2015 11:14:55 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45990.	4005.9	2.5319	835.30	161.36	85.077
Stddev	105.	122.8	.2076	4.35	.16	1.666
%RSD	.2288	3.0653	8.1992	.52099	.09793	1.9584
#1	46110.	4137.6	2.7716	833.33	161.19	83.153
#2	45950.	3894.6	2.4140	840.29	161.40	86.030
#3	45910.	3985.4	2.4102	832.28	161.50	86.048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.74670	2.5701	244.0	5.1216	126.37	516.54
Stddev	1.5626	.8882	5.9	1.6558	2.97	.81
%RSD	209.26	34.558	2.413	32.330	2.3541	.15764
#1	.67497	2.1951	250.8	6.1711	129.79	515.87
#2	-2.4197	3.5844	240.1	5.9809	124.39	516.31
#3	-.49537	1.9310	241.2	3.2128	124.93	517.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-004 Acquired: 11/27/2015 11:14:55 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30413.	20702.	414970.
Stddev	106.	185.	9920.
%RSD	.34700	.89148	2.3906
#1	30389.	20852.	404210.
#2	30528.	20496.	423760.
#3	30321.	20758.	416930.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.53%	109.80%	105.11%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-005 Acquired: 11/27/2015 11:19:48 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.86246	86926.	15.530	276.01	3.5778	15394.
Stddev	.32299	870.	.190	1.63	.0161	126.
%RSD	37.449	1.0004	1.2240	.59207	.44961	.81791
#1	-.90678	85928.	15.463	274.12	3.5833	15252.
#2	-1.1610	87328.	15.745	276.91	3.5597	15436.
#3	-.51961	87522.	15.383	276.99	3.5904	15493.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8291	63.192	112.59	133.06	F 160770.	10160.
Stddev	.1170	.220	.44	.95	1371.	67.
%RSD	14.12	.34794	.39511	.71511	.85253	.6556
#1	.9635	63.444	112.80	133.50	159220.	10100.
#2	.7502	63.035	112.08	131.97	161260.	10240.
#3	.7734	63.098	112.89	133.71	161820.	10160.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-005 Acquired: 11/27/2015 11:19:48 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38350.	1905.7	2.1134	564.86	153.56	106.46
Stddev	373.	9.7	.2945	8.66	.33	1.49
%RSD	.9725	.50800	13.936	1.5334	.21374	1.4022
#1	37920.	1915.9	1.9067	573.04	153.94	106.85
#2	38560.	1904.5	1.9829	565.75	153.33	107.73
#3	38570.	1896.7	2.4507	555.78	153.41	104.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.98386	1.4864	252.3	2.5473	115.59	589.04
Stddev	2.5075	1.9883	2.2	1.3709	.54	1.30
%RSD	254.87	133.76	.8559	53.818	.47061	.22060
#1	-1.8412	1.2473	254.0	1.7244	115.69	590.53
#2	1.8466	3.5834	249.9	4.1299	115.00	588.43
#3	2.9461	-.37149	253.2	1.7877	116.07	588.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-005 Acquired: 11/27/2015 11:19:48 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30358.	21132.	417240.
Stddev	70.	162.	3035.
%RSD	.23158	.76431	.72737
#1	30394.	21179.	417890.
#2	30277.	21265.	419900.
#3	30402.	20953.	413930.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.35%	112.08%	105.69%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-006 Acquired: 11/27/2015 11:24:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.4527	105630.	30.587	305.39	4.2470	29266.
Stddev	.3288	346.	.436	1.32	.0464	83.
%RSD	22.637	.32787	1.4257	.43151	1.0929	.28487
#1	-1.2823	105230.	30.353	303.89	4.2983	29190.
#2	-1.8317	105860.	30.318	306.38	4.2078	29355.
#3	-1.2440	105790.	31.090	305.89	4.2350	29253.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4952	69.669	130.15	171.83	F 221520.	10170.
Stddev	.0718	.164	1.86	1.84	506.	70.
%RSD	14.50	.23473	1.4304	1.0731	.22834	.6851
#1	.4977	69.843	132.13	173.90	221070.	10150.
#2	.4222	69.519	128.43	170.37	222060.	10250.
#3	.5657	69.644	129.91	171.22	221420.	10120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-006 Acquired: 11/27/2015 11:24:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51150.	3002.1	1.5116	658.97	183.08	114.46
Stddev	124.	23.5	.1666	17.28	.65	2.41
%RSD	.2422	.78415	11.018	2.6227	.35568	2.1056
#1	51010.	3028.0	1.6882	646.74	183.62	111.94
#2	51230.	2996.3	1.3573	651.42	183.28	116.74
#3	51220.	2982.0	1.4895	678.74	182.36	114.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1095	.97654	259.1	3.3227	144.77	588.19
Stddev	.8669	1.3400	1.4	1.0592	1.79	2.32
%RSD	78.130	137.22	.5413	31.879	1.2357	.39363
#1	-2.0244	2.0883	260.3	2.1431	146.33	590.59
#2	-.30031	-.51128	257.6	3.6326	142.82	588.01
#3	-1.0039	1.3526	259.2	4.1924	145.16	585.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-006 Acquired: 11/27/2015 11:24:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30239.	21226.	420720.
Stddev	90.	56.	4430.
%RSD	.29866	.26243	1.0529
#1	30152.	21165.	415910.
#2	30232.	21274.	424630.
#3	30332.	21238.	421620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.94%	112.58%	106.57%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-007 Acquired: 11/27/2015 11:29:33 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7J0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.94794	51409.	11.071	267.47	2.0462	29019.	1.251
Stddev	.52376	251.	.528	1.05	.0115	100.	.175
%RSD	55.253	.48781	4.7667	.39139	.56309	.34368	13.97
#1	-1.3789	51131.	10.479	266.68	2.0478	28927.	1.346
#2	-1.0999	51480.	11.493	267.07	2.0340	29006.	1.358
#3	-.36501	51618.	11.239	268.66	2.0569	29125.	1.049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.363	58.245	104.35	80615.	4522.	22410.	2365.1
Stddev	.146	.399	.73	243.	34.	100.	53.0
%RSD	.44977	.68566	.69703	.30110	.7597	.4450	2.2430
#1	32.459	57.786	103.55	80469.	4520.	22320.	2308.9
#2	32.434	58.430	104.95	80480.	4489.	22390.	2414.4
#3	32.196	58.517	104.56	80895.	4557.	22520.	2371.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-007 Acquired: 11/27/2015 11:29:33 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7J0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1141	534.77	70.178	105.07	.50737	1.9823	174.0
Stddev	.2788	7.91	.532	.31	1.3866	.2890	2.1
%RSD	25.027	1.4787	.75773	.29833	273.29	14.580	1.227
#1	1.0785	531.78	70.716	104.93	-.74854	1.6496	172.5
#2	.85483	543.74	70.167	105.42	.27527	2.1711	173.1
#3	1.4091	528.80	69.652	104.84	1.9954	2.1263	176.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1548	61.880	430.50
Stddev	1.9175	.126	2.12
%RSD	88.990	.20441	.49328
#1	2.6037	61.778	432.56
#2	.05261	61.840	430.63
#3	3.8080	62.021	428.32
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-007 Acquired: 11/27/2015 11:29:33 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7J0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30362.	20999.	412810.
Stddev	163.	228.	8280.
%RSD	.53818	1.0840	2.0057
#1	30242.	21015.	420860.
#2	30296.	20763.	413250.
#3	30548.	21218.	404320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.36%	111.38%	104.56%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-008 Acquired: 11/27/2015 11:34:25 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0309	56744.	11.807	297.56	2.2604	32053.	1.377
Stddev	.3000	108.	.879	1.17	.0223	79.	.102
%RSD	29.096	.19110	7.4452	.39368	.98544	.24510	7.387
#1	-.87832	56633.	12.723	297.00	2.2488	31963.	1.474
#2	-.83792	56850.	11.725	298.91	2.2861	32110.	1.271
#3	-1.3765	56748.	10.971	296.78	2.2464	32086.	1.384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.919	64.184	112.91	87433.	5135.	24650.	2383.1
Stddev	.079	.167	.48	139.	22.	83.	17.2
%RSD	.22000	.26013	.42075	.15865	.4354	.3349	.72308
#1	35.879	64.307	112.93	87272.	5129.	24560.	2388.0
#2	36.010	64.251	112.43	87510.	5160.	24720.	2363.9
#3	35.868	63.994	113.37	87515.	5117.	24680.	2397.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-008 Acquired: 11/27/2015 11:34:25 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5020	570.89	78.671	116.27	-1.3646	1.4452	165.3
Stddev	.0673	8.73	.186	.30	.4471	1.5790	1.3
%RSD	4.4799	1.5298	.23698	.25391	32.766	109.26	.7986
#1	1.5580	563.92	78.778	116.06	-1.8560	2.0056	163.8
#2	1.4273	580.69	78.779	116.61	-.98182	2.6675	166.0
#3	1.5207	568.05	78.455	116.15	-1.2558	-.33755	166.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1125	67.449	478.29
Stddev	.3577	.118	3.13
%RSD	16.932	.17502	.65397
#1	1.7381	67.398	481.25
#2	2.4507	67.364	478.61
#3	2.1487	67.583	475.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-008 Acquired: 11/27/2015 11:34:25 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30401.	20960.	420580.
Stddev	97.	61.	396.
%RSD	.31844	.29208	.09426
#1	30424.	20896.	420980.
#2	30295.	20965.	420560.
#3	30484.	21018.	420190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.49%	111.17%	106.53%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009 Acquired: 11/27/2015 11:39:17 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.51619	84016.	16.502	456.91	3.1727	54603.	1.880
Stddev	.05455	8844.	1.470	46.25	.0561	5619.	.071
%RSD	10.568	10.526	8.9109	10.122	1.7665	10.290	3.766
#1	-.57114	78809.	17.542	431.26	3.2312	51416.	1.938
#2	-.51537	94227.	14.819	510.30	3.1674	61091.	1.801
#3	-.46205	79012.	17.143	429.17	3.1195	51303.	1.901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.376	86.591	163.15	122580.	7211.	33780.	2776.0
Stddev	.135	1.190	1.84	12677.	744.	3468.	47.0
%RSD	.30484	1.3743	1.1254	10.342	10.32	10.27	1.6948
#1	44.511	87.790	165.20	115450.	6803.	31780.	2826.3
#2	44.240	86.573	161.66	137210.	8070.	37790.	2733.1
#3	44.378	85.410	162.58	115070.	6760.	31780.	2768.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009 Acquired: 11/27/2015 11:39:17 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9827	699.58	111.12	200.40	.05048	3.8069	184.4
Stddev	.1751	63.00	.44	4.48	1.0581	.7627	2.3
%RSD	8.8325	9.0050	.39230	2.2366	2096.3	20.036	1.266
#1	2.1634	648.22	111.03	203.59	-.13317	3.4552	186.7
#2	1.9707	769.87	111.60	195.28	-.90382	4.6820	184.5
#3	1.8138	680.65	110.74	202.34	1.1884	3.2835	182.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.0260	115.75	638.28
Stddev	.5998	1.29	1.61
%RSD	19.822	1.1155	.25262
#1	2.4056	117.22	640.15
#2	3.6028	115.22	637.34
#3	3.0696	114.81	637.36
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009 Acquired: 11/27/2015 11:39:17 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30684.	19805.	420000.
Stddev	130.	1621.	5138.
%RSD	.42484	8.1826	1.2234
#1	30545.	20806.	414510.
#2	30804.	17935.	420800.
#3	30702.	20674.	424700.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.46%	105.04%	106.39%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009L(5) Acquired: 11/27/2015 11:44:08 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B9L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.98601	17095.	1.8593	92.238	.65855	10629.	.4393
Stddev	.24462	75.	.4232	.217	.00925	51.	.2402
%RSD	24.809	.43587	22.760	.23567	1.4053	.47601	54.67
#1	-1.2205	17032.	1.4654	92.040	.64935	10572.	.6365
#2	-1.0052	17076.	2.3067	92.202	.66786	10647.	.5095
#3	-.73236	17177.	1.8057	92.471	.65845	10668.	.1719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.5313	18.585	35.238	23986.	1390.	6684.	590.57
Stddev	.2410	.260	.225	93.	35.	61.	4.29
%RSD	2.5287	1.4016	.63782	.38688	2.530	.9104	.72697
#1	9.6983	18.299	35.196	23879.	1356.	6619.	585.62
#2	9.2550	18.809	35.481	24049.	1426.	6693.	593.18
#3	9.6406	18.648	35.037	24030.	1387.	6740.	592.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009L(5) Acquired: 11/27/2015 11:44:08 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B9L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.61501	161.38	24.123	45.717	-1.3366	1.1482	78.39
Stddev	.18346	5.15	.251	.514	.9726	1.4181	4.69
%RSD	29.831	3.1928	1.0420	1.1235	72.764	123.51	5.986
#1	.76085	165.41	23.838	45.249	-1.9764	-.33489	72.98
#2	.40902	155.58	24.311	45.635	-1.8162	2.4910	81.29
#3	.67517	163.16	24.222	46.267	-.21740	1.2884	80.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.81929	25.216	137.24
Stddev	.71640	.330	.14
%RSD	87.442	1.3076	.10228
#1	1.5645	24.848	137.25
#2	.13565	25.319	137.38
#3	.75774	25.483	137.10
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009L(5) Acquired: 11/27/2015 11:44:08 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B9L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29935.	20154.	416990.
Stddev	82.	68.	2325.
%RSD	.27450	.33952	.55749
#1	29997.	20143.	419660.
#2	29842.	20227.	415950.
#3	29966.	20091.	415380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.91%	106.89%	105.62%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009DU Acquired: 11/27/2015 11:48:52 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19064	77293.	15.326	418.63	3.1511	50190.	2.062
Stddev	.21367	347.	1.488	1.59	.0393	199.	.282
%RSD	112.08	.44955	9.7096	.38015	1.2477	.39585	13.66
#1	-.11103	77047.	14.693	417.02	3.1311	50067.	2.387
#2	-.02821	77141.	17.026	418.66	3.1964	50084.	1.908
#3	-.43269	77690.	14.260	420.20	3.1258	50419.	1.891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.791	85.821	161.27	112290.	6742.	30540.	2891.2
Stddev	.209	.925	1.72	406.	15.	74.	4.4
%RSD	.47624	1.0773	1.0695	.36160	.2193	.2419	.15326
#1	44.011	85.445	161.01	112110.	6727.	30510.	2895.2
#2	43.766	86.874	163.11	112010.	6756.	30490.	2891.9
#3	43.596	85.144	159.70	112760.	6744.	30620.	2886.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009DU Acquired: 11/27/2015 11:48:52 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8672	644.71	109.42	196.85	-.10625	3.9751	188.7
Stddev	.2145	26.41	.26	1.59	2.0368	.4311	1.8
%RSD	11.487	4.0965	.23398	.80786	1917.0	10.845	.9651
#1	1.7849	614.62	109.71	198.56	1.8484	3.5069	188.5
#2	1.7060	655.45	109.32	196.56	.04909	4.3557	190.6
#3	2.1106	664.06	109.23	195.42	-2.2163	4.0627	186.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.6515	115.73	621.81
Stddev	.6010	1.66	2.43
%RSD	16.460	1.4380	.39088
#1	3.2367	114.87	624.58
#2	4.3408	117.64	620.82
#3	3.3771	114.66	620.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009DU Acquired: 11/27/2015 11:48:52 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30465.	20927.	414430.
Stddev	90.	145.	4006.
%RSD	.29544	.69178	.96661
#1	30383.	20977.	416900.
#2	30449.	20763.	409810.
#3	30561.	21039.	416580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.71%	110.99%	104.97%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009MS Acquired: 11/27/2015 11:53:44 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.663	81737.	90.018	4130.0	109.13	54233.	91.46
Stddev	1.273	5930.	.882	294.8	1.42	3867.	.15
%RSD	1.3742	7.2546	.97926	7.1383	1.2980	7.1302	.1692
#1	93.561	84783.	89.977	4282.7	110.10	56136.	91.41
#2	93.222	74904.	90.919	3790.1	109.78	49783.	91.64
#3	91.206	85526.	89.157	4317.1	107.51	56779.	91.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	962.14	469.07	678.78	119760.	6998.	32860.	4098.0
Stddev	1.99	7.06	8.23	8684.	463.	2359.	67.3
%RSD	.20646	1.5058	1.2126	7.2510	6.616	7.177	1.6424
#1	964.41	474.02	683.95	123940.	7253.	33940.	4111.4
#2	961.26	472.20	683.11	109770.	6463.	30160.	4157.6
#3	960.75	460.98	669.29	125550.	7277.	34490.	4025.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009MS Acquired: 11/27/2015 11:53:44 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9125	681.52	1012.2	254.97	36.174	178.70	236.0
Stddev	.2091	46.09	2.8	2.75	2.033	1.91	4.5
%RSD	10.932	6.7621	.27310	1.0785	5.6190	1.0701	1.890
#1	2.0730	696.86	1015.4	254.18	38.240	177.75	239.3
#2	1.9884	629.72	1010.2	258.03	36.106	180.90	237.7
#3	1.6761	717.97	1011.1	252.71	34.177	177.45	230.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	94.670	1081.0	1615.9
Stddev	.441	13.7	3.8
%RSD	.46532	1.2703	.23700
#1	94.730	1090.0	1620.3
#2	94.203	1087.8	1614.2
#3	95.078	1065.2	1613.3
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009MS Acquired: 11/27/2015 11:53:44 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B9S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30513.	21862.	417700.
Stddev	102.	1379.	4643.
%RSD	.33500	6.3091	1.1115
#1	30402.	21145.	414010.
#2	30533.	23452.	416180.
#3	30603.	20989.	422910.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.87%	115.96%	105.80%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009A Acquired: 11/27/2015 11:58:35 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B9A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.780	77509.	34.668	771.78	13.443	58933.	11.02
Stddev	.407	231.	.456	2.55	.333	184.	.14
%RSD	2.2910	.29749	1.3160	.33002	2.4773	.31270	1.262
#1	17.492	77317.	34.645	769.69	13.111	58775.	11.00
#2	18.246	77446.	35.136	771.02	13.441	58890.	11.16
#3	17.603	77765.	34.225	774.62	13.777	59136.	10.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	134.28	104.05	208.53	112010.	15580.	39950.	2750.8
Stddev	.46	1.28	3.44	289.	57.	176.	68.8
%RSD	.34498	1.2282	1.6485	.25788	.3633	.4404	2.5023
#1	133.75	102.76	204.92	111740.	15540.	39800.	2716.6
#2	134.54	104.06	208.91	111960.	15560.	39920.	2705.8
#3	134.56	105.32	211.76	112320.	15640.	40140.	2830.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009A Acquired: 11/27/2015 11:58:35 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B9A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9225	9942.4	179.69	215.36	108.40	68.144	186.0
Stddev	.2634	72.1	.05	1.62	.43	1.158	1.5
%RSD	13.701	.72520	.02637	.75298	.39540	1.6995	.8274
#1	1.9978	9894.5	179.68	216.28	108.48	68.976	184.8
#2	1.6296	9907.4	179.65	216.31	107.94	66.822	185.4
#3	2.1400	10025.	179.75	213.48	108.79	68.636	187.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.300	209.72	737.29
Stddev	.531	3.87	.70
%RSD	1.1469	1.8458	.09545
#1	45.701	205.86	737.22
#2	46.486	209.70	738.02
#3	46.714	213.60	736.62
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-009A Acquired: 11/27/2015 11:58:35 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B9A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30515.	21064.	416560.
Stddev	29.	231.	5901.
%RSD	.09591	1.0950	1.4167
#1	30532.	20802.	421860.
#2	30481.	21236.	417620.
#3	30531.	21154.	410200.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.88%	111.72%	105.51%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-010 Acquired: 11/27/2015 12:03:27 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.68723	59694.	13.964	306.05	2.3781	30052.	1.637
Stddev	.10577	238.	.695	.85	.0333	141.	.061
%RSD	15.391	.39931	4.9749	.27697	1.3986	.47073	3.758
#1	-.56512	59436.	13.162	305.36	2.3723	29889.	1.699
#2	-.74623	59906.	14.366	307.00	2.4138	30126.	1.576
#3	-.75034	59740.	14.364	305.80	2.3481	30141.	1.638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.108	68.559	118.58	90615.	6015.	25460.	3372.9
Stddev	.170	1.211	1.74	432.	21.	169.	59.3
%RSD	.44555	1.7661	1.4642	.47674	.3548	.6644	1.7586
#1	37.913	68.866	119.14	90127.	6002.	25300.	3413.7
#2	38.225	69.587	119.97	90948.	6003.	25450.	3400.2
#3	38.186	67.225	116.64	90770.	6039.	25640.	3304.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-010 Acquired: 11/27/2015 12:03:27 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7926	554.74	83.651	128.66	-.24196	4.0126	180.2
Stddev	.2010	17.94	.294	1.39	1.8012	2.7552	3.2
%RSD	11.215	3.2337	.35107	1.0816	744.42	68.666	1.799
#1	1.6798	534.74	83.474	129.34	1.7086	3.5454	181.9
#2	1.6733	560.06	83.489	129.59	-.59197	6.9715	182.2
#3	2.0247	569.42	83.990	127.06	-1.8425	1.5208	176.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.7608	77.464	528.49
Stddev	1.2147	1.463	1.03
%RSD	43.999	1.8889	.19428
#1	3.8222	78.266	527.64
#2	3.0242	78.351	528.20
#3	1.4359	75.775	529.63
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-010 Acquired: 11/27/2015 12:03:27 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29537.	20018.	407190.
Stddev	76.	387.	7140.
%RSD	.25820	1.9343	1.7534
#1	29596.	20385.	403280.
#2	29451.	20057.	402860.
#3	29564.	19613.	415430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.55%	106.18%	103.14%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV050 Acquired: 11/27/2015 12:08:19 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV050

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	731.71	50578.	2469.9	9814.5	1041.8	49414.	993.3
Stddev	6.46	103.	4.3	75.7	17.3	84.	1.8
%RSD	.88290	.20427	.17453	.77097	1.6565	.16945	.1796
#1	737.65	50484.	2465.3	9860.4	1044.9	49318.	991.7
#2	724.83	50562.	2470.6	9856.0	1057.3	49474.	993.1
#3	732.66	50688.	2473.8	9727.2	1023.2	49449.	995.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4858.9	9658.5	12271.	24538.	35790.	49040.	4871.3
Stddev	9.3	225.8	102.	89.	93.	111.	79.1
%RSD	.19134	2.3384	.82739	.36113	.2609	.2263	1.6233
#1	4849.2	9802.4	12330.	24453.	35760.	48970.	4961.1
#2	4859.7	9398.2	12154.	24630.	35720.	49170.	4812.1
#3	4867.8	9774.9	12330.	24531.	35900.	48980.	4840.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV050 Acquired: 11/27/2015 12:08:19 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV050

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	977.40	24958.	4747.9	9297.8	2483.4	1232.2	969.2
Stddev	2.62	31.	9.4	14.1	7.0	2.2	10.0
%RSD	.26783	.12509	.19723	.15158	.27996	.17731	1.031
#1	974.69	24922.	4737.3	9287.8	2475.4	1230.4	978.8
#2	977.61	24974.	4751.3	9291.8	2486.8	1234.6	958.9
#3	979.91	24979.	4755.1	9313.9	2488.0	1231.5	969.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	937.75	2498.7	4892.7
Stddev	1.13	23.8	7.4
%RSD	.12017	.95436	.15155
#1	938.88	2521.0	4885.2
#2	937.76	2473.5	4892.9
#3	936.62	2501.7	4900.0
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV050 Acquired: 11/27/2015 12:08:19 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV050

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28007.	19869.	397630.
Stddev	115.	71.	3985.
%RSD	.41153	.35826	1.0021
#1	28028.	19916.	394310.
#2	28110.	19904.	402050.
#3	27883.	19787.	396530.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB050 Acquired: 11/27/2015 12:13:42 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB050

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.89788	-56.863	-.84964	1.0634	.01336	-4.7016	.0705
Stddev	.39341	10.619	.23022	.2235	.01054	3.4715	.1533
%RSD	43.815	18.674	27.096	21.017	78.902	73.837	217.6
#1	-.47186	-66.655	-.63194	1.2517	.02452	-3.7717	.1367
#2	-1.2475	-58.360	-1.0906	1.1221	.01198	-1.7898	-.1049
#3	-.97431	-45.576	-.82638	.81645	.00358	-8.5433	.1795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16253	-.37433	4.4590	9.0071	-211.6	-7.440	.13454
Stddev	.17175	.08105	.1359	1.0175	39.3	14.06	.01908
%RSD	105.67	21.651	3.0485	11.297	18.58	189.0	14.180
#1	-.20716	-.38160	4.4373	10.168	-196.3	6.811	.13468
#2	.02712	-.45149	4.3352	8.5863	-256.2	-21.31	.15356
#3	-.30756	-.28989	4.6044	8.2675	-182.2	-7.825	.11540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB050 Acquired: 11/27/2015 12:13:42 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB050

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1597	14.132	.22598	-1.0392	-.81727	-1.3967	-.5225
Stddev	.3654	19.322	.12901	.7457	1.6456	.6909	.2515
%RSD	31.507	136.72	57.090	71.758	201.35	49.463	48.14
#1	1.3711	4.1676	.33126	-1.7753	-2.2846	-.85462	-.4295
#2	1.3703	36.401	.08206	-.28423	.96192	-1.1610	-.8073
#3	.73780	1.8262	.26461	-1.0581	-1.1292	-2.1746	-.3307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.62213	.30678	1.9939
Stddev	.89105	.14884	.0087
%RSD	143.23	48.517	.43833
#1	1.4645	.15115	2.0038
#2	.71250	.32144	1.9908
#3	-.31067	.44775	1.9871
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB050 Acquired: 11/27/2015 12:13:42 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB050

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30349.	20531.	418770.
Stddev	63.	277.	3675.
%RSD	.20839	1.3488	.87758
#1	30419.	20827.	419320.
#2	30295.	20278.	422130.
#3	30333.	20488.	414850.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-011 Acquired: 11/27/2015 12:18:31 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.70220	105500.	31.943	528.13	4.3335	33427.
Stddev	.05817	205.	.885	1.08	.0266	7.
%RSD	8.2838	.19447	2.7708	.20521	.61284	.01991
#1	-.73799	105410.	32.659	528.72	4.3489	33435.
#2	-.73353	105360.	30.954	528.79	4.3028	33423.
#3	-.63508	105740.	32.218	526.88	4.3487	33424.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.902	65.224	115.09	226.52	F 158020.	8226.
Stddev	.114	.088	.11	.99	125.	62.
%RSD	3.937	.13511	.09138	.43558	.07881	.7573
#1	2.771	65.258	114.98	226.27	158000.	8262.
#2	2.978	65.290	115.18	225.68	158160.	8154.
#3	2.957	65.124	115.11	227.61	157910.	8263.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-011 Acquired: 11/27/2015 12:18:31 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39660.	4102.0	1.9953	670.72	141.98	301.17
Stddev	89.	48.1	.2754	18.06	.46	.99
%RSD	.2244	1.1731	13.802	2.6921	.32636	.32753
#1	39600.	4153.4	1.7491	657.12	141.96	300.44
#2	39760.	4058.0	1.9440	691.21	141.52	300.78
#3	39620.	4094.6	2.2927	663.83	142.44	302.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19615	5.2083	278.8	3.5594	128.81	819.19
Stddev	.86763	3.9371	3.1	1.0121	.25	.93
%RSD	442.32	75.593	1.116	28.433	.19691	.11372
#1	.67733	1.6978	281.8	3.4594	129.10	819.79
#2	-.20796	9.4652	275.6	4.6177	128.70	818.12
#3	-1.0578	4.4619	279.0	2.6010	128.63	819.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-011 Acquired: 11/27/2015 12:18:31 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30680.	20915.	411170.
Stddev	72.	36.	1523.
%RSD	.23593	.17259	.37051
#1	30629.	20888.	410030.
#2	30647.	20956.	410570.
#3	30763.	20901.	412900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.44%	110.93%	104.15%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-012 Acquired: 11/27/2015 12:23:23 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2280	81351.	18.522	384.45	3.2329	32201.	1.856
Stddev	.3796	162.	.524	.47	.0298	119.	.097
%RSD	30.912	.19966	2.8265	.12301	.92060	.36997	5.244
#1	-1.5676	81190.	19.010	384.49	3.2196	32167.	1.747
#2	-.81817	81348.	18.587	383.95	3.2669	32102.	1.934
#3	-1.2981	81515.	17.969	384.89	3.2121	32333.	1.887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.620	92.366	163.48	125220.	6834.	34250.	3515.0
Stddev	.164	.676	1.20	421.	16.	145.	71.7
%RSD	.30063	.73148	.73296	.33596	.2385	.4235	2.0398
#1	54.585	92.253	162.75	124950.	6850.	34230.	3508.0
#2	54.476	93.091	164.87	125000.	6817.	34120.	3589.9
#3	54.799	91.754	162.84	125700.	6835.	34410.	3447.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-012 Acquired: 11/27/2015 12:23:23 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7720	568.52	120.11	235.29	.02482	3.3986	222.7
Stddev	.0995	23.22	.46	.61	1.0599	1.5182	2.2
%RSD	5.6144	4.0842	.38571	.26084	4270.8	44.672	1.004
#1	1.6773	562.96	119.76	234.96	-1.1849	2.0832	223.5
#2	1.7629	548.58	119.94	234.91	.79036	5.0599	224.5
#3	1.8756	594.01	120.64	236.00	.46903	3.0527	220.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2979	115.18	663.67
Stddev	.0776	.96	2.13
%RSD	3.3792	.83337	.32043
#1	2.3144	115.25	663.00
#2	2.2133	116.10	661.95
#3	2.3660	114.18	666.05
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-012 Acquired: 11/27/2015 12:23:23 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30666.	21298.	421660.
Stddev	18.	200.	6583.
%RSD	.05849	.94063	1.5613
#1	30647.	21254.	423300.
#2	30683.	21517.	414420.
#3	30667.	21123.	427280.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.39%	112.96%	106.81%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-013 Acquired: 11/27/2015 12:28:15 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5346	92664.	12.902	471.47	3.6137	15970.	1.320
Stddev	.1510	216.	.679	1.57	.0372	11.	.173
%RSD	9.8380	.23310	5.2667	.33345	1.0299	.07070	13.09
#1	-1.6776	92418.	13.610	469.81	3.5951	15977.	1.297
#2	-1.3767	92750.	12.840	472.94	3.5895	15975.	1.504
#3	-1.5496	92823.	12.255	471.66	3.6566	15957.	1.160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.896	96.168	133.62	125250.	7819.	31100.	2134.1
Stddev	.071	1.499	1.69	14.	21.	132.	23.1
%RSD	.13505	1.5590	1.2651	.01121	.2666	.4255	1.0801
#1	52.959	94.927	132.61	125240.	7827.	31070.	2118.0
#2	52.909	95.744	132.68	125250.	7795.	31240.	2123.9
#3	52.818	97.834	135.57	125270.	7834.	30980.	2160.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-013 Acquired: 11/27/2015 12:28:15 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6941	657.46	118.12	138.26	.77411	3.3426	257.4
Stddev	.1706	25.68	.12	1.47	.73383	1.4963	2.5
%RSD	10.071	3.9066	.10178	1.0597	94.797	44.763	.9682
#1	1.5365	674.26	118.04	136.91	.68642	2.9440	257.4
#2	1.8753	627.89	118.06	139.82	1.5479	2.0861	254.9
#3	1.6705	670.22	118.26	138.05	.08806	4.9978	259.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.63168	103.75	484.99
Stddev	.48645	1.16	.03
%RSD	77.009	1.1185	.00656
#1	.19330	103.73	484.95
#2	.54673	102.59	485.02
#3	1.1550	104.91	484.99
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-013 Acquired: 11/27/2015 12:28:15 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30654.	21092.	421500.
Stddev	189.	95.	4156.
%RSD	.61659	.45103	.98596
#1	30741.	21200.	423160.
#2	30783.	21020.	424580.
#3	30437.	21056.	416780.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.35%	111.87%	106.77%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-014 Acquired: 11/27/2015 12:33:08 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.6529	134370.	15.868	750.06	5.3956	16407.
Stddev	.1203	470.	1.467	2.80	.0216	53.
%RSD	7.2764	.34963	9.2430	.37360	.40106	.32023
#1	-1.7893	133830.	14.206	746.86	5.4203	16347.
#2	-1.6070	134700.	16.416	752.10	5.3801	16446.
#3	-1.5623	134580.	16.982	751.20	5.3865	16427.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.121	71.200	135.41	153.95	F 174380.	9492.
Stddev	.162	.186	.56	1.00	378.	85.
%RSD	14.43	.26165	.41391	.65224	.21652	.8967
#1	1.114	71.125	136.03	154.24	173950.	9402.
#2	.9625	71.413	135.27	152.83	174640.	9571.
#3	1.286	71.064	134.94	154.77	174560.	9503.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-014 Acquired: 11/27/2015 12:33:08 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42910.	2840.7	1.9403	678.59	162.27	120.38
Stddev	65.	36.7	.2633	12.77	.40	.82
%RSD	.1507	1.2910	13.569	1.8822	.24882	.68406
#1	42850.	2857.8	2.2435	670.10	162.30	121.23
#2	42920.	2865.6	1.8080	693.28	162.67	119.59
#3	42970.	2798.6	1.7694	672.40	161.86	120.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75871	2.1283	282.6	1.9953	143.77	597.94
Stddev	1.8196	.8345	3.4	1.0609	.50	.28
%RSD	239.83	39.208	1.188	53.170	.34561	.04610
#1	-.54808	2.1295	279.2	2.6364	144.15	598.25
#2	2.8369	1.2932	282.5	2.5788	143.21	597.71
#3	-.01275	2.9622	285.9	.77072	143.97	597.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-014 Acquired: 11/27/2015 12:33:08 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30808.	21206.	422620.
Stddev	96.	143.	3967.
%RSD	.31092	.67286	.93854
#1	30903.	21262.	419330.
#2	30808.	21043.	421520.
#3	30712.	21312.	427030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.88%	112.47%	107.05%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-015 Acquired: 11/27/2015 12:37:59 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.80993	99310.	18.795	518.96	4.1281	17211.	1.331
Stddev	.34584	215.	.764	1.28	.0745	60.	.103
%RSD	42.700	.21626	4.0668	.24757	1.8034	.35085	7.715
#1	-1.2008	99111.	19.451	517.48	4.0868	17143.	1.277
#2	-.68552	99281.	17.956	519.63	4.2140	17231.	1.266
#3	-.54351	99538.	18.978	519.77	4.0834	17258.	1.449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62.691	103.68	142.69	141600.	7062.	34300.	3147.7
Stddev	.439	2.14	3.08	517.	19.	186.	70.9
%RSD	.69985	2.0684	2.1617	.36478	.2686	.5418	2.2514
#1	63.122	102.60	141.26	141010.	7073.	34090.	3079.1
#2	62.704	106.15	146.23	141860.	7040.	34430.	3220.7
#3	62.245	102.29	140.59	141930.	7072.	34390.	3143.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-015 Acquired: 11/27/2015 12:37:59 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3787	702.96	133.37	124.66	-.90928	5.2337	218.3
Stddev	.3088	6.03	.71	2.31	2.1863	1.3187	3.6
%RSD	12.982	.85810	.53497	1.8499	240.44	25.196	1.658
#1	2.0933	707.34	133.94	126.75	1.6105	6.2129	219.2
#2	2.7065	696.08	133.59	122.18	-2.0360	5.7538	221.5
#3	2.3364	705.47	132.57	125.03	-2.3024	3.7342	214.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.3847	105.35	496.78
Stddev	1.5136	1.95	1.81
%RSD	44.720	1.8494	.36475
#1	5.0947	104.04	498.76
#2	2.8424	107.58	496.37
#3	2.2169	104.41	495.21
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-015 Acquired: 11/27/2015 12:37:59 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30520.	21148.	416170.
Stddev	154.	162.	8238.
%RSD	.50372	.76391	1.9795
#1	30675.	21320.	418010.
#2	30519.	21127.	407160.
#3	30367.	20999.	423330.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.90%	112.17%	105.41%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-016 Acquired: 11/27/2015 12:42:50 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3392	118080.	39.501	456.62	4.5496	14709.
Stddev	.5027	381.	.535	1.04	.0830	55.
%RSD	37.533	.32240	1.3550	.22868	1.8239	.37574
#1	-.79242	118480.	39.112	456.51	4.6409	14764.
#2	-1.4441	117720.	40.111	455.64	4.4787	14653.
#3	-1.7812	118050.	39.278	457.72	4.5293	14710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5936	86.453	132.60	136.07	F 269350.	10210.
Stddev	.1184	.454	2.21	1.95	802.	34.
%RSD	19.94	.52495	1.6635	1.4359	.29781	.3377
#1	.5375	86.725	134.87	138.09	270080.	10240.
#2	.5138	86.704	130.47	134.18	268490.	10170.
#3	.7296	85.929	132.46	135.95	269490.	10230.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-016 Acquired: 11/27/2015 12:42:50 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59940.	4282.8	2.0725	488.92	196.50	118.96
Stddev	142.	11.7	.2227	7.51	1.04	1.34
%RSD	.2367	.27311	10.744	1.5370	.53143	1.1246
#1	60040.	4288.9	2.3185	488.20	197.27	119.82
#2	59780.	4290.3	2.0144	496.76	196.92	119.64
#3	60000.	4269.3	1.8847	481.79	195.31	117.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32520	2.5950	210.6	3.9161	129.81	710.18
Stddev	1.4840	2.1380	3.6	1.0222	2.11	5.55
%RSD	456.33	82.388	1.695	26.102	1.6263	.78152
#1	-.87371	4.9872	214.7	5.0663	132.00	715.60
#2	-1.4568	1.9275	208.4	3.1115	127.79	710.43
#3	1.3549	.87046	208.6	3.5705	129.63	704.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-016 Acquired: 11/27/2015 12:42:50 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30341.	20922.	413090.
Stddev	124.	220.	4942.
%RSD	.40951	1.0527	1.1963
#1	30197.	20741.	407930.
#2	30412.	20856.	417780.
#3	30413.	21167.	413560.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.29%	110.97%	104.63%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-017 Acquired: 11/27/2015 12:47:40 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7213	157490.	47.929	573.46	6.0158	38840.
Stddev	.2760	795.	1.989	2.89	.0083	197.
%RSD	16.036	.50472	4.1498	.50473	.13788	.50750
#1	-1.8059	156580.	46.296	570.21	6.0147	38624.
#2	-1.4129	158070.	50.144	575.77	6.0246	39011.
#3	-1.9451	157800.	47.346	574.39	6.0081	38884.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8283	105.68	173.86	219.27	F 348240.	9088.
Stddev	.1050	.71	.45	.44	13811.	85.
%RSD	12.68	.66956	.26148	.19957	3.9659	.9312
#1	.9419	106.16	174.36	218.88	333180.	8991.
#2	.8083	104.87	173.47	219.19	360320.	9122.
#3	.7348	106.02	173.74	219.74	351220.	9150.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-017 Acquired: 11/27/2015 12:47:40 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	75080.	4729.1	1.9377	622.94	274.53	130.46
Stddev	342.	77.5	.0849	14.95	1.23	4.75
%RSD	.4550	1.6393	4.3843	2.4000	.44762	3.6441
#1	74710.	4793.0	2.0113	607.41	275.89	135.93
#2	75380.	4642.8	1.9571	624.16	273.51	127.27
#3	75150.	4751.4	1.8447	637.24	274.20	128.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3526	1.2854	200.8	4.4936	173.65	771.74
Stddev	1.0154	1.8527	3.5	.2999	.28	6.04
%RSD	75.066	144.13	1.741	6.6733	.16152	.78265
#1	.29061	.87102	197.5	4.8181	173.79	777.52
#2	2.3138	-.32499	200.5	4.4360	173.32	765.47
#3	1.4534	3.3102	204.4	4.2267	173.83	772.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-017 Acquired: 11/27/2015 12:47:40 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	33921.	24104.	464980.
Stddev	260.	286.	2215.
%RSD	.76501	1.1851	.47633
#1	33739.	24357.	465750.
#2	34218.	23794.	466700.
#3	33806.	24161.	462480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	115.48%	127.85%	117.78%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-018 Acquired: 11/27/2015 12:52:39 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65619	109360.	35.048	412.93	4.0732	31862.
Stddev	.20065	442.	.887	.38	.1035	109.
%RSD	30.577	.40449	2.5313	.09207	2.5405	.34169
#1	-.44108	109060.	36.058	412.96	4.1814	31824.
#2	-.68923	109170.	34.392	412.54	3.9752	31777.
#3	-.83827	109870.	34.695	413.30	4.0630	31984.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9515	73.382	115.85	146.74	F 232540.	7556.
Stddev	.2889	.192	2.41	4.43	761.	26.
%RSD	30.37	.26143	2.0821	3.0167	.32736	.3490
#1	1.243	73.591	118.39	151.43	232210.	7579.
#2	.6652	73.339	113.60	142.64	231990.	7561.
#3	.9462	73.214	115.55	146.16	233410.	7527.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-018 Acquired: 11/27/2015 12:52:39 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61440.	4325.0	2.1090	528.25	177.90	145.40
Stddev	324.	78.6	.1041	12.91	.49	1.18
%RSD	.5281	1.8183	4.9353	2.4434	.27499	.81482
#1	61390.	4392.8	2.1505	516.91	178.43	145.02
#2	61140.	4238.8	2.1859	542.30	177.47	146.73
#3	61780.	4343.4	1.9906	525.55	177.80	144.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15002	2.7851	205.5	5.5923	134.03	701.15
Stddev	1.0615	2.1189	5.4	.2574	2.95	.20
%RSD	707.59	76.079	2.629	4.6034	2.1981	.02804
#1	1.3423	3.2173	210.8	5.5416	137.18	701.15
#2	-.69223	.48345	200.0	5.8714	131.34	701.34
#3	-.20006	4.6545	205.7	5.3640	133.56	700.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-018 Acquired: 11/27/2015 12:52:39 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30168.	21134.	412910.
Stddev	144.	173.	8899.
%RSD	.47614	.81949	2.1553
#1	30307.	21224.	404470.
#2	30177.	21244.	422210.
#3	30020.	20935.	412050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.70%	112.10%	104.59%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-019 Acquired: 11/27/2015 12:57:31 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9451	75237.	19.318	221.93	2.9528	6991.6	.3754
Stddev	.1473	116.	1.265	.69	.0163	34.8	.0700
%RSD	7.5720	.15375	6.5467	.31050	.55285	.49810	18.63
#1	-1.7840	75105.	19.819	221.26	2.9470	6957.8	.4522
#2	-1.9787	75285.	20.255	222.64	2.9712	6989.6	.3587
#3	-2.0728	75320.	17.879	221.90	2.9401	7027.4	.3154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.410	97.635	116.48	136440.	8043.	34450.	1460.4
Stddev	.548	.605	.80	385.	53.	122.	13.2
%RSD	1.0667	.61985	.69010	.28216	.6632	.3546	.90296
#1	51.950	98.182	116.67	136030.	8006.	34310.	1468.1
#2	51.427	97.738	117.17	136490.	8019.	34520.	1467.9
#3	50.854	96.985	115.59	136790.	8104.	34530.	1445.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-019 Acquired: 11/27/2015 12:57:31 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.2348	583.84	129.61	78.228	.11209	1.1505	305.9
Stddev	.3407	19.59	1.66	.488	.29551	.4051	3.2
%RSD	6.5082	3.3555	1.2796	.62354	263.63	35.208	1.046
#1	4.8529	579.59	131.25	78.487	.06019	1.3934	308.4
#2	5.5073	566.72	129.64	78.531	.43011	1.3751	307.1
#3	5.3444	605.20	127.94	77.665	-.15403	.68287	302.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5887	101.54	386.51
Stddev	.5385	.92	3.78
%RSD	33.893	.90133	.97923
#1	1.8152	102.01	390.37
#2	.97402	102.12	386.35
#3	1.9770	100.48	382.81
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-019 Acquired: 11/27/2015 12:57:31 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30410.	21152.	415620.
Stddev	121.	123.	3117.
%RSD	.39770	.57970	.74993
#1	30511.	21120.	416950.
#2	30442.	21287.	417850.
#3	30276.	21048.	412060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.52%	112.19%	105.28%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001(2) Acquired: 11/27/2015 13:02:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0530	52689.	11.371	274.66	2.0315	32044.	1.597
Stddev	.4360	212.	.933	.45	.0344	171.	.078
%RSD	41.407	.40254	8.2041	.16478	1.6954	.53451	4.862
#1	-1.5287	52448.	10.933	274.22	2.0212	31851.	1.686
#2	-.67233	52771.	10.738	274.65	2.0034	32177.	1.545
#3	-.95793	52849.	12.442	275.12	2.0699	32105.	1.559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.512	55.842	109.63	77470.	4062.	19540.	1773.3
Stddev	.080	.657	.35	431.	24.	177.	12.8
%RSD	.25371	1.1760	.32356	.55581	.5843	.9067	.72117
#1	31.492	56.313	109.76	76988.	4056.	19340.	1781.2
#2	31.444	55.092	109.23	77818.	4043.	19680.	1758.5
#3	31.600	56.120	109.90	77603.	4089.	19590.	1780.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001(2) Acquired: 11/27/2015 13:02:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2828	356.50	69.696	150.75	-.18020	2.3504	244.9
Stddev	.2099	15.28	.188	.10	.87543	.6191	2.9
%RSD	16.362	4.2853	.27018	.06595	485.82	26.342	1.179
#1	1.4439	341.00	69.891	150.82	.64056	3.0653	248.0
#2	1.3591	356.95	69.515	150.64	-.07955	2.0011	244.3
#3	1.0455	371.54	69.681	150.79	-1.1016	1.9848	242.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9221	64.197	402.14
Stddev	.7582	.765	.40
%RSD	39.450	1.1921	.09988
#1	1.4895	64.493	402.58
#2	1.4791	63.328	402.02
#3	2.7976	64.770	401.80
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001(2) Acquired: 11/27/2015 13:02:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30294.	20799.	421080.
Stddev	55.	144.	2631.
%RSD	.18086	.69158	.62482
#1	30357.	20842.	419110.
#2	30258.	20917.	424070.
#3	30267.	20639.	420050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.13%	110.32%	106.66%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001L(10) Acquired: 11/27/2015 13:06:59 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0505	11547.	1.4549	60.713	.43750	6942.0	.3206
Stddev	.0991	45.	.2365	.277	.02284	14.0	.1530
%RSD	9.4334	.38996	16.255	.45631	5.2199	.20211	47.72
#1	-.93972	11498.	1.2538	60.946	.46186	6939.7	.2282
#2	-1.0810	11556.	1.7154	60.407	.43405	6929.3	.4972
#3	-1.1307	11587.	1.3954	60.785	.41657	6957.0	.2364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.7162	12.139	24.609	16872.	696.9	4263.	390.57
Stddev	.0654	.264	1.025	64.	36.1	17.	9.80
%RSD	.97387	2.1729	4.1649	.37824	5.182	.4064	2.5092
#1	6.7640	12.444	25.471	16829.	738.2	4254.	400.47
#2	6.7430	11.993	24.880	16842.	681.1	4283.	390.39
#3	6.6417	11.981	23.476	16945.	671.4	4253.	380.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001L(10) Acquired: 11/27/2015 13:06:59 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.53467	79.062	15.536	33.132	-.75255	-.48473	56.20
Stddev	.10756	13.915	.179	.422	1.6096	.23258	2.77
%RSD	20.116	17.600	1.1503	1.2748	213.88	47.982	4.928
#1	.43826	66.108	15.684	32.647	-1.8837	-.73652	59.26
#2	.51507	93.771	15.337	33.422	-1.4641	-.27794	55.50
#3	.65068	77.308	15.586	33.326	1.0902	-.43972	53.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0924	14.606	88.144
Stddev	.6877	.334	.243
%RSD	62.953	2.2888	.27621
#1	.74152	14.943	87.967
#2	1.8848	14.601	88.043
#3	.65092	14.274	88.422
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001L(10) Acquired: 11/27/2015 13:06:59 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30000.	20158.	415540.
Stddev	103.	285.	7863.
%RSD	.34400	1.4144	1.8923
#1	30000.	20445.	408440.
#2	30104.	20154.	414190.
#3	29897.	19875.	423990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.13%	106.92%	105.26%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001DU(2) Acquired: 11/27/2015 13:11:44 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.89892	44103.	11.253	234.42	1.7384	25587.	1.187
Stddev	.13003	48.	.170	.50	.0182	7.	.106
%RSD	14.465	.10904	1.5148	.21530	1.0500	.02802	8.954
#1	-.74888	44070.	11.056	234.95	1.7231	25591.	1.145
#2	-.97884	44158.	11.358	234.37	1.7586	25579.	1.308
#3	-.96904	44081.	11.344	233.95	1.7336	25592.	1.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.200	47.314	90.526	69546.	3711.	16000.	1820.0
Stddev	.272	.740	.600	49.	50.	12.	10.1
%RSD	.90018	1.5629	.66325	.07095	1.358	.0754	.55267
#1	29.910	46.772	90.089	69542.	3769.	16000.	1814.1
#2	30.449	48.157	91.210	69499.	3678.	15990.	1831.6
#3	30.241	47.014	90.277	69597.	3685.	16010.	1814.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001DU(2) Acquired: 11/27/2015 13:11:44 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.90542	286.17	58.133	120.21	-1.8699	1.8921	128.3
Stddev	.31799	8.79	.178	1.26	.3369	2.6168	1.0
%RSD	35.121	3.0733	.30677	1.0463	18.017	138.30	.8159
#1	1.2456	277.37	58.323	121.56	-1.9237	2.9451	127.9
#2	.85507	286.17	57.970	119.07	-2.1767	-1.0872	127.6
#3	.61561	294.96	58.107	120.00	-1.5094	3.8183	129.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6492	58.083	325.73
Stddev	.6574	.373	.34
%RSD	24.817	.64185	.10499
#1	2.5130	57.704	325.34
#2	3.3640	58.450	326.00
#3	2.0704	58.095	325.84
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001DU(2) Acquired: 11/27/2015 13:11:44 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30320.	20883.	419080.
Stddev	123.	291.	1703.
%RSD	.40458	1.3946	.40628
#1	30451.	21181.	420820.
#2	30301.	20870.	417420.
#3	30208.	20599.	419010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.22%	110.76%	106.15%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001MS(2) Acquired: 11/27/2015 13:16:37 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.827	47101.	45.794	2067.9	51.650	28244.	44.88
Stddev	1.128	144.	.122	5.1	1.068	44.	.17
%RSD	2.5728	.30557	.26717	.24757	2.0673	.15492	.3842
#1	44.797	46964.	45.653	2062.2	52.718	28197.	44.82
#2	44.094	47088.	45.857	2069.4	51.650	28252.	44.75
#3	42.590	47251.	45.872	2072.2	50.582	28284.	45.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	476.99	232.15	338.56	70212.	3625.	17470.	2140.9
Stddev	2.18	5.48	7.14	139.	14.	40.	45.2
%RSD	.45735	2.3587	2.1081	.19866	.3945	.2284	2.1093
#1	475.84	237.71	345.71	70070.	3611.	17480.	2188.2
#2	475.64	231.99	338.54	70217.	3639.	17510.	2136.3
#3	479.51	226.76	331.43	70349.	3625.	17430.	2098.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001MS(2) Acquired: 11/27/2015 13:16:37 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75952	296.38	498.07	152.63	17.274	86.301	128.4
Stddev	.19323	4.74	1.92	1.96	.651	.959	4.2
%RSD	25.441	1.5977	.38569	1.2816	3.7674	1.1110	3.296
#1	.90475	295.14	497.25	150.58	17.628	87.345	133.3
#2	.83359	292.39	496.70	154.48	17.671	85.459	126.1
#3	.54022	301.61	500.26	152.83	16.523	86.101	125.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	48.490	515.06	812.68
Stddev	.853	11.25	2.72
%RSD	1.7591	2.1840	.33490
#1	48.854	526.67	811.48
#2	49.102	514.29	810.77
#3	47.516	504.22	815.80
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001MS(2) Acquired: 11/27/2015 13:16:37 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B8S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30241.	20439.	417020.
Stddev	98.	124.	11139.
%RSD	.32375	.60726	2.6711
#1	30245.	20556.	405070.
#2	30337.	20453.	418900.
#3	30142.	20309.	427110.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.95%	108.41%	105.63%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001A(2) Acquired: 11/27/2015 13:21:30 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.0351	54279.	22.123	468.02	7.3390	37507.	6.214
Stddev	.1628	612.	1.113	6.48	.0897	434.	.076
%RSD	1.8014	1.1271	5.0306	1.3856	1.2220	1.1572	1.223
#1	9.1193	53742.	21.103	462.44	7.3645	37059.	6.169
#2	8.8475	54945.	23.310	475.13	7.2393	37925.	6.301
#3	9.1386	54149.	21.955	466.50	7.4131	37537.	6.171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79.079	68.473	136.66	79509.	8931.	24560.	1837.0
Stddev	.125	.609	1.95	955.	175.	279.	53.0
%RSD	.15869	.88989	1.4239	1.2013	1.956	1.135	2.8878
#1	79.218	68.117	136.04	78588.	8750.	24250.	1804.0
#2	78.973	68.126	135.10	80495.	9099.	24800.	1808.8
#3	79.047	69.177	138.84	79442.	8943.	24630.	1898.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001A(2) Acquired: 11/27/2015 13:21:30 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0759	5406.1	107.93	162.18	58.446	36.202	263.4
Stddev	.1547	79.7	.17	.39	1.486	2.668	6.5
%RSD	14.374	1.4745	.15923	.24266	2.5429	7.3691	2.465
#1	1.0559	5327.8	107.88	162.61	59.358	33.750	257.2
#2	1.2396	5487.2	107.80	162.09	56.731	39.043	270.1
#3	.93224	5403.3	108.13	161.83	59.248	35.813	263.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	24.726	115.81	470.42
Stddev	.855	1.62	.23
%RSD	3.4567	1.4016	.04809
#1	24.186	115.55	470.62
#2	25.711	114.33	470.18
#3	24.280	117.54	470.47
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-001A(2) Acquired: 11/27/2015 13:21:30 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7B8A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29966.	20441.	407920.
Stddev	91.	223.	6470.
%RSD	.30437	1.0929	1.5861
#1	29863.	20631.	408480.
#2	29998.	20195.	414090.
#3	30036.	20498.	401190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.01%	108.42%	103.32%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-002(2) Acquired: 11/27/2015 13:26:24 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3212	48722.	12.065	164.92	2.0419	8857.5	.4251
Stddev	.0697	114.	.901	.30	.0143	26.7	.0706
%RSD	5.2738	.23393	7.4708	.18043	.69825	.30174	16.62
#1	-1.2420	48756.	12.458	164.94	2.0539	8874.9	.4338
#2	-1.3486	48594.	12.703	164.61	2.0262	8826.7	.4910
#3	-1.3730	48814.	11.034	165.21	2.0458	8870.9	.3505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.320	60.731	60.345	83896.	5712.	20340.	995.11
Stddev	.143	.574	.404	201.	34.	73.	3.30
%RSD	.44305	.94510	.67030	.23899	.5990	.3569	.33192
#1	32.374	61.362	60.490	83940.	5674.	20320.	998.90
#2	32.429	60.241	59.888	83677.	5724.	20280.	992.85
#3	32.158	60.590	60.657	84071.	5739.	20420.	993.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-002(2) Acquired: 11/27/2015 13:26:24 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5807	665.10	77.726	37.343	-1.1258	1.3787	229.0
Stddev	.0681	18.50	.735	.801	2.2442	2.3191	4.8
%RSD	4.3100	2.7819	.94596	2.1440	199.35	168.20	2.112
#1	1.5912	676.83	78.347	37.172	-.08097	3.1329	233.8
#2	1.6430	643.77	77.917	36.642	-3.7019	-1.2506	229.1
#3	1.5080	674.69	76.914	38.215	.40552	2.2539	224.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0605	69.240	224.77
Stddev	.5500	.354	1.59
%RSD	26.692	.51069	.70952
#1	1.4255	69.647	226.50
#2	2.3724	69.014	224.47
#3	2.3836	69.059	223.35
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-002(2) Acquired: 11/27/2015 13:26:24 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30288.	20872.	421670.
Stddev	141.	374.	359.
%RSD	.46451	1.7909	.08523
#1	30150.	20469.	421330.
#2	30284.	20940.	422050.
#3	30431.	21207.	421630.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.11%	110.70%	106.81%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-003(2) Acquired: 11/27/2015 13:31:09 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5625	56787.	22.459	163.65	2.9986	6414.3	.1398
Stddev	.3337	227.	1.066	.84	.1836	9.8	.1750
%RSD	21.359	.40041	4.7479	.51627	6.1217	.15327	125.1
#1	-1.9466	56576.	21.230	162.73	2.9282	6405.4	.0329
#2	-1.3434	57028.	23.002	164.40	2.8607	6412.6	.0449
#3	-1.3975	56757.	23.144	163.82	3.2070	6424.9	.3418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.572	77.333	76.447	117000.	4913.	24820.	1179.9
Stddev	.188	4.691	3.841	219.	33.	58.	66.7
%RSD	.39429	6.0654	5.0250	.18702	.6797	.2343	5.6536
#1	47.485	76.031	75.663	116870.	4899.	24880.	1160.8
#2	47.788	73.431	73.059	116860.	4951.	24760.	1124.9
#3	47.445	82.537	80.620	117250.	4888.	24820.	1254.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-003(2) Acquired: 11/27/2015 13:31:09 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3562	443.75	105.61	62.504	-.56199	-1.6262	153.0
Stddev	.0411	7.40	.20	1.021	.16840	1.3590	6.8
%RSD	1.7456	1.6670	.18576	1.6335	29.966	83.567	4.437
#1	2.3588	449.78	105.49	62.936	-.54429	-1.8788	151.9
#2	2.3139	435.50	105.84	63.238	-.73854	-.15866	146.8
#3	2.3960	445.99	105.51	61.338	-.40313	-2.8412	160.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6411	79.004	284.79
Stddev	1.5855	4.504	.98
%RSD	96.613	5.7013	.34490
#1	2.0158	77.421	284.14
#2	-.09823	75.504	285.92
#3	3.0057	84.086	284.30
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-003(2) Acquired: 11/27/2015 13:31:09 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29809.	20531.	414930.
Stddev	276.	92.	21888.
%RSD	.92530	.44649	5.2752
#1	30089.	20490.	424230.
#2	29802.	20466.	430630.
#3	29537.	20636.	389930.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.48%	108.89%	105.10%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-004(2) Acquired: 11/27/2015 13:35:53 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.76494	44206.	15.122	148.70	1.8563	16325.	.2588
Stddev	.34835	246.	.631	1.24	.0043	109.	.0795
%RSD	45.540	.55633	4.1699	.83350	.23309	.66500	30.72
#1	-.50378	44219.	15.463	147.68	1.8553	16238.	.2263
#2	-1.1605	43953.	14.394	148.34	1.8525	16290.	.2008
#3	-.63057	44445.	15.508	150.08	1.8610	16447.	.3494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.885	60.524	73.486	95954.	3628.	22510.	2073.2
Stddev	.017	.589	.602	503.	39.	67.	51.2
%RSD	.05210	.97248	.81888	.52470	1.064	.2987	2.4707
#1	31.869	60.510	73.441	95503.	3590.	22470.	2017.5
#2	31.884	59.942	74.110	95862.	3667.	22480.	2083.8
#3	31.903	61.119	72.909	96498.	3628.	22590.	2118.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-004(2) Acquired: 11/27/2015 13:35:53 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3271	414.51	83.975	47.293	-1.1250	-.38434	136.4
Stddev	.3366	6.06	.455	1.272	.5041	.46075	1.6
%RSD	25.359	1.4625	.54153	2.6888	44.814	119.88	1.140
#1	1.7157	414.07	83.477	45.875	-.61960	.05825	137.4
#2	1.1364	420.78	84.079	48.332	-1.1274	-.34993	134.6
#3	1.1292	408.68	84.369	47.671	-1.6279	-.86133	137.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6955	65.219	269.32
Stddev	1.0068	.233	.82
%RSD	37.351	.35783	.30263
#1	3.8529	64.952	268.39
#2	2.0216	65.384	269.70
#3	2.2121	65.320	269.88
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-004(2) Acquired: 11/27/2015 13:35:53 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30114.	20469.	414840.
Stddev	18.	175.	1287.
%RSD	.06038	.85588	.31028
#1	30110.	20277.	413490.
#2	30134.	20620.	414990.
#3	30098.	20509.	416050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.52%	108.56%	105.08%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-005(2) Acquired: 11/27/2015 13:40:46 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2242	46197.	7.4540	148.98	1.8706	8167.5	.3741
Stddev	.4381	124.	.6096	.15	.0525	29.9	.2154
%RSD	35.788	.26840	8.1782	.09840	2.8075	.36668	57.57
#1	-1.4269	46101.	8.0380	149.14	1.9180	8152.4	.1825
#2	-.72143	46153.	6.8217	148.95	1.8797	8148.1	.6072
#3	-1.5242	46337.	7.5022	148.86	1.8142	8202.0	.3325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33.465	60.368	71.285	84567.	5158.	20270.	1021.2
Stddev	.095	1.240	.945	257.	38.	115.	18.7
%RSD	.28343	2.0537	1.3253	.30370	.7423	.5690	1.8270
#1	33.475	61.467	71.943	84377.	5117.	20240.	1038.3
#2	33.365	60.613	71.710	84466.	5162.	20170.	1024.0
#3	33.554	59.024	70.203	84859.	5194.	20400.	1001.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-005(2) Acquired: 11/27/2015 13:40:46 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0331	295.60	81.255	57.230	-1.5712	.47946	151.1
Stddev	.0702	20.92	.358	1.112	.4840	.73998	5.5
%RSD	6.7899	7.0775	.44105	1.9424	30.804	154.34	3.669
#1	1.0620	276.99	81.669	58.468	-1.4833	1.1293	156.6
#2	.95314	318.24	81.044	56.905	-1.1372	.63504	151.2
#3	1.0842	291.57	81.053	56.317	-2.0932	-.32594	145.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.80770	62.091	310.68
Stddev	1.7071	.862	2.37
%RSD	211.36	1.3880	.76299
#1	-.56787	62.837	313.35
#2	.27270	62.288	309.86
#3	2.7183	61.147	308.82
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-005(2) Acquired: 11/27/2015 13:40:46 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29817.	20324.	407890.
Stddev	234.	53.	6070.
%RSD	.78376	.26186	1.4882
#1	29563.	20383.	401650.
#2	30022.	20309.	408260.
#3	29865.	20279.	413770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.50%	107.80%	103.32%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-006(2) Acquired: 11/27/2015 13:45:30 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.95972	54112.	14.474	156.84	2.2037	14894.	.2376
Stddev	.21178	252.	.636	.59	.0326	48.	.2275
%RSD	22.067	.46554	4.3926	.37430	1.4776	.32146	95.77
#1	-.90687	53878.	15.049	156.26	2.2312	14841.	.4800
#2	-.77937	54080.	13.791	156.82	2.1677	14908.	.2040
#3	-1.1929	54379.	14.582	157.43	2.2123	14934.	.0287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.005	68.802	89.178	112580.	4921.	26010.	1585.4
Stddev	.102	.662	.727	452.	27.	110.	13.2
%RSD	.27588	.96263	.81536	.40152	.5506	.4211	.83015
#1	37.099	68.910	89.750	112140.	4911.	25900.	1596.9
#2	37.020	68.092	88.360	112560.	4951.	25990.	1571.0
#3	36.896	69.404	89.423	113040.	4900.	26120.	1588.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-006(2) Acquired: 11/27/2015 13:45:30 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0565	351.19	96.407	60.245	-.19220	1.0807	135.1
Stddev	.2635	22.54	.139	1.222	2.2116	1.7786	1.9
%RSD	24.935	6.4183	.14387	2.0290	1150.6	164.58	1.405
#1	.76271	377.16	96.450	61.505	-2.7006	2.8958	137.2
#2	1.1352	336.78	96.520	59.064	1.4768	1.0054	133.6
#3	1.2717	339.62	96.252	60.165	.64713	-.65901	134.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.45515	75.460	309.35
Stddev	.39470	.430	.51
%RSD	86.719	.57023	.16600
#1	.16435	75.613	309.94
#2	.29664	74.974	309.14
#3	.90446	75.792	308.98
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-006(2) Acquired: 11/27/2015 13:45:30 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29214.	20123.	408810.
Stddev	81.	214.	1442.
%RSD	.27639	1.0623	.35269
#1	29165.	20363.	409700.
#2	29307.	19955.	409580.
#3	29170.	20049.	407150.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.451%	106.73%	103.55%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-011(2) Acquired: 11/27/2015 13:50:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.86403	57411.	16.448	290.23	2.2633	17883.	1.732
Stddev	.30486	252.	1.301	1.05	.0085	67.	.126
%RSD	35.284	.43844	7.9120	.36280	.37543	.37576	7.251
#1	-1.1839	57136.	17.575	289.30	2.2602	17806.	1.870
#2	-.83136	57466.	15.024	291.37	2.2728	17927.	1.702
#3	-.57682	57630.	16.744	290.01	2.2567	17916.	1.624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.357	61.995	120.98	84794.	4461.	21290.	2196.0
Stddev	.283	.871	1.18	367.	64.	110.	34.2
%RSD	.80083	1.4054	.97667	.43289	1.439	.5173	1.5564
#1	35.570	62.594	121.99	84372.	4404.	21170.	2206.1
#2	35.036	62.395	121.28	84966.	4531.	21310.	2224.1
#3	35.467	60.995	119.68	85043.	4447.	21390.	2157.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-011(2) Acquired: 11/27/2015 13:50:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0086	395.57	76.461	163.26	-1.4824	3.7289	207.1
Stddev	.2104	.74	.180	1.74	1.4494	1.3713	4.3
%RSD	20.859	.18673	.23564	1.0687	97.772	36.773	2.058
#1	1.2370	394.92	76.663	162.94	.18361	2.5591	210.9
#2	.96634	396.38	76.318	165.14	-2.4532	3.3898	207.9
#3	.82262	395.42	76.402	161.69	-2.1776	5.2379	202.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5409	69.852	440.38
Stddev	1.1837	.635	1.92
%RSD	76.817	.90902	.43683
#1	2.4502	69.919	442.61
#2	.20252	70.451	439.26
#3	1.9701	69.187	439.29
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-011(2) Acquired: 11/27/2015 13:50:14 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30121.	20613.	417400.
Stddev	49.	149.	7427.
%RSD	.16376	.72057	1.7792
#1	30065.	20781.	417000.
#2	30141.	20558.	410180.
#3	30157.	20499.	425020.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.54%	109.33%	105.73%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV051 Acquired: 11/27/2015 13:55:07 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV051

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	708.78	49960.	2405.0	9637.8	1042.5	48699.	972.0
Stddev	8.71	85.	6.3	71.5	5.5	64.	1.2
%RSD	1.2288	.17000	.26343	.74207	.52774	.13222	.1252
#1	700.31	49864.	2408.4	9607.7	1040.0	48754.	971.4
#2	717.71	50025.	2397.7	9586.2	1038.7	48628.	971.1
#3	708.33	49990.	2408.9	9719.4	1048.8	48713.	973.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4762.7	9420.2	12140.	24037.	35180.	48150.	4766.5
Stddev	9.7	88.9	145.	32.	65.	153.	42.6
%RSD	.20322	.94404	1.1942	.13182	.1853	.3170	.89428
#1	4764.3	9317.8	11973.	24010.	35210.	48280.	4731.4
#2	4752.3	9478.5	12233.	24030.	35100.	47980.	4754.2
#3	4771.5	9464.3	12214.	24072.	35220.	48180.	4813.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV051 Acquired: 11/27/2015 13:55:07 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV051

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	955.27	24602.	4629.8	9075.8	2422.0	1191.6	941.1
Stddev	.46	44.	7.1	16.3	4.1	1.2	9.7
%RSD	.04784	.17897	.15228	.17986	.16857	.10062	1.029
#1	955.54	24561.	4632.3	9076.4	2426.5	1192.4	931.6
#2	954.74	24595.	4621.8	9059.2	2418.7	1190.2	951.0
#3	955.53	24649.	4635.3	9091.8	2420.8	1192.1	940.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	921.55	2432.7	4777.8
Stddev	3.11	25.5	11.9
%RSD	.33768	1.0496	.24901
#1	919.60	2407.9	4779.7
#2	919.91	2458.9	4765.1
#3	925.14	2431.3	4788.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV051 Acquired: 11/27/2015 13:55:07 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV051

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27990.	19732.	400480.
Stddev	190.	121.	3501.
%RSD	.68051	.61508	.87427
#1	28057.	19843.	404290.
#2	28138.	19749.	397400.
#3	27775.	19602.	399760.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB051 Acquired: 11/27/2015 14:00:30 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB051

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.92662	-53.411	-.92337	.58287	.01195	-5.0068	-.0224
Stddev	.13468	41.321	.38908	.47789	.01412	.5824	.2562
%RSD	14.534	77.364	42.137	81.990	118.12	11.631	1144.
#1	-.96977	-88.941	-.48768	.95484	.02775	-4.4019	-.2711
#2	-1.0344	-8.0661	-1.2362	.74987	.00057	-5.5636	.2408
#3	-.77566	-63.227	-1.0463	.04389	.00754	-5.0547	-.0368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17202	-.46204	1.0745	-1.0883	-271.8	-4.007	.08989
Stddev	.17805	.20844	.3613	8.2768	10.5	11.98	.03740
%RSD	103.51	45.112	33.625	760.50	3.854	299.0	41.604
#1	-.16048	-.63340	.82385	-4.0605	-261.1	7.582	.09413
#2	-.35557	-.52273	.91097	-7.4686	-272.1	-3.259	.12499
#3	-.00002	-.23000	1.4886	8.2641	-282.1	-16.35	.05055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB051 Acquired: 11/27/2015 14:00:30 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB051

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.93470	25.941	.50020	-1.0063	-.89776	-.30446	-.5014
Stddev	.11241	19.398	.34189	1.8079	2.5747	.91126	.2237
%RSD	12.026	74.778	68.351	179.66	286.79	299.30	44.61
#1	1.0645	48.315	.82536	-2.3842	-1.7291	.45262	-.7482
#2	.87031	15.682	.14373	-1.6756	1.9899	-1.3159	-.3120
#3	.86929	13.827	.53150	1.0408	-2.9541	-.05013	-.4440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.48488	.21806	-.01088
Stddev	1.5267	.26636	.08013
%RSD	314.85	122.15	736.77
#1	.86210	.04741	-.10185
#2	1.7876	.08178	.01996
#3	-1.1950	.52499	.04926
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB051 Acquired: 11/27/2015 14:00:30 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB051

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30062.	19890.	418510.
Stddev	39.	142.	3415.
%RSD	.12828	.71305	.81596
#1	30027.	19743.	416160.
#2	30104.	20026.	416950.
#3	30056.	19900.	422430.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-014(2) Acquired: 11/27/2015 14:05:18 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.6250	76251.	8.4287	430.71	2.9731	9375.2	.6896
Stddev	.3113	97.	.6906	1.28	.0386	16.6	.1587
%RSD	19.157	.12782	8.1940	.29624	1.2985	.17685	23.02
#1	-1.8569	76355.	7.7939	432.15	2.9440	9382.0	.6932
#2	-1.2712	76162.	8.3282	430.27	3.0169	9356.3	.8464
#3	-1.7468	76237.	9.1642	429.71	2.9584	9387.3	.5290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.291	77.107	86.221	99109.	5406.	24440.	1639.8
Stddev	.297	.781	.903	194.	48.	29.	17.0
%RSD	.73797	1.0128	1.0472	.19538	.8875	.1188	1.0380
#1	40.583	76.386	85.356	99286.	5368.	24440.	1624.9
#2	39.989	77.936	87.157	98902.	5460.	24400.	1658.3
#3	40.303	77.000	86.149	99141.	5390.	24460.	1636.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-014(2) Acquired: 11/27/2015 14:05:18 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4560	406.17	91.689	68.460	-.30268	2.3209	190.3
Stddev	.2630	5.72	.332	.934	.72890	2.2034	3.5
%RSD	18.063	1.4080	.36226	1.3650	240.81	94.938	1.840
#1	1.6536	400.73	91.776	67.413	.23128	.87200	188.7
#2	1.5570	405.66	91.322	68.754	-1.1331	4.8566	194.3
#3	1.1575	412.13	91.969	69.212	-.00624	1.2341	187.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1359	81.666	337.47
Stddev	1.6806	1.046	1.54
%RSD	147.96	1.2809	.45776
#1	.72218	80.701	339.20
#2	2.9846	82.778	337.01
#3	-.29924	81.521	336.21
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-014(2) Acquired: 11/27/2015 14:05:18 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30207.	20441.	413590.
Stddev	148.	33.	3523.
%RSD	.48831	.15922	.85188
#1	30302.	20478.	417650.
#2	30037.	20428.	411410.
#3	30283.	20417.	411700.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.83%	108.42%	104.76%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-016(2) Acquired: 11/27/2015 14:10:03 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3639	59780.	18.288	229.81	2.2729	7372.6	.2653
Stddev	.2458	161.	1.405	.27	.0305	5.2	.1019
%RSD	18.019	.27004	7.6813	.11632	1.3431	.07010	38.42
#1	-1.0807	59794.	17.186	229.79	2.2496	7374.1	.3038
#2	-1.5212	59612.	19.869	230.08	2.3074	7366.8	.3424
#3	-1.4898	59934.	17.808	229.55	2.2616	7376.8	.1497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.801	65.376	69.313	133970.	5008.	30220.	2172.6
Stddev	.360	.285	.771	114.	44.	80.	34.3
%RSD	.82100	.43530	1.1121	.08494	.8760	.2632	1.5788
#1	44.213	65.176	70.203	134020.	5024.	30220.	2153.8
#2	43.641	65.702	68.875	134060.	5042.	30290.	2212.2
#3	43.549	65.250	68.860	133850.	4958.	30130.	2151.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-016(2) Acquired: 11/27/2015 14:10:03 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.85392	266.91	99.089	61.138	.01446	1.4420	115.8
Stddev	.06473	18.04	.762	.811	1.5322	1.4069	1.9
%RSD	7.5803	6.7568	.76895	1.3268	10598.	97.564	1.667
#1	.81004	258.82	99.698	61.429	.97089	.19775	115.3
#2	.92826	254.34	99.334	61.764	-1.7528	1.1596	118.0
#3	.82345	287.57	98.235	60.222	.82531	2.9687	114.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.4105	65.056	354.83
Stddev	.9775	.375	1.93
%RSD	28.662	.57620	.54314
#1	4.5355	64.799	356.90
#2	2.9273	65.486	354.50
#3	2.7687	64.884	353.09
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-016(2) Acquired: 11/27/2015 14:10:03 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30066.	20455.	413350.
Stddev	47.	41.	4506.
%RSD	.15559	.20219	1.0900
#1	30025.	20497.	417320.
#2	30117.	20414.	408460.
#3	30055.	20455.	414270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.35%	108.49%	104.70%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-017(5) Acquired: 11/27/2015 14:14:55 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1578	35670.	10.338	128.78	1.3893	8704.0	.1990
Stddev	.2951	139.	.843	.50	.0541	35.2	.0971
%RSD	25.489	.39034	8.1592	.38999	3.8931	.40421	48.81
#1	-1.3452	35522.	10.910	128.20	1.4511	8663.4	.2834
#2	-.81764	35688.	10.734	129.09	1.3503	8724.9	.2208
#3	-1.3107	35799.	9.3693	129.05	1.3665	8723.7	.0928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.218	40.905	51.659	80067.	1738.	16950.	1129.7
Stddev	.161	1.615	1.311	292.	36.	108.	34.6
%RSD	.63899	3.9472	2.5389	.36479	2.056	.6345	3.0599
#1	25.341	42.736	53.173	79738.	1720.	16840.	1168.1
#2	25.036	39.687	50.867	80296.	1780.	17060.	1101.0
#3	25.278	40.292	50.937	80167.	1715.	16930.	1120.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-017(5) Acquired: 11/27/2015 14:14:55 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.83047	159.99	64.181	31.443	.49426	.01156	51.26
Stddev	.13064	4.20	.031	1.220	.50783	1.7279	1.08
%RSD	15.731	2.6264	.04826	3.8809	102.75	14950.	2.102
#1	.76481	158.36	64.146	30.242	.43279	1.9447	52.28
#2	.74568	156.84	64.194	32.681	1.0300	-1.3827	51.36
#3	.98092	164.76	64.203	31.407	.01996	-.52729	50.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2133	39.850	181.62
Stddev	.5657	1.344	.06
%RSD	46.628	3.3720	.03365
#1	.59579	41.362	181.63
#2	1.3376	38.793	181.55
#3	1.7066	39.395	181.67
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-017(5) Acquired: 11/27/2015 14:14:55 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30238.	20824.	409980.
Stddev	155.	256.	9746.
%RSD	.51409	1.2288	2.3771
#1	30212.	20877.	399860.
#2	30096.	21050.	419310.
#3	30404.	20546.	410770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.94%	110.45%	103.85%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-018(2) Acquired: 11/27/2015 14:19:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.78981	57044.	16.782	221.60	2.0585	16873.	.5405
Stddev	.43358	145.	.795	.71	.0358	24.	.0889
%RSD	54.897	.25340	4.7393	.32208	1.7380	.14519	16.44
#1	-1.0181	57035.	17.583	221.17	2.0990	16851.	.4400
#2	-1.0615	56904.	16.771	221.21	2.0453	16899.	.6087
#3	-.28979	57193.	15.992	222.42	2.0312	16867.	.5728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.553	61.185	75.183	122830.	3883.	32700.	2289.1
Stddev	.297	.887	.600	324.	22.	92.	9.0
%RSD	.77042	1.4498	.79796	.26383	.5668	.2804	.39232
#1	38.581	62.209	75.875	122470.	3862.	32640.	2292.6
#2	38.834	60.694	74.866	122930.	3906.	32800.	2278.9
#3	38.242	60.652	74.808	123090.	3881.	32660.	2295.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-018(2) Acquired: 11/27/2015 14:19:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0028	306.71	93.270	77.427	-.78195	1.2606	132.5
Stddev	.1961	11.67	.349	2.171	1.2361	1.3385	3.6
%RSD	19.560	3.8038	.37390	2.8036	158.07	106.18	2.722
#1	1.2291	295.26	93.594	79.407	-1.6674	2.5264	136.7
#2	.89861	306.30	93.314	77.768	-1.3086	-.14040	130.3
#3	.88075	318.58	92.901	75.106	.63022	1.3959	130.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.2460	69.956	366.92
Stddev	.8863	1.137	1.61
%RSD	27.306	1.6250	.43870
#1	4.1064	71.265	368.29
#2	2.3358	69.393	367.32
#3	3.2958	69.211	365.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK17017-018(2) Acquired: 11/27/2015 14:19:41 Type: Unk
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29874.	20412.	411600.
Stddev	111.	95.	4735.
%RSD	.37082	.46493	1.1504
#1	29750.	20356.	406220.
#2	29963.	20358.	415150.
#3	29908.	20521.	413410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.70%	108.26%	104.26%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/27/2015 14:24:33 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV052

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	715.43	50304.	2439.7	9679.7	1034.3	48475.	991.1
Stddev	5.08	260.	5.9	72.7	10.8	271.	2.1
%RSD	.71061	.51620	.24291	.75115	1.0395	.55819	.2075
#1	717.30	50522.	2435.1	9671.0	1023.0	48724.	989.1
#2	709.67	50017.	2437.6	9756.4	1035.4	48187.	991.0
#3	719.31	50375.	2446.4	9611.8	1044.4	48513.	993.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4869.5	9411.0	12222.	23889.	35080.	47800.	4758.7
Stddev	9.4	159.9	144.	111.	186.	347.	36.4
%RSD	.19300	1.6987	1.1799	.46622	.5314	.7266	.76528
#1	4859.6	9227.3	12098.	24003.	35270.	48010.	4763.2
#2	4870.5	9486.7	12380.	23780.	34900.	47400.	4720.2
#3	4878.3	9518.9	12189.	23885.	35060.	48000.	4792.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/27/2015 14:24:33 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV052

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	970.99	24529.	4694.2	9231.0	2469.7	1207.5	947.1
Stddev	2.12	145.	10.0	18.3	4.9	3.2	5.6
%RSD	.21876	.58915	.21275	.19789	.19866	.26480	.5943
#1	968.88	24680.	4685.8	9214.3	2467.2	1203.9	949.7
#2	970.96	24393.	4691.5	9228.0	2466.6	1208.5	940.6
#3	973.13	24513.	4705.2	9250.5	2475.4	1210.0	951.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	943.96	2462.5	4868.8
Stddev	2.91	15.9	10.3
%RSD	.30792	.64396	.21232
#1	940.62	2469.1	4858.6
#2	945.28	2444.4	4868.7
#3	945.97	2473.9	4879.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/27/2015 14:24:33 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV052

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27791.	19210.	398900.
Stddev	100.	201.	1528.
%RSD	.36132	1.0449	.38302
#1	27907.	18979.	398550.
#2	27730.	19343.	400570.
#3	27736.	19307.	397580.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/27/2015 14:29:55 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB052

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1645	-54.745	-1.0222	.55848	.02495	-11.834	.0178
Stddev	.3330	11.440	.1028	.21660	.00661	1.976	.1771
%RSD	28.597	20.898	10.057	38.784	26.490	16.697	994.2
#1	-1.4480	-41.686	-.94894	.49380	.01936	-12.693	-.1583
#2	-1.2479	-63.001	-1.1398	.80005	.03224	-13.235	.1959
#3	-.79776	-59.547	-.97800	.38158	.02325	-9.5740	.0158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11461	-.35406	.89869	6.2564	-274.2	-9.792	.09157
Stddev	.27207	.19266	.89004	3.3327	46.9	28.83	.00280
%RSD	237.38	54.414	99.037	53.268	17.11	294.5	3.0600
#1	.18421	-.15165	-.09814	3.1178	-234.5	-42.35	.08925
#2	-.18008	-.37534	1.6137	9.7541	-262.1	12.54	.09468
#3	-.34797	-.53520	1.1805	5.8974	-325.9	.4299	.09078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/27/2015 14:29:55 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB052

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1394	25.981	.31305	.19816	.12100	-.60843	-.3501
Stddev	.0973	3.803	.15512	.82461	.74686	.99925	.2303
%RSD	8.5413	14.639	49.553	416.14	617.23	164.23	65.79
#1	1.0870	24.083	.13417	1.1461	.44525	-1.5813	-.0842
#2	1.0795	23.500	.39445	-.35313	.65094	-.65928	-.4849
#3	1.2517	30.360	.41053	-.19854	-.73319	.41528	-.4813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.95518	.46100	-.03070
Stddev	1.1104	.23245	.03052
%RSD	116.25	50.422	99.432
#1	-.17103	.44713	-.03770
#2	.98741	.70008	.00272
#3	2.0491	.23580	-.05711
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/27/2015 14:29:55 Type: QC
Method: CLP ISM Method ICP5 A(v20) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB052

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	30002.	19740.	417710.
Stddev	66.	80.	1762.
%RSD	.21929	.40724	.42185
#1	29935.	19650.	419570.
#2	30003.	19769.	417500.
#3	30067.	19803.	416070.

PDF created with pdfFactory trial version www.pdffactory.com

ICP-AES
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1 Sample ID:	S0	EPA Sample ID:	S0		Date:	11/21/2015	13:48:17	Dilution:	1
2 Sample ID:	S01 ISM-520	EPA Sample ID:	S01		Date:	11/21/2015	13:53:04	Dilution:	1
3 Sample ID:	S02 ISM-521	EPA Sample ID:	S02		Date:	11/21/2015	13:57:49	Dilution:	1
4 Sample ID:	S03 ISM-538	EPA Sample ID:	S03		Date:	11/21/2015	14:02:35	Dilution:	1
5 Sample ID:	S04 ISM-523	EPA Sample ID:	S04		Date:	11/21/2015	14:07:48	Dilution:	1
6 Sample ID:	S05 ISM-524	EPA Sample ID:	S05		Date:	11/21/2015	14:13:14	Dilution:	1
7 Sample ID:	S06 ISM-463	EPA Sample ID:	S06		Date:	11/21/2015	14:18:46	Dilution:	1
8 Sample ID:	S07 ISM-464	EPA Sample ID:	S07		Date:	11/21/2015	14:23:30	Dilution:	1
9 Sample ID:	S08 ISM-465	EPA Sample ID:	S08		Date:	11/21/2015	14:28:19	Dilution:	1
10 Sample ID:	S09 ISM-456	EPA Sample ID:	S09		Date:	11/21/2015	14:33:01	Dilution:	1
11 Sample ID:	S10 ISM-457	EPA Sample ID:	S10		Date:	11/21/2015	14:37:48	Dilution:	1
12 Sample ID:	ICV1	EPA Sample ID:	ICV001		Date:	11/21/2015	14:42:40	Dilution:	1
13 Sample ID:	ICB1	EPA Sample ID:	ICB001		Date:	11/21/2015	14:47:31	Dilution:	1
14 Sample ID:	ICS-A1	EPA Sample ID:	ICSA001		Date:	11/21/2015	14:52:18	Dilution:	1
15 Sample ID:	ICS-AB1	EPA Sample ID:	ICSAB001		Date:	11/21/2015	14:57:09	Dilution:	1
16 Sample ID:	CCV1	EPA Sample ID:	CCV001		Date:	11/21/2015	15:02:07	Dilution:	1
17 Sample ID:	CCB1	EPA Sample ID:	CCB001		Date:	11/21/2015	15:07:21	Dilution:	1
18 Sample ID:	QQ89995-001	EPA Sample ID:	PBW001		Date:	11/21/2015	15:12:08	Dilution:	1
19 Sample ID:	QQ89995-002	EPA Sample ID:	LCS001		Date:	11/21/2015	15:16:55	Dilution:	1
20 Sample ID:	QK12004-010	EPA Sample ID:	MBC7G3		Date:	11/21/2015	15:21:40	Dilution:	1
21 Sample ID:	QK12004-010L	EPA Sample ID:	MBC7G3L		Date:	11/21/2015	15:26:26	Dilution:	5
22 Sample ID:	QK12004-010DU	EPA Sample ID:	MBC7G3D		Date:	11/21/2015	15:31:12	Dilution:	1
23 Sample ID:	QK12004-010MS	EPA Sample ID:	MBC7G3S		Date:	11/21/2015	15:35:57	Dilution:	1
24 Sample ID:	QK12004-010A	EPA Sample ID:	MBC7G3A		Date:	11/21/2015	15:40:44	Dilution:	1
25 Sample ID:	QK12004-011	EPA Sample ID:	MBC7G4		Date:	11/21/2015	15:45:31	Dilution:	1
26 Sample ID:	QK12004-012	EPA Sample ID:	MBC7G5		Date:	11/21/2015	15:50:18	Dilution:	1
27 Sample ID:	QK12004-013	EPA Sample ID:	MBC7G6		Date:	11/21/2015	15:55:04	Dilution:	1
28 Sample ID:	QK17017-020	EPA Sample ID:	MBC764		Date:	11/21/2015	15:59:52	Dilution:	1
29 Sample ID:	QK04017-001	EPA Sample ID:	MX2171		Date:	11/21/2015	16:04:39	Dilution:	1
30 Sample ID:	QK04017-001L	EPA Sample ID:	MX2171L		Date:	11/21/2015	16:09:30	Dilution:	5
31 Sample ID:	QK04017-001DU	EPA Sample ID:	MX2171D		Date:	11/21/2015	16:14:13	Dilution:	1
32 Sample ID:	QK04017-001MS	EPA Sample ID:	MX2171S		Date:	11/21/2015	16:19:05	Dilution:	1
Ag3280	RECOVERY IS OUT OF CRITERIA		126.7900	1500	50.0	40.0	2.00	1.60	10.00
33 Sample ID:	QK04017-001A	EPA Sample ID:	MX2171A		Date:	11/21/2015	16:23:56	Dilution:	1
34 Sample ID:	QK13012-001	EPA Sample ID:	MBC763		Date:	11/21/2015	16:28:46	Dilution:	1
35 Sample ID:	QK13012-001L	EPA Sample ID:	MBC763L		Date:	11/21/2015	16:33:33	Dilution:	5
36 Sample ID:	QK13012-001DU	EPA Sample ID:	MBC763D		Date:	11/21/2015	16:38:22	Dilution:	1
37 Sample ID:	QK13012-001MS	EPA Sample ID:	MBC763S		Date:	11/21/2015	16:43:08	Dilution:	1
38 Sample ID:	QK13012-001A	EPA Sample ID:	MBC763A		Date:	11/21/2015	16:47:56	Dilution:	1
39 Sample ID:	CCV2	EPA Sample ID:	CCV002		Date:	11/21/2015	16:52:43	Dilution:	1
40 Sample ID:	CCB2	EPA Sample ID:	CCB002		Date:	11/21/2015	16:57:57	Dilution:	1

Analytical Review Report

Data File: ***I5112715A ISMecs***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
41· Sample ID:	**S0**	**EPA Sample ID:**	**S0**		**Date:**	**11/27/2015**	**09:07:18**	**Dilution:**	**1**
42· Sample ID:	**S01 ISM-520**	**EPA Sample ID:**	**S01**		**Date:**	**11/27/2015**	**09:12:04**	**Dilution:**	**1**
43· Sample ID:	**S02 ISM-521**	**EPA Sample ID:**	**S02**		**Date:**	**11/27/2015**	**09:16:49**	**Dilution:**	**1**
44· Sample ID:	**S03 ISM-538**	**EPA Sample ID:**	**S03**		**Date:**	**11/27/2015**	**09:21:33**	**Dilution:**	**1**
45· Sample ID:	**S04 ISM-523**	**EPA Sample ID:**	**S04**		**Date:**	**11/27/2015**	**09:26:56**	**Dilution:**	**1**
46· Sample ID:	**S05 ISM-524**	**EPA Sample ID:**	**S05**		**Date:**	**11/27/2015**	**09:32:22**	**Dilution:**	**1**
47· Sample ID:	**S06 ISM-547**	**EPA Sample ID:**	**S06**		**Date:**	**11/27/2015**	**09:37:56**	**Dilution:**	**1**
48· Sample ID:	**S07 ISM-545**	**EPA Sample ID:**	**S07**		**Date:**	**11/27/2015**	**09:42:46**	**Dilution:**	**1**
49· Sample ID:	**S08 ISM-546**	**EPA Sample ID:**	**S08**		**Date:**	**11/27/2015**	**09:47:34**	**Dilution:**	**1**
50· Sample ID:	**S09 ISM-541**	**EPA Sample ID:**	**S09**		**Date:**	**11/27/2015**	**09:52:17**	**Dilution:**	**1**
51· Sample ID:	**S10 ISM-542**	**EPA Sample ID:**	**S10**		**Date:**	**11/27/2015**	**09:57:04**	**Dilution:**	**1**
52· Sample ID:	**ICV2**	**EPA Sample ID:**	**ICV047**		**Date:**	**11/27/2015**	**10:01:58**	**Dilution:**	**1**
53· Sample ID:	**ICB2**	**EPA Sample ID:**	**ICB048**		**Date:**	**11/27/2015**	**10:06:47**	**Dilution:**	**1**
54· Sample ID:	**ICS-A2**	**EPA Sample ID:**	**ICSA002**		**Date:**	**11/27/2015**	**10:11:36**	**Dilution:**	**1**
55· Sample ID:	**ICS-AB2**	**EPA Sample ID:**	**ICSAB002**		**Date:**	**11/27/2015**	**10:16:27**	**Dilution:**	**1**
56· Sample ID:	**CCV3**	**EPA Sample ID:**	**CCV049**		**Date:**	**11/27/2015**	**10:21:25**	**Dilution:**	**1**
57· Sample ID:	**CCB3**	**EPA Sample ID:**	**CCB049**		**Date:**	**11/27/2015**	**10:26:47**	**Dilution:**	**1**
58· Sample ID:	**QQ90333-001**	**EPA Sample ID:**	**PBS002**		**Date:**	**11/27/2015**	**10:31:34**	**Dilution:**	**1**
59· Sample ID:	**QQ90333-002**	**EPA Sample ID:**	**LCS002**		**Date:**	**11/27/2015**	**10:36:21**	**Dilution:**	**1**
60· Sample ID:	**QK17017-001**	**EPA Sample ID:**	**MBC7B8**		**Date:**	**11/27/2015**	**10:41:06**	**Dilution:**	**1**
Cd2288			3.0240	2000			5.00	0.04	0.50
Cu3273			228.6600	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		157660.0000	150000			3.00	2.60	10.00
Ni2316			143.0200	10000			0.00	0.21	4.00
Pb2203			307.6500	20000			1.00	0.28	1.00
61· Sample ID:	**QK17017-001L**	**EPA Sample ID:**	**MBC7B8L**		**Date:**	**11/27/2015**	**10:45:58**	**Dilution:**	**5**
62· Sample ID:	**QK17017-001DU**	**EPA Sample ID:**	**MBC7B8D**		**Date:**	**11/27/2015**	**10:50:41**	**Dilution:**	**1**
63· Sample ID:	**QK17017-001MS**	**EPA Sample ID:**	**MBC7B8S**		**Date:**	**11/27/2015**	**10:55:34**	**Dilution:**	**1**
64· Sample ID:	**QK17017-001A**	**EPA Sample ID:**	**MBC7B8A**		**Date:**	**11/27/2015**	**11:00:24**	**Dilution:**	**1**
65· Sample ID:	**QK17017-002**	**EPA Sample ID:**	**MBC7D3**		**Date:**	**11/27/2015**	**11:05:14**	**Dilution:**	**1**
Cd2288			0.6118	2000			16.00	0.04	0.50
Cu3273			110.2400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		153810.0000	150000			0.00	2.60	10.00
Ni2316			140.8300	10000			0.00	0.21	4.00
Pb2203			67.4510	20000			2.00	0.28	1.00
66· Sample ID:	**QK17017-003**	**EPA Sample ID:**	**MBC7D4**		**Date:**	**11/27/2015**	**11:10:03**	**Dilution:**	**1**
Cd2288			0.3487	2000			41.00	0.04	0.50
Cu3273			141.1600	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		219970.0000	150000			1.00	2.60	10.00
Ni2316			193.2500	10000			0.00	0.21	4.00
Pb2203			114.3400	20000			0.00	0.28	1.00

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
67· Sample ID: QK17017-004	**EPA Sample ID: MBC7H4**			**Date: 11/27/2015**		**11:14:55**	**Dilution:**	**1**
Cd2288		0.7428	2000			11.00	0.04	0.50
Cu3273		144.0700	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	195750.0000	150000			0.00	2.60	10.00
Ni2316		161.3600	10000			0.00	0.21	4.00
Pb2203		85.0770	20000			2.00	0.28	1.00
68· Sample ID: QK17017-005	**EPA Sample ID: MBC7H5**			**Date: 11/27/2015**		**11:19:48**	**Dilution:**	**1**
Cd2288		0.8291	2000			14.00	0.04	0.50
Cu3273		133.0600	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	160770.0000	150000			1.00	2.60	10.00
Ni2316		153.5600	10000			0.00	0.21	4.00
Pb2203		106.4600	20000			1.00	0.28	1.00
69· Sample ID: QK17017-006	**EPA Sample ID: MBC7H6**			**Date: 11/27/2015**		**11:24:41**	**Dilution:**	**1**
Cd2288		0.4952	2000			14.00	0.04	0.50
Cu3273		171.8300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	221520.0000	150000			0.00	2.60	10.00
Ni2316		183.0800	10000			0.00	0.21	4.00
Pb2203		114.4600	20000			2.00	0.28	1.00
70· Sample ID: QK17017-007	**EPA Sample ID: MBC7J0**			**Date: 11/27/2015**		**11:29:33**	**Dilution:**	**1**
71· Sample ID: QK17017-008	**EPA Sample ID: MBC7B7**			**Date: 11/27/2015**		**11:34:25**	**Dilution:**	**1**
72· Sample ID: QK17017-009	**EPA Sample ID: MBC7B9**			**Date: 11/27/2015**		**11:39:17**	**Dilution:**	**1**
73· Sample ID: QK17017-009L	**EPA Sample ID: MBC7B9L**			**Date: 11/27/2015**		**11:44:08**	**Dilution:**	**5**
Na5895	RPD IS OUT OF CRITERIA	161.3800	100000		15.0	3.00	4.90	500.00
Pb2203	RPD IS OUT OF CRITERIA	45.7170	20000		15.0	1.00	0.28	1.00
74· Sample ID: QK17017-009DU	**EPA Sample ID: MBC7B9D**			**Date: 11/27/2015**		**11:48:52**	**Dilution:**	**1**
75· Sample ID: QK17017-009MS	**EPA Sample ID: MBC7B9S**			**Date: 11/27/2015**		**11:53:44**	**Dilution:**	**1**
Sb2068	RECOVERY IS OUT OF CRITERIA	36.1740	5000	200.0	18.0	6.00	0.35	6.00
76· Sample ID: QK17017-009A	**EPA Sample ID: MBC7B9A**			**Date: 11/27/2015**		**11:58:35**	**Dilution:**	**1**
77· Sample ID: QK17017-010	**EPA Sample ID: MBC7C0**			**Date: 11/27/2015**		**12:03:27**	**Dilution:**	**1**
78· Sample ID: CCV4	**EPA Sample ID: CCV050**			**Date: 11/27/2015**		**12:08:19**	**Dilution:**	**1**
79· Sample ID: CCB4	**EPA Sample ID: CCB050**			**Date: 11/27/2015**		**12:13:42**	**Dilution:**	**1**
80· Sample ID: QK17017-011	**EPA Sample ID: MBC7C1**			**Date: 11/27/2015**		**12:18:31**	**Dilution:**	**1**
Cd2288		2.9020	2000			4.00	0.04	0.50
Cu3273		226.5200	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	158020.0000	150000			0.00	2.60	10.00
Ni2316		141.9800	10000			0.00	0.21	4.00
Pb2203		301.1700	20000			0.00	0.28	1.00
81· Sample ID: QK17017-012	**EPA Sample ID: MBC7C2**			**Date: 11/27/2015**		**12:23:23**	**Dilution:**	**1**
82· Sample ID: QK17017-013	**EPA Sample ID: MBC7C3**			**Date: 11/27/2015**		**12:28:15**	**Dilution:**	**1**
83· Sample ID: QK17017-014	**EPA Sample ID: MBC7C4**			**Date: 11/27/2015**		**12:33:08**	**Dilution:**	**1**
Cd2288		1.1210	2000			14.00	0.04	0.50
Cu3273		153.9500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	174380.0000	150000			0.00	2.60	10.00
Ni2316		162.2700	10000			0.00	0.21	4.00
Pb2203		120.3800	20000			1.00	0.28	1.00
84· Sample ID: QK17017-015	**EPA Sample ID: MBC7C5**			**Date: 11/27/2015**		**12:37:59**	**Dilution:**	**1**

Analytical Review Report

Data File: ***I5112715A ISMecs***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
85 Sample ID:	**QK17017-016**	**EPA Sample ID:**	**MBC7C6**		**Date:**	**11/27/2015**	**12:42:50**	**Dilution:**	**1**
Cd2288			0.5936	2000			20.00	0.04	0.50
Cu3273			136.0700	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		269350.0000	150000			0.00	2.60	10.00
Ni2316			196.5000	10000			1.00	0.21	4.00
Pb2203			118.9600	20000			1.00	0.28	1.00
86 Sample ID:	**QK17017-017**	**EPA Sample ID:**	**MBC7C7**		**Date:**	**11/27/2015**	**12:47:40**	**Dilution:**	**1**
Cd2288			0.8283	2000			13.00	0.04	0.50
Cu3273			219.2700	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		348240.0000	150000			4.00	2.60	10.00
Ni2316			274.5300	10000			0.00	0.21	4.00
Pb2203			130.4600	20000			4.00	0.28	1.00
87 Sample ID:	**QK17017-018**	**EPA Sample ID:**	**MBC7C8**		**Date:**	**11/27/2015**	**12:52:39**	**Dilution:**	**1**
Cd2288			0.9515	2000			30.00	0.04	0.50
Cu3273			146.7400	25000			3.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		232540.0000	150000			0.00	2.60	10.00
Ni2316			177.9000	10000			0.00	0.21	4.00
Pb2203			145.4000	20000			1.00	0.28	1.00
88 Sample ID:	**QK17017-019**	**EPA Sample ID:**	**MBC7D2**		**Date:**	**11/27/2015**	**12:57:31**	**Dilution:**	**1**
89 Sample ID:	**QK17017-001**	**EPA Sample ID:**	**MBC7B8**		**Date:**	**11/27/2015**	**13:02:14**	**Dilution:**	**2**
90 Sample ID:	**QK17017-001L**	**EPA Sample ID:**	**MBC7B8L**		**Date:**	**11/27/2015**	**13:06:59**	**Dilution:**	**10**
Cu3273	RPD IS OUT OF CRITERIA		24.6090	25000		12.0	4.00	0.24	2.50
Ni2316	RPD IS OUT OF CRITERIA		15.5360	10000		12.0	1.00	0.21	4.00
91 Sample ID:	**QK17017-001DU**	**EPA Sample ID:**	**MBC7B8D**		**Date:**	**11/27/2015**	**13:11:44**	**Dilution:**	**2**
92 Sample ID:	**QK17017-001MS**	**EPA Sample ID:**	**MBC7B8S**		**Date:**	**11/27/2015**	**13:16:37**	**Dilution:**	**2**
Sb2068	RECOVERY IS OUT OF CRITERIA		17.2740	5000	200.0	17.0	4.00	0.35	6.00
93 Sample ID:	**QK17017-001A**	**EPA Sample ID:**	**MBC7B8A**		**Date:**	**11/27/2015**	**13:21:30**	**Dilution:**	**2**
94 Sample ID:	**QK17017-002**	**EPA Sample ID:**	**MBC7D3**		**Date:**	**11/27/2015**	**13:26:24**	**Dilution:**	**2**
95 Sample ID:	**QK17017-003**	**EPA Sample ID:**	**MBC7D4**		**Date:**	**11/27/2015**	**13:31:09**	**Dilution:**	**2**
96 Sample ID:	**QK17017-004**	**EPA Sample ID:**	**MBC7H4**		**Date:**	**11/27/2015**	**13:35:53**	**Dilution:**	**2**
97 Sample ID:	**QK17017-005**	**EPA Sample ID:**	**MBC7H5**		**Date:**	**11/27/2015**	**13:40:46**	**Dilution:**	**2**
98 Sample ID:	**QK17017-006**	**EPA Sample ID:**	**MBC7H6**		**Date:**	**11/27/2015**	**13:45:30**	**Dilution:**	**2**
99 Sample ID:	**QK17017-011**	**EPA Sample ID:**	**MBC7C1**		**Date:**	**11/27/2015**	**13:50:14**	**Dilution:**	**2**
100 Sample ID:	**CCV5**	**EPA Sample ID:**	**CCV051**		**Date:**	**11/27/2015**	**13:55:07**	**Dilution:**	**1**
101 Sample ID:	**CCB5**	**EPA Sample ID:**	**CCB051**		**Date:**	**11/27/2015**	**14:00:30**	**Dilution:**	**1**
102 Sample ID:	**QK17017-014**	**EPA Sample ID:**	**MBC7C4**		**Date:**	**11/27/2015**	**14:05:18**	**Dilution:**	**2**
103 Sample ID:	**QK17017-016**	**EPA Sample ID:**	**MBC7C6**		**Date:**	**11/27/2015**	**14:10:03**	**Dilution:**	**2**
104 Sample ID:	**QK17017-017**	**EPA Sample ID:**	**MBC7C7**		**Date:**	**11/27/2015**	**14:14:55**	**Dilution:**	**5**
105 Sample ID:	**QK17017-018**	**EPA Sample ID:**	**MBC7C8**		**Date:**	**11/27/2015**	**14:19:41**	**Dilution:**	**2**
106 Sample ID:	**CCV6**	**EPA Sample ID:**	**CCV052**		**Date:**	**11/27/2015**	**14:24:33**	**Dilution:**	**1**
107 Sample ID:	**CCB6**	**EPA Sample ID:**	**CCB052**		**Date:**	**11/27/2015**	**14:29:55**	**Dilution:**	**1**

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 12/03/15 1309

Prep Batch: 89995

ISM02.2 A PREP 200.7: ICP-AES - ICP-AES digestion for waters

Start Date: 11/19/2015 1104
End Date: 11/20/2015 1241

Level 2 Analyst: FTS

Digestion Cup ID: 1504103

Ext Solvent: 1:1 HNO3/1:1 HCl
Reagents Vol. (mL): 1.0, 0.5
Chem ID: IM6310-01(1/9/16) IM3610-02(1/9/16)

Hot Block ID: Hot Block #2

Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89995-001	MB	PBS	1	ISM02.2 ICP	50.000		0.0	50			
QQ89995-002	LCS	LCS	1	ISM02.2 ICP	50.000	15-868-01(8/16)	1.0	50			pipette:247
QK12004-010	Sample	MBC7G3	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0835	11/15/2015	
QK12004-010MS	MS	MBC7G3S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK12004-010DU	Duplicate	MBC7G3D	1	ISM02.2 ICP	50.000		0.0	50			
QK12004-011	Sample	MBC7G4	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0900	11/15/2015	
QK12004-012	Sample	MBC7G5	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0915	11/15/2015	
QK12004-013	Sample	MBC7G6	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0920	11/15/2015	
QK04017-001	Sample	MX2171	1	ISM02.2 ICP	50.000		0.0	50	05/01/2016 1200	11/17/2015	
QK04017-001MS	MS	MX2171S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK04017-001DU	Duplicate	MX2171D	1	ISM02.2 ICP	50.000		0.0	50			
QK13012-001	Sample	MBC763	1	ISM02.2 ICP	50.000		0.0	50	05/10/2016 0800	11/17/2015	
QK13012-001MS	MS	MBC763S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK13012-001DU	Duplicate	MBC763D	1	ISM02.2 ICP	50.000		0.0	50			
QK17017-020	Sample	MBC764	1	ISM02.2 ICP	50.000		0.0	50	05/14/2016 1215	11/20/2015	

(end of report)

Total Samples: 7

All samples have a pH < 2

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/03/15 1308

Prep Batch: 90333

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/23/2015 0940
End Date: 11/23/2015 1559
Level 2 Analyst: ECS
Digestion Cup ID: 1504103/2103333
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0, 5.0, 10.0, 10.0
Chem ID: IM6310-01(1/9/16) 15-1242(7/17
Balance ID: Balance #9B(/18)
Hot Block ID: Hot Block #3
Filter Paper Lot Num: 50630759
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90333-001	MB	PBS	1	ISM02.2 ICP	1.0000		0.0	100			
QQ90333-002	LCS	LCS	1	ISM02.2 ICP	1.0000	15-868-01(8/16)	2.0	100			pipette:251
QK17017-001	Sample	MBC7B8	1	ISM02.2 ICP	1.4470		0.0	100	05/14/2016 1010	11/20/2015	
QK17017-001MS	MS	MBC7B8S	1	ISM02.2 ICP	1.3280	15-934(10/16)	1.0	100			pipette:274
QK17017-001DU	Duplicate	MBC7B8D	1	ISM02.2 ICP	1.2230		0.0	100			
QK17017-002	Sample	MBC7D3	1	ISM02.2 ICP	1.4620		0.0	100	05/14/2016 1620	11/20/2015	
QK17017-003	Sample	MBC7D4	1	ISM02.2 ICP	1.3120		0.0	100	05/14/2016 1610	11/20/2015	
QK17017-004	Sample	MBC7H4	1	ISM02.2 ICP	1.3080		0.0	100	05/14/2016 1630	11/20/2015	
QK17017-005	Sample	MBC7H5	1	ISM02.2 ICP	1.2020		0.0	100	05/14/2016 1650	11/20/2015	
QK17017-006	Sample	MBC7H6	1	ISM02.2 ICP	1.2270		0.0	100	05/14/2016 1640	11/20/2015	
QK17017-007	Sample	MBC7J0	1	ISM02.2 ICP	1.1370		0.0	100	05/14/2016 0955	11/20/2015	
QK17017-008	Sample	MBC7B7	1	ISM02.2 ICP	1.1700		0.0	100	05/14/2016 0950	11/20/2015	
QK17017-009	Sample	MBC7B9	1	ISM02.2 ICP	1.4090		0.0	100	05/14/2016 1000	11/20/2015	
QK17017-009MS	MS	MBC7B9S	1	ISM02.2 ICP	1.4890	15-934(10/16)	1.0	100			pipette:274
QK17017-009DU	Duplicate	MBC7B9D	1	ISM02.2 ICP	1.4530		0.0	100			
QK17017-010	Sample	MBC7C0	1	ISM02.2 ICP	1.1800		0.0	100	05/14/2016 1030	11/20/2015	
QK17017-011	Sample	MBC7C1	1	ISM02.2 ICP	1.4490		0.0	100	05/14/2016 1050	11/20/2015	
QK17017-012	Sample	MBC7C2	1	ISM02.2 ICP	1.3000		0.0	100	05/14/2016 1040	11/20/2015	
QK17017-013	Sample	MBC7C3	1	ISM02.2 ICP	1.1840		0.0	100	05/14/2016 1140	11/20/2015	
QK17017-014	Sample	MBC7C4	1	ISM02.2 ICP	1.4070		0.0	100	05/14/2016 1200	11/20/2015	
QK17017-015	Sample	MBC7C5	1	ISM02.2 ICP	1.3900		0.0	100	05/14/2016 1150	11/20/2015	
QK17017-016	Sample	MBC7C6	1	ISM02.2 ICP	1.2550		0.0	100	05/14/2016 1215	11/20/2015	
QK17017-017	Sample	MBC7C7	1	ISM02.2 ICP	1.3410		0.0	100	05/14/2016 1235	11/20/2015	
QK17017-018	Sample	MBC7C8	1	ISM02.2 ICP	1.4650		0.0	100	05/14/2016 1225	11/20/2015	
QK17017-019	Sample	MBC7D2	1	ISM02.2 ICP	1.1680		0.0	100	05/14/2016 1600	11/20/2015	

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Prep Batch: 90333
ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/23/2015 0940
End Date: 11/23/2015 1559
Level 2 Analyst: ECS
Digestion Cup ID: 1504103/2103333
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0, 5.0, 10.0, 10.0
Filter Paper Lot Num: 50630759
Chem ID: IM6310-01(1/9/16) 15-1242(7/17 **Balance ID:** Balance #9B(/18) **Hot Block ID:** Hot Block #3
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments

(end of report) **Total Samples: 19**

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-520
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	S01 ICP ISM		

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.2	200	200
Antimony	15-78	60	"	"	60
Arsenic	15-76	10	"	"	10
Barium	"	2000	"	"	2000
Beryllium	"	5	"	"	5
Cadmium	"	5	"	"	5
Calcium	"	5000	"	"	5000
Chromium	"	10	"	"	10
Cobalt	"	50	"	"	50
Copper	"	25	"	"	25
Iron	"	100	"	"	100
Lead	"	10	"	"	10
Magnesium	"	5000	"	"	5000
Manganese	15-79	15	"	"	15
Molybdenum	15-76	50	"	"	50
Nickel	"	40	"	"	40
Potassium	"	5000	"	"	5000
Selenium	"	35	"	"	35
Silver	"	10	"	"	10
Sodium	"	3000	"	"	3000
Thallium	"	25	"	"	25
Titanium	15-79	50	"	"	50
Vanadium	15-76	50	"	"	50
Zinc	"	60	"	"	60

ISM STANDARD LOG

Analyst: NLM	Working Standard No.: ISM-521 (EXP 2/5/16)
Date: 11/5/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S02 ICP ISM.	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	15-76	200	0.8	200	800
☐ N/A	Antimony	15-78	60			240
☐ N/A	Arsenic	15-76	10			40
☐ N/A	Barium		200			800
☐ N/A	Beryllium		5			20
☐ N/A	Cadmium		5			20
☐ N/A	Calcium		5000			20000
☐ N/A	Chromium		10			40
☐ N/A	Cobalt		50			200
☐ N/A	Copper		25			100
☐ N/A	Iron		100			400
☐ N/A	Lead		10			40
☐ N/A	Magnesium		5000			20000
☐ N/A	Manganese	15-76	15			60
☐ N/A	Molybdenum	15-79	50	0.4		100
☐ N/A	Nickel	15-76	40	0.8		160
☐ N/A	Potassium		5000			20000
☐ N/A	Selenium		35			140
☐ N/A	Silver		10			40
☐ N/A	Sodium		3000			12000
☐ N/A	Thallium		25			100
☐ N/A	Titanium	15-79	50	0.4		100
☐ N/A	Vanadium	15-76	50	0.8		200
☐ N/A	Zinc		60			240

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-538
Date: 11/13/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: S03/CCV ICP	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	15-377	1000	2.5	500	50000
☐ N/A	Antimony	15-77	500			2500
☐ N/A	Arsenic	15-81	500			2500
☐ N/A	Barium		2000			10000
☐ N/A	Beryllium		200			1000
☐ N/A	Cadmium		200			1000
☐ N/A	Calcium	15-377	10000			50000
☐ N/A	Chromium	15-81	2000			10000
☐ N/A	Cobalt		1000			5000
☐ N/A	Copper		2500			12500
☐ N/A	Iron	15-377	5000			25000
☐ N/A	Lead	15-81	2000			10000
☐ N/A	Magnesium	15-377	10000			50000
☐ N/A	Manganese	15-81	1000			5000
☐ N/A	Molybdenum	15-80	200			1000
☐ N/A	Nickel	15-81	1000			5000
☐ N/A	Potassium	15-377	7500			37500
☐ N/A	Selenium	15-81	2500			1250
☐ N/A	Silver		150			750
☐ N/A	Sodium	15-377	5000			25000
☐ N/A	Thallium	15-81	200			1000
☐ N/A	Titanium	15-80	200			1000
☐ N/A	Vanadium	15-81	500			2500
☐ N/A	Zinc		1000			5000

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-523 (Exp 2/12/16)
Date: 11/12/15	Solvent: 5% HCl (15-127) 5% HNO_3 (15-1242)
Comments: SO4 ICP	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	3.75	500	3750
☐ N/A	Arsenic	15-81	500	"	"	3750
☐ N/A	Barium	"	2000	"	"	15000
☐ N/A	Beryllium	"	200	"	"	1500
☐ N/A	Cadmium	"	200	"	"	1500
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	3.75	500	15000
☐ N/A	Cobalt	"	1000	"	"	750
☐ N/A	Copper	"	2500	"	"	18750
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	3.75	500	15000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	3.75	500	7500
☐ N/A	Molybdenum	15-80	200	"	"	1500
☐ N/A	Nickel	15-81	1000	"	"	7500
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	3.75	500	1875
☐ N/A	Silver	"	150	"	"	1125
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	3.75	500	1500
☐ N/A	Titanium	15-80	200	"	"	1500
☐ N/A	Vanadium	15-81	500	"	"	3750
☐ N/A	Zinc	"	1000	"	"	7500

ISM STANDARD LOG

Analyst: NLM	Working Standard No.: ISM-524 (Exp 2/12/16)
Date: 11/12/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: S05 ICP	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	5	500	5000
☐ N/A	Arsenic	15-81	500	〃	〃	5000
☐ N/A	Barium	〃	2000	〃	〃	20000
☐ N/A	Beryllium	〃	200	〃	〃	2000
☐ N/A	Cadmium	〃	200	〃	〃	2000
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	5	500	20000
☐ N/A	Cobalt	〃	1000	〃	〃	10000
☐ N/A	Copper	〃	2500	〃	〃	250000
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	5	500	20000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	5	500	10000
☐ N/A	Molybdenum	15-80	200	〃	〃	2000
☐ N/A	Nickel	15-81	1000	〃	〃	10000
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	5	500	2500
☐ N/A	Silver	〃	150	〃	〃	1500
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	5	500	2000
☐ N/A	Titanium	15-80	200	〃	〃	2000
☐ N/A	Vanadium	15-81	500	〃	〃	5000
☐ N/A	Zinc	〃	1000	〃	〃	10000

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-463 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: 506 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	3	200	150000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	3	200	150000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	3	200	75000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	3	200	150000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	3	200	112500
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	3	200	75000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-464 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042) ECS 10/14/15
Comments: 507 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	6	200	300000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium					
Beryllium					
Cadmium					
Calcium	15-82	10000	6	200	300000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper					
Iron	15-82	5000	6	200	150000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	6	200	300000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	ECS 10/14/15 NA	↓	↓
Nickel			NA		
Potassium	15-82	7500	6	200	225000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	6	200	150000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-465 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: 508 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	1.5	200	75000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	1.5	200	75000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	1.5	200	37500
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	1.5	200	75000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	1.5	200	56250
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	1.5	200	37500
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: RKT	Working Standard No.: ISM-456
Date: 10-6-15	Solvent: 5% HCl (15-929) 5% HNO_3 (15-931)
Comments: 509 ICP	Expires ~~1-6-16~~ RLT 10-8-15 1-6-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	2	200	100,000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	~~14-955~~ 15-4107	10,000	2	200	100,000
Thallium					
Titanium					
Vanadium					
Zinc					

RLT 10-6-15

Single Element Std

RLT 10-6-15

ISM STANDARD LOG

Analyst: RLT	Working Standard No.: ISM-457
Date: 10-8-15	Solvent: 5% HCl (15-929) 5% HNO3 (15-931)
Comments: S10 ICP	Expires 1-8-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	0.2	200	10,000
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

RLT 10-8-15

RLT 10-8-15

ISM STANDARD LOG

Analyst: NUM	Working Standard No.: ISM-514
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-135	*	20	200	2521
Antimony	"	"	"	"	994
Arsenic	"	"	"	"	999
Barium	"	"	"	"	497
Beryllium	"	"	"	"	495
Cadmium	"	"	"	"	496
Calcium	"	"	"	"	10026
Chromium	"	"	"	"	490
Cobalt	"	"	"	"	499
Copper	"	"	"	"	492
Iron	"	"	"	"	5082
Lead	"	"	"	"	1002
Magnesium	"	"	"	"	6074
Manganese	"	"	"	"	499
Molybdenum	NA	NA		NA	NA
Nickel	15-135	*		200	503
Potassium	"	"		"	1002
Selenium	"	"		"	1029
Silver	"	"		"	501
Sodium	"	"		"	10097
Thallium	"	"		"	1028
Titanium	NA	NA		NA	NA
Vanadium	15-135	*		200	501
Zinc	"	"	"	"	1025

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-519 Exp 2/5/16
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	ISM ICSA ICP	* Provided by the EPA. No true value given by the EPA.	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1033	*	10	100	254900
Antimony	NA	NA	NA	NA	NA
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium	14-1033	*	10	100	244500
Chromium	NA	NA	NA	NA	NA
Cobalt					
Copper					
Iron	14-1033	*	10	100	100700
Lead	11/5/15 NCM ~~14-1033~~ NA	NA	NA	NA	NA
Magnesium	14-1033	*	10	100	255400
Manganese	NA	NA	NA	NA	NA
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-522 (Exp 2/11/16)
Date: 11/11/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: ICSAB ISM	* Stock provided by EPA, no true value given

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	14-1034 & 14-1033	*	10/10	100	246800
☐ N/A	Antimony			10		618
☐ N/A	Arsenic					104
☐ N/A	Barium					537
☐ N/A	Beryllium					495
☐ N/A	Cadmium					972
☐ N/A	Calcium	+ 14-1033		10/10		234900
☐ N/A	Chromium			10		542
☐ N/A	Cobalt					476
☐ N/A	Copper					571
☐ N/A	Iron	+ 14-1033		10/10		99320
☐ N/A	Lead			10		49
☐ N/A	Magnesium	+ 14-1033		10/10		248000
☐ N/A	Manganese			10		507
☒ N/A	Molybdenum	NA	NA	NA	NA	NA
☐ N/A	Nickel	14-1034	*	10	100	954
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	14-1034	*	10	100	46
☐ N/A	Silver					201
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	14-1034	*	10	100	108
☒ N/A	Titanium	NA	NA	NA	NA	NA
☐ N/A	Vanadium	14-1034	*	10	100	491
☐ N/A	Zinc					952

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM - 541
Date: 11/20/15	Solvent: 5% HCl (15-1242) 5% HNO_3 (15-1263)
Comments: 509 ICP Exp 2/20/16	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum					
☐ N/A	Antimony					
☐ N/A	Arsenic					
☐ N/A	Barium					
☐ N/A	Beryllium					
☐ N/A	Cadmium					
☐ N/A	Calcium					
☐ N/A	Chromium					
☐ N/A	Cobalt					
☐ N/A	Copper					
☐ N/A	Iron					
☐ N/A	Lead					
☐ N/A	Magnesium					
☐ N/A	Manganese					
☐ N/A	Molybdenum					
☐ N/A	Nickel					
☐ N/A	Potassium	14-955	10,000	2	200	100,000
☐ N/A	Selenium					
☐ N/A	Silver					
☐ N/A	Sodium	15-407	10,000	2	200	100,000
☐ N/A	Thallium					
☐ N/A	Titanium					
☐ N/A	Vanadium					
☐ N/A	Zinc					

NCM 11/20/15

NCM 11/20/15

ISM STANDARD LOG

Analyst:	NUM	Working Standard No.:	ISM-542
Date:	11/20/15	Solvent:	5% HCl (15-1242) 5% HNO_3 (15-1263)
Comments:	S10 ICP Exp 2/20/16		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum					
☐ N/A	Antimony					
☐ N/A	Arsenic					
☐ N/A	Barium					
☐ N/A	Beryllium					
☐ N/A	Cadmium					
☐ N/A	Calcium					
☐ N/A	Chromium					
☐ N/A	Cobalt					
☐ N/A	Copper					
☐ N/A	Iron					
☐ N/A	Lead					
☐ N/A	Magnesium					
☐ N/A	Manganese					
☐ N/A	Molybdenum					
☐ N/A	Nickel					
☐ N/A	Potassium	14-955	10,000	0.2	200	10,000
☐ N/A	Selenium					
☐ N/A	Silver					
☐ N/A	Sodium					
☐ N/A	Thallium					
☐ N/A	Titanium					
☐ N/A	Vanadium					
☐ N/A	Zinc					

NUM 11/24/15

NUM 11/24/15

ISM STANDARD LOG

Analyst: NVM	Working Standard No.: ISM-545
Date: 11/22/15	Solvent: 5% HCl (15-1242) 5% HNO_3 (15-1263)
Comments: S07 ICP Exp 2/22/16	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	15-377	10000	15	500	300000
☐ N/A	Antimony	NA	NA	NA	NA	NA
☐ N/A	Arsenic					
☐ N/A	Barium					
☐ N/A	Beryllium					
☐ N/A	Cadmium					
☐ N/A	Calcium	15-377	10000	15	500	300000
☐ N/A	Chromium	NA	NA	NA	NA	NA
☐ N/A	Cobalt					
☐ N/A	Copper					
☐ N/A	Iron	15-377	5000	15	500	150000
☐ N/A	Lead	NA	NA	NA	NA	NA
☐ N/A	Magnesium	15-377	10000	15	500	300000
☐ N/A	Manganese	NA	NA	NA	NA	NA
☐ N/A	Molybdenum					
☐ N/A	Nickel					
☐ N/A	Potassium	15-377	7500	15	500	225000
☐ N/A	Selenium	NA	NA	NA	NA	NA
☐ N/A	Silver					
☐ N/A	Sodium	15-377	5000	15	500	150000
☐ N/A	Thallium	NA	NA	NA	NA	NA
☐ N/A	Titanium					
☐ N/A	Vanadium					
☐ N/A	Zinc					

ISM STANDARD LOG

Analyst: NOM	Working Standard No.: ISM -546
Date: 11/22/15	Solvent: 5% HCl (15-1242) 5% HNO_3 (15-1263)
Comments: 508 ICP Exp 2/22/16	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	15-377	10000	3.75	500	75000
☐ N/A	Antimony	NA	NA	NA	NA	NA
☐ N/A	Arsenic	↓	↓	↓	↓	↓
☐ N/A	Barium	↓	↓	↓	↓	↓
☐ N/A	Beryllium	↓	↓	↓	↓	↓
☐ N/A	Cadmium	↓	↓	↓	↓	↓
☐ N/A	Calcium	15-377	10000	3.75	500	75000
☐ N/A	Chromium	NA	NA	NA	NA	NA
☐ N/A	Cobalt	↓	↓	↓	↓	↓
☐ N/A	Copper	↓	↓	↓	↓	↓
☐ N/A	Iron	15-377	5000	3.75	500	37500
☐ N/A	Lead	NA	NA	NA	NA	NA
☐ N/A	Magnesium	↓ 15-377	10000	3.75	500	75000
☐ N/A	Manganese	~~11/24/15 NOM 15-377 NA~~	NA	NA	NA	NA
☐ N/A	Molybdenum	NA	↓	↓	↓	↓
☐ N/A	Nickel	↓	↓	↓	↓	↓
☐ N/A	Potassium	15-377	7500	3.75	500	56250
☐ N/A	Selenium	NA	NA	NA	NA	NA
☐ N/A	Silver	↓	↓	↓	↓	↓
☐ N/A	Sodium	15-377	5000	3.75	500	37500
☐ N/A	Thallium	NA	NA	NA	NA	NA
☐ N/A	Titanium	↓	↓	↓	↓	↓
☐ N/A	Vanadium	↓	↓	↓	↓	↓
☐ N/A	Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: NVM	Working Standard No.: ISM-547
Date: 11/22/15	Solvent: 5% HCl (15-1242) 5% HNO_3 (15-1263)
Comments: 50 G ICP Exp 2/22/16	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	15-377	10000	3	200	150000
☐ N/A	Antimony	NA	NA	NA	NA	NA
☐ N/A	Arsenic	"	"	"	"	"
☐ N/A	Barium	"	"	"	"	"
☐ N/A	Beryllium	"	"	"	"	"
☐ N/A	Cadmium	"	"	"	"	"
☐ N/A	Calcium	15-377	10000	3	200	150000
☐ N/A	Chromium	NA	NA	NA	NA	NA
☐ N/A	Cobalt	"	"	"	"	"
☐ N/A	Copper	"	"	"	"	"
☐ N/A	Iron	15-377	5000	3	200	75000
☐ N/A	Lead	NA	NA	NA	NA	NA
☐ N/A	Magnesium	15-377	10000	3	200	150000
☐ N/A	Manganese	NA	NA	NA	NA	NA
☐ N/A	Molybdenum	"	"	"	"	"
☐ N/A	Nickel	"	"	"	"	"
☐ N/A	Potassium	15-377	7500	3	200	112500
☐ N/A	Selenium	NA	NA	NA	NA	NA
☐ N/A	Silver	"	"	"	"	"
☐ N/A	Sodium	15-377	5000	3	200	75000
☐ N/A	Thallium	NA	NA	NA	NA	NA
☐ N/A	Titanium	"	"	"	"	"
☐ N/A	Vanadium	"	"	"	"	"
☐ N/A	Zinc	"	"	"	"	"

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

MERCURY

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
Method Detection Limit (Form 9-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
Mercury Raw Data
Mercury Preparation Log Books, Preparation Records, Analysis Records

Mercury
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC7B7

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method: ICP-AES	ICP-MS	Mercury	Cyanide
MBC764	QK17017-020			X	
MBC7B7	QK17017-008			X	
MBC7B8	QK17017-001			X	
MBC7B8D	QK17017-001DU			X	
MBC7B8S	QK17017-001MS			X	
MBC7B9	QK17017-009			X	
MBC7C0	QK17017-010			X	
MBC7C1	QK17017-011			X	
MBC7C2	QK17017-012			X	
MBC7C3	QK17017-013			X	
MBC7C4	QK17017-014			X	
MBC7C5	QK17017-015			X	
MBC7C6	QK17017-016			X	
MBC7C7	QK17017-017			X	
MBC7C8	QK17017-018			X	
MBC7D2	QK17017-019			X	
MBC7D3	QK17017-002			X	
MBC7D4	QK17017-003			X	
MBC7H4	QK17017-004			X	
MBC7H5	QK17017-005			X	
MBC7H6	QK17017-006			X	
MBC7J0	QK17017-007			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Zhu Name: Robert Zhu

Date: 12/5/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC764

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: WATER Lab Sample ID: QK17017-020

% Solids: Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.039	J	11/24/2015	20:01:40

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-008

% Solids: 34.4 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.044	J	11/25/2015	18:03:41

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-001

% Solids: 44.8 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J	11/25/2015	17:35:58

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-009

% Solids: 32.3 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.090	J	11/20/2015	21:31:31

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-010

% Solids: 36.7 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J	11/20/2015	21:33:35

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-011

% Solids: 43.9 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.17	J	11/20/2015	21:35:39

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-012

% Solids: 45.1 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.095	J	12/04/2015	12:38:32

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-013

% Solids: 51.3 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.073	J	12/04/2015	12:41:03

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-014

% Solids: 61.5 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.054	J	12/04/2015	12:43:34

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-015

% Solids: 47.8 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.076	J	12/04/2015	12:46:05

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-016

% Solids: 76.9 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.011	J	12/04/2015	12:48:36

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-017

% Solids: 87.3 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.0066	J	12/04/2015	12:51:07

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-018

% Solids: 65.2 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.026	J	12/04/2015	12:53:39

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-019

% Solids: 76.0 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.041	J	12/04/2015	12:56:10

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-002

% Solids: 65.5 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.17	U	11/25/2015	17:43:30

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-003

% Solids: 83.9 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.026	J	11/25/2015	17:46:01

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-004

% Solids: 71.3 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.16	U	11/25/2015	17:48:33

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-005

% Solids: 78.3 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.020	J	11/25/2015	17:56:06

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-006

% Solids: 80.8 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.13	U	11/25/2015	17:58:38

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7J0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Lab Sample ID: QK17017-007

% Solids: 33.9 Date Received: 11/17/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.058	J	11/25/2015	18:01:10

NOTE: Hardness (total) is reported in mg/L

Comments:

Mercury
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.0	100		5.0	4.8	96		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.4	88		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID: CCV006		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.6	92		4.5	90	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV008				ID: CCV009		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.4	88		4.5	90	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV002				ID: CCV020				ID: CCV021		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.1	103		5.0	4.8	96		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV022				ID: CCV023		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.6	92		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV024				ID: CCV025		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.8	96		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV026				ID: CCV027		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.9	98		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV028				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.8	96				

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112515ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV003				ID: CCV030				ID: CCV031		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.0	100		5.0	5.2	104		5.1	102	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112515ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV032				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	5.1	102				

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4120515ISMA Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV004				ID: CCV036				ID: CCV037		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.1	103		5.0	5.0	100		5.0	100	

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix: SOIL

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

Analytical Method: CVAA Preparation Batch: 90140

Run Batch: HG3112015ISMA1 Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)								- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q			ID: PBS001	Q
Mercury	0.17	J	0.20	U	0.20	U	0.20	U			0.12	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3112015ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID: CCB006	Q	ID:	Q
Mercury			0.078	J	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3112015ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB007	Q	ID: CCB008	Q	ID: CCB009	Q	ID:	Q
Mercury			0.098	J	0.11	J	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix: WATER

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

Analytical Method: CVAA Preparation Batch: 90340

Run Batch: HG4112415 ISMA1 Preparation Method 7470A

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB002	Q	ID: CCB020	Q	ID: CCB021	Q	ID: CCB022	Q	ID: PBW001	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.043	J

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4112415 ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB023	Q	ID: CCB024	Q	ID: CCB025	Q	ID:	Q
Mercury			0.20	U	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4112415 ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB026	Q	ID: CCB027	Q	ID: CCB028	Q	ID:	Q
Mercury			0.20	U	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix: SOIL

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

Analytical Method: CVAA Preparation Batch: 90390

Run Batch: HG4112515ISMA Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)								- Preparation Blank	
Analyte	ID: ICB003	Q	ID: CCB030	Q	ID: CCB031	Q	ID: CCB032	Q			ID: PBS003	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U			0.12	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Preparation Blank Matrix: SOIL

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

Analytical Method: CVAA Preparation Batch: 91318

Run Batch: HG4120515ISMA Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB004	Q	ID: CCB036	Q	ID: CCB037	Q	ID:	Q	ID: PBS004	Q
Mercury	0.20	U	0.20	U	0.20	U			0.12	U

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7B8S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: CVAA

% Solids for Sample: 44.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	75 - 125	1.2		0.11		1.1	99	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7B8D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Matrix: SOIL Analytical Method: CVAA

% Solids: 44.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury		0.11		0.092	J		

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Analytical Method: CVAA Instrument ID: Hg4

Preparation Method: 7470A

Concentration Units (ug/L, ug, mg/kg): UG/L

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.023	03/25/2015

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Analytical Method: CVAA Instrument ID: Hg4

Preparation Method: 7471B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.0039	03/25/2015

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1805															X												
S01	1.0	1808															X												
S02	1.0	1810															X												
S03	1.0	1813															X												
S04	1.0	1817															X												
S05	1.0	1819															X												
ICV001	1.0	1822															X												
ICB001	1.0	1826															X												
CCV001	1.0	1829															X												
CCB001	1.0	1832															X												
ZZZZZZ	1.0	1834																											
ZZZZZZ	1.0	1837																											
ZZZZZZ	1.0	1839																											
ZZZZZZ	1.0	1841																											
ZZZZZZ	1.0	1844																											
ZZZZZZ	1.0	1847																											
ZZZZZZ	1.0	1849																											
ZZZZZZ	1.0	1852																											
ZZZZZZ	1.0	1854																											
ZZZZZZ	1.0	1856																											
CCV002	1.0	1858															X												
CCB002	1.0	1901															X												
ZZZZZZ	1.0	1903																											
ZZZZZZ	1.0	1906																											
ZZZZZZ	1.0	1909																											
ZZZZZZ	1.0	1911																											
ZZZZZZ	1.0	1913																											
ZZZZZZ	1.0	1916																											
ZZZZZZ	1.0	1918																											
ZZZZZZ	1.0	1920																											
ZZZZZZ	1.0	1924																											
ZZZZZZ	1.0	1926																											
CCV003	1.0	1929															X												
CCB003	1.0	1931															X												
ZZZZZZ	1.0	1933																											
ZZZZZZ	1.0	1935																											
ZZZZZZ	1.0	1938																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV004	1.0	1941															X												
CCB004	1.0	1944															X												
ZZZZZZ	1.0	1946																											
ZZZZZZ	1.0	1948																											
ZZZZZZ	1.0	1950																											
ZZZZZZ	1.0	1952																											
ZZZZZZ	1.0	1956																											
ZZZZZZ	1.0	1958																											
ZZZZZZ	1.0	2001																											
CCV005	1.0	2005															X												
CCB005	1.0	2007															X												
ZZZZZZ	1.0	2009																											
ZZZZZZ	1.0	2011																											
ZZZZZZ	1.0	2015																											
ZZZZZZ	34	2018																											
ZZZZZZ	1.0	2023																											
ZZZZZZ	1.0	2025																											
ZZZZZZ	1.0	2027																											
ZZZZZZ	1.0	2030																											
ZZZZZZ	1.0	2032																											
CCV006	1.0	2036															X												
CCB006	1.0	2038															X												
ZZZZZZ	1.0	2041																											
ZZZZZZ	1.0	2043																											
ZZZZZZ	1.0	2046																											
ZZZZZZ	1.0	2049																											
ZZZZZZ	1.0	2051																											
ZZZZZZ	1.0	2054																											
CCB007	1.0	2056															X												
PBS001	1.0	2058															X												
ZZZZZZ	1.0	2100																											
ZZZZZZ	1.0	2103																											
ZZZZZZ	1.0	2105																											
ZZZZZZ	1.0	2108																											
CCV008	1.0	2110															X												
CCB008	1.0	2113															X												
ZZZZZZ	1.0	2116																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	2118																											
ZZZZZZ	1.0	2120																											
ZZZZZZ	1.0	2122																											
ZZZZZZ	1.0	2124																											
ZZZZZZ	1.0	2127																											
ZZZZZZ	1.0	2129																											
MBC7B9	1.0	2131															X												
MBC7C0	1.0	2133															X												
MBC7C1	1.0	2135															X												
CCV009	1.0	2137															X												
CCB009	1.0	2141															X												
ZZZZZZ	1.0	2143																											
ZZZZZZ	1.0	2145																											
ZZZZZZ	1.0	2148																											
ZZZZZZ	1.0	2150																											
ZZZZZZ	1.0	2152																											
ZZZZZZ	1.0	2155																											
ZZZZZZ	1.0	2157																											
ZZZZZZ	1.0	2200																											
ZZZZZZ	1.0	2202																											
ZZZZZZ	1.0	2205																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1803															X												
S01	1.0	1805															X												
S02	1.0	1807															X												
S03	1.0	1809															X												
S04	1.0	1810															X												
S05	1.0	1812															X												
ICV002	1.0	1814															X												
ICB002	1.0	1816															X												
CCV020	1.0	1818															X												
CCB020	1.0	1820															X												
ZZZZZZ	1.0	1822																											
ZZZZZZ	1.0	1824																											
ZZZZZZ	1.0	1826																											
ZZZZZZ	1.0	1828																											
ZZZZZZ	1.0	1829																											
ZZZZZZ	1.0	1831																											
ZZZZZZ	1.0	1833																											
ZZZZZZ	1.0	1835																											
ZZZZZZ	1.0	1837																											
ZZZZZZ	1.0	1839																											
CCV021	1.0	1841															X												
CCB021	1.0	1842															X												
ZZZZZZ	1.0	1844																											
ZZZZZZ	1.0	1846																											
ZZZZZZ	1.0	1848																											
ZZZZZZ	1.0	1850																											
ZZZZZZ	1.0	1852																											
ZZZZZZ	1.0	1854																											
ZZZZZZ	1.0	1855																											
ZZZZZZ	1.0	1857																											
ZZZZZZ	1.0	1859																											
ZZZZZZ	1.0	1901																											
CCV022	1.0	1903															X												
CCB022	1.0	1905															X												
ZZZZZZ	1.0	1907																											
ZZZZZZ	1.0	1909																											
ZZZZZZ	1.0	1910																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1912																											
ZZZZZZ	1.0	1914																											
ZZZZZZ	1.0	1916																											
ZZZZZZ	1.0	1918																											
ZZZZZZ	1.0	1920																											
ZZZZZZ	1.0	1922																											
ZZZZZZ	1.0	1924																											
CCV023	1.0	1926															X												
CCB023	1.0	1927															X												
ZZZZZZ	1.0	1929																											
ZZZZZZ	1.0	1931																											
ZZZZZZ	1.0	1933																											
ZZZZZZ	1.0	1935																											
ZZZZZZ	1.0	1937																											
ZZZZZZ	1.0	1939																											
ZZZZZZ	1.0	1941																											
ZZZZZZ	1.0	1942																											
ZZZZZZ	1.0	1944																											
ZZZZZZ	1.0	1946																											
CCV024	1.0	1948															X												
CCB024	1.0	1950															X												
ZZZZZZ	1.0	1952																											
ZZZZZZ	1.0	1954																											
ZZZZZZ	1.0	1956																											
ZZZZZZ	1.0	1957																											
ZZZZZZ	1.0	1959																											
MBC764	1.0	2001															X												
ZZZZZZ	1.0	2003																											
ZZZZZZ	1.0	2005																											
ZZZZZZ	1.0	2007																											
ZZZZZZ	1.0	2009																											
CCV025	1.0	2011															X												
CCB025	1.0	2013															X												
ZZZZZZ	1.0	2015																											
ZZZZZZ	1.0	2016																											
ZZZZZZ	1.0	2018																											
ZZZZZZ	1.0	2020																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	2022																											
ZZZZZZ	1.0	2024																											
ZZZZZZ	1.0	2026																											
ZZZZZZ	1.0	2028																											
ZZZZZZ	1.0	2030																											
ZZZZZZ	1.0	2031																											
CCV026	1.0	2033															X												
CCB026	1.0	2035															X												
ZZZZZZ	1.0	2037																											
ZZZZZZ	1.0	2039																											
ZZZZZZ	1.0	2041																											
ZZZZZZ	1.0	2043																											
ZZZZZZ	1.0	2045																											
ZZZZZZ	1.0	2046																											
ZZZZZZ	1.0	2048																											
ZZZZZZ	1.0	2050																											
ZZZZZZ	1.0	2052																											
ZZZZZZ	1.0	2054																											
CCV027	1.0	2056															X												
CCB027	1.0	2058															X												
ZZZZZZ	1.0	2100																											
ZZZZZZ	1.0	2102																											
ZZZZZZ	1.0	2103																											
ZZZZZZ	1.0	2105																											
ZZZZZZ	1.0	2107																											
ZZZZZZ	1.0	2109																											
ZZZZZZ	1.0	2111																											
ZZZZZZ	1.0	2113																											
ZZZZZZ	1.0	2115																											
PBW001	1.0	2117															X												
CCV028	1.0	2118															X												
CCB028	1.0	2120															X												
ZZZZZZ	1.0	2122																											
ZZZZZZ	1.0	2124																											
ZZZZZZ	1.0	2126																											
ZZZZZZ	1.0	2128																											
ZZZZZZ	1.0	2130																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/25/2015 End Date: 11/25/2015

Run Batch: HG4112515ISMA

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1700															X												
S01	1.0	1703															X												
S02	1.0	1705															X												
S03	1.0	1708															X												
S04	1.0	1710															X												
S05	1.0	1713															X												
ICV003	1.0	1715															X												
ICB003	1.0	1718															X												
CCV030	1.0	1720															X												
CCB030	1.0	1723															X												
PBS003	1.0	1725															X												
ZZZZZZ	1.0	1728																											
ZZZZZZ	1.0	1730																											
ZZZZZZ	1.0	1733																											
MBC7B8	1.0	1735															X												
MBC7B8S	1.0	1738															X												
MBC7B8D	1.0	1740															X												
MBC7D3	1.0	1743															X												
MBC7D4	1.0	1746															X												
MBC7H4	1.0	1748															X												
CCV031	1.0	1751															X												
CCB031	1.0	1753															X												
MBC7H5	1.0	1756															X												
MBC7H6	1.0	1758															X												
MBC7J0	1.0	1801															X												
MBC7B7	1.0	1803															X												
ZZZZZZ	1.0	1806																											
ZZZZZZ	1.0	1808																											
ZZZZZZ	1.0	1811																											
ZZZZZZ	1.0	1813																											
ZZZZZZ	1.0	1816																											
ZZZZZZ	1.0	1818																											
CCV032	1.0	1821															X												
CCB032	1.0	1823															X												
ZZZZZZ	1.0	1826																											
ZZZZZZ	1.0	1828																											
ZZZZZZ	1.0	1831																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/25/2015 End Date: 11/25/2015

Run Batch: HG4112515ISMA

EPA Sample NO.	D/F	Time	Analytes																											
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1833																												
ZZZZZZ	1.0	1836																												
ZZZZZZ	1.0	1838																												
ZZZZZZ	1.0	1841																												
ZZZZZZ	1.0	1844																												
ZZZZZZ	1.0	1846																												
ZZZZZZ	1.0	1849																												
ZZZZZZ	1.0	1851																												
ZZZZZZ	1.0	1854																												
ZZZZZZ	1.0	1856																												
ZZZZZZ	1.0	1859																												
ZZZZZZ	1.0	1901																												
ZZZZZZ	1.0	1904																												
ZZZZZZ	1.0	1906																												
ZZZZZZ	1.0	1909																												
ZZZZZZ	1.0	1911																												
ZZZZZZ	1.0	1914																												
ZZZZZZ	1.0	1916																												
ZZZZZZ	1.0	1919																												
ZZZZZZ	1.0	1921																												
ZZZZZZ	1.0	1924																												
ZZZZZZ	1.0	1927																												
ZZZZZZ	1.0	1929																												
ZZZZZZ	1.0	1932																												
ZZZZZZ	1.0	1934																												

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7B7

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 12/04/2015 End Date: 12/04/2015

Run Batch: HG4120515ISMA

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1210															X												
S01	1.0	1213															X												
S02	1.0	1215															X												
S03	1.0	1218															X												
S04	1.0	1220															X												
S05	1.0	1223															X												
ICV004	1.0	1225															X												
ICB004	1.0	1228															X												
CCV036	1.0	1231															X												
CCB036	1.0	1233															X												
PBS004	1.0	1236															X												
MBC7C2	1.0	1238															X												
MBC7C3	1.0	1241															X												
MBC7C4	1.0	1243															X												
MBC7C5	1.0	1246															X												
MBC7C6	1.0	1248															X												
MBC7C7	1.0	1251															X												
MBC7C8	1.0	1253															X												
MBC7D2	1.0	1256															X												
CCV037	1.0	1258															X												
CCB037	1.0	1301															X												

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7B7

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.098	0	0.200	0.15	-23	0.500	0.49	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 11/24/2015

Analytical Method: CVAA **Run Batch:** HG4112415 ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.041	0	0.200	0.22	10	0.500	0.48	-4

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 11/25/2015

Analytical Method: CVAA **Run Batch:** HG4112515ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	-0.057	0	0.200	0.15	-23	0.500	0.48	-5

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 12/4/2015

Analytical Method: CVAA **Run Batch:** HG4120515ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	-0.0050	0	0.200	0.22	7	0.500	0.50	0

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	0.99	-1	5.00	4.9	-2	10.0	10	0

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 11/24/2015

Analytical Method: CVAA **Run Batch:** HG4112415 ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	0.96	-4	5.00	5.0	0	10.0	10	0

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 11/25/2015

Analytical Method: CVAA **Run Batch:** HG4112515ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	1.0	2	5.00	5.2	4	10.0	9.9	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 12/4/2015

Analytical Method: CVAA **Run Batch:** HG4120515ISMA

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	1.0	5	5.00	4.8	-3	10.0	10	1

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	0.9999	0.996	0.0201	Lin. Req	None

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 11/24/2015

Analytical Method: CVAA **Run Batch:** HG4112415 ISMA1

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	1.0000	1.000	0.0272	Lin. Req	None

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

Instrument ID: Hg4 **Start Date:** 11/25/2015

Analytical Method: CVAA **Run Batch:** HG4112515ISMA

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	0.9996	0.999	-0.0605	Lin. Req	None

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7B7

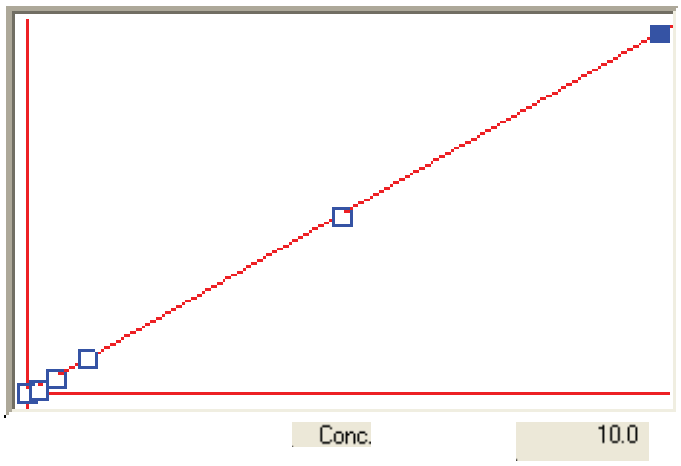
Instrument ID: Hg4 **Start Date:** 12/4/2015

Analytical Method: CVAA **Run Batch:** HG4120515ISMA

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	0.9998	1.00	-0.0100	Lin. Req	None

Mercury
Raw Data

Protocol: HG3ISMS



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.098	.098	612	0	612				
02	.20000	.154	-.046	1045	0%	1045				
03	.50000	.493	-.007	3701	0%	3701				
04	1.0000	.993	-.007	7606	0%	7606				
05	5.0000	4.92	-.077	38334	0%	38334				
06	10.000	10.0	.039	78332	0%	78332				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				S0	Seq: 140	18:05:04 20 Nov 15			HG
Hg	.000	ppb	612						
*** Standard: 2 Rep: 1				S01	Seq: 141	18:08:44 20 Nov 15			HG
Hg	.200	ppb	1045						
*** Standard: 3 Rep: 1				S02	Seq: 142	18:10:55 20 Nov 15			HG
Hg	.500	ppb	3701						
*** Standard: 4 Rep: 1				S03	Seq: 143	18:13:55 20 Nov 15			HG
Hg	1.00	ppb	7606						
*** Standard: 5 Rep: 1				S04	Seq: 144	18:17:01 20 Nov 15			HG
Hg	5.00	ppb	38334						
*** Standard: 6 Rep: 1				S05	Seq: 145	18:19:47 20 Nov 15			HG
Hg	10.0	ppb	78332						

*** Check Standard: 3 Ck3ICV0508 Seq: 146 18:22:13 20 Nov 15 HG ICV001

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	4.01	4.00	ppb	.000 %

*** Check Standard: 1 Ck1blank Seq: 147 18:26:09 20 Nov 15 HG ICB001

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.167	.199	ppb	.000 %

*** Check Standard: 4 Ck4CCV1512 Seq: 148 18:29:39 20 Nov 15 HG CCV001

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.4	4.77	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank Seq: 149 18:32:12 20 Nov 15 HG CCB001

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.016	.199	ppb	.000 %

*** Sample ID: QQ90138001 112015C Seq: 150 18:34:46 20 Nov 15 HG
PBS001

Hg	.023	ppb	.000 %	.023	

==========

*** Sample ID: QK13011001 112015C Seq: 151 18:37:05 20 Nov 15 HG
MBC775

Hg	2.27	ppb	.000 %	2.27	=

*** Sample ID: QK13011001 112015C Seq: 152 18:39:40 20 Nov 15 HG
MBC775S

Hg	3.66	ppb	.000 %	3.66	=

*** Sample ID: QK13011001 112015C Seq: 153 18:41:50 20 Nov 15 HG
MBC775D

Hg	2.79	ppb	.000 %	2.79	=

==========

*** Sample ID: QK13011002 112015C Seq: 154 18:44:21 20 Nov 15 HG
MBC776

Hg	.139	ppb	.000 %	.139	=

==========

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13011003 112015C Seq: 155 18:47:10 20 Nov 15 HG									
				MBC777					
Hg	.736	ppb	.000 %	.736					
*** Sample ID: QK13011004 112015C Seq: 156 18:49:11 20 Nov 15 HG									
				MBC777					
Hg	.156	ppb	.000 %	.156					
*** Sample ID: QK13011005 112015C Seq: 157 18:52:06 20 Nov 15 HG									
				MBC779					
Hg	.115	ppb	.000 %	.115					
*** Sample ID: QK13011006 112015C Seq: 158 18:54:11 20 Nov 15 HG									
				MBC780					
Hg	.158	ppb	.000 %	.158					
*** Sample ID: QK13011007 112015C Seq: 159 18:56:31 20 Nov 15 HG									
				MBC781					
Hg	.201	ppb	.000 %	.201					
*** Check Standard: 4 Ck4CCV1512 Seq: 160 18:58:45 20 Nov 15 HG									CCV002
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		95.3	4.76	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 161 19:01:45 20 Nov 15 HG									CCB002
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.044	.199	ppb	.000 %				
*** Sample ID: QK13011008 112015C Seq: 162 19:03:48 20 Nov 15 HG									
				MBC782					
Hg	.121	ppb	.000 %	.121					
*** Sample ID: QK13011009 112015C Seq: 163 19:06:50 20 Nov 15 HG									
				MBC783					
Hg	.115	ppb	.000 %	.115					
*** Sample ID: QK13011010 112015C Seq: 164 19:09:01 20 Nov 15 HG									
				MBC784					
Hg	1.59	ppb	.000 %	1.59					
*** Sample ID: QK13011011 112015C Seq: 165 19:11:10 20 Nov 15 HG									
				MBC785					
Hg	1.03	ppb	.000 %	1.03					
*** Sample ID: QK13011012 112015C Seq: 166 19:13:23 20 Nov 15 HG									
				MBC786					
Hg	44.8	ppb	.000 %	44.8					
*** Sample ID: QK13011013 112015C Seq: 167 19:16:44 20 Nov 15 HG									
				MBC787					
Hg	4.80	ppb	.000 %	4.80					

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13011014 112015C Seq: 168 19:18:46 20 Nov 15 HG									
				MBC788					
Hg	.201	ppb	.000 %	.201					
*** Sample ID: QK13011015 112015C Seq: 169 19:20:50 20 Nov 15 HG									
				MBC789					
Hg	.189	ppb	.000 %	.189					
*** Sample ID: QK13011016 112015C Seq: 170 19:24:10 20 Nov 15 HG									
				MBC7H7					
Hg	.082	ppb	.000 %	.082					
*** Sample ID: QK13011017 112015C Seq: 171 19:26:14 20 Nov 15 HG									
				MBC790					
Hg	16.0	ppb	.000 %	16.0					
*** Check Standard: 4 Ck4CCV1512 Seq: 172 19:29:15 20 Nov 15 HG CCV003									
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		87.7	4.38	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 173 19:31:26 20 Nov 15 HG CCB003									
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.014	.199	ppb	.000 %				
*** Sample ID: QK13011018 112015C Seq: 174 19:33:50 20 Nov 15 HG									
				MBC791					
Hg	.478	ppb	.000 %	.478					
*** Sample ID: QK13011019 112015C Seq: 175 19:35:58 20 Nov 15 HG									
				MBC792					
Hg	1.44	ppb	.000 %	1.44					
*** Sample ID: QK13011020 112015C Seq: 176 19:38:22 20 Nov 15 HG									
				MBC793					
Hg	3.07	ppb	.000 %	3.07					
*** Check Standard: 4 Ck4CCV1512 Seq: 177 19:41:51 20 Nov 15 HG CCV004									
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		93.7	4.68	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 178 19:44:07 20 Nov 15 HG CCB004									
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		.078	.199	ppb	.000 %				
*** Sample ID: QQ90139001 112015C Seq: 179 19:46:21 20 Nov 15 HG									
				PBS001					
Hg	.034	ppb	.000 %	.034					
*** Sample ID: QK13012002 112015C Seq: 180 19:48:21 20 Nov 15 HG									
				MBC794					
Hg	.138	ppb	.000 %	.138					
*** Sample ID: QK13012003 112015C Seq: 181 19:50:22 20 Nov 15 HG									
				MBC795					
Hg	.701	ppb	.000 %	.701					

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13012004 112015C Seq: 182 19:52:32 20 Nov 15 HG									
				MBC796					
Hg	85.6	ppb	.000 %	85.6					
*** Sample ID: QK13012005 112015C Seq: 183 19:56:06 20 Nov 15 HG									
				MBC797					
Hg	.126	ppb	.000 %	.126					
*** Sample ID: QK13012006 112015C Seq: 184 19:58:32 20 Nov 15 HG									
				MBC798					
Hg	110.	ppb	.000 %	110.					
*** Sample ID: QK13012006 112015C Seq: 185 20:01:58 20 Nov 15 HG									
				MBC798S					
Hg	91.6	ppb	.000 %	91.6					
*** Check Standard: 4 Ck4CCV1512 Seq: 186 20:05:00 20 Nov 15 HG									CCV005
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		91.1	4.56	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 187 20:07:05 20 Nov 15 HG									CCB005
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.017	.199	ppb	.000 %				
*** Sample ID: QK13012006 112015C Seq: 188 20:09:10 20 Nov 15 HG									
				MBC798D					
Hg	67.7	ppb	.000 %	67.7					
*** Sample ID: QK13012007 112015C Seq: 189 20:11:31 20 Nov 15 HG									
				MBC799					
Hg	9.22	ppb	.000 %	9.22					
*** Sample ID: QK13012008 112015C Seq: 190 20:15:29 20 Nov 15 HG									
				MBC7A0					
Hg	51.7	ppb	.000 %	51.7					
*** Sample ID: QK13012009 112015C Seq: 191 20:18:14 20 Nov 15 HG									
				MBC7A1					
Hg	36.5	ppb	.000 %	36.5					
*** Sample ID: QK13012010 112015C Seq: 192 20:20:55 20 Nov 15 HG									
				MBC7A2					
Hg	.519	ppb	.000 %	.519					
*** Sample ID: QK13012011 112015C Seq: 193 20:23:05 20 Nov 15 HG									
				MBC7A3					
Hg	3.61	ppb	.000 %	3.61					
*** Sample ID: QK13012012 112015C Seq: 194 20:25:04 20 Nov 15 HG									
				MBC7A4					
Hg	1.84	ppb	.000 %	1.84					

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13012013 112015C Seq: 195 20:27:16 20 Nov 15 HG									
				MBC7H9					
Hg	.592	ppb	.000 %	.592					
*** Sample ID: QK13012014 112015C Seq: 196 20:30:47 20 Nov 15 HG									
				MBC7A5					
Hg	.194	ppb	.000 %	.194					
*** Sample ID: QK13012015 112015C Seq: 197 20:32:49 20 Nov 15 HG									
				MBC7A6					
Hg	.124	ppb	.000 %	.124					
*** Check Standard: 4 Ck4CCV1512 Seq: 198 20:36:33 20 Nov 15 HG									CCV006
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		90.8	4.54	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 199 20:38:32 20 Nov 15 HG									CCB006
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.132	.199	ppb	.000 %				
*** Sample ID: QK13012016 112015C Seq: 200 20:41:53 20 Nov 15 HG									
				MBC7A7					
Hg	.085	ppb	.000 %	.085					
*** Sample ID: QK13012017 112015C Seq: 201 20:43:58 20 Nov 15 HG									
				MBC7A8					
Hg	.416	ppb	.000 %	.416					
*** Sample ID: QK13012018 112015C Seq: 202 20:46:24 20 Nov 15 HG									
				MBC7A9					
Hg	.536	ppb	.000 %	.536					
*** Sample ID: QK13012019 112015C Seq: 203 20:49:16 20 Nov 15 HG									
				MBC7B0					
Hg	.642	ppb	.000 %	.642					
*** Sample ID: QK13012020 112015C Seq: 204 20:51:42 20 Nov 15 HG									
				MBC7D0					
Hg	5.28	ppb	.000 %	5.28					
*** Check Standard: 4 Ck4CCV1512 Seq: 205 20:54:18 20 Nov 15 HG									CCV007
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		87.5	4.38	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 206 20:56:23 20 Nov 15 HG									CCB007
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		.098	.199	ppb	.000 %				
*** Sample ID: QQ90140001 112015C Seq: 207 20:58:43 20 Nov 15 HG									
				PBS001					
Hg	.021	ppb	.000 %	.021					
*** Sample ID: QK13013001 112015C Seq: 208 21:00:58 20 Nov 15 HG									
				MBC7C9					
Hg	1.85	ppb	.000 %	1.85					

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13013001 112015C Seq: 209 21:03:03 20 Nov 15 HG									
				MBC7C9S					
Hg	3.57	ppb	.000 %	3.57					
*** Sample ID: QK13013001 112015C Seq: 210 21:05:18 20 Nov 15 HG									
				MBC7C9D					
Hg	2.71	ppb	.000 %	2.71					
*** Sample ID: QK13013002 112015C Seq: 211 21:08:28 20 Nov 15 HG									
				MBC7D1					
Hg	1.19	ppb	.000 %	1.19					
*** Check Standard: 4 Ck4CCV1512 Seq: 212 21:10:53 20 Nov 15 HG									CCV008
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		88.5	4.43	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 213 21:13:35 20 Nov 15 HG									CCB008
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		.109	.199	ppb	.000 %				
*** Sample ID: QK13013003 112015C Seq: 214 21:16:06 20 Nov 15 HG									
				MBC7B1					
Hg	.212	ppb	.000 %	.212					
*** Sample ID: QK13013004 112015C Seq: 215 21:18:11 20 Nov 15 HG									
				MBC7B2					
Hg	.011	ppb	.000 %	.011					
*** Sample ID: QK13013005 112015C Seq: 216 21:20:12 20 Nov 15 HG									
				MBC7B3					
Hg	.279	ppb	.000 %	.279					
*** Sample ID: QK13013006 112015C Seq: 217 21:22:23 20 Nov 15 HG									
				MBC7B4					
Hg	1.04	ppb	.000 %	1.04					
*** Sample ID: QK13013007 112015C Seq: 218 21:24:39 20 Nov 15 HG									
				MBC7B6					
Hg	2.03	ppb	.000 %	2.03					
*** Sample ID: QK13013008 112015C Seq: 219 21:27:02 20 Nov 15 HG									
				MBC7H8					
Hg	-.023	ppb	.000 %	-.023					
*** Sample ID: QK13013009 112015C Seq: 220 21:29:17 20 Nov 15 HG									
				MBC7B7					
Hg	.302	ppb	.000 %	.302					
*** Sample ID: QK17017-009 112015C Seq: 221 21:31:31 20 Nov 15 HG									
				MBC7B9					
Hg	.174	ppb	.000 %	.174					

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QK17017-010 112015C Seq: 222 21:33:35 20 Nov 15 HG
MBC7C0
Hg .225 ppb .000 % .225 =

*** Sample ID: QK17017011 112015C Seq: 223 21:35:39 20 Nov 15 HG
MBC7C1
Hg .427 ppb .000 % .427 =

*** Check Standard: 4 Ck4CCV1512 Seq: 224 21:37:40 20 Nov 15 HG CCV009

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		90.2	4.51	5.00	ppb	.000 %

=

*** Check Standard: 1 Ck1blank Seq: 225 21:41:00 20 Nov 15 HG CCB009

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.052	.199	ppb	.000 %

=

*** Sample ID: QK17017012 112015C Seq: 226 21:43:04 20 Nov 15 HG
MBC7C2
Hg .232 ppb .000 % .232 =

*** Sample ID: QK17017013 112015C Seq: 227 21:45:30 20 Nov 15 HG
MBC7C3
Hg .384 ppb .000 % .384 =

*** Sample ID: QK17017014 112015C Seq: 228 21:48:22 20 Nov 15 HG
MBC7C4
Hg .252 ppb .000 % .252 =

*** Sample ID: QK17017015 112015C Seq: 229 21:50:36 20 Nov 15 HG
MBC7C5
Hg .125 ppb .000 % .125 =

*** Sample ID: QK17017016 112015C Seq: 230 21:52:39 20 Nov 15 HG
MBC7C6
Hg .110 ppb .000 % .110 =

*** Sample ID: QK17017017 112015C Seq: 231 21:55:23 20 Nov 15 HG
MBC7C7
Hg .004 ppb .000 % .004 =

*** Sample ID: QK17017018 112015C Seq: 232 21:57:26 20 Nov 15 HG
MBC7C8
Hg .020 ppb .000 % .020 =

*** Sample ID: QK17017019 112015C Seq: 233 22:00:08 20 Nov 15 HG
MBC7D2
Hg .123 ppb .000 % .123 =

*** Check Standard: 4 Ck4CCV1512 Seq: 234 22:02:15 20 Nov 15 HG CCV010

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		80.1	4.00	5.00	ppb	.000 %

=

*** Check Standard: 1 Ck1blank Seq: 235 22:05:05 20 Nov 15 HG CCB010

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.040	.199	ppb	.000 %

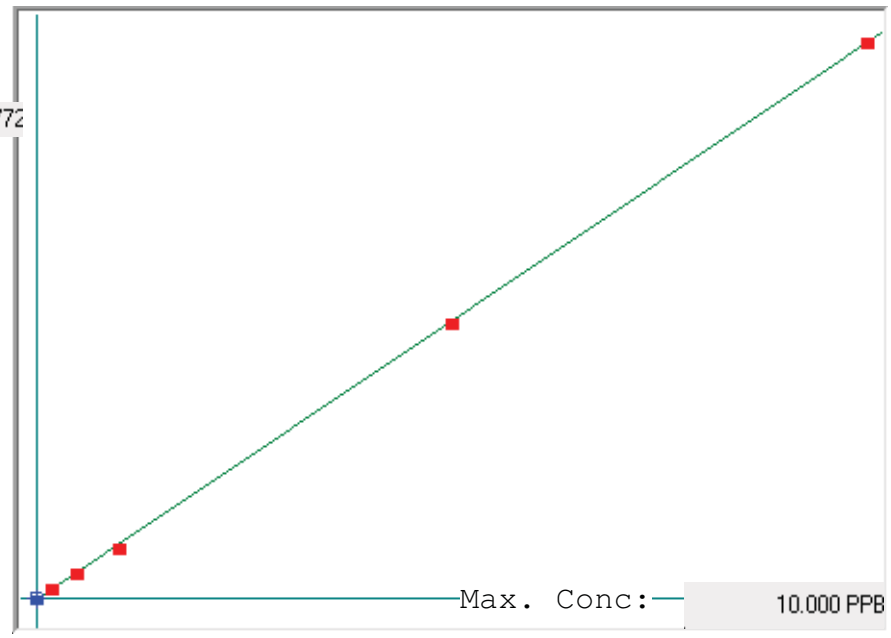
 =

HG4ISMW

Linear

μ Abs.:

65772



A= 0.0000e+000

B= 1.5178e-004

C= 2.7154e-002

Rho= 0.9999728

Accept= Accepted

Accepted Date=

11/24/15 18:14

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4
BLANK S0	0.000	0.041	0.041	92	0.000	92			
CAL 1 0.2 S01 15HG1518	0.200	0.220	0.020	1268	0.0 %	1268			
CAL 2 0.5 S02 15HG1517	0.500	0.482	-0.018	2999	0.0 %	2999			
CAL 3 1.0 S03 15HG1516	1.000	0.959	-0.041	6138	0.0 %	6138			
CAL 4 5.0 S04 15HG1515	5.000	4.988	-0.012	32683	0.0 %	32683			
CAL 5 10.0 S05 15HG1514	10.000	10.010	0.010	65772	0.0 %	65772			

HG4112415ISMA

Method: HG4ISMW Operator: Admin Date of Analysis: 24 Nov 2015 14:18:45

Sample ID	Extended ID	Conc.	Units	µ Abs.	Date
BLANK S0 - 1		-	PPB	92	24 Nov 2015 18:03:24
CAL 1 0.2 S01 15HG1518 - 1		-	PPB	1268	24 Nov 2015 18:05:15
CAL 2 0.5 S02 15HG1517 - 1		-	PPB	2999	24 Nov 2015 18:07:07
CAL 3 1.0 S03 15HG1516 - 1		-	PPB	6138	24 Nov 2015 18:09:00
CAL 4 5.0 S04 15HG1515 - 1		-	PPB	32683	24 Nov 2015 18:10:53
CAL 5 10.0 S05 15HG1514 - 1		-	PPB	65772	24 Nov 2015 18:12:46
ICV002 15HG1519 - 1		103.3% 4.1321	PPB	27045	24 Nov 2015 18:14:44
ICB 002		-0.0031	PPB	-199	24 Nov 2015 18:16:46
CCV020		97.0% 4.8481	PPB	31762	24 Nov 2015 18:18:39
CCB020		-0.0015	PPB	-189	24 Nov 2015 18:20:29
QQ90339001 - 1	PBW001	0.0323	PPB	34	24 Nov 2015 18:22:27
QJ30005001 - 1	MB0AS8	0.0347	PPB	50	24 Nov 2015 18:24:18
QJ30005002 - 1	MB0AS9	0.0422	PPB	99	24 Nov 2015 18:26:09
QJ30005002MS - 1	MB0AS9S	1.2555	PPB	8093	24 Nov 2015 18:28:00
QJ30005002DU - 1	MB0AS9D	0.0191	PPB	-53	24 Nov 2015 18:29:51
QJ30005003 - 1	MB0AT0	0.0451	PPB	118	24 Nov 2015 18:31:43
QJ30005004 - 1	MB0AT1	0.0413	PPB	93	24 Nov 2015 18:33:35
QJ30005005 - 1	MB0AT2	0.0372	PPB	66	24 Nov 2015 18:35:26
QJ30005006 - 1	MB0AT3	0.0391	PPB	79	24 Nov 2015 18:37:17
QJ30005007 - 1	MB0AT4	0.0379	PPB	71	24 Nov 2015 18:39:09
CCV021		94.0% 4.6978	PPB	30772	24 Nov 2015 18:41:01
CCB 021		-0.0058	PPB	-217	24 Nov 2015 18:42:51
QJ30005008 - 1	MB0AT5	0.0396	PPB	82	24 Nov 2015 18:44:49
QJ30005009 - 1	MB0AT6	0.0663	PPB	258	24 Nov 2015 18:46:41
QJ30005010 - 1	MB0AT7	0.0443	PPB	113	24 Nov 2015 18:48:34
QJ30005011 - 1	MB0AT8	0.0416	PPB	95	24 Nov 2015 18:50:25
QJ30005012 - 1	MB0AT9	0.0508	PPB	156	24 Nov 2015 18:52:16
QJ30005013 - 1	MB0AW1	0.0396	PPB	82	24 Nov 2015 18:54:07
QJ30005013MS - 1	MB0AW1S	1.2481	PPB	8044	24 Nov 2015 18:55:58
QJ30005013DU - 1	MB0AW1D	0.0226	PPB	-30	24 Nov 2015 18:57:49
QJ30009001 - 1	MBC2X1	0.0390	PPB	78	24 Nov 2015 18:59:42
QJ30009001MS - 1	MBC2X1S	1.2832	PPB	8275	24 Nov 2015 19:01:33
CCV 022		91.8% 4.5919	PPB	30074	24 Nov 2015 19:03:25
CCB 022		-0.0000	PPB	-179	24 Nov 2015 19:05:17
QJ30009001DU - 1	MBC2X1D	0.0420	PPB	98	24 Nov 2015 19:07:15
QJ30009002 - 1	MBC2X2	0.0375	PPB	68	24 Nov 2015 19:09:07
QJ30009003 - 1	MBC2X3	0.0516	PPB	161	24 Nov 2015 19:10:59
QJ30009004 - 1	MBC2W9	0.0367	PPB	63	24 Nov 2015 19:12:51
QJ30009004MS - 1	MBC2W9S	1.2944	PPB	8349	24 Nov 2015 19:14:44
QJ30009004DU - 1	MBC2W9D	0.0256	PPB	-10	24 Nov 2015 19:16:35
QJ30009005 - 1	MBC2X5	0.0452	PPB	119	24 Nov 2015 19:18:28
QJ30009006 - 1	MBC2X6	0.0449	PPB	117	24 Nov 2015 19:20:20
QQ90340001 - 1	PBW001	7.0069	PPB	45985	24 Nov 2015 19:22:11
QK12004001 - 1	MBC7F4	0.0023	PPB	-164	24 Nov 2015 19:24:03
CCV 023		94.7% 4.7327	PPB	31002	24 Nov 2015 19:26:04
CCB 023		-0.0134	PPB	-267	24 Nov 2015 19:27:54
QK12004001 - 1	MBC7F4	0.0401	PPB	85	24 Nov 2015 19:29:50
QK12004002 - 1	MBC7F5	0.0420	PPB	98	24 Nov 2015 19:31:42
QK12004002MS - 1	MBC7F5S	1.3798	PPB	8912	24 Nov 2015 19:33:33
QK12004002DU - 1	MBC7F5D	0.0293	PPB	14	24 Nov 2015 19:35:25
QK12004003 - 1	MBC7F6	0.0391	PPB	79	24 Nov 2015 19:37:19
QK12004004 - 1	MBC7F7	0.0401	PPB	85	24 Nov 2015 19:39:10
QK12004005 - 1	MBC7F8	0.0513	PPB	159	24 Nov 2015 19:41:02
QK12004006 - 1	MBC7F9	0.0358	PPB	57	24 Nov 2015 19:42:53
QK12004007 - 1	MBC7G0	0.0457	PPB	122	24 Nov 2015 19:44:45
QK12004008 - 1	MBC7G1	0.1563	PPB	851	24 Nov 2015 19:46:38
CCV 024		95.1% 4.7564	PPB	31158	24 Nov 2015 19:48:30
CCB 024		-0.0015	PPB	-189	24 Nov 2015 19:50:21
QK12004009 - 1	MBC7G2	0.1105	PPB	549	24 Nov 2015 19:52:19
QK12004010 - 1	MBC7G3	0.0387	PPB	76	24 Nov 2015 19:54:12
QK12004011 - 1	MBC7G4	0.0382	PPB	73	24 Nov 2015 19:56:04
QK12004012 - 1	MBC7G5	0.0341	PPB	46	24 Nov 2015 19:57:57
QK12004013 - 1	MBC7G6	0.0437	PPB	109	24 Nov 2015 19:59:49
QK17017020	MBC764	0.0393	PPB	80	24 Nov 2015 20:01:40
QK03007011 - 1	MJHBR3	0.0361	PPB	59	24 Nov 2015 20:03:33
QK03007012 - 1	MJBW1	0.0420	PPB	98	24 Nov 2015 20:05:25
QK04017003 - 1	MX2173	5.0644	PPB	33187	24 Nov 2015 20:07:18
QK04017003MS - 1	MX2173S	7.4923	PPB	49183	24 Nov 2015 20:09:10
CCV 025		96.1% 4.8027	PPB	31463	24 Nov 2015 20:11:08

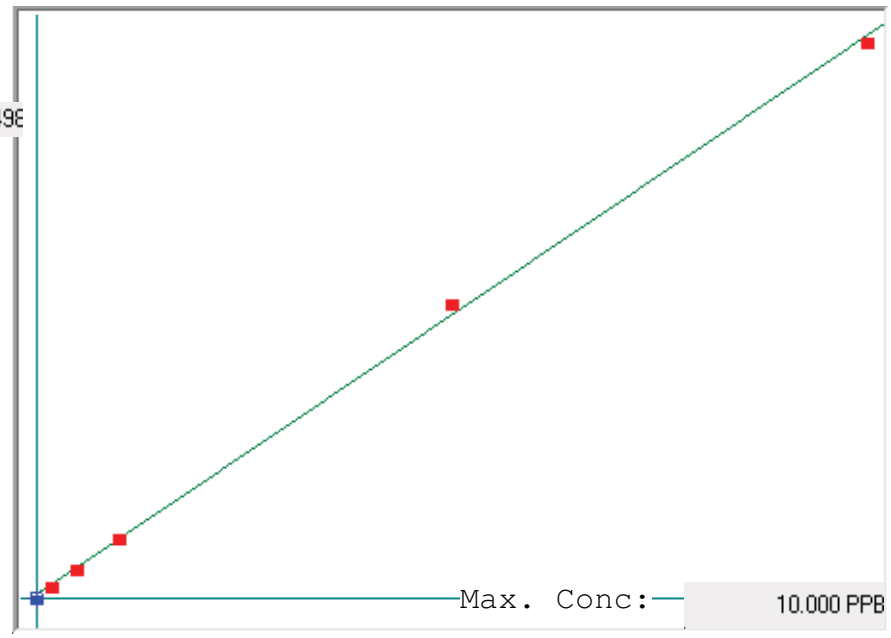
HG4112415ISMA

Method: HG4ISMW Operator: Admin Date of Analysis: 24 Nov 2015 14:18:45

Sample ID	Extended ID	Conc.	Units	µ Abs.	Date
CCB 025		-0.0096	PPB	-242	24 Nov 2015 20:13:07
QK04017003DU - 1	MX2173D	0.0237	PPB	-23	24 Nov 2015 20:15:05
QK13012001 - 1	MB763	0.0476	PPB	135	24 Nov 2015 20:16:57
QK13012001MS - 1	MB763S	0.3942	PPB	2418	24 Nov 2015 20:18:49
QK13012001DU - 1	MB763D	0.0393	PPB	80	24 Nov 2015 20:20:42
QQ90341001 - 1	PBW001	0.0373	PPB	67	24 Nov 2015 20:22:35
QK05011001 - 1	MC0KF9	0.0385	PPB	75	24 Nov 2015 20:24:27
QK05011002 - 1	MC0KG0	0.0757	PPB	320	24 Nov 2015 20:26:19
QK05011003 - 1	MC0KG1	0.0379	PPB	71	24 Nov 2015 20:28:12
QK05011004 - 1	MC0KG2	0.0373	PPB	67	24 Nov 2015 20:30:04
QK05011005 - 1	MC0KG3	0.0379	PPB	71	24 Nov 2015 20:31:56
CCV 026		97.3% 4.8666	PPB	31884	24 Nov 2015 20:33:49
CCB026		-0.0043	PPB	-207	24 Nov 2015 20:35:39
QK05011006 - 1	MC0KG4	0.0357	PPB	56	24 Nov 2015 20:37:37
QK05011007 - 1	MC0KJ9	0.0401	PPB	85	24 Nov 2015 20:39:30
QK05011008 - 1	MC0KK0	0.0364	PPB	61	24 Nov 2015 20:41:21
QK05011009 - 1	MC0KH4	0.0411	PPB	92	24 Nov 2015 20:43:13
QK05011010 - 1	MC0KK1	0.0408	PPB	90	24 Nov 2015 20:45:06
QK05011011 - 1	MC0KK2	0.0542	PPB	178	24 Nov 2015 20:46:58
QK05011012 - 1	MC0KK5	0.0445	PPB	114	24 Nov 2015 20:48:50
QK05011012MS - 1	MC0KK5S	0.8321	PPB	5303	24 Nov 2015 20:50:42
QK05011012DU - 1	MC0KKD5	0.0302	PPB	20	24 Nov 2015 20:52:34
QK05011013 - 1	MC0KK6	0.0391	PPB	79	24 Nov 2015 20:54:28
CCV 027		95.3% 4.7666	PPB	31225	24 Nov 2015 20:56:20
CCB 027		-0.0068	PPB	-224	24 Nov 2015 20:58:10
QK05011013MS - 1	MC0KK6S	0.8172	PPB	5205	24 Nov 2015 21:00:08
QK05011013DU - 1	MC0KK6D	0.0296	PPB	16	24 Nov 2015 21:02:00
QK05011014 - 1	MC0KN0	0.0437	PPB	109	24 Nov 2015 21:03:54
QK05011015 - 1	MC0KN7	0.0455	PPB	121	24 Nov 2015 21:05:46
QK05011016 - 1	MC0KN8	0.0413	PPB	93	24 Nov 2015 21:07:38
QK05011017 - 1	MC0KN9	0.0355	PPB	55	24 Nov 2015 21:09:30
QK05011018 - 1	MC0KP1	0.0382	PPB	73	24 Nov 2015 21:11:23
QK05011019 - 1	MC0KP2	0.0381	PPB	72	24 Nov 2015 21:13:15
QK05011020 - 1	MC0KP3	0.0402	PPB	86	24 Nov 2015 21:15:07
QQ90340001 - 1	PBW002	0.0428	PPB	103	24 Nov 2015 21:17:00
CCV 028		95.7% 4.7866	PPB	31357	24 Nov 2015 21:18:53
CCB 028		-0.0037	PPB	-203	24 Nov 2015 21:20:43
QK04017003 - 1	MX2173	6.3586	PPB	41714	24 Nov 2015 21:22:41
QK04017003MS - 1	MX2173S	7.5041	PPB	49261	24 Nov 2015 21:24:33
QK04017003DU - 1	MX2173D	6.2550	PPB	41031	24 Nov 2015 21:26:33
CCV 029		92.7% 4.6374	PPB	30374	24 Nov 2015 21:28:34
CCB 029		-0.0049	PPB	-211	24 Nov 2015 21:30:31

HG4ISMS

Linear



A= 0.0000e+000

B= 6.2346e-005

C= -6.0542e-002

Rho= 0.9995740

Accept= Accepted

Accepted Date=

11/25/15 17:15

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
BLANK S0	0.000	-0.057	-0.057	60	0.000	60				
CAL 1 0.2 S01	0.200	0.154	-0.046	3441	0.0 %	3441				
CAL 2 0.5 S02	0.500	0.476	-0.024	8607	0.0 %	8607				
CAL 3 1.0 S03	1.000	1.024	0.024	17403	0.0 %	17403				
CAL 4 5.0 S04	5.000	5.219	0.219	84679	0.0 %	84679				
CAL 5 10.0 S05	10.000	9.883	-0.117	159498	0.0 %	159498				

HG4112515ISMA

Method: HG4ISMS Operator: Admin Date of Analysis: 25 Nov 2015 16:19:37

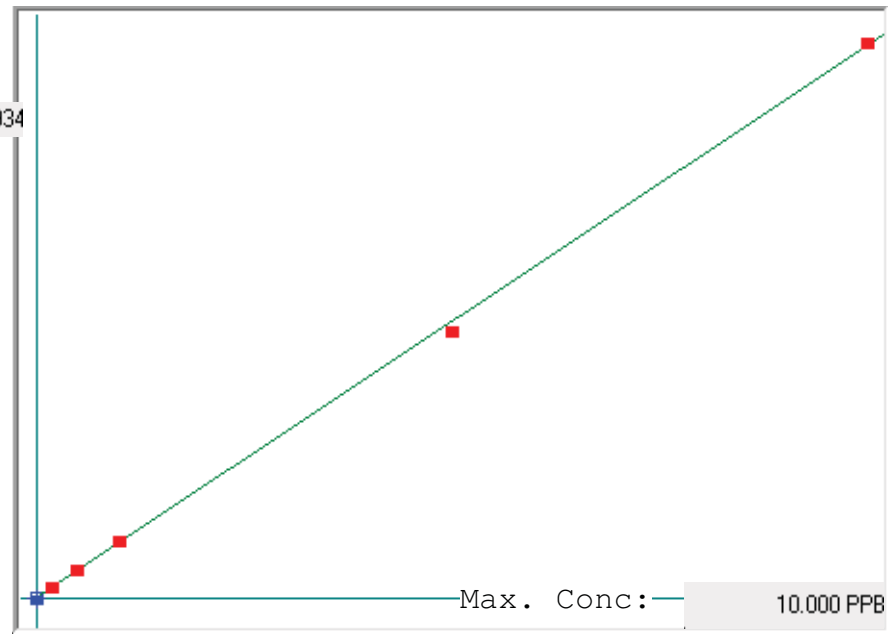
Sample ID	Extended ID	Conc.	Units	µ Abs.	Date
BLANK S0 - 1		-	PPB	60	25 Nov 2015 17:00:42
CAL 1 0.2 S01 - 1		-	PPB	3441	25 Nov 2015 17:03:13
CAL 2 0.5 S02 - 1		-	PPB	8607	25 Nov 2015 17:05:46
CAL 3 1.0 S03 - 1		-	PPB	17403	25 Nov 2015 17:08:18
CAL 4 5.0 S04 - 1		-	PPB	84679	25 Nov 2015 17:10:50
CAL 5 10.0 S05 - 1		-	PPB	159498	25 Nov 2015 17:13:21
ICV003 EPA ICV5-0508 - 1		99.8% 3.9921	PPB	65003	25 Nov 2015 17:15:52
ICB003		-0.0620	PPB	-23	25 Nov 2015 17:18:23
CCV030		103.1% 5.1559	PPB	83670	25 Nov 2015 17:20:53
CCB 030		-0.0635	PPB	-47	25 Nov 2015 17:23:23
QQ90390001 - 1	PBS003	-0.0584	PPB	35	25 Nov 2015 17:25:54
QK04017007 - 1	MX2177	2.2434	PPB	36954	25 Nov 2015 17:28:25
QK04017007MS - 1	MX2177S	4.9062	PPB	79664	25 Nov 2015 17:30:56
QK04017007DU - 1	MX2177D	1.9338	PPB	31989	25 Nov 2015 17:33:27
QK17017001 - 1	MBC7B8	0.2852	PPB	5545	25 Nov 2015 17:35:58
QK17017001MS - 1	MBC7B8S	3.3342	PPB	54451	25 Nov 2015 17:38:28
QK17017001DU - 1	MBC7B8D	0.2222	PPB	4535	25 Nov 2015 17:40:59
QK17017002 - 1	MBC7D3	0.0002	PPB	975	25 Nov 2015 17:43:30
QK17017003 - 1	MBC7D4	0.1130	PPB	2784	25 Nov 2015 17:46:01
QK17017004 - 1	MBC7H4	0.0121	PPB	1165	25 Nov 2015 17:48:33
CCV 031		102.4% 5.1218	PPB	83123	25 Nov 2015 17:51:05
CCB 031		-0.0640	PPB	-55	25 Nov 2015 17:53:35
QK17017005 - 1	MBC7H5	0.0862	PPB	2354	25 Nov 2015 17:56:06
QK17017006 - 1	MBC7H6	-0.0005	PPB	963	25 Nov 2015 17:58:38
QK17017007 - 1	MBC7J0	0.1088	PPB	2716	25 Nov 2015 18:01:10
QK17017008 - 1	MBC7B7	0.0766	PPB	2200	25 Nov 2015 18:03:41
QK11054001 - 1	ME6BF3	2.9814	PPB	48792	25 Nov 2015 18:06:12
QK11054002 - 1	ME6BF4	1.3332	PPB	22355	25 Nov 2015 18:08:43
QK11054002S - 1	ME6BF4S	4.5124	PPB	73349	25 Nov 2015 18:11:15
QK11054002DU - 1	ME6BF4D	0.8906	PPB	15256	25 Nov 2015 18:13:45
QK11054003 - 1	ME6BF5	2.1885	PPB	36073	25 Nov 2015 18:16:17
QQ90391001 - 1	PBS	-0.0646	PPB	-65	25 Nov 2015 18:18:47
CCV 032		101.4% 5.0697	PPB	82287	25 Nov 2015 18:21:19
CCB 032		-0.0632	PPB	-43	25 Nov 2015 18:23:50
QK07014001 - 1	ME6BB1	-0.0373	PPB	373	25 Nov 2015 18:26:20
QK07014002 - 1	ME6BB2	-0.0213	PPB	629	25 Nov 2015 18:28:52
QK07014003 - 1	ME6BB3	-0.0347	PPB	414	25 Nov 2015 18:31:23
QK07014004 - 1	ME6BB4	0.3157	PPB	6035	25 Nov 2015 18:33:55
QK07014004MS - 1	ME6BB4S	3.2249	PPB	52698	25 Nov 2015 18:36:27
QK07014004DU - 1	ME6BB4D	0.6676	PPB	11679	25 Nov 2015 18:38:58
QK07014005 - 1	ME6BB5	1.3053	PPB	21908	25 Nov 2015 18:41:30
QK07014006 - 1	ME6BB6	-0.0480	PPB	201	25 Nov 2015 18:44:01
QK07014007 - 1	ME6BB7	0.4813	PPB	8691	25 Nov 2015 18:46:33
QK07014008 - 1	ME6BB8	0.3312	PPB	6284	25 Nov 2015 18:49:05
CCV 033		101.9% 5.0943	PPB	82681	25 Nov 2015 18:51:37
CCB 033		-0.0630	PPB	-39	25 Nov 2015 18:54:07
QK07014009 - 1	ME6BB9	1.3041	PPB	21889	25 Nov 2015 18:56:38
QK07014010 - 1	ME6BC0	-0.0502	PPB	166	25 Nov 2015 18:59:10
QK07014011 - 1	ME6BC1	1.3765	PPB	23050	25 Nov 2015 19:01:42
QK07014012 - 1	ME6BC2	-0.0512	PPB	150	25 Nov 2015 19:04:15
QK07014013 - 1	ME6BC3	-0.0342	PPB	423	25 Nov 2015 19:06:47
QK07014014 - 1	ME6BC4	-0.0344	PPB	419	25 Nov 2015 19:09:19
QK07014015 - 1	ME6BC5	0.0598	PPB	1931	25 Nov 2015 19:11:51
QK07014016 - 1	ME6BC6	0.8682	PPB	14897	25 Nov 2015 19:14:23
QK07014017 - 1	ME6BC7	0.4636	PPB	8407	25 Nov 2015 19:16:55
QK07014018 - 1	ME6BC8	0.5513	PPB	9813	25 Nov 2015 19:19:27
CCV 034		102.3% 5.1147	PPB	83009	25 Nov 2015 19:21:59
CCB 034		-0.0646	PPB	-65	25 Nov 2015 19:24:29
QK07014019 - 1	ME6BC9	0.1586	PPB	3515	25 Nov 2015 19:27:00
QK07014020 - 1	ME6BD0	0.0193	PPB	1280	25 Nov 2015 19:29:32
CCV 035		101.0% 5.0487	PPB	81950	25 Nov 2015 19:32:05
CCB 035		-0.0629	PPB	-38	25 Nov 2015 19:34:37

HG4ISMS

Linear

μ Abs.:

170934



A= 0.0000e+000

B= 5.8956e-005

C= -1.0047e-002

Rho= 0.9998006

Accept= Accepted

Accepted Date=

12/04/15 12:25

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
BLANK S0	0.000	-0.005	-0.005	90	0.000	90				
CAL 1 0.2 S01	0.200	0.215	0.015	3811	0.0 %	3811				
CAL 2 0.5 S02	0.500	0.529	0.029	9151	0.0 %	9151				
CAL 3 1.0 S03	1.000	1.048	0.048	17940	0.0 %	17940				
CAL 4 5.0 S04	5.000	4.845	-0.155	82358	0.0 %	82358				
CAL 5 10.0 S05	10.000	10.068	0.068	170934	0.0 %	170934				

HG4120415ISMA

Method: HG4ISMS Operator: COH Date of Analysis: 04 Dec 2015 12:02:17

Sample ID	Extended ID	Conc.	µ Abs.	Date
BLANK S0 - 1		-	90	04 Dec 2015 12:10:50
CAL 1 0.2 S01 - 1		-	3811	04 Dec 2015 12:13:20
CAL 2 0.5 S02 - 1		-	9151	04 Dec 2015 12:15:53
CAL 3 1.0 S03 - 1		-	17940	04 Dec 2015 12:18:25
CAL 4 5.0 S04 - 1		-	82358	04 Dec 2015 12:20:57
CAL 5 10.0 S05 - 1		-	170934	04 Dec 2015 12:23:28
ICV EPA ICV5-0508 - 1		102.6% 4.1030	69765	04 Dec 2015 12:25:59
ICB - 1		-0.0083	29	04 Dec 2015 12:28:30
CCV - 1		101.0% 5.0475	85785	04 Dec 2015 12:31:00
CCB - 1		-0.0064	62	04 Dec 2015 12:33:30
QQ91318001 - 1	PBS	-0.0071	50	04 Dec 2015 12:36:01
QK17017012 - 1	MBC7C2	0.2262	4008	04 Dec 2015 12:38:32
QK17017013 - 1	MBC7C3	0.1906	3404	04 Dec 2015 12:41:03
QK17017014 - 1	MBC7C4	0.1931	3445	04 Dec 2015 12:43:34
QK17017015 - 1	MBC7C5	0.2170	3851	04 Dec 2015 12:46:05
QK17017016 - 1	MBC7C6	0.0456	944	04 Dec 2015 12:48:36
QK17017017 - 1	MBC7C7	0.0299	678	04 Dec 2015 12:51:07
QK17017018 - 1	MBC7C8	0.0970	1815	04 Dec 2015 12:53:39
QK17017019 - 1	MBC7D2	0.1764	3163	04 Dec 2015 12:56:10
CCV - 1		100.9% 5.0453	85747	04 Dec 2015 12:58:42
CCB - 1		-0.0066	58	04 Dec 2015 13:01:12

Mercury
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1	Sample ID: Std01Rep1	EPA Sample ID: S0				Date: 11/20/2015	18:05:04	Dilution:		1
2	Sample ID: Std02Rep1	EPA Sample ID: S01				Date: 11/20/2015	18:08:44	Dilution:		1
3	Sample ID: Std03Rep1	EPA Sample ID: S02				Date: 11/20/2015	18:10:55	Dilution:		1
4	Sample ID: Std04Rep1	EPA Sample ID: S03				Date: 11/20/2015	18:13:55	Dilution:		1
5	Sample ID: Std05Rep1	EPA Sample ID: S04				Date: 11/20/2015	18:17:01	Dilution:		1
6	Sample ID: Std06Rep1	EPA Sample ID: S05				Date: 11/20/2015	18:19:47	Dilution:		1
7	Sample ID: ICV1	EPA Sample ID: ICV001				Date: 11/20/2015	18:22:13	Dilution:		1
8	Sample ID: ICB1	EPA Sample ID: ICB001				Date: 11/20/2015	18:26:09	Dilution:		1
9	Sample ID: CCV1	EPA Sample ID: CCV001				Date: 11/20/2015	18:29:39	Dilution:		1
10	Sample ID: CCB1	EPA Sample ID: CCB001				Date: 11/20/2015	18:32:12	Dilution:		1
11	Sample ID: QQ90138-001	EPA Sample ID: QQ90138001				Date: 11/20/2015	18:34:46	Dilution:		1
12	Sample ID: QK13011-001	EPA Sample ID: QK13011001				Date: 11/20/2015	18:37:05	Dilution:		1
13	Sample ID: QK13011-001	EPA Sample ID: QK13011001				Date: 11/20/2015	18:39:40	Dilution:		1
14	Sample ID: QK13011-001	EPA Sample ID: QK13011001				Date: 11/20/2015	18:41:50	Dilution:		1
15	Sample ID: QK13011-002	EPA Sample ID: QK13011002				Date: 11/20/2015	18:44:21	Dilution:		1
16	Sample ID: QK13011-003	EPA Sample ID: QK13011003				Date: 11/20/2015	18:47:10	Dilution:		1
17	Sample ID: QK13011-004	EPA Sample ID: QK13011004				Date: 11/20/2015	18:49:11	Dilution:		1
18	Sample ID: QK13011-005	EPA Sample ID: QK13011005				Date: 11/20/2015	18:52:06	Dilution:		1
19	Sample ID: QK13011-006	EPA Sample ID: QK13011006				Date: 11/20/2015	18:54:11	Dilution:		1
20	Sample ID: QK13011-007	EPA Sample ID: QK13011007				Date: 11/20/2015	18:56:31	Dilution:		1
21	Sample ID: CCV002	EPA Sample ID: CCV002				Date: 11/20/2015	18:58:45	Dilution:		1
22	Sample ID: CCB002	EPA Sample ID: CCB002				Date: 11/20/2015	19:01:45	Dilution:		1
23	Sample ID: QK13011-008	EPA Sample ID: QK13011008				Date: 11/20/2015	19:03:48	Dilution:		1
24	Sample ID: QK13011-009	EPA Sample ID: QK13011009				Date: 11/20/2015	19:06:50	Dilution:		1
25	Sample ID: QK13011-010	EPA Sample ID: QK13011010				Date: 11/20/2015	19:09:01	Dilution:		1
26	Sample ID: QK13011-011	EPA Sample ID: QK13011011				Date: 11/20/2015	19:11:10	Dilution:		1
27	Sample ID: QK13011-012	EPA Sample ID: QK13011012				Date: 11/20/2015	19:13:23	Dilution:		1
Hg	PARAMETER IS OVER RANGE			44.8000	10			0.00	0.02	0.20
28	Sample ID: QK13011-013	EPA Sample ID: QK13011013				Date: 11/20/2015	19:16:44	Dilution:		1
29	Sample ID: QK13011-014	EPA Sample ID: QK13011014				Date: 11/20/2015	19:18:46	Dilution:		1
30	Sample ID: QK13011-015	EPA Sample ID: QK13011015				Date: 11/20/2015	19:20:50	Dilution:		1
31	Sample ID: QK13011-016	EPA Sample ID: QK13011016				Date: 11/20/2015	19:24:10	Dilution:		1
32	Sample ID: QK13011-017	EPA Sample ID: QK13011017				Date: 11/20/2015	19:26:14	Dilution:		1
Hg	PARAMETER IS OVER RANGE			16.0000	10			0.00	0.02	0.20
33	Sample ID: CCV3	EPA Sample ID: CCV003				Date: 11/20/2015	19:29:15	Dilution:		1
34	Sample ID: CCB3	EPA Sample ID: CCB003				Date: 11/20/2015	19:31:26	Dilution:		1
35	Sample ID: QK13011-018	EPA Sample ID: QK13011018				Date: 11/20/2015	19:33:50	Dilution:		1
36	Sample ID: QK13011-019	EPA Sample ID: QK13011019				Date: 11/20/2015	19:35:58	Dilution:		1
37	Sample ID: QK13011-020	EPA Sample ID: QK13011020				Date: 11/20/2015	19:38:22	Dilution:		1
38	Sample ID: CCV4	EPA Sample ID: CCV004				Date: 11/20/2015	19:41:51	Dilution:		1
39	Sample ID: CCB4	EPA Sample ID: CCB004				Date: 11/20/2015	19:44:07	Dilution:		1

Analytical Review Report

Data File: HG3112015ISMA1

Analyst: COH

Hg3

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
40	**Sample ID: QQ90139-001**	**EPA Sample ID: QQ90139001**			**Date: 11/20/2015**	**19:46:21**		**Dilution:**	**1**
41	**Sample ID: QK13012-002**	**EPA Sample ID: QK13012002**			**Date: 11/20/2015**	**19:48:21**		**Dilution:**	**1**
42	**Sample ID: QK13012-003**	**EPA Sample ID: QK13012003**			**Date: 11/20/2015**	**19:50:22**		**Dilution:**	**1**
43	**Sample ID: QK13012-004**	**EPA Sample ID: QK13012004**			**Date: 11/20/2015**	**19:52:32**		**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		85.6000	10		0.00	0.02		0.20
44	**Sample ID: QK13012-005**	**EPA Sample ID: QK13012005**			**Date: 11/20/2015**	**19:56:06**		**Dilution:**	**1**
45	**Sample ID: QK13012-006**	**EPA Sample ID: QK13012006**			**Date: 11/20/2015**	**19:58:32**		**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		110.0000	10		0.00	0.02		0.20
46	**Sample ID: QK13012-006**	**EPA Sample ID: QK13012006**			**Date: 11/20/2015**	**20:01:58**		**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		91.6000	10		0.00	0.02		0.20
47	**Sample ID: CCV5**	**EPA Sample ID: CCV005**			**Date: 11/20/2015**	**20:05:00**		**Dilution:**	**1**
48	**Sample ID: CCB5**	**EPA Sample ID: CCB005**			**Date: 11/20/2015**	**20:07:05**		**Dilution:**	**1**
49	**Sample ID: QK13012-006**	**EPA Sample ID: QK13012006**			**Date: 11/20/2015**	**20:09:10**		**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		67.7000	10		0.00	0.02		0.20
50	**Sample ID: QK13012-007**	**EPA Sample ID: QK13012007**			**Date: 11/20/2015**	**20:11:31**		**Dilution:**	**1**
51	**Sample ID: QK13012-008**	**EPA Sample ID: QK13012008**			**Date: 11/20/2015**	**20:15:29**		**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		51.7000	10		0.00	0.02		0.20
52	**Sample ID: QK13012-009**	**EPA Sample ID: QK13012009**			**Date: 11/20/2015**	**20:18:14**		**Dilution:**	**34**
53	**Sample ID: QK13012-011**	**EPA Sample ID: QK13012011**			**Date: 11/20/2015**	**20:23:05**		**Dilution:**	**1**
54	**Sample ID: QK13012-012**	**EPA Sample ID: QK13012012**			**Date: 11/20/2015**	**20:25:04**		**Dilution:**	**1**
55	**Sample ID: QK13012-013**	**EPA Sample ID: QK13012013**			**Date: 11/20/2015**	**20:27:16**		**Dilution:**	**1**
56	**Sample ID: QK13012-014**	**EPA Sample ID: QK13012014**			**Date: 11/20/2015**	**20:30:47**		**Dilution:**	**1**
57	**Sample ID: QK13012-015**	**EPA Sample ID: QK13012015**			**Date: 11/20/2015**	**20:32:49**		**Dilution:**	**1**
58	**Sample ID: CCV6**	**EPA Sample ID: CCV006**			**Date: 11/20/2015**	**20:36:33**		**Dilution:**	**1**
59	**Sample ID: CCB6**	**EPA Sample ID: CCB006**			**Date: 11/20/2015**	**20:38:32**		**Dilution:**	**1**
60	**Sample ID: QK13012-016**	**EPA Sample ID: QK13012016**			**Date: 11/20/2015**	**20:41:53**		**Dilution:**	**1**
61	**Sample ID: QK13012-017**	**EPA Sample ID: QK13012017**			**Date: 11/20/2015**	**20:43:58**		**Dilution:**	**1**
62	**Sample ID: QK13012-018**	**EPA Sample ID: QK13012018**			**Date: 11/20/2015**	**20:46:24**		**Dilution:**	**1**
63	**Sample ID: QK13012-019**	**EPA Sample ID: QK13012019**			**Date: 11/20/2015**	**20:49:16**		**Dilution:**	**1**
64	**Sample ID: QK13012-020**	**EPA Sample ID: QK13012020**			**Date: 11/20/2015**	**20:51:42**		**Dilution:**	**1**
65	**Sample ID: CCV7**	**EPA Sample ID: CCV007**			**Date: 11/20/2015**	**20:54:18**		**Dilution:**	**1**
66	**Sample ID: CCB7**	**EPA Sample ID: CCB007**			**Date: 11/20/2015**	**20:56:23**		**Dilution:**	**1**
67	**Sample ID: QQ90140-001**	**EPA Sample ID: PBS001**			**Date: 11/20/2015**	**20:58:43**		**Dilution:**	**1**
68	**Sample ID: QK13013-001**	**EPA Sample ID: QK13013001**			**Date: 11/20/2015**	**21:00:58**		**Dilution:**	**1**
69	**Sample ID: QK13013-001**	**EPA Sample ID: QK13013001**			**Date: 11/20/2015**	**21:03:03**		**Dilution:**	**1**
70	**Sample ID: QK13013-001**	**EPA Sample ID: QK13013001**			**Date: 11/20/2015**	**21:05:18**		**Dilution:**	**1**
71	**Sample ID: QK13013-002**	**EPA Sample ID: QK13013002**			**Date: 11/20/2015**	**21:08:28**		**Dilution:**	**1**
72	**Sample ID: CCV8**	**EPA Sample ID: CCV008**			**Date: 11/20/2015**	**21:10:53**		**Dilution:**	**1**
73	**Sample ID: CCB8**	**EPA Sample ID: CCB008**			**Date: 11/20/2015**	**21:13:35**		**Dilution:**	**1**
74	**Sample ID: QK13013-003**	**EPA Sample ID: QK13013003**			**Date: 11/20/2015**	**21:16:06**		**Dilution:**	**1**
75	**Sample ID: QK13013-004**	**EPA Sample ID: QK13013004**			**Date: 11/20/2015**	**21:18:11**		**Dilution:**	**1**
76	**Sample ID: QK13013-005**	**EPA Sample ID: QK13013005**			**Date: 11/20/2015**	**21:20:12**		**Dilution:**	**1**

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
77. Sample ID:	**QK13013-006**	**EPA Sample ID:**	**QK13013006**		**Date:**	**11/20/2015**	**21:22:23**	**Dilution:**	**1**
78. Sample ID:	**QK13013-007**	**EPA Sample ID:**	**QK13013007**		**Date:**	**11/20/2015**	**21:24:39**	**Dilution:**	**1**
79. Sample ID:	**QK13013-008**	**EPA Sample ID:**	**QK13013008**		**Date:**	**11/20/2015**	**21:27:02**	**Dilution:**	**1**
80. Sample ID:	**QK13013-009**	**EPA Sample ID:**	**QK13013009**		**Date:**	**11/20/2015**	**21:29:17**	**Dilution:**	**1**
81. Sample ID:	**QK17017-009**	**EPA Sample ID:**	**MBC7B9**		**Date:**	**11/20/2015**	**21:31:31**	**Dilution:**	**1**
82. Sample ID:	**QK17017-010**	**EPA Sample ID:**	**MBC7C0**		**Date:**	**11/20/2015**	**21:33:35**	**Dilution:**	**1**
83. Sample ID:	**QK17017-011**	**EPA Sample ID:**	**MBC7C1**		**Date:**	**11/20/2015**	**21:35:39**	**Dilution:**	**1**
84. Sample ID:	**CCV9**	**EPA Sample ID:**	**CCV009**		**Date:**	**11/20/2015**	**21:37:40**	**Dilution:**	**1**
85. Sample ID:	**CCB9**	**EPA Sample ID:**	**CCB009**		**Date:**	**11/20/2015**	**21:41:00**	**Dilution:**	**1**
86. Sample ID:	**QK17017-012**	**EPA Sample ID:**	**MBC7C2**		**Date:**	**11/20/2015**	**21:43:04**	**Dilution:**	**1**
87. Sample ID:	**QK17017-013**	**EPA Sample ID:**	**MBC7C3**		**Date:**	**11/20/2015**	**21:45:30**	**Dilution:**	**1**
88. Sample ID:	**QK17017-014**	**EPA Sample ID:**	**MBC7C4**		**Date:**	**11/20/2015**	**21:48:22**	**Dilution:**	**1**
89. Sample ID:	**QK17017-015**	**EPA Sample ID:**	**MBC7C5**		**Date:**	**11/20/2015**	**21:50:36**	**Dilution:**	**1**
90. Sample ID:	**QK17017-016**	**EPA Sample ID:**	**MBC7C6**		**Date:**	**11/20/2015**	**21:52:39**	**Dilution:**	**1**
91. Sample ID:	**QK17017-017**	**EPA Sample ID:**	**MBC7C7**		**Date:**	**11/20/2015**	**21:55:23**	**Dilution:**	**1**
92. Sample ID:	**QK17017-018**	**EPA Sample ID:**	**MBC7C8**		**Date:**	**11/20/2015**	**21:57:26**	**Dilution:**	**1**
93. Sample ID:	**QK17017-019**	**EPA Sample ID:**	**MBC7D2**		**Date:**	**11/20/2015**	**22:00:08**	**Dilution:**	**1**
94. Sample ID:	**CCV010**	**EPA Sample ID:**	**CCV010**		**Date:**	**11/20/2015**	**22:02:15**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA		4.0000	10	5.0	80.0	0.00	0.02	0.20
95. Sample ID:	**CCB010**	**EPA Sample ID:**	**CCB010**		**Date:**	**11/20/2015**	**22:05:05**	**Dilution:**	**1**

Analytical Review Report

Data File: ***HG4112415 ISMA1***

Analyst: ***BNW***

Hg4

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
96 · Sample ID:	BLANK S0	EPA Sample ID:	S0		Date:	11/24/2015	18:03:24	Dilution:	1
97 · Sample ID:	CAL 1 0-.2 S01 15HG1	EPA Sample ID:	S01		Date:	11/24/2015	18:05:15	Dilution:	1
98 · Sample ID:	CAL 2 0-.5 S02 15HG1	EPA Sample ID:	S02		Date:	11/24/2015	18:07:07	Dilution:	1
99 · Sample ID:	CAL 3 1-.0 S03 15HG1	EPA Sample ID:	S03		Date:	11/24/2015	18:09:00	Dilution:	1
100 · Sample ID:	CAL 4 5-.0 S04 15HG1	EPA Sample ID:	S04		Date:	11/24/2015	18:10:53	Dilution:	1
101 · Sample ID:	CAL 5 1-0.0 S05 15HG	EPA Sample ID:	S05		Date:	11/24/2015	18:12:46	Dilution:	1
102 · Sample ID:	ICV2	EPA Sample ID:	ICV002		Date:	11/24/2015	18:14:44	Dilution:	1
103 · Sample ID:	ICB2	EPA Sample ID:	ICB002		Date:	11/24/2015	18:16:46	Dilution:	1
104 · Sample ID:	CCV20	EPA Sample ID:	CCV020		Date:	11/24/2015	18:18:39	Dilution:	1
105 · Sample ID:	CCB20	EPA Sample ID:	CCB020		Date:	11/24/2015	18:20:29	Dilution:	1
106 · Sample ID:	QQ90339-001	EPA Sample ID:	QQ90339-001MB		Date:	11/24/2015	18:22:27	Dilution:	1
107 · Sample ID:	QJ30005-001	EPA Sample ID:	MB0AS8		Date:	11/24/2015	18:24:18	Dilution:	1
108 · Sample ID:	QJ30005-002	EPA Sample ID:	MB0AS9		Date:	11/24/2015	18:26:09	Dilution:	1
109 · Sample ID:	QJ30005-002MS	EPA Sample ID:	MB0AS9S		Date:	11/24/2015	18:28:00	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA		1.2555	25	1.0	126.0	0.00	0.02	0.20
110 · Sample ID:	QJ30005-002DU	EPA Sample ID:	MB0AS9D		Date:	11/24/2015	18:29:51	Dilution:	1
111 · Sample ID:	QJ30005-003	EPA Sample ID:	MB0AT0		Date:	11/24/2015	18:31:43	Dilution:	1
112 · Sample ID:	QJ30005-004	EPA Sample ID:	MB0AT1		Date:	11/24/2015	18:33:35	Dilution:	1
113 · Sample ID:	QJ30005-005	EPA Sample ID:	MB0AT2		Date:	11/24/2015	18:35:26	Dilution:	1
114 · Sample ID:	QJ30005-006	EPA Sample ID:	MB0AT3		Date:	11/24/2015	18:37:17	Dilution:	1
115 · Sample ID:	QJ30005-007	EPA Sample ID:	MB0AT4		Date:	11/24/2015	18:39:09	Dilution:	1
116 · Sample ID:	CCV21	EPA Sample ID:	CCV021		Date:	11/24/2015	18:41:01	Dilution:	1
117 · Sample ID:	CCB21	EPA Sample ID:	CCB021		Date:	11/24/2015	18:42:51	Dilution:	1
118 · Sample ID:	QJ30005-008	EPA Sample ID:	MB0AT5		Date:	11/24/2015	18:44:49	Dilution:	1
119 · Sample ID:	QJ30005-009	EPA Sample ID:	MB0AT6		Date:	11/24/2015	18:46:41	Dilution:	1
120 · Sample ID:	QJ30005-010	EPA Sample ID:	MB0AT7		Date:	11/24/2015	18:48:34	Dilution:	1
121 · Sample ID:	QJ30005-011	EPA Sample ID:	MB0AT8		Date:	11/24/2015	18:50:25	Dilution:	1
122 · Sample ID:	QJ30005-012	EPA Sample ID:	MB0AT9		Date:	11/24/2015	18:52:16	Dilution:	1
123 · Sample ID:	QJ30005-013	EPA Sample ID:	MB0AW1		Date:	11/24/2015	18:54:07	Dilution:	1
124 · Sample ID:	QJ30005-013MS	EPA Sample ID:	MB0AW1S		Date:	11/24/2015	18:55:58	Dilution:	1
125 · Sample ID:	QJ30005-013DU	EPA Sample ID:	MB0AW1D		Date:	11/24/2015	18:57:49	Dilution:	1
126 · Sample ID:	QJ30009-001	EPA Sample ID:	MBC2X1		Date:	11/24/2015	18:59:42	Dilution:	1
127 · Sample ID:	QJ30009-001MS	EPA Sample ID:	MBC2X1S		Date:	11/24/2015	19:01:33	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA		1.2832	25	1.0	126.0	0.00	0.02	0.20
128 · Sample ID:	CCV22	EPA Sample ID:	CCV022		Date:	11/24/2015	19:03:25	Dilution:	1
129 · Sample ID:	CCB22	EPA Sample ID:	CCB022		Date:	11/24/2015	19:05:17	Dilution:	1
130 · Sample ID:	QJ30009-001DU	EPA Sample ID:	MBC2X1D		Date:	11/24/2015	19:07:15	Dilution:	1
131 · Sample ID:	QJ30009-002	EPA Sample ID:	MBC2X2		Date:	11/24/2015	19:09:07	Dilution:	1
132 · Sample ID:	QJ30009-003	EPA Sample ID:	MBC2X3		Date:	11/24/2015	19:10:59	Dilution:	1
133 · Sample ID:	QJ30009-004	EPA Sample ID:	MBC2W9		Date:	11/24/2015	19:12:51	Dilution:	1
134 · Sample ID:	QJ30009-004MS	EPA Sample ID:	MBC2W9S		Date:	11/24/2015	19:14:44	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA		1.2944	25	1.0	126.0	0.00	0.02	0.20

Analytical Review Report

Data File: ***HG4112415 ISMA1***

Analyst: ***BNW***

Hg4

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
135 · Sample ID:	QJ30009-004DU	EPA Sample ID:	MBC2W9D		Date:	11/24/2015	19:16:35	Dilution:	1
136 · Sample ID:	QJ30009-005	EPA Sample ID:	MBC2X5		Date:	11/24/2015	19:18:28	Dilution:	1
137 · Sample ID:	QJ30009-006	EPA Sample ID:	MBC2X6		Date:	11/24/2015	19:20:20	Dilution:	1
138 · Sample ID:	QQ90340-001	EPA Sample ID:	PBW001		Date:	11/24/2015	19:22:11	Dilution:	1
Hg	MB result is greater than High Det Lim		7.0069	25			0.00	0.02	0.20
139 · Sample ID:	QK12004-001	EPA Sample ID:	MBC7F4		Date:	11/24/2015	19:24:03	Dilution:	1
140 · Sample ID:	CCV023	EPA Sample ID:	CCV023		Date:	11/24/2015	19:26:04	Dilution:	1
141 · Sample ID:	CCB023	EPA Sample ID:	CCB023		Date:	11/24/2015	19:27:54	Dilution:	1
142 · Sample ID:	QK12004-001	EPA Sample ID:	MBC7F4		Date:	11/24/2015	19:29:50	Dilution:	1
143 · Sample ID:	QK12004-002	EPA Sample ID:	MBC7F5		Date:	11/24/2015	19:31:42	Dilution:	1
144 · Sample ID:	QK12004-002MS	EPA Sample ID:	MBC7F5S		Date:	11/24/2015	19:33:33	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA		1.3798	25	1.0	136.0	0.00	0.02	0.20
145 · Sample ID:	QK12004-002DU	EPA Sample ID:	MBC7F5D		Date:	11/24/2015	19:35:25	Dilution:	1
146 · Sample ID:	QK12004-003	EPA Sample ID:	MBC7F6		Date:	11/24/2015	19:37:19	Dilution:	1
147 · Sample ID:	QK12004-004	EPA Sample ID:	MBC7F7		Date:	11/24/2015	19:39:10	Dilution:	1
148 · Sample ID:	QK12004-005	EPA Sample ID:	MBC7F8		Date:	11/24/2015	19:41:02	Dilution:	1
149 · Sample ID:	QK12004-006	EPA Sample ID:	MBC7F9		Date:	11/24/2015	19:42:53	Dilution:	1
150 · Sample ID:	QK12004-007	EPA Sample ID:	MBC7G0		Date:	11/24/2015	19:44:45	Dilution:	1
151 · Sample ID:	QK12004-008	EPA Sample ID:	MBC7G1		Date:	11/24/2015	19:46:38	Dilution:	1
152 · Sample ID:	CCV024	EPA Sample ID:	CCV024		Date:	11/24/2015	19:48:30	Dilution:	1
153 · Sample ID:	CCB024	EPA Sample ID:	CCB024		Date:	11/24/2015	19:50:21	Dilution:	1
154 · Sample ID:	QK12004-009	EPA Sample ID:	MBC7G2		Date:	11/24/2015	19:52:19	Dilution:	1
155 · Sample ID:	QK12004-010	EPA Sample ID:	MBC7G3		Date:	11/24/2015	19:54:12	Dilution:	1
156 · Sample ID:	QK12004-011	EPA Sample ID:	MBC7G4		Date:	11/24/2015	19:56:04	Dilution:	1
157 · Sample ID:	QK12004-012	EPA Sample ID:	MBC7G5		Date:	11/24/2015	19:57:57	Dilution:	1
158 · Sample ID:	QK12004-013	EPA Sample ID:	MBC7G6		Date:	11/24/2015	19:59:49	Dilution:	1
159 · Sample ID:	QK17017-020	EPA Sample ID:	MBC764		Date:	11/24/2015	20:01:40	Dilution:	1
160 · Sample ID:	QK03007-011	EPA Sample ID:	MJHBR3		Date:	11/24/2015	20:03:33	Dilution:	1
161 · Sample ID:	QK03007-012	EPA Sample ID:	MJHBW1		Date:	11/24/2015	20:05:25	Dilution:	1
162 · Sample ID:	QK04017-003	EPA Sample ID:	MX2173		Date:	11/24/2015	20:07:18	Dilution:	1
163 · Sample ID:	QK04017-003MS	EPA Sample ID:	MX2173S		Date:	11/24/2015	20:09:10	Dilution:	1
164 · Sample ID:	CCV25	EPA Sample ID:	CCV025		Date:	11/24/2015	20:11:08	Dilution:	1
165 · Sample ID:	CCB25	EPA Sample ID:	CCB025		Date:	11/24/2015	20:13:07	Dilution:	1
166 · Sample ID:	QK04017-003DU	EPA Sample ID:	MX2173D		Date:	11/24/2015	20:15:05	Dilution:	1
Hg	RPD IS OUT OF CRITERIA		0.0237	25		198.0	0.00	0.02	0.20
167 · Sample ID:	QK13012-001	EPA Sample ID:	MBC763		Date:	11/24/2015	20:16:57	Dilution:	1
168 · Sample ID:	QK13012-001MS	EPA Sample ID:	MBC763S		Date:	11/24/2015	20:18:49	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA		0.3942	25	1.0	34.0	0.00	0.02	0.20
169 · Sample ID:	QK13012-001DU	EPA Sample ID:	MBC763D		Date:	11/24/2015	20:20:42	Dilution:	1
170 · Sample ID:	QQ90341-001	EPA Sample ID:	QQ90341-001MB		Date:	11/24/2015	20:22:35	Dilution:	1
171 · Sample ID:	QK05011-001	EPA Sample ID:	MC0KF9		Date:	11/24/2015	20:24:27	Dilution:	1
172 · Sample ID:	QK05011-002	EPA Sample ID:	MC0KG0		Date:	11/24/2015	20:26:19	Dilution:	1

Analytical Review Report

Data File: HG4112415 ISMA1

Analyst: BNW

Hg4

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
173 Sample ID:	QK05011-003	EPA Sample ID:	MC0KG1		Date:	11/24/2015	20:28:12	Dilution:	1
174 Sample ID:	QK05011-004	EPA Sample ID:	MC0KG2		Date:	11/24/2015	20:30:04	Dilution:	1
175 Sample ID:	QK05011-005	EPA Sample ID:	MC0KG3		Date:	11/24/2015	20:31:56	Dilution:	1
176 Sample ID:	CCV26	EPA Sample ID:	CCV026		Date:	11/24/2015	20:33:49	Dilution:	1
177 Sample ID:	CCB26	EPA Sample ID:	CCB026		Date:	11/24/2015	20:35:39	Dilution:	1
178 Sample ID:	QK05011-006	EPA Sample ID:	MC0KG4		Date:	11/24/2015	20:37:37	Dilution:	1
179 Sample ID:	QK05011-007	EPA Sample ID:	MC0KJ9		Date:	11/24/2015	20:39:30	Dilution:	1
180 Sample ID:	QK05011-008	EPA Sample ID:	MC0KK0		Date:	11/24/2015	20:41:21	Dilution:	1
181 Sample ID:	QK05011-009	EPA Sample ID:	MC0KH4		Date:	11/24/2015	20:43:13	Dilution:	1
182 Sample ID:	QK05011-010	EPA Sample ID:	MC0KK1		Date:	11/24/2015	20:45:06	Dilution:	1
183 Sample ID:	QK05011-011	EPA Sample ID:	MC0KK2		Date:	11/24/2015	20:46:58	Dilution:	1
184 Sample ID:	QK05011-012	EPA Sample ID:	MC0KK5		Date:	11/24/2015	20:48:50	Dilution:	1
185 Sample ID:	QK05011-012MS	EPA Sample ID:	MC0KK5S		Date:	11/24/2015	20:50:42	Dilution:	1
186 Sample ID:	QK05011-012DU	EPA Sample ID:	MC0KK5D		Date:	11/24/2015	20:52:34	Dilution:	1
187 Sample ID:	QK05011-013	EPA Sample ID:	MC0KK6		Date:	11/24/2015	20:54:28	Dilution:	1
188 Sample ID:	CCV27	EPA Sample ID:	CCV027		Date:	11/24/2015	20:56:20	Dilution:	1
189 Sample ID:	CCB27	EPA Sample ID:	CCB027		Date:	11/24/2015	20:58:10	Dilution:	1
190 Sample ID:	QK05011-013MS	EPA Sample ID:	MC0KK6S		Date:	11/24/2015	21:00:08	Dilution:	1
191 Sample ID:	QK05011-013DU	EPA Sample ID:	MC0KK6D		Date:	11/24/2015	21:02:00	Dilution:	1
192 Sample ID:	QK05011-014	EPA Sample ID:	MC0KN0		Date:	11/24/2015	21:03:54	Dilution:	1
193 Sample ID:	QK05011-015	EPA Sample ID:	MC0KN7		Date:	11/24/2015	21:05:46	Dilution:	1
194 Sample ID:	QK05011-016	EPA Sample ID:	MC0KN8		Date:	11/24/2015	21:07:38	Dilution:	1
195 Sample ID:	QK05011-017	EPA Sample ID:	MC0KN9		Date:	11/24/2015	21:09:30	Dilution:	1
196 Sample ID:	QK05011-018	EPA Sample ID:	MC0KP1		Date:	11/24/2015	21:11:23	Dilution:	1
197 Sample ID:	QK05011-019	EPA Sample ID:	MC0KP2		Date:	11/24/2015	21:13:15	Dilution:	1
198 Sample ID:	QK05011-020	EPA Sample ID:	MC0KP3		Date:	11/24/2015	21:15:07	Dilution:	1
199 Sample ID:	QQ90340-001	EPA Sample ID:	PBW001		Date:	11/24/2015	21:17:00	Dilution:	1
200 Sample ID:	CCV28	EPA Sample ID:	CCV028		Date:	11/24/2015	21:18:53	Dilution:	1
201 Sample ID:	CCB28	EPA Sample ID:	CCB028		Date:	11/24/2015	21:20:43	Dilution:	1
202 Sample ID:	QK04017-003	EPA Sample ID:	MX2173		Date:	11/24/2015	21:22:41	Dilution:	1
203 Sample ID:	QK04017-003MS	EPA Sample ID:	MX2173S		Date:	11/24/2015	21:24:33	Dilution:	1
204 Sample ID:	QK04017-003DU	EPA Sample ID:	MX2173D		Date:	11/24/2015	21:26:33	Dilution:	1
205 Sample ID:	CCV29	EPA Sample ID:	CCV029		Date:	11/24/2015	21:28:34	Dilution:	1
206 Sample ID:	CCB29	EPA Sample ID:	CCB029		Date:	11/24/2015	21:30:31	Dilution:	1

Analytical Review Report

Data File: HG4112515ISMA

Analyst: COH

Hg4

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
207 Sample ID:	BLANK S0	EPA Sample ID:	S0		Date:	11/25/2015	17:00:42	Dilution:	1
208 Sample ID:	CAL 1 0-.2 S01	EPA Sample ID:	S01		Date:	11/25/2015	17:03:13	Dilution:	1
209 Sample ID:	CAL 2 0-.5 S02	EPA Sample ID:	S02		Date:	11/25/2015	17:05:46	Dilution:	1
210 Sample ID:	CAL 3 1-.0 S03	EPA Sample ID:	S03		Date:	11/25/2015	17:08:18	Dilution:	1
211 Sample ID:	CAL 4 5-.0 S04	EPA Sample ID:	S04		Date:	11/25/2015	17:10:50	Dilution:	1
212 Sample ID:	CAL 5 1-0.0 S05	EPA Sample ID:	S05		Date:	11/25/2015	17:13:21	Dilution:	1
213 Sample ID:	ICV3 EPA- ICV5-0508	EPA Sample ID:	ICV003		Date:	11/25/2015	17:15:52	Dilution:	1
214 Sample ID:	ICB3	EPA Sample ID:	ICB003		Date:	11/25/2015	17:18:23	Dilution:	1
215 Sample ID:	CCV30	EPA Sample ID:	CCV030		Date:	11/25/2015	17:20:53	Dilution:	1
216 Sample ID:	CCB30	EPA Sample ID:	CCB030		Date:	11/25/2015	17:23:23	Dilution:	1
217 Sample ID:	QQ90390-001	EPA Sample ID:	PBS003		Date:	11/25/2015	17:25:54	Dilution:	1
218 Sample ID:	QK04017-007	EPA Sample ID:	QK04017007 - 1		Date:	11/25/2015	17:28:25	Dilution:	1
219 Sample ID:	QK04017-007MS	EPA Sample ID:	QK04017007MS - 1		Date:	11/25/2015	17:30:56	Dilution:	1
220 Sample ID:	QK04017-007DU	EPA Sample ID:	QK04017007DU - 1		Date:	11/25/2015	17:33:27	Dilution:	1
221 Sample ID:	QK17017-001	EPA Sample ID:	MBC7B8		Date:	11/25/2015	17:35:58	Dilution:	1
222 Sample ID:	QK17017-001MS	EPA Sample ID:	MBC7B8S		Date:	11/25/2015	17:38:28	Dilution:	1
223 Sample ID:	QK17017-001DU	EPA Sample ID:	MBC7B8D		Date:	11/25/2015	17:40:59	Dilution:	1
224 Sample ID:	QK17017-002	EPA Sample ID:	MBC7D3		Date:	11/25/2015	17:43:30	Dilution:	1
225 Sample ID:	QK17017-003	EPA Sample ID:	MBC7D4		Date:	11/25/2015	17:46:01	Dilution:	1
226 Sample ID:	QK17017-004	EPA Sample ID:	MBC7H4		Date:	11/25/2015	17:48:33	Dilution:	1
227 Sample ID:	CCV31	EPA Sample ID:	CCV031		Date:	11/25/2015	17:51:05	Dilution:	1
228 Sample ID:	CCB31	EPA Sample ID:	CCB031		Date:	11/25/2015	17:53:35	Dilution:	1
229 Sample ID:	QK17017-005	EPA Sample ID:	MBC7H5		Date:	11/25/2015	17:56:06	Dilution:	1
230 Sample ID:	QK17017-006	EPA Sample ID:	MBC7H6		Date:	11/25/2015	17:58:38	Dilution:	1
231 Sample ID:	QK17017-007	EPA Sample ID:	MBC7J0		Date:	11/25/2015	18:01:10	Dilution:	1
232 Sample ID:	QK17017-008	EPA Sample ID:	MBC7B7		Date:	11/25/2015	18:03:41	Dilution:	1
233 Sample ID:	QK11054-001	EPA Sample ID:	ME6BF3		Date:	11/25/2015	18:06:12	Dilution:	1
234 Sample ID:	QK11054-002	EPA Sample ID:	ME6BF4		Date:	11/25/2015	18:08:43	Dilution:	1
235 Sample ID:	QK11054-002MS	EPA Sample ID:	ME6BF4S		Date:	11/25/2015	18:11:15	Dilution:	1
236 Sample ID:	QK11054-002DU	EPA Sample ID:	ME6BF4D		Date:	11/25/2015	18:13:45	Dilution:	1
237 Sample ID:	QK11054-003	EPA Sample ID:	ME6BF5		Date:	11/25/2015	18:16:17	Dilution:	1
238 Sample ID:	QQ90391-001	EPA Sample ID:	PBS		Date:	11/25/2015	18:18:47	Dilution:	1
239 Sample ID:	CCV32	EPA Sample ID:	CCV032		Date:	11/25/2015	18:21:19	Dilution:	1
240 Sample ID:	CCB32	EPA Sample ID:	CCB032		Date:	11/25/2015	18:23:50	Dilution:	1
241 Sample ID:	QK07014-001	EPA Sample ID:	ME6BB1		Date:	11/25/2015	18:26:20	Dilution:	1
242 Sample ID:	QK07014-002	EPA Sample ID:	ME6BB2		Date:	11/25/2015	18:28:52	Dilution:	1
243 Sample ID:	QK07014-003	EPA Sample ID:	ME6BB3		Date:	11/25/2015	18:31:23	Dilution:	1
244 Sample ID:	QK07014-004	EPA Sample ID:	ME6BB4		Date:	11/25/2015	18:33:55	Dilution:	1
245 Sample ID:	QK07014-004MS	EPA Sample ID:	ME6BB4S		Date:	11/25/2015	18:36:27	Dilution:	1
246 Sample ID:	QK07014-004DU	EPA Sample ID:	ME6BB4D		Date:	11/25/2015	18:38:58	Dilution:	1
247 Sample ID:	QK07014-005	EPA Sample ID:	ME6BB5		Date:	11/25/2015	18:41:30	Dilution:	1

Analytical Review Report

Data File: HG4112515ISMA

Analyst: COH

Hg4

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
248 · Sample ID:	QK07014-006	EPA Sample ID:	ME6BB6		Date:	11/25/2015	18:44:01	Dilution:	1
249 · Sample ID:	QK07014-007	EPA Sample ID:	ME6BB7		Date:	11/25/2015	18:46:33	Dilution:	1
250 · Sample ID:	QK07014-008	EPA Sample ID:	ME6BB8		Date:	11/25/2015	18:49:05	Dilution:	1
251 · Sample ID:	CCV33	EPA Sample ID:	CCV033		Date:	11/25/2015	18:51:37	Dilution:	1
252 · Sample ID:	CCB33	EPA Sample ID:	CCB033		Date:	11/25/2015	18:54:07	Dilution:	1
253 · Sample ID:	QK07014-009	EPA Sample ID:	ME6BB9		Date:	11/25/2015	18:56:38	Dilution:	1
254 · Sample ID:	QK07014-010	EPA Sample ID:	ME6BC0		Date:	11/25/2015	18:59:10	Dilution:	1
255 · Sample ID:	QK07014-011	EPA Sample ID:	ME6BC1		Date:	11/25/2015	19:01:42	Dilution:	1
256 · Sample ID:	QK07014-012	EPA Sample ID:	ME6BC2		Date:	11/25/2015	19:04:15	Dilution:	1
257 · Sample ID:	QK07014-013	EPA Sample ID:	ME6BC3		Date:	11/25/2015	19:06:47	Dilution:	1
258 · Sample ID:	QK07014-014	EPA Sample ID:	ME6BC4		Date:	11/25/2015	19:09:19	Dilution:	1
259 · Sample ID:	QK07014-015	EPA Sample ID:	ME6BC5		Date:	11/25/2015	19:11:51	Dilution:	1
260 · Sample ID:	QK07014-016	EPA Sample ID:	ME6BC6		Date:	11/25/2015	19:14:23	Dilution:	1
261 · Sample ID:	QK07014-017	EPA Sample ID:	ME6BC7		Date:	11/25/2015	19:16:55	Dilution:	1
262 · Sample ID:	QK07014-018	EPA Sample ID:	ME6BC8		Date:	11/25/2015	19:19:27	Dilution:	1
263 · Sample ID:	CCV34	EPA Sample ID:	CCV034		Date:	11/25/2015	19:21:59	Dilution:	1
264 · Sample ID:	CCB34	EPA Sample ID:	CCB034		Date:	11/25/2015	19:24:29	Dilution:	1
265 · Sample ID:	QK07014-019	EPA Sample ID:	ME6BC9		Date:	11/25/2015	19:27:00	Dilution:	1
266 · Sample ID:	QK07014-020	EPA Sample ID:	ME6BD0		Date:	11/25/2015	19:29:32	Dilution:	1
267 · Sample ID:	CCV35	EPA Sample ID:	CCV035		Date:	11/25/2015	19:32:05	Dilution:	1
268 · Sample ID:	CCB35	EPA Sample ID:	CCB035		Date:	11/25/2015	19:34:37	Dilution:	1

Analytical Review Report

Data File: ***HG4120515ISMA***

Analyst: ***COH***

Hg4

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
269 · Sample ID:	BLANK S0	EPA Sample ID:	S0		Date:	12/4/2015	12:10:50	Dilution:	1
270 · Sample ID:	CAL 1 0-.2 S01	EPA Sample ID:	S01		Date:	12/4/2015	12:13:20	Dilution:	1
271 · Sample ID:	CAL 2 0-.5 S02	EPA Sample ID:	S02		Date:	12/4/2015	12:15:53	Dilution:	1
272 · Sample ID:	CAL 3 1-.0 S03	EPA Sample ID:	S03		Date:	12/4/2015	12:18:25	Dilution:	1
273 · Sample ID:	CAL 4 5-.0 S04	EPA Sample ID:	S04		Date:	12/4/2015	12:20:57	Dilution:	1
274 · Sample ID:	CAL 5 1-0.0 S05	EPA Sample ID:	S05		Date:	12/4/2015	12:23:28	Dilution:	1
275 · Sample ID:	ICV4 EPA- ICV5-0508	EPA Sample ID:	ICV004		Date:	12/4/2015	12:25:59	Dilution:	1
276 · Sample ID:	ICB4	EPA Sample ID:	ICB004		Date:	12/4/2015	12:28:30	Dilution:	1
277 · Sample ID:	CCV36	EPA Sample ID:	CCV036		Date:	12/4/2015	12:31:00	Dilution:	1
278 · Sample ID:	CCB36	EPA Sample ID:	CCB036		Date:	12/4/2015	12:33:30	Dilution:	1
279 · Sample ID:	QQ91318-001	EPA Sample ID:	PBS004		Date:	12/4/2015	12:36:01	Dilution:	1
280 · Sample ID:	QK17017-012	EPA Sample ID:	MBC7C2		Date:	12/4/2015	12:38:32	Dilution:	1
281 · Sample ID:	QK17017-013	EPA Sample ID:	MBC7C3		Date:	12/4/2015	12:41:03	Dilution:	1
282 · Sample ID:	QK17017-014	EPA Sample ID:	MBC7C4		Date:	12/4/2015	12:43:34	Dilution:	1
283 · Sample ID:	QK17017-015	EPA Sample ID:	MBC7C5		Date:	12/4/2015	12:46:05	Dilution:	1
284 · Sample ID:	QK17017-016	EPA Sample ID:	MBC7C6		Date:	12/4/2015	12:48:36	Dilution:	1
285 · Sample ID:	QK17017-017	EPA Sample ID:	MBC7C7		Date:	12/4/2015	12:51:07	Dilution:	1
286 · Sample ID:	QK17017-018	EPA Sample ID:	MBC7C8		Date:	12/4/2015	12:53:39	Dilution:	1
287 · Sample ID:	QK17017-019	EPA Sample ID:	MBC7D2		Date:	12/4/2015	12:56:10	Dilution:	1
288 · Sample ID:	CCV37	EPA Sample ID:	CCV037		Date:	12/4/2015	12:58:42	Dilution:	1
289 · Sample ID:	CCB37	EPA Sample ID:	CCB037		Date:	12/4/2015	13:01:12	Dilution:	1

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/03/15 1208

Prep Batch: 90140

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Chem ID: IM6430-01)11/22/15) IM6215-01(**Balance ID:**Balance #9B15)
Hot Block ID: Hot Block #4
Filter Paper Lot Num: 50630759
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90140-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK13013-001	Sample	MBC7C9	1	ISM02.2 HG	0.5130		0.0	50	12/08/2015 1530	11/17/2015	
QK13013-001MS	MS	MBC7C9S	1	ISM02.2 HG	0.5840	15HG1512(11	3.0	50			pipette:247
QK13013-001DU	Duplicate	MBC7C9D	1	ISM02.2 HG	0.5820		0.0	50			
QK13013-002	Sample	MBC7D1	1	ISM02.2 HG	0.5310		0.0	50	12/08/2015 1540	11/17/2015	
QK13013-003	Sample	MBC7B1	1	ISM02.2 HG	0.5640		0.0	50	12/09/2015 1145	11/17/2015	
QK13013-004	Sample	MBC7B2	1	ISM02.2 HG	0.5600		0.0	50	12/09/2015 1205	11/17/2015	
QK13013-005	Sample	MBC7B3	1	ISM02.2 HG	0.5950		0.0	50	12/09/2015 1155	11/17/2015	
QK13013-006	Sample	MBC7B4	1	ISM02.2 HG	0.5460		0.0	50	12/09/2015 1230	11/17/2015	
QK13013-007	Sample	MBC7B6	1	ISM02.2 HG	0.5360		0.0	50	12/09/2015 1230	11/17/2015	
QK13013-008	Sample	MBC7H8	1	ISM02.2 HG	0.5610		0.0	50	12/09/2015 1215	11/17/2015	
QQ90140-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ90140-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	10.0	50			S05
QQ90140-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	5.0	50			S04
QQ90140-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	1.0	50			S03
QQ90140-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	0.5	50			S02
QQ90140-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	0.2	50			S01
QQ90140-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ90140-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ90140-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ90140-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	5.0	50			CCV

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Prep Batch: 90140

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Chem ID: IM6430-01)11/22/15) IM6215-01(**Balance ID:**Balance #9B15)
Hot Block ID: Hot Block #4
Filter Paper Lot Num: 50630759
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QK17017-009	Sample	MBC7B9	1	ISM02.2 HG	0.5970		0.0	50	12/12/2015 1000	11/20/2015	
QK17017-010	Sample	MBC7C0	1	ISM02.2 HG	0.5820		0.0	50	12/12/2015 1030	11/20/2015	
QK17017-011	Sample	MBC7C1	1	ISM02.2 HG	0.5610		0.0	50	12/12/2015 1050	11/20/2015	
QK17017-012	Sample	MBC7C2	1	ISM02.2 HG	0.5140		0.0	50	12/12/2015 1040	11/20/2015	
QK17017-013	Sample	MBC7C3	1	ISM02.2 HG	0.5990		0.0	50	12/12/2015 1140	11/20/2015	
QK17017-014	Sample	MBC7C4	1	ISM02.2 HG	0.5960		0.0	50	12/12/2015 1200	11/20/2015	
QK17017-015	Sample	MBC7C5	1	ISM02.2 HG	0.5520		0.0	50	12/12/2015 1150	11/20/2015	
QK17017-016	Sample	MBC7C6	1	ISM02.2 HG	0.5920		0.0	50	12/12/2015 1215	11/20/2015	
QK17017-017	Sample	MBC7C7	1	ISM02.2 HG	0.5730		0.0	50	12/12/2015 1235	11/20/2015	
QK17017-018	Sample	MBC7C8	1	ISM02.2 HG	0.5350		0.0	50	12/12/2015 1225	11/20/2015	
QK17017-019	Sample	MBC7D2	1	ISM02.2 HG	0.5980		0.0	50	12/12/2015 1600	11/20/2015	

(end of report)

Total Samples: 19

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 12/05/15 1029

Prep Batch: 90340

ISM02.2 A PREP 7470A: Mercury - Mercury Preparation for waters

Start Date: 11/23/2015 1221
End Date: 11/23/2015 1421
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: H2SO4/1:1HNO3/KMnO4/K2S2O8/NaCl-NH2OH-HCl
Reagents Vol. (mL): 2.0, 2.0, 6.0, 3.2, 2.4
Chem ID: 15-426(4/17) IM6310-01(1/9/16) IM6215-01(12/2/15) IM6310-03(12/2/15) IM621
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90340-001	MB	PBW	1	ISM02.2 HG	40		0.0	50			
QK12004-001	Sample	MBC7F4	1	ISM02.2 HG	40		0.0	50	12/06/2015 1400	11/15/2015	
QK12004-002	Sample	MBC7F5	1	ISM02.2 HG	40		0.0	50	12/06/2015 1111	11/15/2015	
QK12004-002MS	MS	MBC7F5S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274
QK12004-002DU	Duplicate	MBC7F5D	1	ISM02.2 HG	40		0.0	50			
QK12004-003	Sample	MBC7F6	1	ISM02.2 HG	40		0.0	50	12/06/2015 1130	11/15/2015	
QK12004-004	Sample	MBC7F7	1	ISM02.2 HG	40		0.0	50	12/06/2015 1145	11/15/2015	
QK12004-005	Sample	MBC7F8	1	ISM02.2 HG	40		0.0	50	12/06/2015 1200	11/15/2015	
QK12004-006	Sample	MBC7F9	1	ISM02.2 HG	40		0.0	50	12/06/2015 1212	11/15/2015	
QK12004-007	Sample	MBC7G0	1	ISM02.2 HG	40		0.0	50	12/06/2015 1237	11/15/2015	
QK12004-008	Sample	MBC7G1	1	ISM02.2 HG	40		0.0	50	12/06/2015 1415	11/15/2015	
QK12004-009	Sample	MBC7G2	1	ISM02.2 HG	40		0.0	50	12/06/2015 1425	11/15/2015	
QK12004-010	Sample	MBC7G3	1	ISM02.2 HG	40		0.0	50	12/09/2015 0835	11/15/2015	
QK12004-011	Sample	MBC7G4	1	ISM02.2 HG	40		0.0	50	12/09/2015 0900	11/15/2015	
QK12004-012	Sample	MBC7G5	1	ISM02.2 HG	40		0.0	50	12/09/2015 0915	11/15/2015	
QK12004-013	Sample	MBC7G6	1	ISM02.2 HG	40		0.0	50	12/09/2015 0920	11/15/2015	
QK03007-011	Sample	MJHBR3	1	ISM02.2 HG	40		0.0	50	11/22/2015 1700	11/16/2015	
QK03007-012	Sample	MJHBW1	1	ISM02.2 HG	40		0.0	50	11/24/2015 1500	11/16/2015	
QK04017-003	Sample	MX2173	1	ISM02.2 HG	40		0.0	50	11/29/2015 1200	11/17/2015	
QK04017-003MS	MS	MX2173S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274
QK04017-003DU	Duplicate	MX2173D	1	ISM02.2 HG	40		0.0	50			
QK13012-001	Sample	MBC763	1	ISM02.2 HG	40		0.0	50	12/08/2015 0800	11/17/2015	
QK13012-001MS	MS	MBC763S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274
QK13012-001DU	Duplicate	MBC763D	1	ISM02.2 HG	40		0.0	50			

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 12/05/15 1029

Prep Batch: 90340

ISM02.2 A PREP 7470A: Mercury - Mercury Preparation for waters

Start Date: 11/23/2015 1221
End Date: 11/23/2015 1421
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: H2SO4/1:1HNO3/KMnO4/K2S2O8/NaCl-NH2OH-HCl
Reagents Vol. (mL): 2.0, 2.0, 6.0, 3.2, 2.4
Chem ID: 15-426(4/17) IM6310-01(1/9/16) IM6215-01(12/2/15) IM6310-03(12/2/15) IM621
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90340-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	40		0.0	50			S0
QQ90340-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	40	15HG1514(11	0.0	50			S05
QQ90340-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	40	15HG1515(11	0.0	50			S04
QQ90340-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	40	15HG1516(11	0.0	50			S03
QQ90340-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	40	15HG1517(11	0.0	50			S02
QQ90340-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	40	15HG1518(11	0.0	50			S01
QQ90340-101	MB		1	ISM02.2 HG	40		0.0	50			ICB
QQ90340-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	40	15HG1519(11	0.0	50			ICV
QQ90340-201	MB		1	ISM02.2 HG	40		0.0	50			CCB
QQ90340-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	40	15HG1515(11	0.0	50			CCV
QK17017-020	Sample	MBC764	1	ISM02.2 HG	40		0.0	50	12/12/2015 1215	11/20/2015	

(end of report)

Total Samples: 18

All samples have a pH < 2

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 12/03/15 1155

Prep Batch: 90390

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/25/2015 1606
End Date: 11/25/2015 1636
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Chem ID: IM6446-01(11/27/15) IM6215-01(**Balance ID:** Balance #9B15)
Hot Block ID: Hot Block #4
Filter Paper Lot Num: 50630754
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90390-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK04017-007	Sample	MX2177	2	ISM02.2 HG	0.5900		0.0	50	11/29/2015 1200	11/17/2015	
QK04017-007MS	MS	MX2177S	2	ISM02.2 HG	0.5240	15HG1529(11	3.0	50			pipette:247
QK04017-007DU	Duplicate	MX2177D	2	ISM02.2 HG	0.5210		0.0	50			
QK17017-001	Sample	MBC7B8	1	ISM02.2 HG	0.5970		0.0	50	12/12/2015 1010	11/20/2015	
QK17017-001MS	MS	MBC7B8S	1	ISM02.2 HG	0.5990	15HG1529(11	3.0	50			pipette:247
QK17017-001DU	Duplicate	MBC7B8D	1	ISM02.2 HG	0.5400		0.0	50			
QK17017-002	Sample	MBC7D3	1	ISM02.2 HG	0.5300		0.0	50	12/12/2015 1620	11/20/2015	
QK17017-003	Sample	MBC7D4	1	ISM02.2 HG	0.5220		0.0	50	12/12/2015 1610	11/20/2015	
QK17017-004	Sample	MBC7H4	1	ISM02.2 HG	0.5310		0.0	50	12/12/2015 1630	11/20/2015	
QK17017-005	Sample	MBC7H5	1	ISM02.2 HG	0.5420		0.0	50	12/12/2015 1650	11/20/2015	
QK17017-006	Sample	MBC7H6	1	ISM02.2 HG	0.5910		0.0	50	12/12/2015 1640	11/20/2015	
QK17017-007	Sample	MBC7J0	1	ISM02.2 HG	0.5570		0.0	50	12/12/2015 0955	11/20/2015	
QK17017-008	Sample	MBC7B7	1	ISM02.2 HG	0.5090		0.0	50	12/12/2015 0950	11/20/2015	
QK11054-001	Sample	ME6BF3	1	ISM02.2 HG	0.5990		0.0	50	12/06/2015 1020	11/23/2015	
QK11054-002	Sample	ME6BF4	1	ISM02.2 HG	0.5990		0.0	50	12/06/2015 1000	11/23/2015	
QK11054-002MS	MS	ME6BF4S	1	ISM02.2 HG	0.5820	15HG1529(11	3.0	50			pipette:247
QK11054-002DU	Duplicate	ME6BF4D	1	ISM02.2 HG	0.5640		0.0	50			
QK11054-003	Sample	ME6BF5	1	ISM02.2 HG	0.5680		0.0	50	12/06/2015 0920	11/23/2015	
QQ90390-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ90390-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1529(11	10.0	50			S05
QQ90390-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1529(11	5.0	50			S04

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Prep Batch: 90390

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/25/2015 1606
End Date: 11/25/2015 1636
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Filter Paper Lot Num: 50630754
Chem ID: IM6446-01(11/27/15) IM6215-01(**Balance ID:** Balance #9B15) **Hot Block ID:** Hot Block #4
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90390-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1529(11	1.0	50			S03
QQ90390-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1529(11	0.5	50			S02
QQ90390-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1529(11	0.2	50			S01
QQ90390-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ90390-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ90390-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ90390-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1529(11	5.0	50			CCV

(end of report) **Total Samples: 12**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Prep Batch: 91318

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Printed: 12/05/15 0818

Start Date: 12/04/2015 1029
End Date: 12/04/2015 1059
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Chem ID: IM6485-01(12/6/15) IM6480-01(3 **Balance ID:** Balance #9B **Hot Block ID:** Hot Block #2 **Digestion Temperature (°C):** 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ91318-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK17017-012	Sample	MBC7C2	2	ISM02.2 HG	0.5280		0.0	50	12/12/2015 1040	11/20/2015	
QK17017-013	Sample	MBC7C3	2	ISM02.2 HG	0.5120		0.0	50	12/12/2015 1140	11/20/2015	
QK17017-014	Sample	MBC7C4	2	ISM02.2 HG	0.5800		0.0	50	12/12/2015 1200	11/20/2015	
QK17017-015	Sample	MBC7C5	2	ISM02.2 HG	0.5960		0.0	50	12/12/2015 1150	11/20/2015	
QK17017-016	Sample	MBC7C6	2	ISM02.2 HG	0.5530		0.0	50	12/12/2015 1215	11/20/2015	
QK17017-017	Sample	MBC7C7	2	ISM02.2 HG	0.5160		0.0	50	12/12/2015 1235	11/20/2015	
QK17017-018	Sample	MBC7C8	2	ISM02.2 HG	0.5650		0.0	50	12/12/2015 1225	11/20/2015	
QK17017-019	Sample	MBC7D2	2	ISM02.2 HG	0.5660		0.0	50	12/12/2015 1600	11/20/2015	
QQ91318-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ91318-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1569(12	10.0	50			S05
QQ91318-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1569(12	5.0	50			S04
QQ91318-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1569(12	1.0	50			S03
QQ91318-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1569(12	0.5	50			S02
QQ91318-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1569(12	0.2	50			S01
QQ91318-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ91318-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ91318-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ91318-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1569(12	5.0	50			CCV

(end of report) **Total Samples: 8**

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IM6366-01) (1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID	
11/17/15	KDB	15HG1220	1000	8	100	80	15HG	1501
↓	↓	15HG1500	100	2	↓	2	15HG	1502
11/18/15	KDB	15-138 (7/16)	1000 µg/mL	1	1000	1000	15HG	1503
↓	↓	15-134 (8/16)	1000 µg/mL	1	1000	1000	15HG	1504
11/18/15	KDB	15HG1503	1000	20	100	200	15HG	1505
↓	↓	↓	~~+5~~	15	↓	150	15HG	1506
↓	↓	↓	~~+0~~	10	↓	100	15HG	1507
↓	↓	↓	~~5~~	5	↓	50	15HG	1508
↓	↓	↓	+ ↓	1	↓	10	15HG	1509
↓	↓	15HG1504	1000	50	↓	500	15HG	1510
↓	↓	↓	↓	10	↓	100	15HG	1511
11/20/15	CEH	15HG1503	1000	10	100	100	15HG	1512
11/20/15	CEH	15HG1503	1000	10	100	100	15HG	1513
↓	↓	15HG1513	100	10	↓	10	15HG	1514
↓	↓	↓	↓	5	↓	5	15HG	1515
↓	↓	↓	↓	1	↓	1	15HG	1516
↓	↓	↓	↓	0.5	↓	0.5	15HG	1517
↓	↓	↓	↓	0.2	↓	0.2	15HG	1518
↓	↓	ICVS-0508	400	1	↓	4	15HG	1519
11/24/15	KDB	15HG1503	1000	10	100	100	15HG	1520

11/18/15 KD
11/18/15 KD
11/18/15 KD
11/18/15 KD

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IM6366-01) (1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID	
11/24/15	KDB	15HG1520	100	5	100	5	15HG	1521
				2		2	15HG	1522
				1		1	15HG	1523
		15HG1521	5	4		0.2	15HG	1524
				2		0.1	15HG	1525
		15HG1504	1000	10		100	15HG	1526
				8		80	15HG	1527
		15HG1526	100	2		2	15HG	1528
11/25/15	CEH	15HG1503	1000	10	100	100	15HG	1529
11/27/15	KDB	15HG1503	1000	20	100	200	15HG	1530
				15		150	15HG	1531
				10		100	15HG	1532
				5		50	15HG	1533
				1		10	15HG	1534
		15HG1504	1000	50		500	15HG	1535
				10		100	15HG	1536
11/28/15	CEH	15HG1503	1000	10	100	100	15HG	1537
		15HG1537	100	10		10	15HG	1538
				5		5	15HG	1539
				1		1	15HG	1540

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IM63066-01)(1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID		
12/2/15	CEH	15HG1503	1000	10	100	100	15HG	1561	
12/3/15	CEH	15HG1503	1000	10	100	100	15HG	1562	
↓	↓	15HG1562	100	10	↓	10	15HG	1563	
↓	↓	↓	↓	5	↓	5	15HG	1564	
↓	↓	↓	↓	1	↓	1	15HG	1565	
↓	↓	↓	↓	0.5	↓	0.5	15HG	1566	
↓	↓	↓	↓	0.2	↓	0.2	15HG	1567	
↓	↓	ICVS-0508	400	1	↓	4	15HG	1568	
12/4/15	CEH	15HG1503	1000	10	100	100	15HG	1569	
12/4/15	KDB	15HG1503	1000	10	100	100	15HG	1570	
↓	↓	15HG1570	~~100~~ 5	5	↓	5	15HG	1571	12/4/15 KDB
↓	↓	↓	~~100~~ 2	2	↓	2	15HG	1572	12/4/15 KDB
↓	↓	↓	~~100~~ 1	1	↓	1	15HG	1573	12/4/15 KDB
↓	↓	15HG1571	5	4	↓	0.2	15HG	1574	
↓	↓	↓	5	2	↓	0.1	15HG	1575	
↓	↓	15HG1504	1000	10	↓	100	15HG	1576	
↓	↓	↓	↓	8	↓	80	15HG	1577	
↓	↓	15HG1576	100	2	↓	2	15HG	1578	
							15HG	1579	
							15HG	1580	

MISCELLANEOUS

Percent Solids Determination Log (if applicable)

Shipping Documents (Airbills –Original)

Sample Tags (if applicable)

Sample Log-in sheet (lab)

Internal Chain of Custody

Other Records

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89877

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 8:49:39 AM

Start Date: 11/18/2015 0013 **End Date:** 11/18/2015 1433 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ89877-001		MB	1	4.49	4.49	0.0000	4.3848	0	0	0	0	0.000		
QK17020-001		Sample	1	4.45	12.9058	8.4558	11.5567	0	0	0	84.0452	84.0		
QK17020-002		Sample	1	4.46	14.4161	9.9561	12.2947	0	0	0	78.6924	78.7		
QK17008-001		Sample	1	4.45	13.6332	9.1832	13.5805	0	0	0	99.4261	99.4		
QK17008-002		Sample	1	4.42	13.8808	9.4608	13.8402	0	0	0	99.5708	99.6		
QK17008-003		Sample	1	4.42	12.0666	7.6466	11.8846	0	0	0	97.6198	97.6		
QK17008-004		Sample	1	4.4	12.8748	8.4748	12.5197	0	0	0	95.8099	95.8		
QK17008-005		Sample	1	4.5	11.6669	7.1669	11.4762	0	0	0	97.3391	97.3		
QK17008-005		Sample	1	4.48	13.8179	9.3379	13.2649	0	0	0	94.0778	94.1		
QK17008-007		Sample	1	4.45	10.6034	6.1534	9.3332	0	0	0	79.3577	79.4		
QK17008-008		Sample	1	4.39	12.629	8.2390	11.9862	0	0	0	92.198	92.2		
QK17008-008DU		Duplicate	1	4.45	12.6692	8.2192	12.0304	0	0	0	92.2279	92.2	0.03	
QK17008-009		Sample	1	4.5	13.6061	9.1061	12.4266	0	0	0	87.0471	87.0		
QK17008-010		Sample	1	4.41	13.4457	9.0357	13.4084	0	0	0	99.5871	99.6		
QK17008-011		Sample	1	4.49	11.799	7.3090	9.2375	0	0	0	64.9541	65.0		
QK17008-012		Sample	1	4.41	13.8722	9.4622	13.5054	0	0	0	96.1235	96.1		
QK17008-013		Sample	1	4.39	13.3966	9.0066	11.2046	0	0	0	75.6622	75.7		
QK17008-014		Sample	1	4.42	13.2889	8.8689	11.8053	0	0	0	83.2718	83.3		
QK17008-015		Sample	1	4.48	12.2485	7.7685	11.905	0	0	0	95.5782	95.6		
QK17008-016		Sample	1	4.41	13.3764	8.9664	13.042	0	0	0	96.2705	96.3		
QK17008-017		Sample	1	4.413	10.3238	5.9108	10.2007	0	0	0	97.9173	97.9		
QK17008-018		Sample	1	4.38	10.8309	6.4509	10.6588	0	0	0	97.3321	97.3		
QK17008-018DU		Duplicate	1	4.37	10.963	6.5930	10.727	0	0	0	96.4204	96.4	0.94	
QK17008-019		Sample	1	4.39	13.8788	9.4888	13.6287	0	0	0	97.3642	97.4		
QK17008-020		Sample	1	4.38	14.3741	9.9941	14.2607	0	0	0	98.8653	98.9		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89877

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 8:49:39 AM

Start Date: 11/18/2015 0013 **End Date:** 11/18/2015 1433 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK17008-022		Sample	1	4.5	13.548	9.0480	12.6486	0	0	0	90.0596	90.1		
QK17010-001		Sample	1	4.45	14.0286	9.5786	12.9463	0	0	0	88.7008	88.7		
QK17010-002		Sample	1	4.49	9.8326	5.3426	9.1715	0	0	0	87.6258	87.6		
QK17010-004		Sample	1	4.42	12.7375	8.3175	12.6732	0	0	0	99.2269	99.2		
QK17010-005		Sample	1	4.5	14.2019	9.7019	13.4133	0	0	0	91.8716	91.9		
QK17010-006		Sample	1	4.39	14.0189	9.6289	13.9912	0	0	0	99.7123	99.7		
QK17010-007		Sample	1	4.5	13.7783	9.2783	13.744	0	0	0	99.6303	99.6		
QK17010-008		Sample	1	4.46	13.9388	9.4788	13.8737	0	0	0	99.3132	99.3		
QK17010-009		Sample	1	4.38	14.0353	9.6553	13.9916	0	0	0	99.5473	99.5		
QK17010-010		Sample	1	4.39	12.8291	8.4391	12.7588	0	0	0	99.1669	99.2		
QK17010-012		Sample	1	4.36	14.2019	9.8419	13.5426	0	0	0	93.301	93.3		
QK17010-014		Sample	1	4.4	13.3213	8.9213	12.6302	0	0	0	92.2533	92.3		
QK17010-014DU		Duplicate	1	4.48	10.9312	6.4512	10.4725	0	0	0	92.8896	92.9	0.69	
QK17010-015		Sample	1	4.41	14.2815	9.8715	13.8283	0	0	0	95.409	95.4		
QK17010-016		Sample	1	4.45	10.4729	6.0229	10.363	0	0	0	98.1752	98.2		
QK17010-017		Sample	1	4.38	12.8714	8.4914	12.8345	0	0	0	99.5654	99.6		
QK17010-018		Sample	1	4.53	13.6027	9.0727	13.5717	0	0	0	99.6583	99.7		
QK17010-018DU		Duplicate	1	4.45	13.6968	9.2468	13.6663	0	0	0	99.6701	99.7	0.01	
QK17019-007		Sample	1	4.42	12.4018	7.9818	11.8878	0	0	0	93.5603	93.6		
QK17019-008		Sample	1	4.45	13.8208	9.3708	13.206	0	0	0	93.4391	93.4		
QK17019-009		Sample	1	4.5	13.9835	9.4835	13.7221	0	0	0	97.2436	97.2		
QK17019-010		Sample	1	4.46	10.4161	5.9561	9.5808	0	0	0	85.9757	86.0		
QK17019-010DU		Duplicate	1	4.51	12.4016	7.8916	11.2187	0	0	0	85.0106	85.0	1.13	
QK17019-011		Sample	1	4.46	13.2643	8.8043	12.0193	0	0	0	85.8591	85.9		
QK17019-012		Sample	1	4.45	14.2017	9.7517	13.5784	0	0	0	93.6082	93.6		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89877

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 8:49:39 AM

Start Date: 11/18/2015 0013 **End Date:** 11/18/2015 1433 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK17019-013		Sample	1	4.39	12.5702	8.1802	11.157	0	0	0	82.7241	82.7		
QK17019-014		Sample	1	4.47	9.9955	5.5255	9.067	0	0	0	83.196	83.2		
QK17019-015		Sample	1	4.36	13.5294	9.1694	13.2219	0	0	0	96.6464	96.6		
QK17019-016		Sample	1	4.44	13.9654	9.5254	13.7663	0	0	0	97.9097	97.9		
QK17019-017		Sample	1	4.4	12.8611	8.4611	11.2793	0	0	0	81.305	81.3		
QK17019-018		Sample	1	4.4	12.3165	7.9165	12.0472	0	0	0	96.5982	96.6		
QK17019-019		Sample	1	4.39	12.7755	8.3855	12.5006	0	0	0	96.7217	96.7		
QK17019-020		Sample	1	4.49	12.0401	7.5501	10.4822	0	0	0	79.3658	79.4		
QK17019-020DU		Duplicate	1	4.39	13.5166	9.1266	11.5603	0	0	0	78.5648	78.6	1.01	
QK17022-001		Sample	1	4.42	13.7912	9.3712	13.6279	0	0	0	98.2574	98.3		
QK17022-002		Sample	1	4.39	12.186	7.7960	11.903	0	0	0	96.3699	96.4		
QK17022-004		Sample	1	4.4	12.6274	8.2274	11.8545	0	0	0	90.6057	90.6		
QK14002-002		Sample	1	4.39	12.725	8.3350	11.8544	0	0	0	89.5548	89.6		
QK14002-003		Sample	1	4.42	12.8383	8.4183	11.7826	0	0	0	87.4594	87.5		
QK17017-001		Sample	1	4.43	12.792	8.3620	8.1769	0	0	0	44.8086	44.8		
QK17017-002		Sample	1	4.38	13.4004	9.0204	10.2872	0	0	0	65.4871	65.5		
QK17017-002DU		Duplicate	1	4.39	13.2613	8.8713	10.3471	0	0	0	67.1502	67.2	2.51	
QK17017-003		Sample	1	4.36	12.5531	8.1931	11.2346	0	0	0	83.9071	83.9		
QK17017-004		Sample	1	4.39	13.4415	9.0515	10.8457	0	0	0	71.3218	71.3		
QK17017-005		Sample	1	4.41	12.8579	8.4479	11.0287	0	0	0	78.3472	78.3		
QK17017-006		Sample	1	4.43	12.8297	8.3997	11.2149	0	0	0	80.7755	80.8		
QK17017-007		Sample	1	4.46	11.3521	6.8921	6.7997	0	0	0	33.9475	33.9		
QK17039-001		Sample	1	4.28	10.5114	6.2314	8.7322	0	0	0	71.4478	71.4		
QK17039-002		Sample	1	4.28	10.5114	6.2314	8.7322	0	0	0	71.4478	71.4		

Comments: same as -001

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89877

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 8:49:39 AM

Start Date: 11/18/2015 0013 **End Date:** 11/18/2015 1433 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK17062-001		Sample	1	4.49	12.777	8.2870	10.782	0	0	0	75.9261	75.9		
QK17063-001		Sample	1	4.43	12.8616	8.4316	11.1479	0	0	0	79.6752	79.7		
QK17063-002		Sample	1	4.46	13.6505	9.1905	12.3694	0	0	0	86.0606	86.1		
QK17038-001		Sample	1	4.45	13.5869	9.1369	12.8731	0	0	0	0			
QK17038-002		Sample	1	4.39	13.4367	9.0467	12.6042	0	0	0	0			
QK17038-003		Sample	1	4.4	13.6419	9.2419	11.907	0	0	0	0			
QK17038-004		Sample	1	4.46	12.6798	8.2198	10.8544	0	0	0	0			

Total Items: 81 (140 samples)

(end of report)

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 90556

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/25/2015 9:49:26 AM

Start Date: 11/18/2015 0013 **End Date:** 11/18/2015 1433 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ90556-001		MB	1	4.49	4.49	0.0000	4.3848	0	0	0	0	0.000		
QK17017-008		Sample	1	4.41	13.8437	9.4337	7.6517	0	0	0	34.3629	34.4		
QK17017-009		Sample	1	4.42	13.583	9.1630	7.3794	0	0	0	32.2972	32.3		
QK17017-010		Sample	1	4.49	13.2924	8.8024	7.7183	0	0	0	36.6752	36.7		
QK17017-011		Sample	1	4.5	13.2631	8.7631	8.3447	0	0	0	43.8737	43.9		
QK17017-011DU		Duplicate	1	4.45	13.6368	9.1868	8.4336	0	0	0	43.3622	43.4	1.17	
QK17017-012		Sample	1	4.39	12.4997	8.1097	8.0477	0	0	0	45.1027	45.1		
QK17017-013		Sample	1	4.46	12.4186	7.9586	8.5407	0	0	0	51.274	51.3		
QK17017-014		Sample	1	4.48	12.4928	8.0128	9.4093	0	0	0	61.5178	61.5		
QK17017-015		Sample	1	4.39	14.1837	9.7937	9.0724	0	0	0	47.8103	47.8		
QK17017-016		Sample	1	4.51	14.0268	9.5168	11.8315	0	0	0	76.9323	76.9		
QK17017-017		Sample	1	4.38	12.4063	8.0263	11.3855	0	0	0	87.2818	87.3		
QK17017-018		Sample	1	4.48	11.323	6.8430	8.94	0	0	0	65.176	65.2		
QK17017-019		Sample	1	4.41	12.8037	8.3937	10.7924	0	0	0	76.0379	76.0		

Total Items: 14 (12 samples)

(end of report)

Express US Airbill

Tracking Number 0400 5684 8438

From

Date 11/16/15

Sender's Name Denise Breen Phone 732 417 5800

Company Weston Solutions, Inc.

Address 205 Campus Dr. Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

Your Internal Billing Reference 20408.016.004.0269.00

To

Recipient's Name Brad Belding Phone 803 791-9700

Company Shealy Environmental Services

Address 106 Vantage Point Dr. Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City West Columbia State SC ZIP 29172

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

11-17-15

8088 5684 8438

Recipient's Copy

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight or US Airbill.

Next Business Day

- FedEx First Overnight* Earliest next business morning* delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box

6 Special Handling and Delivery Signature Options

Saturday Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M. or FedEx Express Saver.

No Signature Required Package may be left without obtaining a signature for delivery.

Direct Signature Someone at recipient's address may sign for delivery.

Does this shipment contain dangerous goods?

No Yes

Dry Ice Dry Ice, 9, UN 1845

7 Payment

Enter FedEx Acct. No. or Credit Card No. below.

Sender Acct. No. will be billed

Recipient

Third Party

Credit Card

Total Packages Total Weight Credit Card Auth.

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

Rev. Date 3/15 PRINTED IN U.S.A. SRF

ORIGIN ID:SWFA

SHIP DATE: 16NOV15
ACTWGT: 53.00 LB
CAD: /POS1623
DIMS: 24x14

BILL THIRD

UNITED STATES US

TO

SHEALY ENVIRONMENTAL
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172

(803) 791-9700

INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0200 8088 5684 8438

TUE - 17 NOV 3:00P
STANDARD OVERNIGHT
DSR
29172
SC-US CAE

XH USCA

15:00 8438 11.17 C

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name	Shealy Environmental		Page 1 of 1
Received By (Print Name)	Kelly W Page		Log-in Date 11-17-15
Received By (Signature)			
Case Number 45717	SDG No. MBC7B7		MA No. N/A

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	808856848438
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.7°C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11-17-15
12. Time Received	0920.

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC764	1.0	N/A	RK17072201	OK
2	MBC7B7	N/A		RK17072-008	
3	MBC7B8			RK17072-B01	
4	MBC7B9			-009	RL 11/24/15
5	MBC7C0			-010	
6	MBC7C1			-011	
7	MBC7C2			-012	
8	MCB7C3			-013	
9	MBC7C4			-014	
10	MBC7C5			-015	
11	MBC7C6			-016	
12	MBC7C7			-017	
13	MBC7C8			-018	
14	MBC7D2			-019	
15	MBL7D3			-002	
16	MBC7D4			-003	
17	MBC7H4			-004	
18	MBC7H5			-005	
19	MBC7H6			-006	
20	MBC7J0	↓	↓	-007	↓
21					
22					RL 11/24/15

* Contact SMO and attach record of resolution

Reviewed By	RL	Logbook No.	
Date	11/24/15	Logbook Page No.	N/A

Internal Chain-of-Custody Report

Printed: 12/05/2015 1020

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK17017-005	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK17017-002	% Solid Snaps	11/17/2015 21:16	SR (WI # 1)	INM (WI # 2)	True	EAW
QK17017-004	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK17017-007	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK17017-002	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK17017-006	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK17017-003	% Solid Snaps	11/22/2015 20:27	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-002	% Solid Snaps	11/22/2015 20:29	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-002	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK17017-004	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK17017-005	% Solid Snaps	11/22/2015 20:29	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-002	% Solid Snaps	11/22/2015 20:32	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-005	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK17017-004	% Solid Snaps	11/22/2015 20:28	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-006	% Solid Snaps	11/22/2015 20:30	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-003	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK17017-001	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK17017-007	% Solid Snaps	11/22/2015 20:28	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-001	% Solid Snaps	11/22/2015 20:30	SR (WI # 1)	INM (WI # 2)	True	DMA
QK17017-006	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK17017-007	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK17017-018	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-015	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-007	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-005	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-002	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-013	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-009	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-001	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-012	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-010	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-019	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-004	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-008	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-003	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-011	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-014	9 oz G	11/23/2015 10:41	IM Prep	INM (WI # 2)	True	COH
QK17017-016	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-017	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-006	9 oz G	11/23/2015 10:42	IM Prep	INM (WI # 2)	True	COH
QK17017-009	9 oz G	11/25/2015 14:52	SR (WI # 1)	IM Prep	True	COH
QK17017-001	9 oz G	11/25/2015 15:12	SR (WI # 1)	IM Prep	True	COH
QK17017-005	9 oz G	11/25/2015 15:12	SR (WI # 1)	IM Prep	True	COH
QK17017-006	9 oz G	11/25/2015 15:12	SR (WI # 1)	IM Prep	True	COH
QK17017-007	9 oz G	11/25/2015 15:12	SR (WI # 1)	IM Prep	True	COH
QK17017-008	9 oz G	11/25/2015 15:12	SR (WI # 1)	IM Prep	True	COH
QK17017-003	9 oz G	11/25/2015 15:12	SR (WI # 1)	IM Prep	True	COH
QK17017-004	9 oz G	11/25/2015 15:12	SR (WI # 1)	IM Prep	True	COH
QK17017-002	9 oz G	11/25/2015 15:28	SR (WI # 1)	IM Prep	True	COH
QK17017-004	9 oz G	11/28/2015 18:27	IM Prep	SR (WI # 1)	True	KDB
QK17017-001	9 oz G	11/28/2015 18:28	IM Prep	SR (WI # 1)	True	KDB
QK17017-006	9 oz G	11/28/2015 18:27	IM Prep	SR (WI # 1)	True	KDB
QK17017-007	9 oz G	11/28/2015 18:28	IM Prep	SR (WI # 1)	True	KDB

Internal Chain-of-Custody Report

Printed: 12/05/2015 1020

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK17017-005	9 oz G	11/28/2015 18:27	IM Prep	SR (WI # 1)	True	KDB
QK17017-002	9 oz G	11/28/2015 18:28	IM Prep	SR (WI # 1)	True	KDB
QK17017-009	9 oz G	11/28/2015 18:28	IM Prep	SR (WI # 1)	True	KDB
QK17017-003	9 oz G	11/28/2015 18:27	IM Prep	SR (WI # 1)	True	KDB
QK17017-008	9 oz G	11/28/2015 18:28	IM Prep	SR (WI # 1)	True	KDB
QK17017-015	9 oz G	12/04/2015 09:59	SR (WI # 1)	IM Prep	True	COH
QK17017-014	9 oz G	12/04/2015 09:59	SR (WI # 1)	IM Prep	True	COH
QK17017-018	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH
QK17017-015	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH
QK17017-017	9 oz G	12/04/2015 09:59	SR (WI # 1)	IM Prep	True	COH
QK17017-012	9 oz G	12/04/2015 10:13	SR (WI # 1)	IM Prep	True	COH
QK17017-019	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH
QK17017-017	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH
QK17017-018	9 oz G	12/04/2015 09:59	SR (WI # 1)	IM Prep	True	COH
QK17017-016	9 oz G	12/04/2015 09:59	SR (WI # 1)	IM Prep	True	COH
QK17017-014	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH
QK17017-016	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH
QK17017-013	9 oz G	12/04/2015 09:59	SR (WI # 1)	IM Prep	True	COH
QK17017-019	9 oz G	12/04/2015 10:07	SR (WI # 1)	IM Prep	True	COH
QK17017-013	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH
QK17017-012	9 oz G	12/04/2015 10:15	IM Prep	SR (WI # 1)	True	COH

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Site Assessment Team 2 (SAT) for each EPA Region. The WESTON Region 8 Start IV Contract EP-S8-13-01 Region 2 Site Assessment Team provides support to EPA Region 2.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON SAT and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, well, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples.* Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples.*

The samples which accompany this notice have been tentatively classified by the field response team as:

__X__ Environmental **_____ Hazardous** **_____ Comb. (Envir. & Haz.)** **_____ Radioactive**

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions .to provide protection against possible radiological or chemical exposure:

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON SAT are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

This form was prepared by: Denise Breen Date 11/16/15

Case No. 45717 Date 11/16/15

WESTON Office: Region 2 SAT, Edison, NJ Phone: 732-417-5800 Fax: 732-417-5801

Laboratory Name: Shealy Environmental

REFERENCE 66

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

SDG Cover Page
Traffic Report/Chain of Custody
Sample Log-In Sheet (DC-1)
CSF Inventory Sheet (DC-2)
SDG Narrative

The following analysis are included in this package, if applicable:

ICP-AES Data
ICP-MS Data
Mercury Data
Cyanide Data
Miscellaneous Data

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: N/A SDG No.: MBC7C9

SOW No.: ISM02.2

		Analysis Method			
EPA Sample No.	Lab Sample ID	ICP-AES	ICP-MS	Mercury	Cyanide
MBC7B1	QK13013-003	X		X	
MBC7B2	QK13013-004	X		X	
MBC7B3	QK13013-005	X		X	
MBC7B4	QK13013-006	X		X	
MBC7B6	QK13013-007	X		X	
MBC7C9	QK13013-001	X		X	
MBC7D1	QK13013-002	X		X	
MBC7H8	QK13013-008	X		X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	MBC7C9	Case Number	45717	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	7 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	MBC7C9	Last Sample Received in SDG	MBC7H8
First Sample Receipt Date	11/13/2015	Last Sample Receipt Date	11/14/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

	CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	MBC7B1	Sediment	ICP AES, Hg	N/A	N/A
2	MBC7B2	Sediment	ICP AES, Hg	N/A	N/A
3	MBC7B3	Sediment	ICP AES, Hg	N/A	N/A
4	MBC7B4	Sediment	ICP AES, Hg	N/A	N/A
5	MBC7B6	Sediment	ICP AES, Hg	N/A	N/A
6	MBC7C9	Sediment	ICP AES, Hg	N/A	N/A
7	MBC7D1	Sediment	ICP AES, Hg	N/A	N/A
8	MBC7H8	Sediment	ICP AES, Hg	N/A	N/A
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

11/16/15

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature _____ Date 11/16/15

MBC769

MBC763

US EPA CLP COC (LAB COPY)

Date Shipped: 11/12/2015
Carrier Name: FedEx
Airbill No: 8044 6775 2093

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111215-171101-0016

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED11-0-6	MBC7A5	Sediment/ Region 2 SAT	Grab	TAL(7)	1282 (4 C) (1)	0269-SED11	11/12/2015 15:00	
0269-SED11-12-24	MBC7A6	Sediment/ Region 2 SAT	Grab	TAL(7)	1290 (4 C) (1)	0269-SED11	11/12/2015 15:20	
0269-SED11-6-12	MBC7A7	Sediment/ Region 2 SAT	Grab	TAL(7)	1286 (4 C) (1)	0269-SED11	11/12/2015 15:10	
0269-SED12-0-6	MBC7A8	Sediment/ Region 2 SAT	Grab	TAL(7)	1294 (4 C) (1)	0269-SED12	11/12/2015 16:00	
0269-SED12-12-24	MBC7A9	Sediment/ Region 2 SAT	Grab	TAL(7)	1302 (4 C) (1)	0269-SED12	11/12/2015 16:20	
0269-SED12-6-12	MBC7B0	Sediment/ Region 2 SAT	Grab	TAL(7)	1298 (4 C) (1)	0269-SED12	11/12/2015 16:10	
0269-SED19-0-6	MBC7C9	Sediment/ Region 2 SAT	Grab	TAL(7)	1378 (4 C) (2)	0269-SED19	11/12/2015 15:30	
0269-SED19-12-24	MBC7D0	Sediment/ Region 2 SAT	Grab	TAL(7)	1386 (4 C) (1)	0269-SED19	11/12/2015 15:50	
0269-SED19-6-12	MBC7D1	Sediment/ Region 2 SAT	Grab	TAL(7)	1382 (4 C) (1)	0269-SED19	11/12/2015 15:40	

Sample(s) to be used for Lab QC: 0269-SED19-0-6 Tag 1378 - Special Instructions: MS/MSD: 0269-SED19-0-6 CLP No.: MBC7C9

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TAL=TAL Inorganics (incl. Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green/WESTON	11/12/15 1800	FEDEX	11/12/15 1800	
				11/13/15 0916	ok

T=3.7

MBC7C9, MBC7F4

USEPA CLP COC (LAB COPY)
Date Shipped: 11/13/2015
Carrier Name: FedEx
Airbill No: 8044 6775 2027

CHAIN OF CUSTODY RECORD

Case #: 45717

EPW14035

No: 2-111315-131828-0021
Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED13-0-6	MBC7B1	Sediment/ Region 2 SAT	Grab	TAL(7)	1306 (4 C) (1)	0269-SED13	11/13/2015 11:45	
0269-SED13-12-24	MBC7B2	Sediment/ Region 2 SAT	Grab	TAL(7)	1314 (4 C) (1)	0269-SED13	11/13/2015 12:05	
0269-SED13-6-12	MBC7B3	Sediment/ Region 2 SAT	Grab	TAL(7)	1310 (4 C) (1)	0269-SED13	11/13/2015 11:55	
0269-SED14-0-6	MBC7B4	Sediment/ Region 2 SAT	Grab	TAL(7)	1318 (4 C) (1)	0269-SED14	11/13/2015 12:20	
0269-SED14-6-12	MBC7B6	Sediment/ Region 2 SAT	Grab	TAL(7)	1322 (4 C) (1)	0269-SED14	11/13/2015 12:30	
0269-SW09	MBC7G3	Surface Water/ Region 2 SAT	Grab	TAL(7)	1142 (HNO3 to pH<2) (1)	0269-SW09	11/13/2015 08:35	
0269-SW10	MBC7G4	Surface Water/ Region 2 SAT	Grab	TAL(7)	1145 (HNO3 to pH<2) (1)	0269-SW10	11/13/2015 09:00	
0269-SW11	MBC7G5	Surface Water/ Region 2 SAT	Grab	TAL(7)	1148 (HNO3 to pH<2) (1)	0269-SW11	11/13/2015 09:15	
0269-SW12	MBC7G6	Surface Water/ Region 2 SAT	Grab	TAL(7)	1151 (HNO3 to pH<2) (1)	0269-SW11	11/13/2015 09:20	
0269-SED22-12-24	MBC7H8	Sediment/ Region 2 SAT	Grab	TAL(7)	1454 (4 C) (1)	0269-SED13	11/13/2015 12:15	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Breen / WESTON	11/13/15 1530	FEDEX	11/13/15 1530	
	COPY ORIGINAL DOCUMENTS INCLUDED IN CSF	45717 MBC7F4			
	Signature 11/16/15 Date		Lacey Goulding	11/14/15 0845	OK

T= 1.6°C

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 11/13/15
Received By (Signature) [signature]		
Case Number 45717	SDG No. MBC763, MBC7C9	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	80446775 2093
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	3.7
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0916

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7A5			QK13012 -014	OK
2	MBC7A6			-015	
3	MBC7A7			-016	
4	MBC7A8			-017	
5	MBC7A9			-018	
6	MBC7B0		mcm 11/13/15	-019	
7	MBC7C9 ~~MBC7C9~~		QK13013 -001	~~QK13012 -020~~ mcm 11/13/15	
8	MBCD0			QK13012 -020	
9	MBCD1			QK13013 -002	
10					
11					
12					
13					
14					
15			mcm 11/13/15		
16					
17					
18					
19					
20					
21					
22					

* Contact SMO and attach record of resolution

Reviewed By	RB	Logbook No.	NA
Date	11/16/15	Logbook Page No.	

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name: Shealy Environmental		Page 1 of 1
Received By (Print Name): Lacey Goulding		Log-in Date: 11/14/15
Received By (Signature): Lacey Goulding		
Case Number: 45717	SDG No.: MBC7C9, MBC7F4	MA No.:

Remarks:	
1. Custody Seal(s)	(Present)/Absent* (Intact)/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	(Present)/Absent*
4. Airbill	(Airbill)/Sticker (Present)/Absent*
5. Airbill No.	8044 6775 2027
6. Sample Tags Sample Tag Numbers	Present/(Absent)* (Listed)/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	(Intact)/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	(Present)/Absent*
9. Shipping Container Temperature	1.6 °C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	(Yes)/No*
11. Date Received at Lab	11/14/15
12. Time Received	0845

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7B1	NA	NA	QK13013-003	OK
2	MBC7B2			-004	
3	MBC7B3			-005	
4	MBC7B4			-006	
5	MBC7B6			-007	
6	MBC7G3	1.5		QK12004-010	
7	MBC7G4			-011	
8	MBC7G5			-012	
9	MBC7G6			-013	
10	MBC7H8	NA		QK13013-008	
11					
12					
13				11/14/15	
14				JDJ	
15					
16					
17					
18					
19				COPY ORIGINAL DOCUMENTS INCLUDED IN CSF	45717 MBC7F4
20					
21				11/16/15	
22					

* Contact SMO and attach record of resolution

Reviewed By: MMN	Logbook No.: MK
Date: 11/16/15	Logbook Page No.: 100

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME Shealy Environmental Services, Inc.

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45717 SDG NO. MBC7C9

MA NO. M/A

SOW NO. ISM02.2

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	SDG Cover Page	1	4		
2.	Traffic Report/Chain of Custody Record(s)	5	6		
3.	Sample Log-In Sheet (DC-1)	7	8		
4.	CSF Inventory Sheet (DC-2)	9	12		
5.	SDG Narrative	13	15		
Inorganic Analysis					
ICP-AES					
6.	Inorganic Analysis Data Sheet (Form 1-IN)	16	26	X	
7.	Initial and Continuing Calibration Verification (Form 2-IN)	27	31	X	
8.	Blanks (Form 3-IN)	32	34	X	
9.	ICP Interference Check Sample (Form 4-IN)	35	36	X	
10.	Matrix Spike Sample Recovery (Form 5A-IN)	37	37	X	
11.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	38	38	X	
12.	Duplicates (Form 6-IN)	39	39	X	
13.	Laboratory Control Sample (Form 7-IN)	40	40	X	
14.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	41	41	X	
15.	Method Detection Limit (Form 9-IN)	42	43	X	
16.	ICP-AES Interelement Correction Factors (Form 10A-IN)	44	44	X	
17.	ICP-AES Interelement Correction Factors (Form 10B-IN)	45	48	X	
18.	Analysis Log (Form 12-IN)	49	53	X	
19.	Initial Calibration (Form 15-IN)	54	61	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs.		CHECK	
	FROM	TO	LAB	REGION
20. Initial Calibration Summary (Form 16-IN)	62	63	X	
21. ICP-AES Raw Data	64	537	X	
22. ICP-AES Preparation Log Books, Preparation records, Analysis records, and PE Instructions	538	560	X	
ICP-MS				
23. Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
24. Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
25. Blanks (Form 3-IN)	N/A	N/A	X	
26. ICP Interference Check Sample (Form 4-IN)	N/A	N/A	X	
27. Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
28. Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
29. Duplicates (Form 6-IN)	N/A	N/A	X	
30. Laboratory Control Sample (Form 7-IN)	N/A	N/A	X	
31. ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	N/A	N/A	X	
32. Method Detection Limit (Form 9-IN)	N/A	N/A	X	
33. ICP-MS Internal Standard Association (Form 11-IN)	N/A	N/A	X	
34. Analysis Log (Form 12-IN)	N/A	N/A	X	
35. ICP-MS Tune (Form 13-IN)	N/A	N/A	X	
36. ICP-MS Internal Standards Relative Intensity Summary (Form 14-IN)	N/A	N/A	X	
37. Initial Calibration (Form 15-IN)	N/A	N/A	X	
38. Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
39. ICP-MS Raw Data	N/A	N/A	X	
40. ICP-MS Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Mercury	N/A	N/A	X	
41. Inorganic Analysis Data Sheet (Form 1-IN)	561	571	X	
42. Initial and Continuing Calibration Verification (Form 2-IN)	572	577	X	
43. Blanks (Form 3-IN)	578	580	X	
44. Matrix Spike Sample Recovery (Form 5A-IN)	581	581	X	
45. Duplicates (Form 6-IN)	582	582	X	
46. Method Detection Limit (Form 9-IN)	583	586	X	
47. Analysis Log (Form 12-IN)	585	587	X	
48. Initial Calibration (Form 15-IN)	588	589	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

49.	Initial Calibration Summary (Form 16-IN)	590	590	X	
50.	Mercury Raw Data	591	599	X	
51.	Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions	600	606	X	
Cyanide		N/A	N/A	X	
52.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
53.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
54.	Blanks (Form 3-IN)	N/A	N/A	X	
55.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
56.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
57.	Duplicates (Form 6-IN)	N/A	N/A	X	
58.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
59.	Analysis Log (Form 12-IN)	N/A	N/A	X	
60.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
61.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
62.	Cyanide Raw Data	N/A	N/A	X	
63.	Cyanide Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Additional		607	621	X	
64.	Percent Solids Determination Log	608	614	X	
65.	EPA Shipping/Receiving Documents	615	N/A		
	Airbill (No. of Shipments 2)	615	616	X	
	Sample Tags	N/A	N/A		
	Sample Log-In Sheet (Lab)	617	618	X	
66.	Misc. Shipping/Receiving Records (list all individual records) Communication Logs	N/A	N/A		
67.	Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	619	621	X	
68.	Other Records (describe or list)				
	Communication Logs	N/A	N/A		

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

69. Comments:

Completed by:
(CLP Lab) Robert Zhu, Technical Director 11/30/2015
(Signature) (Print Name & Title) (Date)

Audited by:
(EPA)
(Signature) (Print Name & Title) (Date)

Narrative

Shealy Environmental Services, Inc.

SDG Narrative
Date: 11/30/2015
Case 45717
SDG MBC7C9
SOW ISM02.2
Contract Number: EPW14035

ICP-AES Thermo Sci ICAP 7600 Software: iTEVA Version: 2.8.0.96 Operating System:Windows XP Professional Version: 5.1.2600 **MERCURY** Leeman Labs Hydra II Software: Envoy 2.0 Version: 6.1 Operating System: Windows 7 Professional	Water sample: Final concentration (ug/L) = C * DF Soil sample: Final concentration (mg/Kg) = $\frac{C * V * DF}{W * S}$ Where, C = the instrument readout in ug/L V = final sample volume in liter W = the wet sample weight (g) S = %solids/100 DF = Dilution Factor

Sample Receiving

The eight (8) soil samples in this SDG were received in sealed shipping containers on November 13 and 14, 2015 with temperatures of 3.7˚C and 1.6˚C.

Target Analyte

Mercury is also required for this SDG. The target analytes for ICP-AES are listed below:

Target Analytes	ICP-AES
Aluminum	Yes
Antimony	Yes
Arsenic	Yes
Barium	Yes
Beryllium	Yes
Cadmium	Yes
Calcium	Yes
Chromium	Yes
Cobalt	Yes
Copper	Yes
Iron	Yes
Lead	Yes
Magnesium	Yes
Manganese	Yes
Nickel	Yes
Potassium	Yes
Selenium	Yes
Silver	Yes

Sodium	Yes
Thallium	Yes
Vanadium	Yes
Zinc	Yes

ICP-AES

IEC factors and background corrections were applied during the ICP-AES analyses. Raw data was not generated prior to the application of the background corrections.

Mercury

ICP-AES Metals

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
ICP Interference Check Sample (Form 4-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Post Digestion/Distillation Spike Sample Recovery (Form 5B-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)
Method Detection Limit (Form 9-IN)
ICP-AES Interelement Correction Factors (Form 10A-IN)
ICP-AES Interelement Correction Factors (Form 10B-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
ICP-AES Raw Data
ICP-AES Preparation Log Books, Preparation Records, Analysis Records

ICP-AES
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC7C9

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method: ICP-AES	ICP-MS	Mercury	Cyanide
MBC7B1	QK13013-003	X			
MBC7B2	QK13013-004	X			
MBC7B3	QK13013-005	X			
MBC7B4	QK13013-006	X			
MBC7B6	QK13013-007	X			
MBC7C9	QK13013-001	X			
MBC7C9D	QK13013-001DU	X			
MBC7C9S	QK13013-001MS	X			
MBC7D1	QK13013-002	X			
MBC7H8	QK13013-008	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Zhu Name: Robert Zhu

Date: 11/30/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-003

% Solids: 81.1 Date Received: 11/14/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12800		11/21/2015	20:15:34
7440-36-0	Antimony	12.4	U*D	11/21/2015	22:56:24
7440-38-2	Arsenic	4.7	D	11/21/2015	22:56:24
7440-39-3	Barium	45.6	*	11/21/2015	20:15:34
7440-41-7	Beryllium	0.55		11/21/2015	20:15:34
7440-43-9	Cadmium	0.10	J*D	11/21/2015	22:56:24
7440-70-2	Calcium	14500	*	11/21/2015	20:15:34
7440-47-3	Chromium	15.3	D	11/21/2015	22:56:24
7440-48-4	Cobalt	9.0		11/21/2015	20:15:34
7440-50-8	Copper	24.4	*D	11/21/2015	22:56:24
7439-89-6	Iron	27800	D	11/21/2015	22:56:24
7439-92-1	Lead	16.7	*D	11/21/2015	22:56:24
7439-95-4	Magnesium	9030	*	11/21/2015	20:15:34
7439-96-5	Manganese	1190	*D	11/21/2015	22:56:24
7440-02-0	Nickel	23.5	D	11/21/2015	22:56:24
7440-09-7	Potassium	1090		11/21/2015	20:15:34
7782-49-2	Selenium	0.78	J	11/21/2015	20:15:34
7440-22-4	Silver	1.0	U	11/21/2015	20:15:34
7440-23-5	Sodium	64.3	J*	11/21/2015	20:15:34
7440-28-0	Thallium	1.4	J	11/21/2015	20:15:34
7440-62-2	Vanadium	16.9		11/21/2015	20:15:34
7440-66-6	Zinc	77.3	*	11/21/2015	20:15:34

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-004

% Solids: 82.5 Date Received: 11/14/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11200		11/21/2015	20:20:26
7440-36-0	Antimony	25.3	U*D	11/21/2015	23:01:18
7440-38-2	Arsenic	3.9		11/21/2015	20:20:26
7440-39-3	Barium	31.5	*	11/21/2015	20:20:26
7440-41-7	Beryllium	0.43		11/21/2015	20:20:26
7440-43-9	Cadmium	2.1	U*D	11/21/2015	23:01:18
7440-70-2	Calcium	16900	*	11/21/2015	20:20:26
7440-47-3	Chromium	12.8		11/21/2015	20:20:26
7440-48-4	Cobalt	6.6		11/21/2015	20:20:26
7440-50-8	Copper	22.4	*D	11/21/2015	23:01:18
7439-89-6	Iron	25900	D	11/21/2015	23:01:18
7439-92-1	Lead	13.6	*D	11/21/2015	23:01:18
7439-95-4	Magnesium	9140	*	11/21/2015	20:20:26
7439-96-5	Manganese	605	*	11/21/2015	20:20:26
7440-02-0	Nickel	20.9	D	11/21/2015	23:01:18
7440-09-7	Potassium	843		11/21/2015	20:20:26
7782-49-2	Selenium	3.0	U	11/21/2015	20:20:26
7440-22-4	Silver	0.84	U	11/21/2015	20:20:26
7440-23-5	Sodium	55.2	J*	11/21/2015	20:20:26
7440-28-0	Thallium	0.77	J	11/21/2015	20:20:26
7440-62-2	Vanadium	14.8		11/21/2015	20:20:26
7440-66-6	Zinc	68.4	*	11/21/2015	20:20:26

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-005

% Solids: 81.9 Date Received: 11/14/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11600		11/21/2015	20:35:25
7440-36-0	Antimony	25.4	U*D	11/21/2015	23:06:06
7440-38-2	Arsenic	4.9		11/21/2015	20:35:25
7440-39-3	Barium	33.5	*	11/21/2015	20:35:25
7440-41-7	Beryllium	0.49		11/21/2015	20:35:25
7440-43-9	Cadmium	2.1	U*D	11/21/2015	23:06:06
7440-70-2	Calcium	14500	*	11/21/2015	20:35:25
7440-47-3	Chromium	13.8		11/21/2015	20:35:25
7440-48-4	Cobalt	7.5		11/21/2015	20:35:25
7440-50-8	Copper	23.5	*D	11/21/2015	23:06:06
7439-89-6	Iron	26600	D	11/21/2015	23:06:06
7439-92-1	Lead	17.6	*D	11/21/2015	23:06:06
7439-95-4	Magnesium	9440	*	11/21/2015	20:35:25
7439-96-5	Manganese	547	*	11/21/2015	20:35:25
7440-02-0	Nickel	21.9	D	11/21/2015	23:06:06
7440-09-7	Potassium	1080		11/21/2015	20:35:25
7782-49-2	Selenium	3.0	U	11/21/2015	20:35:25
7440-22-4	Silver	0.85	U	11/21/2015	20:35:25
7440-23-5	Sodium	59.3	J*	11/21/2015	20:35:25
7440-28-0	Thallium	0.53	J	11/21/2015	20:35:25
7440-62-2	Vanadium	15.0		11/21/2015	20:35:25
7440-66-6	Zinc	76.0	*	11/21/2015	20:35:25

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-006

% Solids: 78.3 Date Received: 11/14/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11800		11/21/2015	20:40:15
7440-36-0	Antimony	1.8	J*D	11/21/2015	23:10:52
7440-38-2	Arsenic	7.8		11/21/2015	20:40:15
7440-39-3	Barium	45.6	*	11/21/2015	20:40:15
7440-41-7	Beryllium	0.42	J	11/21/2015	20:40:15
7440-43-9	Cadmium	0.67	J*D	11/21/2015	23:10:52
7440-70-2	Calcium	2010	*	11/21/2015	20:40:15
7440-47-3	Chromium	29.7		11/21/2015	20:40:15
7440-48-4	Cobalt	7.2		11/21/2015	20:40:15
7440-50-8	Copper	239	*D	11/21/2015	23:10:52
7439-89-6	Iron	38000	D	11/21/2015	23:10:52
7439-92-1	Lead	85.5	*D	11/21/2015	23:10:52
7439-95-4	Magnesium	6400	*	11/21/2015	20:40:15
7439-96-5	Manganese	247	*	11/21/2015	20:40:15
7440-02-0	Nickel	23.4	D	11/21/2015	23:10:52
7440-09-7	Potassium	1060		11/21/2015	20:40:15
7782-49-2	Selenium	0.76	J	11/21/2015	20:40:15
7440-22-4	Silver	1.0	U	11/21/2015	20:40:15
7440-23-5	Sodium	68.9	J*	11/21/2015	20:40:15
7440-28-0	Thallium	0.39	J	11/21/2015	20:40:15
7440-62-2	Vanadium	17.1		11/21/2015	20:40:15
7440-66-6	Zinc	203	*	11/21/2015	20:40:15

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-007

% Solids: 73.6 Date Received: 11/14/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12400		11/21/2015	20:45:06
7440-36-0	Antimony	1.9	J*D	11/21/2015	23:15:38
7440-38-2	Arsenic	8.2		11/21/2015	20:45:06
7440-39-3	Barium	49.8	*	11/21/2015	20:45:06
7440-41-7	Beryllium	0.52		11/21/2015	20:45:06
7440-43-9	Cadmium	1.2	J*D	11/21/2015	23:15:38
7440-70-2	Calcium	8630	*	11/21/2015	20:45:06
7440-47-3	Chromium	46.5		11/21/2015	20:45:06
7440-48-4	Cobalt	9.4		11/21/2015	20:45:06
7440-50-8	Copper	83.6	*D	11/21/2015	23:15:38
7439-89-6	Iron	29800	D	11/21/2015	23:15:38
7439-92-1	Lead	139	*D	11/21/2015	23:15:38
7439-95-4	Magnesium	8950	*	11/21/2015	20:45:06
7439-96-5	Manganese	301	*	11/21/2015	20:45:06
7440-02-0	Nickel	24.4	D	11/21/2015	23:15:38
7440-09-7	Potassium	1130		11/21/2015	20:45:06
7782-49-2	Selenium	0.60	J	11/21/2015	20:45:06
7440-22-4	Silver	0.96	U	11/21/2015	20:45:06
7440-23-5	Sodium	89.3	J*	11/21/2015	20:45:06
7440-28-0	Thallium	0.51	J	11/21/2015	20:45:06
7440-62-2	Vanadium	17.1		11/21/2015	20:45:06
7440-66-6	Zinc	292	*	11/21/2015	20:45:06

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-001

% Solids: 80.8 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11900		11/21/2015	19:46:27
7440-36-0	Antimony	28.5	U*D	11/22/2015	14:48:50
7440-38-2	Arsenic	5.9		11/21/2015	19:46:27
7440-39-3	Barium	86.6	*	11/21/2015	19:46:27
7440-41-7	Beryllium	0.43	J	11/21/2015	19:46:27
7440-43-9	Cadmium	0.72	J*D	11/22/2015	14:48:50
7440-70-2	Calcium	3330	*	11/21/2015	19:46:27
7440-47-3	Chromium	22.4		11/21/2015	19:46:27
7440-48-4	Cobalt	8.3		11/21/2015	19:46:27
7440-50-8	Copper	73.0	*D	11/22/2015	14:48:50
7439-89-6	Iron	32800	D	11/22/2015	14:48:50
7439-92-1	Lead	86.1	*D	11/22/2015	14:48:50
7439-95-4	Magnesium	7320	*	11/21/2015	19:46:27
7439-96-5	Manganese	341	*	11/21/2015	19:46:27
7440-02-0	Nickel	22.4	D	11/22/2015	14:48:50
7440-09-7	Potassium	1010		11/21/2015	19:46:27
7782-49-2	Selenium	4.2	U	11/21/2015	19:46:27
7440-22-4	Silver	1.2	U	11/21/2015	19:46:27
7440-23-5	Sodium	71.1	J*	11/21/2015	19:46:27
7440-28-0	Thallium	0.55	J	11/21/2015	19:46:27
7440-62-2	Vanadium	15.9		11/21/2015	19:46:27
7440-66-6	Zinc	258	*	11/21/2015	19:46:27

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-002

% Solids: 85.9 Date Received: 11/13/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12000		11/21/2015	20:10:42
7440-36-0	Antimony	1.5	J*D	11/21/2015	22:51:35
7440-38-2	Arsenic	6.1		11/21/2015	20:10:42
7440-39-3	Barium	39.0	*	11/21/2015	20:10:42
7440-41-7	Beryllium	0.49	J	11/21/2015	20:10:42
7440-43-9	Cadmium	1.2	*D	11/21/2015	22:51:35
7440-70-2	Calcium	11200	*	11/21/2015	20:10:42
7440-47-3	Chromium	35.0		11/21/2015	20:10:42
7440-48-4	Cobalt	9.7		11/21/2015	20:10:42
7440-50-8	Copper	66.6	*D	11/21/2015	22:51:35
7439-89-6	Iron	31300	D	11/21/2015	22:51:35
7439-92-1	Lead	112	*D	11/21/2015	22:51:35
7439-95-4	Magnesium	8280	*	11/21/2015	20:10:42
7439-96-5	Manganese	316	*	11/21/2015	20:10:42
7440-02-0	Nickel	24.7	D	11/21/2015	22:51:35
7440-09-7	Potassium	1260		11/21/2015	20:10:42
7782-49-2	Selenium	3.9	U	11/21/2015	20:10:42
7440-22-4	Silver	1.1	U	11/21/2015	20:10:42
7440-23-5	Sodium	63.8	J*	11/21/2015	20:10:42
7440-28-0	Thallium	0.45	J	11/21/2015	20:10:42
7440-62-2	Vanadium	14.6		11/21/2015	20:10:42
7440-66-6	Zinc	254	*	11/21/2015	20:10:42

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-008

% Solids: 81.8 Date Received: 11/14/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12600		11/21/2015	20:49:57
7440-36-0	Antimony	12.2	U*D	11/21/2015	23:20:25
7440-38-2	Arsenic	4.5		11/21/2015	20:49:57
7440-39-3	Barium	42.1	*	11/21/2015	20:49:57
7440-41-7	Beryllium	0.54		11/21/2015	20:49:57
7440-43-9	Cadmium	1.0	U*D	11/21/2015	23:20:25
7440-70-2	Calcium	16900	*	11/21/2015	20:49:57
7440-47-3	Chromium	15.1		11/21/2015	20:49:57
7440-48-4	Cobalt	7.6		11/21/2015	20:49:57
7440-50-8	Copper	23.4	*D	11/21/2015	23:20:25
7439-89-6	Iron	27500	D	11/21/2015	23:20:25
7439-92-1	Lead	14.6	*D	11/21/2015	23:20:25
7439-95-4	Magnesium	8590	*	11/21/2015	20:49:57
7439-96-5	Manganese	633	*	11/21/2015	20:49:57
7440-02-0	Nickel	22.6	D	11/21/2015	23:20:25
7440-09-7	Potassium	1370		11/21/2015	20:49:57
7782-49-2	Selenium	0.69	J	11/21/2015	20:49:57
7440-22-4	Silver	1.0	U	11/21/2015	20:49:57
7440-23-5	Sodium	60.6	J*	11/21/2015	20:49:57
7440-28-0	Thallium	0.57	J	11/21/2015	20:49:57
7440-62-2	Vanadium	16.0		11/21/2015	20:49:57
7440-66-6	Zinc	74.1	*	11/21/2015	20:49:57

NOTE: Hardness (total) is reported in mg/L

Comments:

ICP-AES
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2740	109	1	50000	51900	104	0	50700	101	0
Antimony	994	980	99	0	2500	2450	98	0	2450	98	0
Arsenic	999	1000	100	0	2500	2500	100	0	2490	100	0
Barium	497	511	103	0	10000	9980	100	3	10000	100	4
Beryllium	495	499	101	1	1000	1050	105	3	1010	101	1
Cadmium	496	480	97	0	1000	987	99	0	983	98	0
Calcium	10000	10800	108	0	50000	52300	105	0	51600	103	0
Chromium	490	504	103	2	10000	10300	103	3	9990	100	1
Cobalt	499	484	97	0	5000	4820	96	0	4810	96	0
Copper	492	488	99	1	12500	12200	98	3	11900	95	2
Iron	5080	5350	105	0	25000	26000	104	0	25500	102	0
Lead	1000	937	94	1	10000	9450	95	0	9400	94	0
Magnesium	6070	6440	106	0	50000	52400	105	0	51400	103	0
Manganese	499	517	104	1	5000	5040	101	2	4910	98	2
Nickel	503	488	97	0	5000	4800	96	0	4770	95	0
Potassium	10000	10600	106	0	37500	38700	103	0	38300	102	1
Selenium	1030	987	96	0	1250	1240	99	0	1240	99	0
Silver	501	502	100	1	750	759	101	3	739	99	1
Sodium	10100	11000	109	0	25000	26500	106	0	26400	106	0
Thallium	1030	989	96	1	1000	934	93	0	925	93	0
Vanadium	501	504	101	1	2500	2550	102	3	2480	99	1
Zinc	1030	1000	98	0	5000	4970	99	0	4950	99	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	51000	102	0	51900	104	0
Antimony					2500	2440	98	0	2500	100	0
Arsenic					2500	2480	99	0	2560	102	0
Barium					10000	9920	99	1	10500	105	3
Beryllium					1000	1050	105	1	1050	105	2
Cadmium					1000	980	98	0	993	99	0
Calcium					50000	52000	104	0	52600	105	0
Chromium					10000	10200	102	2	9970	100	3
Cobalt					5000	4790	96	0	4870	97	0
Copper					12500	12200	98	1	12200	98	2
Iron					25000	25500	102	1	25500	102	0
Lead					10000	9350	94	0	9540	95	0
Magnesium					50000	51200	102	1	50900	102	0
Manganese					5000	5030	101	2	5040	101	2
Nickel					5000	4770	95	0	4910	98	0
Potassium					37500	39400	105	1	41000	109	0
Selenium					1250	1240	99	0	1280	102	0
Silver					750	754	101	2	735	98	3
Sodium					25000	26900	108	1	27300	109	0
Thallium					1000	920	92	0	929	93	0
Vanadium					2500	2540	102	2	2520	101	3
Zinc					5000	4910	98	0	5030	101	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID: CCV ISM-538		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	50500	101	1	52800	106	2
Antimony					2500	2420	97	0	2530	101	0
Arsenic					2500	2480	99	0	2570	103	0
Barium					10000	10200	102	2	10700	107	2
Beryllium					1000	1040	104	2	1090	109	2
Cadmium					1000	960	96	0	1010	101	0
Calcium					50000	51200	102	1	53700	107	2
Chromium					10000	9900	99	2	10200	102	1
Cobalt					5000	4720	94	0	4910	98	0
Copper					12500	12400	99	1	12900	103	2
Iron					25000	24600	98	1	25700	103	2
Lead					10000	9250	93	0	9600	96	0
Magnesium					50000	49000	98	1	51400	103	2
Manganese					5000	4990	100	1	5150	103	2
Nickel					5000	4770	95	0	4950	99	0
Potassium					37500	40700	109	0			
Selenium					1250	1240	99	0	1290	103	1
Silver					750	730	97	2	761	101	2
Sodium					25000	26800	107	0			
Thallium					1000	900	90	0	935	94	0
Vanadium					2500	2510	100	2	2600	104	2
Zinc					5000	4860	97	0	5010	100	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112215B ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV002				ID: CCV007				ID: CCV008		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2730	108	3	50000	52500	105	0	51700	103	0
Antimony	994	968	97	0	2500	2470	99	0	2420	97	0
Arsenic	999	989	99	0	2500	2520	101	0	2460	98	0
Barium	497	516	104	0	10000	10300	103	1	9820	98	0
Beryllium	495	512	103	1	1000	1050	105	1	1040	104	2
Cadmium	496	476	96	0	1000	995	100	0	971	97	0
Calcium	10000	10700	107	0	50000	52400	105	0	50900	102	0
Chromium	490	503	103	1	10000	10300	103	1	9830	98	1
Cobalt	499	479	96	0	5000	4860	97	0	4740	95	0
Copper	492	493	100	1	12500	12300	98	2	12000	96	0
Iron	5080	5390	106	1	25000	26600	106	0	25800	103	0
Lead	1000	927	93	0	10000	9520	95	0	9280	93	0
Magnesium	6070	6530	108	0	50000	53400	107	0	51800	104	0
Manganese	499	525	105	1	5000	5100	102	1	4960	99	2
Nickel	503	482	96	0	5000	4840	97	0	4710	94	0
Potassium	10000	10700	107	1	37500	39200	105	0	38300	102	0
Selenium	1030	973	95	0	1250	1260	101	0	1230	98	0
Silver	501	509	102	1	750	771	103	1	740	99	1
Sodium	10100	11100	110	0	25000	26900	108	0	26200	105	0
Thallium	1030	980	95	0	1000	934	93	0	907	91	0
Vanadium	501	512	102	1	2500	2600	104	1	2500	100	1
Zinc	1030	995	97	0	5000	5030	101	0	4900	98	0

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Preparation Blank Matrix: SOIL

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

Analytical Method: ICP-AES Preparation Batch: 89826

Run Batch: I5112115A ISM Preparation Method 3050B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS	Q
Aluminum	200	U	200	U	200	U	200	U	20.0	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	0.35	J
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Barium	200	U	200	U	200	U	200	U	20.0	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Calcium	5000	U	5000	U	5000	U	5000	U	500	U
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Copper	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Iron	100	U	100	U	100	U	100	U	10.0	U
Lead	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Magnesium	5000	U	5000	U	5000	U	5000	U	500	U
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	1.5	U
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	4.0	U
Potassium	136	J	105	J	5000	U	5000	U	75.7	J
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	3.5	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	11.4	J
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5112115A ISM Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID: CCB	Q	ID:	Q
Aluminum			200	U	200	U	200	U		
Antimony			60.0	U	60.0	U	60.0	U		
Arsenic			10.0	U	10.0	U	10.0	U		
Barium			200	U	200	U	200	U		
Beryllium			5.0	U	5.0	U	5.0	U		
Cadmium			5.0	U	5.0	U	5.0	U		
Calcium			5000	U	5000	U	5000	U		
Chromium			10.0	U	10.0	U	10.0	U		
Cobalt			50.0	U	50.0	U	50.0	U		
Copper			25.0	U	25.0	U	25.0	U		
Iron			100	U	100	U	100	U		
Lead			10.0	U	10.0	U	10.0	U		
Magnesium			5000	U	5000	U	5000	U		
Manganese			15.0	U	15.0	U	15.0	U		
Nickel			40.0	U	40.0	U	40.0	U		
Potassium			5000	U	5000	U				
Selenium			35.0	U	35.0	U	35.0	U		
Silver			10.0	U	10.0	U	10.0	U		
Sodium			5000	U	5000	U				
Thallium			25.0	U	25.0	U	25.0	U		
Vanadium			50.0	U	50.0	U	50.0	U		
Zinc			60.0	U	60.0	U	60.0	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5112215B ISM Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB002	Q	ID: CCB007	Q	ID: CCB008	Q	ID:	Q	ID:	Q
Aluminum	200	U	200	U	200	U				
Antimony	60.0	U	60.0	U	60.0	U				
Arsenic	10.0	U	10.0	U	10.0	U				
Barium	200	U	200	U	200	U				
Beryllium	5.0	U	5.0	U	5.0	U				
Cadmium	5.0	U	5.0	U	5.0	U				
Calcium	5000	U	5000	U	5000	U				
Chromium	10.0	U	10.0	U	10.0	U				
Cobalt	50.0	U	50.0	U	50.0	U				
Copper	25.0	U	25.0	U	25.0	U				
Iron	100	U	100	U	100	U				
Lead	10.0	U	10.0	U	10.0	U				
Magnesium	5000	U	5000	U	5000	U				
Manganese	15.0	U	15.0	U	15.0	U				
Nickel	40.0	U	40.0	U	40.0	U				
Potassium	5000	U	119	J	5000	U				
Selenium	35.0	U	35.0	U	35.0	U				
Silver	10.0	U	10.0	U	10.0	U				
Sodium	5000	U	5000	U	5000	U				
Thallium	25.0	U	25.0	U	25.0	U				
Vanadium	50.0	U	50.0	U	50.0	U				
Zinc	60.0	U	60.0	U	60.0	U				

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112215B ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	265000	104	267000	108
Antimony	0.00	618	4.8	0	597	97
Arsenic	0.00	104	-4.2	0	97.3	94
Barium	6.0	537	8.4	140	538	100
Beryllium	0.0000	495	0.24	0	546	110
Cadmium	1.0	972	1.2	120	1010	104
Calcium	245000	235000	263000	108	262000	112
Chromium	52.0	542	60.0	115	580	107
Cobalt	0.000	476	-0.53	0	468	98
Copper	2.0	511	-3.9	-195	506	99
Iron	101000	99300	104000	103	105000	106
Lead	0.00	49.0	-0.41	0	45.5	93
Magnesium	255000	248000	272000	106	273000	110
Manganese	7.0	507	18.3	261	554	109
Nickel	2.0	954	3.0	150	936	98
Selenium	0.00	46.0	-0.43	0	51.0	111
Silver	0.00	201	0.20	0	214	106
Thallium	0.00	108	-2.0	0	88.6	82
Vanadium	0.00	491	1.8	0	519	106
Zinc	0.00	952	1.2	0	982	103

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112215B ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	258000	101	274000	111
Antimony	0.00	618	6.0	0	612	99
Arsenic	0.00	104	-3.5	0	101	97
Barium	6.0	537	6.9	115	567	106
Beryllium	0.0000	495	0.20	0	562	114
Cadmium	1.0	972	1.2	120	1050	108
Calcium	245000	235000	249000	102	271000	115
Chromium	52.0	542	57.9	111	591	109
Cobalt	0.000	476	-0.31	0	483	101
Copper	2.0	511	-0.08	-4	519	102
Iron	101000	99300	103000	102	109000	110
Lead	0.00	49.0	-0.76	0	46.9	96
Magnesium	255000	248000	268000	105	287000	116
Manganese	7.0	507	18.0	257	571	113
Nickel	2.0	954	2.6	130	966	101
Selenium	0.00	46.0	0.81	0	51.0	111
Silver	0.00	201	0.47	0	222	110
Thallium	0.00	108	-1.8	0	91.2	84
Vanadium	0.00	491	1.5	0	535	109
Zinc	0.00	952	1.2	0	1020	107

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7C9S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Analytical Method: ICP-AES

% Solids for Sample: 80.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Antimony	75 - 125	8.9	J	29.3	U	24.4	36	*D
Arsenic	75 - 125	16.0		5.9		9.8	103	
Barium	75 - 125	551		86.6		489	95	
Beryllium	75 - 125	12.7		0.43	J	12.2	101	
Cadmium	75 - 125	11.6		0.72	J	12.2	89	D
Chromium	75 - 125	79.0		22.4		48.9	116	
Cobalt	75 - 125	117		8.3		122	89	
Copper	75 - 125	116		73.0		61.1	70	*D
Lead		153		86.1		4.9	1365	D
Manganese	75 - 125	606		341		122	217	*
Nickel	75 - 125	134		22.4		122	91	D
Selenium	75 - 125	21.5		4.3	U	24.4	88	
Silver	75 - 125	11.4		1.2	U	12.2	93	
Thallium	75 - 125	11.0		0.55	J	12.2	86	
Vanadium	75 - 125	131		15.9		122	94	
Zinc	75 - 125	348		258		122	74	*

FORM 5B-IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7C9A

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Analytical Method: ICP4 ISM02.2

% Solids:

Concentration Units: (ug/L, mg/L, or mg/Kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Q	Sample Result (SR)	Q	Spike Added (SA)	%R	Q
Antimony		126	J	240	U	120	105	
Copper		660		615		50.0	90	
Manganese		2870		2870		30.0	0	
Zinc		2220		2180		120	33	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7C9D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Analytical Method: ICP-AES

% Solids: 80.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		11900		10900		9	
Antimony		29.3	U	29.3	U		
Arsenic	1.2	5.9		6.9		16	
Barium	24.4	86.6		38.7		76	*
Beryllium		0.43	J	0.45	J		
Cadmium		0.72	J	0.95	J		
Calcium		3330		8560		88	*
Chromium		22.4		22.5		0	
Cobalt	6.1	8.3		8.0		4	
Copper	12.2	73.0		55.3		28	*
Iron		32800		30400		8	
Lead		86.1		119		32	*
Magnesium		7320		9460		26	*
Manganese		341		355		4	
Nickel	19.5	22.4		21.0		6	
Potassium	609	1010		1010		0	
Selenium		4.3	U	0.76	J		
Silver		1.2	U	1.2	U		
Sodium		71.1	J	68.2	J		
Thallium		0.55	J	3.0	U		
Vanadium	6.1	15.9		15.1		5	
Zinc		258		209		21	*

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Preparation Method: 3050B

Analytical Method: ICP-AES Preparation Batch: 89826

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

Analyte	True	Found	%R
Aluminum	40.0	40.1	100
Antimony	12.0	11.9	99
Arsenic	2.0	1.9	95
Barium	40.0	39.8	100
Beryllium	1.0	0.97	97
Cadmium	1.0	0.92	92
Calcium	1000	1040	104
Chromium	2.0	2.1	105
Cobalt	10.0	9.6	96
Copper	5.0	4.7	94
Iron	20.0	22.4	112
Lead	2.0	1.8	90
Magnesium	1000	1030	103
Manganese	3.0	3.0	100
Nickel	8.0	7.6	95
Potassium	1000	1060	106
Selenium	7.0	6.8	97
Silver	2.0	1.9	95
Sodium	1000	1090	109
Thallium	5.0	4.6	92
Vanadium	10.0	9.4	94
Zinc	12.0	11.9	99

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC7C9L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	100000		106000		6	
Antimony	10.4	J	120	U	100	
Arsenic	49.8		45.5		9	
Barium	730		762		4	
Beryllium	3.6		3.9		8	
Cadmium	6.1		10.1		66	*
Calcium	28000		29800		6	
Chromium	189		201		6	
Cobalt	70.1		73.2		4	
Copper	615		653		6	
Iron	276000		286000		4	
Lead	726		755		4	
Magnesium	61700		65600		6	
Manganese	2870		3120		9	
Nickel	189		192		2	
Potassium	8490		8900		5	
Selenium	4.2		5.1	J	21	
Silver	0.36	J	5.0	U	100	
Sodium	599		521	J	13	*
Thallium	4.7		6.5	J	38	
Vanadium	134		141		5	
Zinc	2180		2260		4	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 3050B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	7.6	02/07/2015
Antimony	206.83	0.35	02/07/2015
Arsenic	189.04	0.39	02/07/2015
Barium	455.40	0.20	02/07/2015
Beryllium	313.04	0.0079	02/07/2015
Cadmium	228.80	0.040	02/07/2015
Calcium	422.67	6.9	02/07/2015
Chromium	267.72	0.012	02/07/2015
Cobalt	228.62	0.068	02/07/2015
Copper	327.40	0.24	02/07/2015
Iron	261.19	2.6	02/07/2015
Lead	220.35	0.28	02/07/2015
Magnesium	285.21	9.7	02/07/2015
Manganese	257.61	0.085	02/07/2015
Nickel	231.60	0.21	02/07/2015
Potassium	766.49	11.0	02/07/2015
Selenium	196.09	0.62	02/07/2015
Silver	328.07	0.19	02/07/2015
Sodium	589.59	4.9	02/07/2015
Thallium	190.86	0.36	02/07/2015
Vanadium	292.40	0.13	02/07/2015
Zinc	206.20	0.26	02/07/2015

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 200.7

Concentration Units (ug/L, ug, mg/kg): UG/L

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	95.0	02/07/2015
Antimony	206.83	7.8	02/07/2015
Arsenic	189.04	3.9	02/07/2015
Barium	455.40	19.0	02/07/2015
Beryllium	313.04	0.052	02/07/2015
Cadmium	228.80	0.60	02/07/2015
Calcium	422.67	503	02/07/2015
Chromium	267.72	1.8	02/07/2015
Cobalt	228.62	0.25	02/07/2015
Copper	327.40	5.0	02/07/2015
Iron	261.19	19.0	02/07/2015
Lead	220.35	3.5	02/07/2015
Magnesium	285.21	51.0	02/07/2015
Manganese	257.61	0.43	02/07/2015
Nickel	231.60	1.1	02/07/2015
Potassium	766.49	90.0	02/07/2015
Selenium	196.09	5.5	02/07/2015
Silver	328.07	1.6	02/07/2015
Sodium	589.59	516	02/07/2015
Thallium	190.86	3.8	02/07/2015
Vanadium	292.40	1.1	02/07/2015
Zinc	206.20	6.6	02/07/2015

FORM 10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	-0.000044	0	0.000024	0	0
Arsenic	189.00	0.000007(	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0.000003(	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0.000038	-0.000018	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0.00041	0	0.000035	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	-0.0005(	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0.000004(	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0.013	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0.00033
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0.00050
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0.0027
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Mo
Aluminum	308.215	0	0	0	0	0.012
Antimony	206.838	0.019	0	0	0	-0.0065
Arsenic	189.00	0.00079	0	0	-0.00042	0.00033
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0.00030	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00043	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	-0.0037
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00018	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	Tl	U	V	Zn
Aluminum	308.215	0	0	0	0.043	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0.00042	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0.0023	0	0	0	0
Copper	327.3	-0.00072	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	-0.012	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1348	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1353	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1357	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1402	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1407		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1413		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1418	X						X				X		X				X			X						
S07	1.0	1423	X						X				X		X													
S08	1.0	1428																	X			X						
S09	1.0	1433																				X						
S10	1.0	1437																	X									
ICV001	1.0	1442	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB001	1.0	1447	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA001	1.0	1452	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB001	1.0	1457	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV001	1.0	1502	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB001	1.0	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1512																										
ZZZZZZ	1.0	1516																										
ZZZZZZ	1.0	1521																										
ZZZZZZ	5.0	1526																										
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1535																										
ZZZZZZ	1.0	1540																										
ZZZZZZ	1.0	1545																										
ZZZZZZ	1.0	1550																										
ZZZZZZ	1.0	1555																										
ZZZZZZ	1.0	1559																										
ZZZZZZ	1.0	1604																										
ZZZZZZ	5.0	1609																										
ZZZZZZ	1.0	1614																										
ZZZZZZ	1.0	1619																										
ZZZZZZ	1.0	1623																										
ZZZZZZ	1.0	1628																										
ZZZZZZ	5.0	1633																										
ZZZZZZ	1.0	1638																										
ZZZZZZ	1.0	1643																										
ZZZZZZ	1.0	1647																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV002	1.0	1652	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB002	1.0	1657	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1702																										
ZZZZZZ	1.0	1707																										
ZZZZZZ	1.0	1712																										
ZZZZZZ	1.0	1717																										
ZZZZZZ	1.0	1721																										
ZZZZZZ	1.0	1726																										
ZZZZZZ	1.0	1731																										
ZZZZZZ	5.0	1736																										
ZZZZZZ	1.0	1740																										
ZZZZZZ	1.0	1745																										
ZZZZZZ	1.0	1750																										
ZZZZZZ	1.0	1755																										
ZZZZZZ	1.0	1759																										
ZZZZZZ	1.0	1804																										
ZZZZZZ	1.0	1809																										
ZZZZZZ	1.0	1814																										
ZZZZZZ	1.0	1819																										
ZZZZZZ	1.0	1823																										
ZZZZZZ	1.0	1828																										
ZZZZZZ	1.0	1833																										
CCV003	1.0	1838	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB003	1.0	1843	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1848																										
ZZZZZZ	1.0	1853																										
ZZZZZZ	1.0	1858																										
ZZZZZZ	1.0	1903																										
ZZZZZZ	1.0	1908																										
ZZZZZZ	1.0	1913																										
ZZZZZZ	5.0	1917																										
ZZZZZZ	1.0	1922																										
ZZZZZZ	1.0	1927																										
ZZZZZZ	1.0	1932																										
PBS	1.0	1936	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS	1.0	1941	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7C9	1.0	1946	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7C9L	5.0	1951	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
MBC7C9D	1.0	1956	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7C9S	1.0	2000			X	X	X			X	X					X				X	X		X	X	X			
MBC7C9A	1.0	2005														X									X			
MBC7D1	1.0	2010	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7B1	1.0	2015	X			X	X		X		X				X				X	X	X	X	X	X	X			
MBC7B2	1.0	2020	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
CCV004	1.0	2025	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB004	1.0	2030	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7B3	1.0	2035	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7B4	1.0	2040	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7B6	1.0	2045	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
MBC7H8	1.0	2049	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X			
ZZZZZZ	1.0	2054																										
ZZZZZZ	5.0	2059																										
ZZZZZZ	1.0	2104																										
ZZZZZZ	1.0	2109																										
ZZZZZZ	1.0	2114																										
ZZZZZZ	1.0	2119																										
ZZZZZZ	1.0	2124																										
ZZZZZZ	2.0	2129																										
ZZZZZZ	2.0	2134																										
ZZZZZZ	2.0	2139																										
ZZZZZZ	2.0	2144																										
ZZZZZZ	5.0	2148																										
ZZZZZZ	5.0	2153																										
ZZZZZZ	5.0	2158																										
ZZZZZZ	5.0	2203																										
ZZZZZZ	2.0	2207																										
ZZZZZZ	2.0	2212																										
CCV005	1.0	2217	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB005	1.0	2222	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	2.0	2227																										
ZZZZZZ	10	2232																										
ZZZZZZ	2.0	2237																										
ZZZZZZ	2.0	2241																										
ZZZZZZ	2.0	2246																										
MBC7D1	2.0	2251		X				X				X	X	X				X										
MBC7B1	2.0	2256		X	X			X		X		X	X	X		X		X										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																											
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN				
MBC7B2	5.0	2301		X				X				X	X	X				X												
MBC7B3	5.0	2306		X				X				X	X	X				X												
MBC7B4	5.0	2310		X				X				X	X	X				X												
MBC7B6	5.0	2315		X				X				X	X	X				X												
MBC7H8	2.0	2320		X				X				X	X	X				X												
ZZZZZZ	2.0	2325																												
ZZZZZZ	10	2330																												
ZZZZZZ	2.0	2334																												
ZZZZZZ	2.0	2339																												
ZZZZZZ	2.0	2344																												
ZZZZZZ	5.0	2349																												
CCV ISM-538	1.0	2354	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X					
CCB	1.0	2359	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X					

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/22/2015 End Date: 11/22/2015

Run Batch: I5112215B ISM

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1324	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1329	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1334	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1339	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1344		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1349		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1355	X						X				X		X				X			X						
S07	1.0	1400	X						X				X		X													
S08	1.0	1404																	X			X						
S09	1.0	1409																				X						
S10	1.0	1414																	X									
ICV002	1.0	1419	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB002	1.0	1424	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA002	1.0	1428	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB002	1.0	1433	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV007	1.0	1438	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB007	1.0	1444	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7C9	4.0	1448		X				X				X	X	X				X										
MBC7C9L	20	1453		X				X				X	X	X				X										
MBC7C9D	4.0	1458		X				X				X	X	X				X										
MBC7C9S	4.0	1503		X				X				X		X				X										
MBC7C9A	4.0	1507		X								X																
CCV008	1.0	1512	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB008	1.0	1517	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.0062	0	200	183	-9	800	871	9
Antimony	0.00	0.0030	0	60.0	60	0	240	232	-3
Arsenic	0.00	0.00017	0	10.0	10	1	40.0	39	-2
Barium	0.00	-0.0032	0	200	206	3	800	787	-2
Beryllium	0.00	-0.00015	0	5.00	5.1	2	20.0	20	1
Cadmium	0.00	0.00090	0	5.00	4.6	-8	20.0	18	-9
Calcium	0.00	-0.86	0	5000	5454	9	20000	20774	4
Chromium	0.00	-0.00058	0	10.0	11	5	40.0	40	1
Cobalt	0.00	0.0052	0	50.0	49	-2	200	187	-6
Copper	0.00	0.0017	0	25.0	25	-1	100	96	-4
Iron	0.00	-0.020	0	100	114	14	400	410	3
Lead	0.00	0.0010	0	10.0	10	5	40.0	35	-12
Magnesium	0.00	-0.73	0	5000	5432	9	20000	20570	3
Manganese	0.00	-0.0011	0	15.0	16	6	60.0	61	2
Nickel	0.00	0.0039	0	40.0	39	-2	160	151	-6
Potassium	0.00	-0.85	0	5000	5361	7	20000	20390	2
Selenium	0.00	0.00034	0	35.0	36	3	140	135	-3
Silver	0.00	0.00041	0	10.0	9.9	-1	40.0	39	-2
Sodium	0.00	-0.73	0	3000	3392	13	12000	12709	6
Thallium	0.00	0.0025	0	25.0	25	1	100	93	-7
Vanadium	0.00	-0.00020	0	50.0	51	2	200	198	-1
Zinc	0.00	0.0012	0	60.0	61	1	240	235	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/22/2015

Analytical Method: ICP-AES **Run Batch:** I5112215B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.059	0	200	241	21	800	865	8
Antimony	0.00	0.0052	0	60.0	58	-3	240	233	-3
Arsenic	0.00	0.00065	0	10.0	9.6	-4	40.0	40	-1
Barium	0.00	0.011	0	200	194	-3	800	793	-1
Beryllium	0.00	-0.00012	0	5.00	5.0	-1	20.0	21	4
Cadmium	0.00	0.00090	0	5.00	4.5	-9	20.0	19	-7
Calcium	0.00	-0.45	0	5000	5187	4	20000	20755	4
Chromium	0.00	-0.00005	0	10.0	10	1	40.0	40	1
Cobalt	0.00	0.0078	0	50.0	47	-7	200	188	-6
Copper	0.00	0.0019	0	25.0	24	-3	100	98	-2
Iron	0.00	-0.0073	0	100	98	-2	400	426	6
Lead	0.00	0.0023	0	10.0	9.0	-10	40.0	36	-9
Magnesium	0.00	-0.61	0	5000	5221	4	20000	21000	5
Manganese	0.00	-0.00095	0	15.0	16	4	60.0	63	5
Nickel	0.00	0.0060	0	40.0	37	-7	160	151	-6
Potassium	0.00	-0.56	0	5000	5107	2	20000	20570	3
Selenium	0.00	0.0015	0	35.0	35	0	140	136	-3
Silver	0.00	0.00031	0	10.0	10	0	40.0	39	-2
Sodium	0.00	-0.57	0	3000	3238	8	12000	12838	7
Thallium	0.00	0.0049	0	25.0	23	-8	100	92	-8
Vanadium	0.00	0.0012	0	50.0	49	-2	200	203	1
Zinc	0.00	0.0044	0	60.0	58	-4	240	236	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	51540	3			0			
Antimony	2500	2438	-2	3750	3719	-1	5000	5101	2
Arsenic	2500	2489	0	3750	3690	-2	5000	5073	1
Barium	10000	10071	1	15000	14865	-1	20000	20071	0
Beryllium	1000	1018	2	1500	1482	-1	2000	2000	0
Cadmium	1000	978	-2	1500	1532	2	2000	2104	5
Calcium	50000	52162	4			0			
Chromium	10000	9987	0	15000	14881	-1	20000	20131	1
Cobalt	5000	4775	-5	7500	7491	0	10000	10248	2
Copper	12500	12063	-3	18750	18908	1	25000	25283	1
Iron	25000	25923	4			0			
Lead	10000	9381	-6	15000	15048	0	20000	20576	3
Magnesium	50000	51730	3			0			
Manganese	5000	4938	-1	7500	7474	0	10000	10087	1
Nickel	5000	4778	-4	7500	7491	0	10000	10241	2
Potassium	37500	38530	3			0			
Selenium	1250	1241	-1	1875	1848	-1	2500	2540	2
Silver	750	738	-2	1125	1125	0	1500	1514	1
Sodium	25000	26334	5			0			
Thallium	1000	920	-8	1500	1520	1	2000	2067	3
Vanadium	2500	2477	-1	3750	3733	0	5000	5040	1
Zinc	5000	4945	-1	7500	7454	-1	10000	10107	1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/22/2015

Analytical Method: ICP-AES **Run Batch:** I5112215B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	50207	0			0			
Antimony	2500	2365	-5	3750	3805	1	5000	5096	2
Arsenic	2500	2421	-3	3750	3770	1	5000	5060	1
Barium	10000	9603	-4	15000	15184	1	20000	20225	1
Beryllium	1000	986	-1	1500	1516	1	2000	1997	0
Cadmium	1000	949	-5	1500	1563	4	2000	2102	5
Calcium	50000	50658	1			0			
Chromium	10000	9596	-4	15000	15206	1	20000	20197	1
Cobalt	5000	4632	-7	7500	7645	2	10000	10238	2
Copper	12500	11660	-7	18750	19388	3	25000	25205	1
Iron	25000	25628	3			0			
Lead	10000	9108	-9	15000	15347	2	20000	20552	3
Magnesium	50000	51300	3			0			
Manganese	5000	4754	-5	7500	7675	2	10000	10068	1
Nickel	5000	4638	-7	7500	7654	2	10000	10220	2
Potassium	37500	37910	1			0			
Selenium	1250	1207	-3	1875	1887	1	2500	2535	1
Silver	750	718	-4	1125	1145	2	1500	1513	1
Sodium	25000	25895	4			0			
Thallium	1000	895	-10	1500	1548	3	2000	2067	3
Vanadium	2500	2409	-4	3750	3809	2	5000	5031	1
Zinc	5000	4802	-4	7500	7620	2	10000	10085	1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	151080	1	300000	297320	-1			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	153170	2	300000	293440	-2			
Chromium									
Cobalt									
Copper									
Iron	75000	75827	1	150000	148230	-1			
Lead									
Magnesium	150000	151600	1	300000	295600	-1			
Manganese									
Nickel									
Potassium	112500	110800	-2				56250	55360	-2
Selenium									
Silver									
Sodium	75000	76448	2				37500	38765	3
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/22/2015

Analytical Method: ICP-AES **Run Batch:** I5112215B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	151670	1	300000	298020	-1			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	152180	1	300000	296220	-1			
Chromium									
Cobalt									
Copper									
Iron	75000	76749	2	150000	147600	-2			
Lead									
Magnesium	150000	153100	2	300000	294400	-2			
Manganese									
Nickel									
Potassium	112500	111200	-1				56250	55730	-1
Selenium									
Silver									
Sodium	75000	76312	2				37500	38641	3
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10820	8			
Selenium									
Silver									
Sodium	100000	94852	-5						
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/22/2015

Analytical Method: ICP-AES **Run Batch:** I5112215B ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10720	7			
Selenium									
Silver									
Sodium	100000	95576	-4						
Thallium									
Vanadium									
Zinc									

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	0.994	0.00317	Lin. Req	None
Antimony	0.9998	1.01	-0.000487	Lin. Req	None
Arsenic	0.9999	1.00	-0.000173	Lin. Req	None
Barium	1.0000	1.00	-0.00116	Lin. Req	None
Beryllium	0.9999	0.998	0.000861	Lin. Req	None
Cadmium	0.9996	1.03	-0.000452	Lin. Req	None
Calcium	0.9998	0.985	0.00663	Lin. Req	None
Chromium	1.0000	1.00	0.000177	Lin. Req	None
Cobalt	0.9996	1.01	0.000453	Lin. Req	None
Copper	0.9998	1.01	-0.000141	Lin. Req	None
Iron	0.9999	0.992	0.000660	Lin. Req	None
Lead	0.9994	1.01	-0.000187	Lin. Req	None
Magnesium	0.9999	0.989	-0.000172	Lin. Req	None
Manganese	1.0000	1.00	0.0000040	Lin. Req	None
Nickel	0.9996	1.01	-0.000617	Lin. Req	None
Potassium	0.9999	0.985	-0.00582	Lin. Req	None
Selenium	0.9999	1.00	-0.000170	Lin. Req	None
Silver	1.0000	1.00	0.0000370	Lin. Req	None
Sodium	0.9989	0.974	0.0120	Lin. Req	None
Thallium	0.9991	1.02	-0.000275	Lin. Req	None
Vanadium	1.0000	1.00	0.0000720	Lin. Req	None
Zinc	0.9999	1.00	-0.000340	Lin. Req	None

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

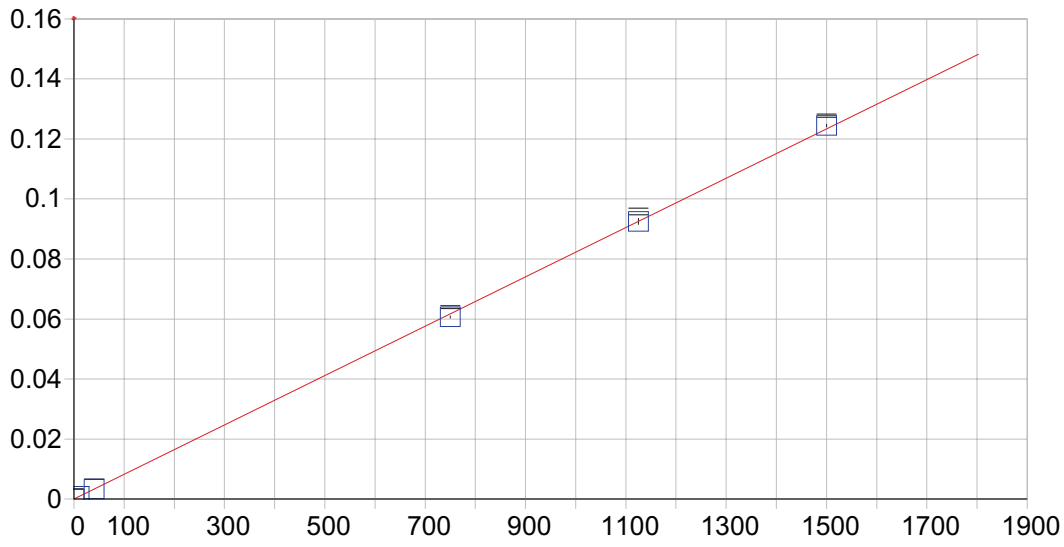
Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: ICP5 **Start Date:** 11/22/2015

Analytical Method: ICP-AES **Run Batch:** I5112215B ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	0.996	0.00332	Lin. Req	None
Antimony	0.9996	1.01	-0.000451	Lin. Req	None
Arsenic	0.9999	1.01	-0.000213	Lin. Req	None
Barium	0.9998	1.01	-0.00311	Lin. Req	None
Beryllium	1.0000	1.00	0.000983	Lin. Req	None
Cadmium	0.9993	1.04	-0.000675	Lin. Req	None
Calcium	0.9999	0.992	0.00640	Lin. Req	None
Chromium	0.9998	1.01	0.000180	Lin. Req	None
Cobalt	0.9993	1.01	0.000367	Lin. Req	None
Copper	0.9994	1.01	0.00117	Lin. Req	None
Iron	0.9998	0.991	0.000852	Lin. Req	None
Lead	0.9990	1.01	-0.000203	Lin. Req	None
Magnesium	0.9998	0.987	-0.0000880	Lin. Req	None
Manganese	0.9997	1.01	0.0000200	Lin. Req	None
Nickel	0.9993	1.01	-0.000450	Lin. Req	None
Potassium	0.9999	0.989	-0.00106	Lin. Req	None
Selenium	0.9998	1.01	-0.000145	Lin. Req	None
Silver	0.9998	1.01	0.0000470	Lin. Req	None
Sodium	0.9992	0.978	0.0154	Lin. Req	None
Thallium	0.9986	1.02	-0.000281	Lin. Req	None
Vanadium	0.9998	1.00	0.000296	Lin. Req	None
Zinc	0.9998	1.01	-0.000362	Lin. Req	None

ICP-AES
Raw Data



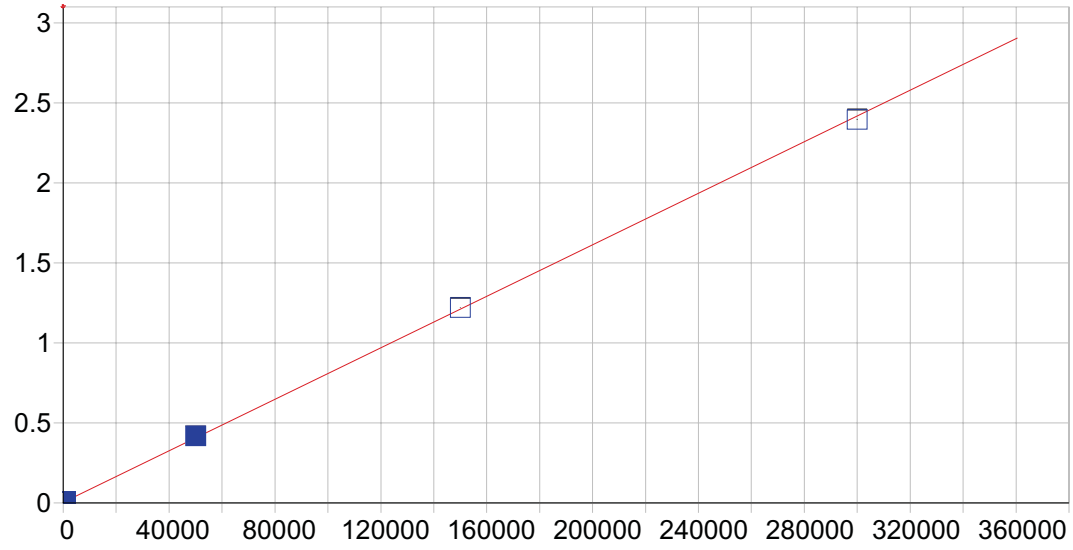
Ag 328.068 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000037	Re-Slope:	1.000000
A1 (Gain):	0.000082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.483268		
Predicted MQL:	1.610893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00041	.000	.000	.00004	.000	1
S01 ISM-520	10.000	9.8710	-.129	-1.29	.00085	.000	1
S02 ISM-521	40.000	39.179	-.821	-2.05	.00326	.000	1
S03 ISM-538	750.00	737.51	-12.5	-1.67	.06067	.000	1
S04 ISM-523	1125.0	1124.8	-.195	-.017	.09252	.001	1
S05 ISM-524	1500.0	1513.6	13.6	.909	.12448	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



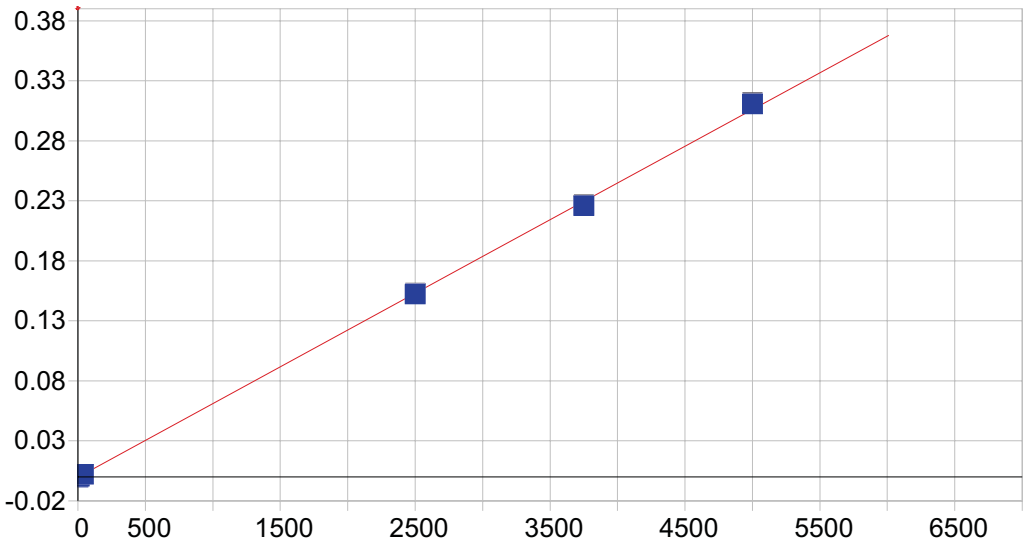
Al 308.215 {109}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003175	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	62.145854		
Predicted MQL:	207.152846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00616	-.006	.000	.00317	.000	1
S01 ISM-520	200.00	182.62	-17.4	-8.69	.00467	.000	1
S02 ISM-521	800.00	870.94	70.9	8.87	.01027	.000	1
S03 ISM-538	50000.	51538.	1540.	3.08	.41909	.002	1
S06 ISM-463	150000.	151080.	1080.	.721	1.2196	.002	1
S07 ISM-464	300000.	297320.	-2680.	-.893	2.3970	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



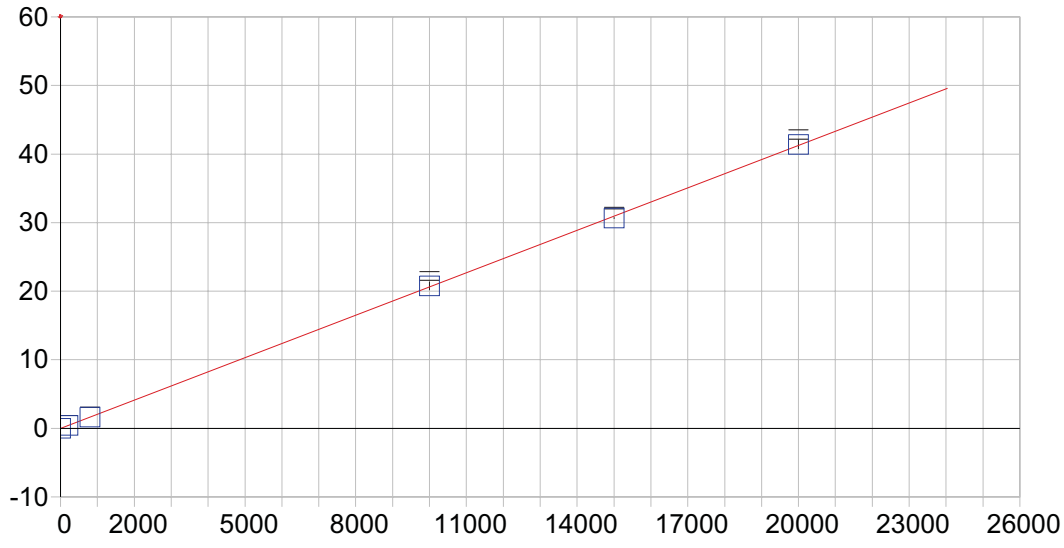
As 189.042 {478}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000173	Re-Slope:	1.000000
A1 (Gain):	0.000061	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	1.259893		
Predicted MQL:	4.199644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00017	.000	.000	-.00017	.000	1
S01 ISM-520	10.000	10.113	.113	1.13	.00045	.000	1
S02 ISM-521	40.000	39.124	-.876	-2.19	.00223	.000	1
S03 ISM-538	2500.0	2488.6	-11.4	-.454	.15263	.000	1
S04 ISM-523	3750.0	3689.4	-60.6	-1.62	.22633	.000	1
S05 ISM-524	5000.0	5072.8	72.8	1.46	.31123	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



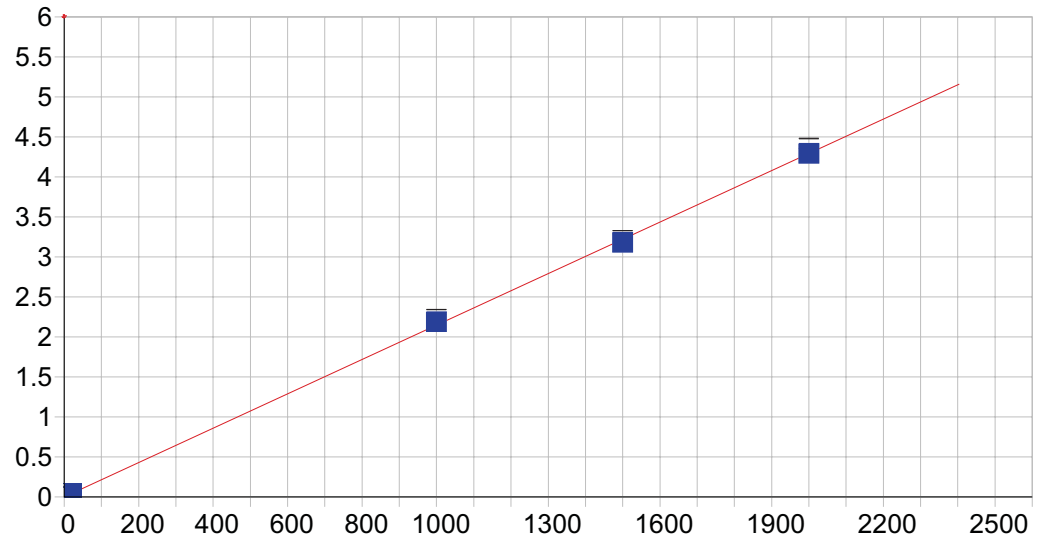
Ba 455.403 { 74}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001162	Re-Slope:	1.000000
A1 (Gain):	0.002063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.001736		
Predicted MDL:	0.631319		
Predicted MQL:	2.104397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00316	-.003	.000	-.00117	.001	1
S01 ISM-520	200.00	206.11	6.11	3.06	.42399	.016	1
S02 ISM-521	800.00	786.88	-13.1	-1.64	1.6219	.002	1
S03 ISM-538	10000.	10071.	70.5	.705	20.771	.643	1
S04 ISM-523	15000.	14865.	-135.	-.898	30.661	.129	1
S05 ISM-524	20000.	20071.	71.2	.356	41.399	.683	1

PDF created with pdfFactory trial version www.pdffactory.com



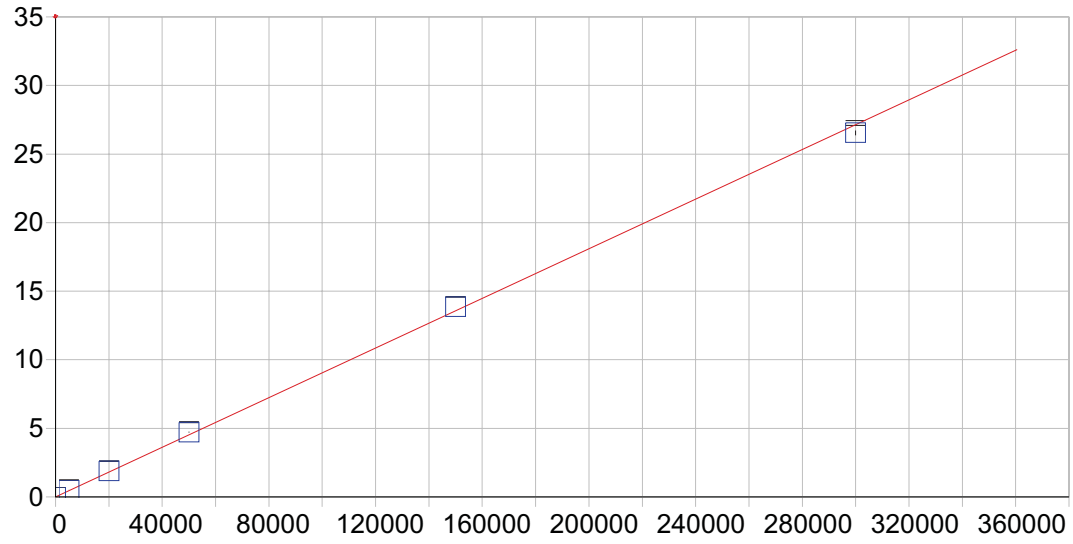
Be 313.042 {108}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000861	Re-Slope:	1.000000
A1 (Gain):	0.002146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.015736		
Predicted MQL:	0.052454		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00086	.000	1
S01 ISM-520	5.0000	5.0875	.087	1.75	.01183	.000	1
S02 ISM-521	20.000	20.149	.149	.747	.04429	.000	1
S03 ISM-538	1000.0	1018.2	18.2	1.82	2.1884	.031	1
S04 ISM-523	1500.0	1481.9	-18.1	-1.21	3.1849	.021	1
S05 ISM-524	2000.0	1999.7	-.268	-.013	4.2975	.061	1

PDF created with pdfFactory trial version www.pdffactory.com



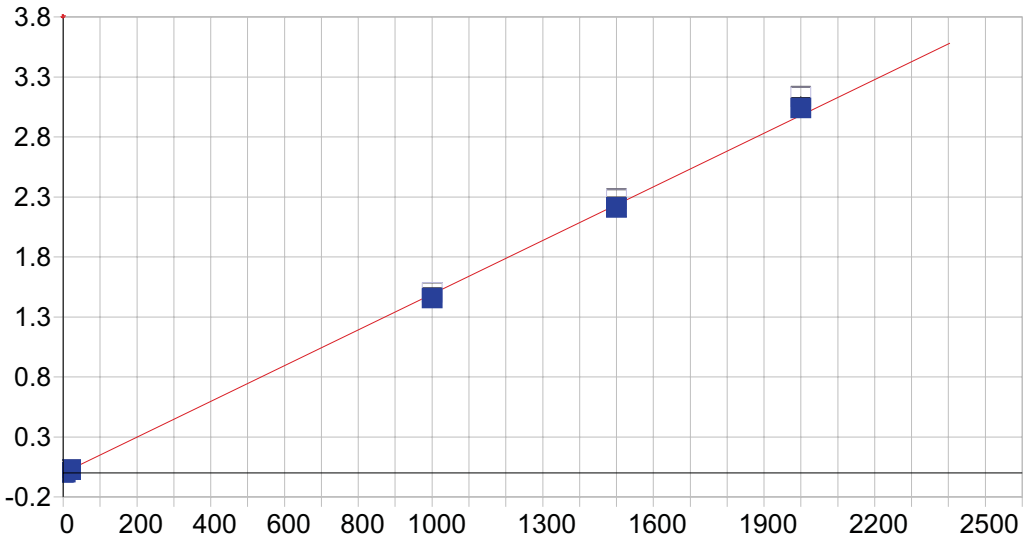
Ca 317.933 {106}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006635	Re-Slope:	1.000000
A1 (Gain):	0.000090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.004793		
Predicted MDL:	6.637735		
Predicted MQL:	22.125783		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.86015	-.860	.000	.00656	.000	1
S01 ISM-520	5000.0	5454.1	454.	9.08	.49988	.019	1
S02 ISM-521	20000.	20774.	774.	3.87	1.8853	.005	1
S03 ISM-538	50000.	52162.	2160.	4.32	4.7239	.034	1
S06 ISM-463	150000.	153170.	3170.	2.11	13.858	.005	1
S07 ISM-464	300000.	293440.	-6560.	-2.19	26.544	.171	1

PDF created with pdfFactory trial version www.pdffactory.com



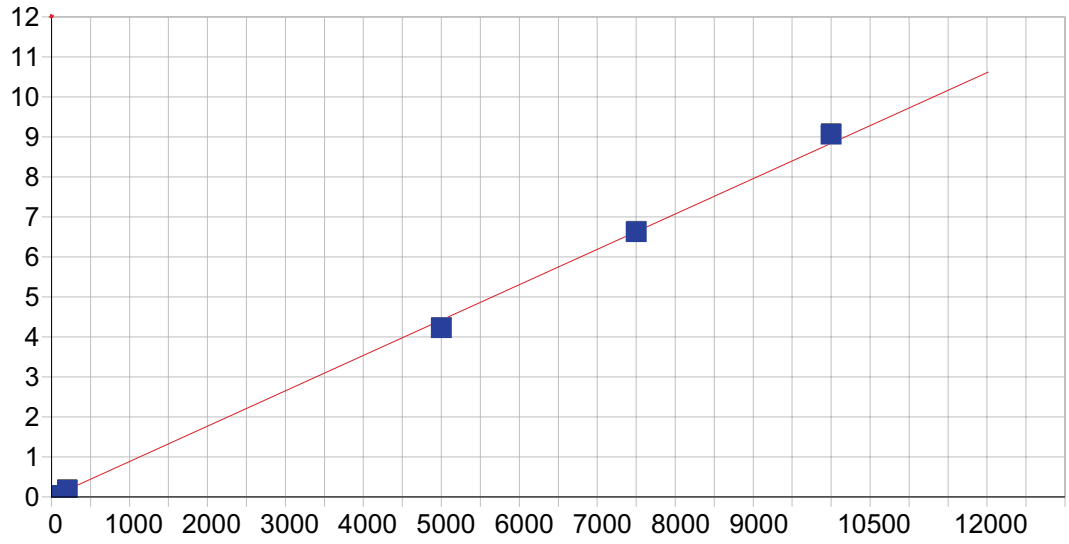
Cd 228.802 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000452	Re-Slope:	1.000000
A1 (Gain):	0.001490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999826	Status:	OK.
Std Error of Est:	0.000167		
Predicted MDL:	0.182839		
Predicted MQL:	0.609463		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00090	.001	.000	-.00045	.000	1
S01 ISM-520	5.0000	4.6187	-.381	-7.63	.00662	.000	1
S02 ISM-521	20.000	18.178	-1.82	-9.11	.02739	.000	1
S03 ISM-538	1000.0	977.48	-22.5	-2.25	1.5035	.002	1
S04 ISM-523	1500.0	1484.4	-15.6	-1.04	2.2825	.004	1
S05 ISM-524	2000.0	2040.3	40.3	2.01	3.1344	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



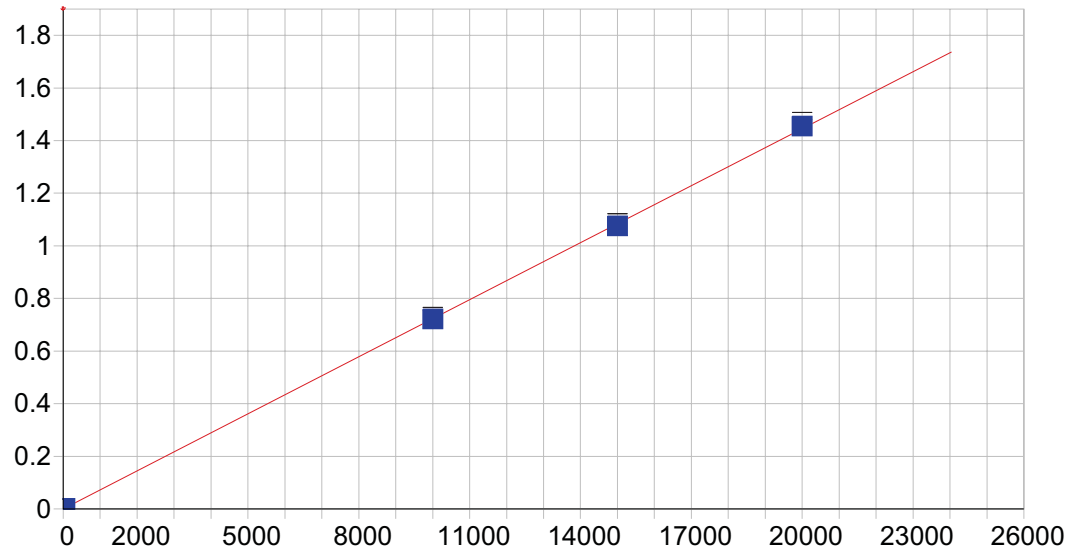
Co 228.616 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000453	Re-Slope:	1.000000
A1 (Gain):	0.000884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999623	Status:	OK.
Std Error of Est:	0.001003		
Predicted MDL:	0.180383		
Predicted MQL:	0.601276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00521	.005	.000	.00046	.000	1
S01 ISM-520	50.000	49.047	-.953	-1.91	.04391	.000	1
S02 ISM-521	200.00	187.26	-12.7	-6.37	.16620	.000	1
S03 ISM-538	5000.0	4774.7	-225.	-4.51	4.2234	.005	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	6.6253	.011	1
S05 ISM-524	10000.	10248.	248.	2.48	9.0644	.011	1

PDF created with pdfFactory trial version www.pdffactory.com



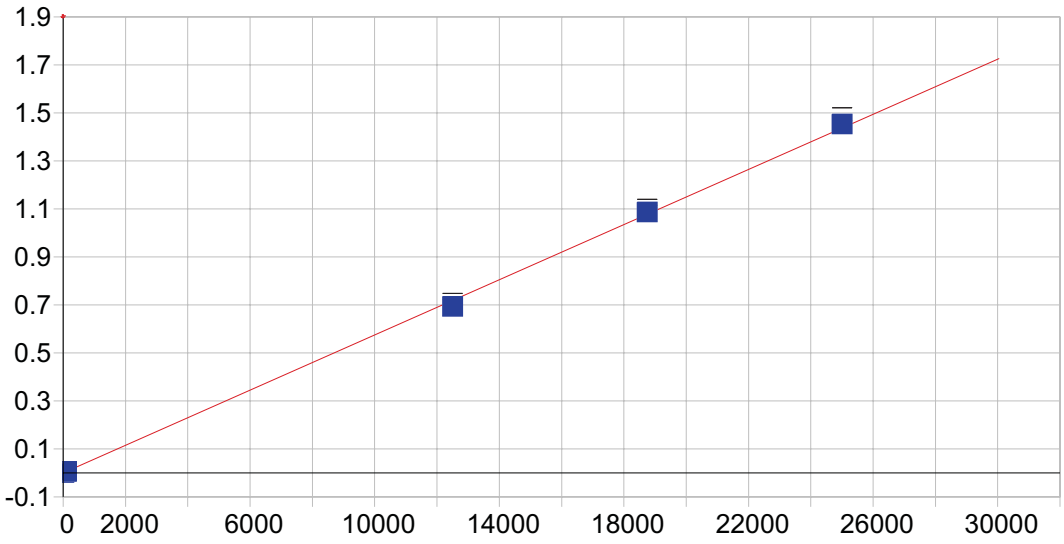
Cr 267.716 {126}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000177	Re-Slope:	1.000000
A1 (Gain):	0.000072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.347563		
Predicted MQL:	1.158543		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00058	-.001	.000	.00018	.000	1
S01 ISM-520	10.000	10.511	.511	5.11	.00094	.000	1
S02 ISM-521	40.000	40.392	.392	.981	.00310	.000	1
S03 ISM-538	10000.	9986.6	-13.4	-.134	.72199	.006	1
S04 ISM-523	15000.	14881.	-119.	-.794	1.0757	.009	1
S05 ISM-524	20000.	20132.	132.	.658	1.4552	.014	1

PDF created with pdfFactory trial version www.pdffactory.com



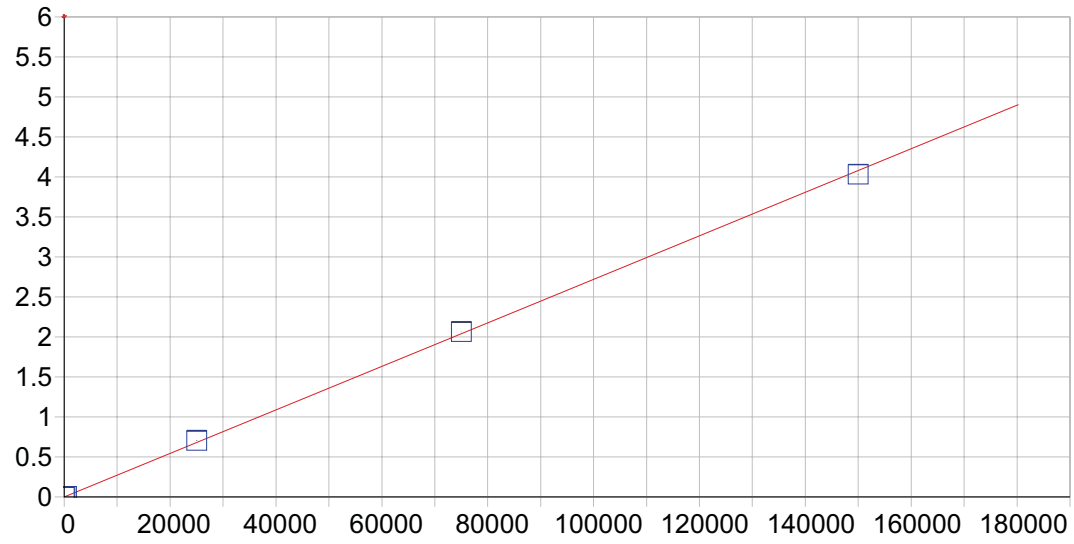
Cu 327.396 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000141	Re-Slope:	1.000000
A1 (Gain):	0.000057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.753977		
Predicted MQL:	2.513258		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00168	.002	.000	-.00014	.000	1
S01 ISM-520	25.000	24.739	-.261	-1.04	.00129	.000	1
S02 ISM-521	100.00	95.837	-4.16	-4.16	.00541	.000	1
S03 ISM-538	12500.	12063.	-437.	-3.49	.69350	.013	1
S04 ISM-523	18750.	18908.	158.	.841	1.0869	.012	1
S05 ISM-524	25000.	25283.	283.	1.13	1.4535	.027	1

PDF created with pdfFactory trial version www.pdffactory.com



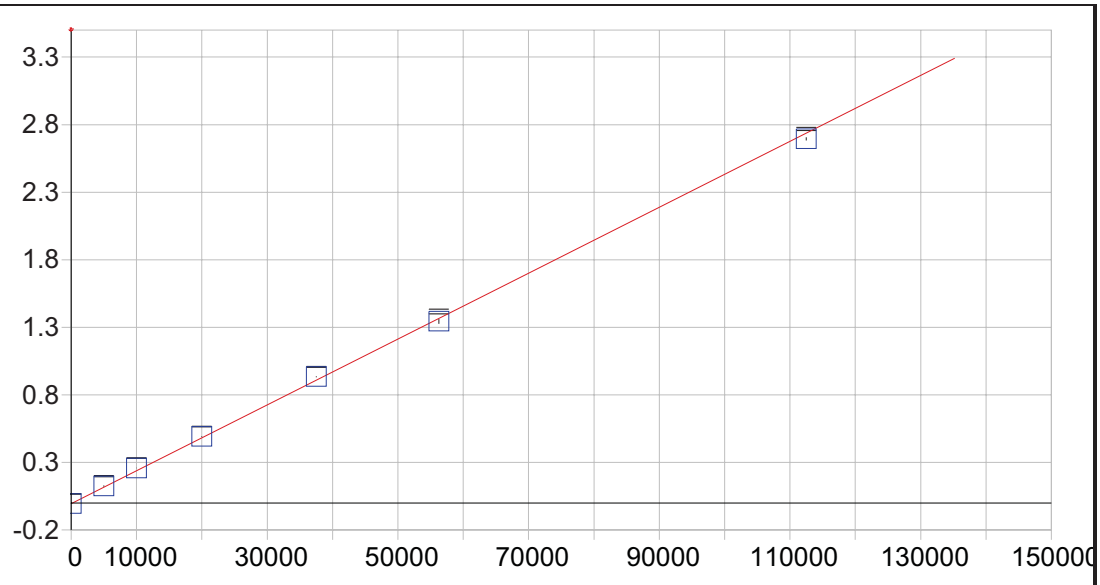
Fe 261.187 {129}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000660	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	12.750488		
Predicted MQL:	42.501625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02009	-.020	.000	.00066	.000	1
S01 ISM-520	100.00	113.94	13.9	13.9	.00376	.000	1
S02 ISM-521	400.00	410.15	10.1	2.54	.01181	.000	1
S03 ISM-538	25000.	25923.	923.	3.69	.70548	.004	1
S06 ISM-463	75000.	75827.	827.	1.10	2.0623	.001	1
S07 ISM-464	150000.	148230.	-1770.	-1.18	4.0307	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



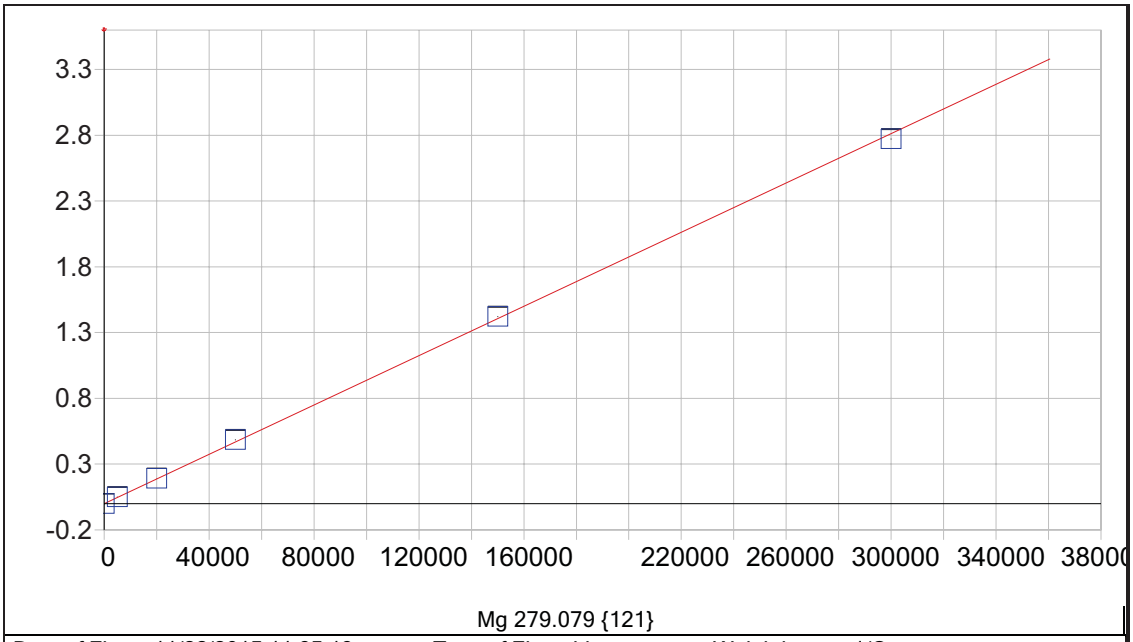
K 766.490 { 44}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005825	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999648	Status:	OK.
Std Error of Est:	0.000839		
Predicted MDL:	63.731155		
Predicted MQL:	212.437185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.85059	-.851	.000	-.00585	.002	1
S02 ISM-521	20000.	20394.	394.	1.97	.49133	.002	1
S01 ISM-520	5000.0	5360.6	361.	7.21	.12485	.005	1
S03 ISM-538	37500.	38534.	1030.	2.76	.93352	.005	1
S08 ISM-465	56250.	55359.	-891.	-1.58	1.3437	.018	1
S06 ISM-463	112500.	110780.	-1720.	-1.52	2.6948	.012	1
S10 ISM-457	10000.	10818.	818.	8.18	.25789	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



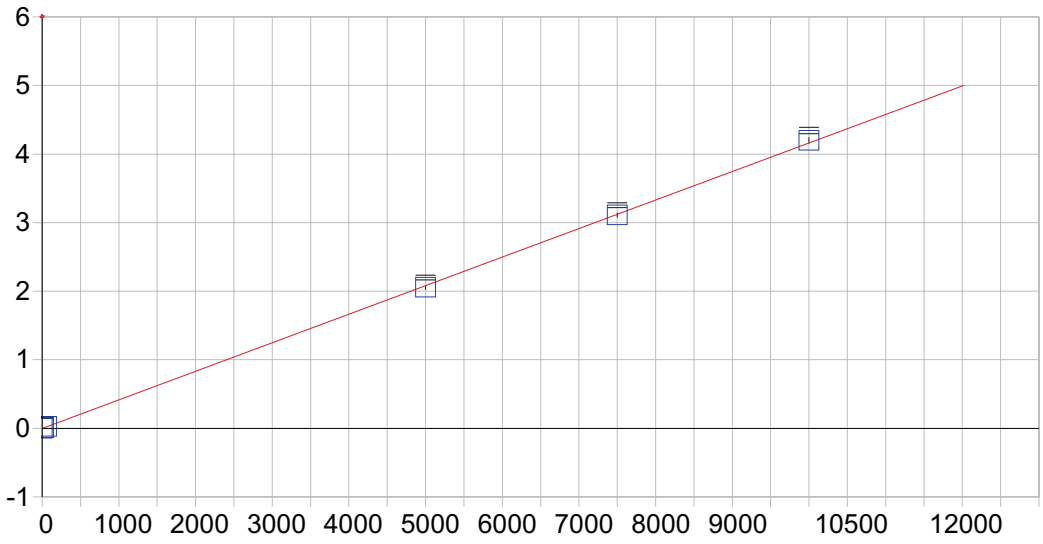
Mg 279.079 {121}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000172	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000358		
Predicted MDL:	33.403479		
Predicted MQL:	111.344929		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.72888	-.729	.000	-.00018	.000	1
S01 ISM-520	5000.0	5432.4	432.	8.65	.05076	.002	1
S02 ISM-521	20000.	20567.	567.	2.84	.19268	.001	1
S03 ISM-538	50000.	51726.	1730.	3.45	.48483	.003	1
S06 ISM-463	150000.	151650.	1650.	1.10	1.4218	.003	1
S07 ISM-464	300000.	295630.	-4370.	-1.46	2.7717	.003	1

PDF created with pdfFactory trial version www.pdffactory.com



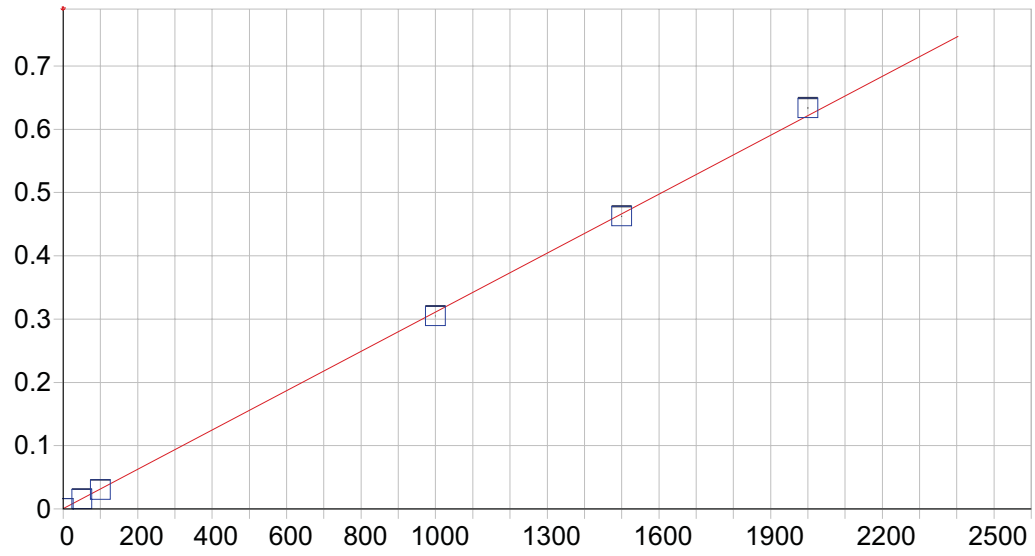
Mn 257.610 {131}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000416	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.058489		
Predicted MQL:	0.194962		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00114	-.001	.000	.00000	.000	1
S01 ISM-520	15.000	15.968	.968	6.46	.00665	.000	1
S02 ISM-521	60.000	61.130	1.13	1.88	.02544	.000	1
S03 ISM-538	5000.0	4937.6	-62.4	-1.25	2.0549	.033	1
S04 ISM-523	7500.0	7473.5	-26.5	-.353	3.1103	.035	1
S05 ISM-524	10000.	10087.	86.8	.868	4.1979	.046	1

PDF created with pdfFactory trial version www.pdffactory.com



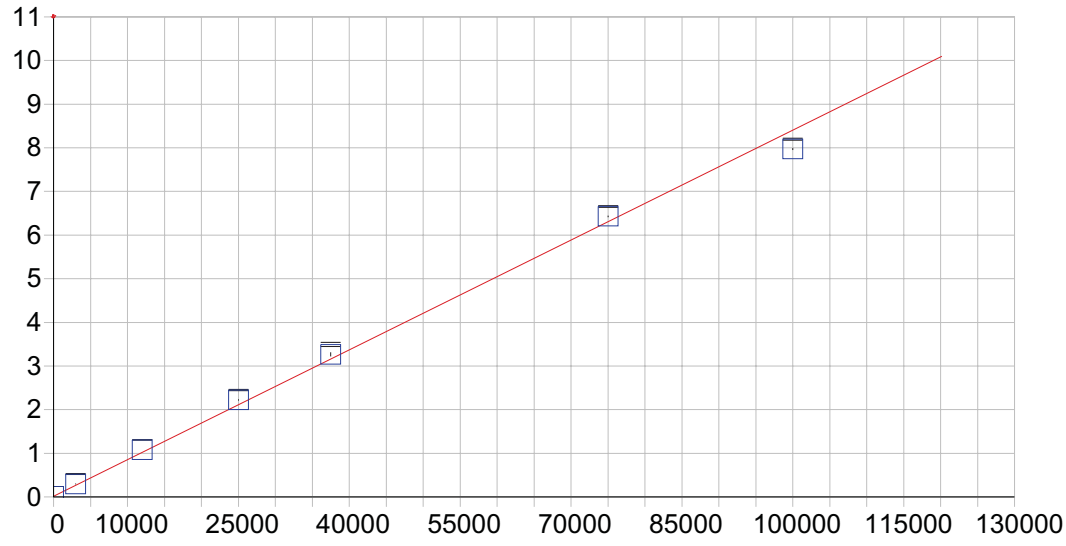
Mo 202.030 {467}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000647	Re-Slope:	1.000000
A1 (Gain):	0.000310	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.284501		
Predicted MQL:	0.948337		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00487	.005	.000	.00065	.000	1
S01 ISM-520	50.000	47.962	-2.04	-4.08	.01554	.000	1
S02 ISM-521	100.00	95.197	-4.80	-4.80	.03020	.000	1
S03 ISM-538	1000.0	980.18	-19.8	-1.98	.30496	.001	1
S04 ISM-523	1500.0	1487.8	-12.2	-.811	.46257	.001	1
S05 ISM-524	2000.0	2038.8	38.8	1.94	.63363	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



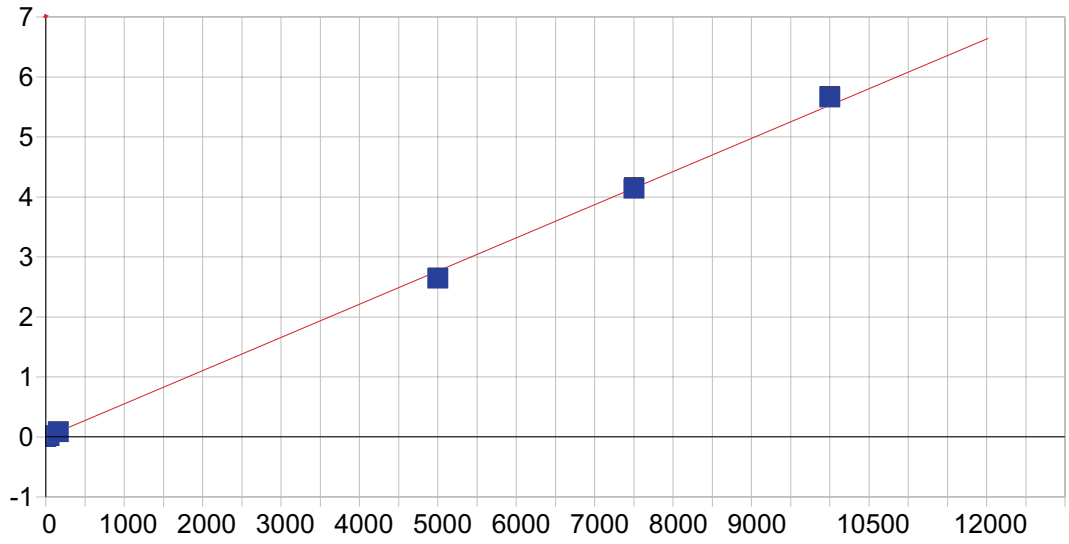
Na 589.592 { 57}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012000	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999010	Status:	OK.
Std Error of Est:	0.003844		
Predicted MDL:	22.751943		
Predicted MQL:	75.839810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.73411	-.734	.000	.01194	.000	1
S01 ISM-520	3000.0	3392.0	392.	13.1	.29668	.010	1
S02 ISM-521	12000.	12709.	709.	5.91	1.0786	.000	1
S03 ISM-538	25000.	26334.	1330.	5.34	2.2221	.013	1
S06 ISM-463	75000.	76448.	1450.	1.93	6.4279	.016	1
S08 ISM-465	37500.	38765.	1270.	3.37	3.2654	.047	1
S09 ISM-456	100000.	94852.	-5150.	-5.15	7.9724	.022	1

PDF created with pdfFactory trial version www.pdffactory.com



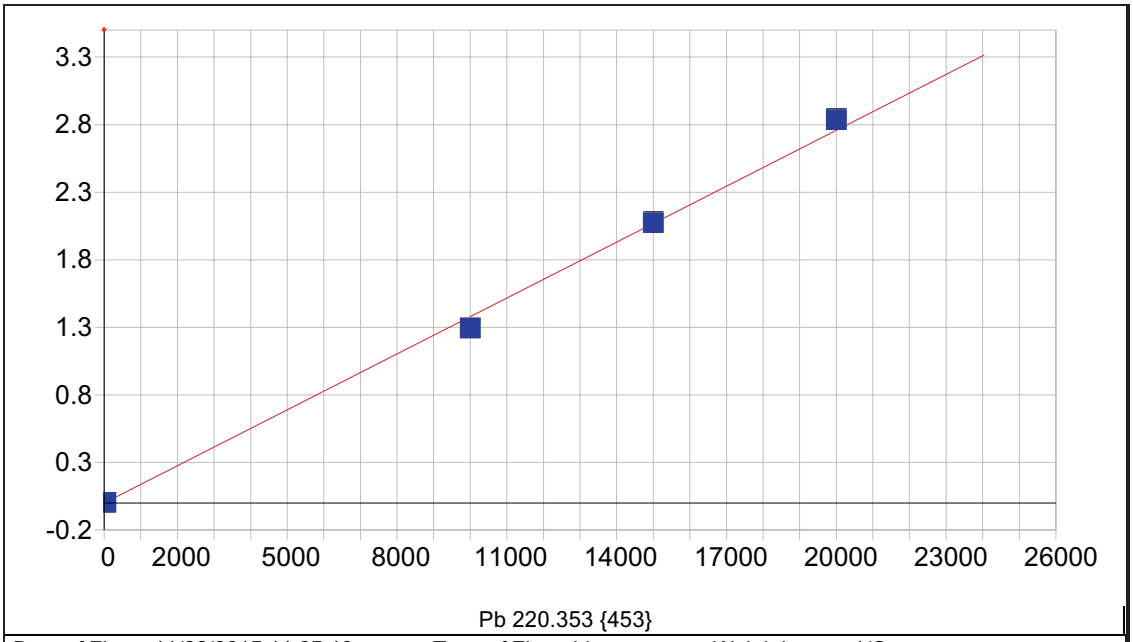
Ni 231.604 {445}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000617	Re-Slope:	1.000000
A1 (Gain):	0.000553	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.000545		
Predicted MDL:	0.296618		
Predicted MQL:	0.988726		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00395	.004	.000	-.00062	.000	1
S01 ISM-520	40.000	39.263	-.737	-1.84	.02110	.000	1
S02 ISM-521	160.00	150.57	-9.43	-5.89	.08267	.000	1
S03 ISM-538	5000.0	4778.2	-222.	-4.44	2.6417	.004	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	4.1423	.008	1
S05 ISM-524	10000.	10241.	241.	2.41	5.6636	.010	1

PDF created with pdfFactory trial version www.pdffactory.com



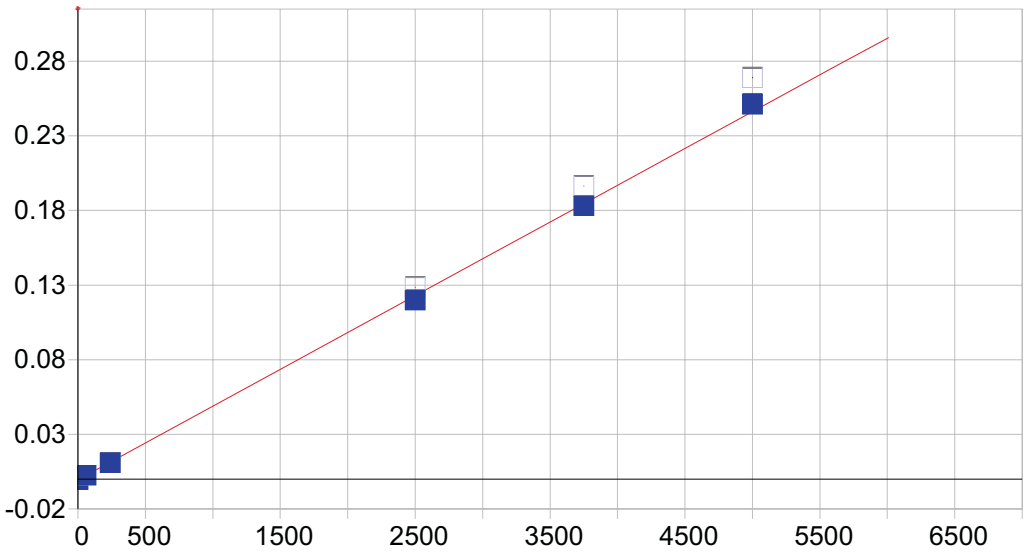
Pb 220.353 {453}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000187	Re-Slope:	1.000000
A1 (Gain):	0.000138	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999385	Status:	OK.
Std Error of Est:	0.000126		
Predicted MDL:	1.503113		
Predicted MQL:	5.010378		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00100	.001	.000	-.00019	.000	1
S01 ISM-520	10.000	10.457	.457	4.57	.00127	.000	1
S02 ISM-521	40.000	35.363	-4.64	-11.6	.00475	.000	1
S03 ISM-538	10000.	9381.1	-619.	-6.19	1.2970	.001	1
S04 ISM-523	15000.	15048.	48.2	.321	2.0758	.005	1
S05 ISM-524	20000.	20576.	576.	2.88	2.8384	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



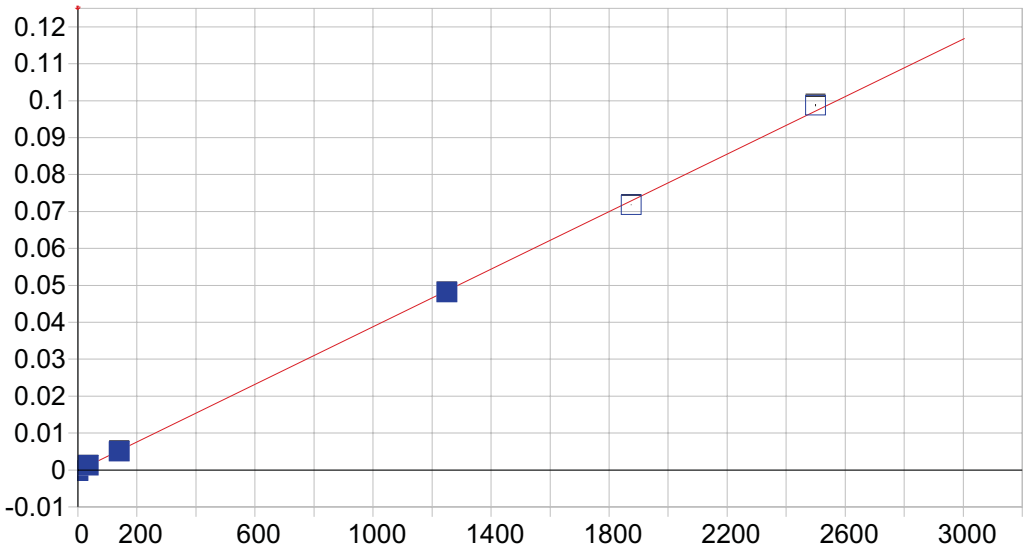
Sb 206.833 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000487	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999845	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	2.049779		
Predicted MQL:	6.832597		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00291	.003	.000	-.00049	.000	1
S01 ISM-520	60.000	59.956	-.044	-.074	.00246	.000	1
S02 ISM-521	240.00	231.64	-8.36	-3.49	.01095	.000	1
S03 ISM-538	2500.0	2438.1	-61.9	-2.48	.12864	.000	1
S04 ISM-523	3750.0	3719.2	-30.8	-.821	.19639	.000	1
S05 ISM-524	5000.0	5100.5	100.	2.01	.26899	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



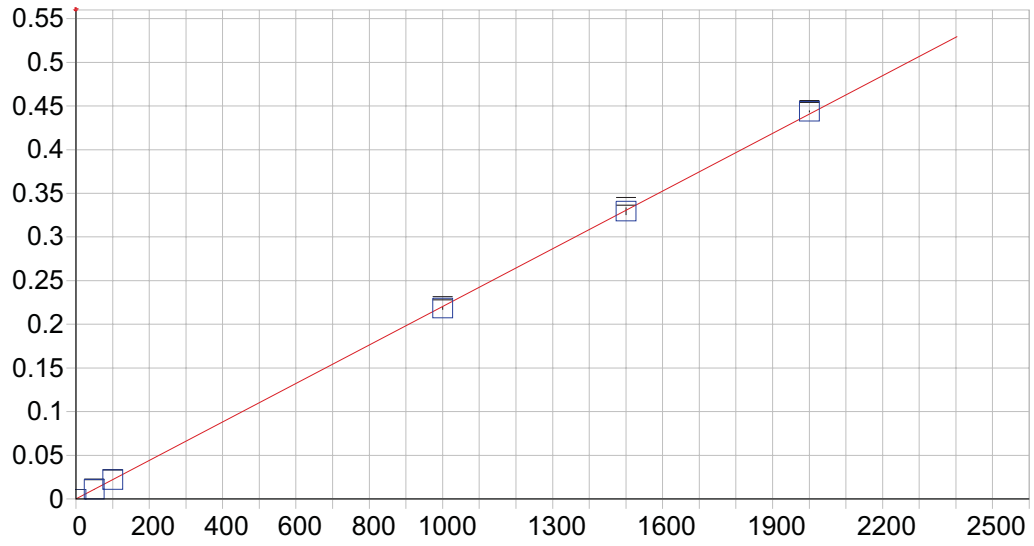
Se 196.090 {472}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000170	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	2.121056		
Predicted MQL:	7.070185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00034	.000	.000	-.00017	.000	1
S01 ISM-520	35.000	36.016	1.02	2.90	.00123	.000	1
S02 ISM-521	140.00	135.38	-4.62	-3.30	.00510	.000	1
S03 ISM-538	1250.0	1241.3	-8.70	-.696	.04819	.000	1
S04 ISM-523	1875.0	1847.8	-27.2	-1.45	.07181	.000	1
S05 ISM-524	2500.0	2539.5	39.5	1.58	.09875	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



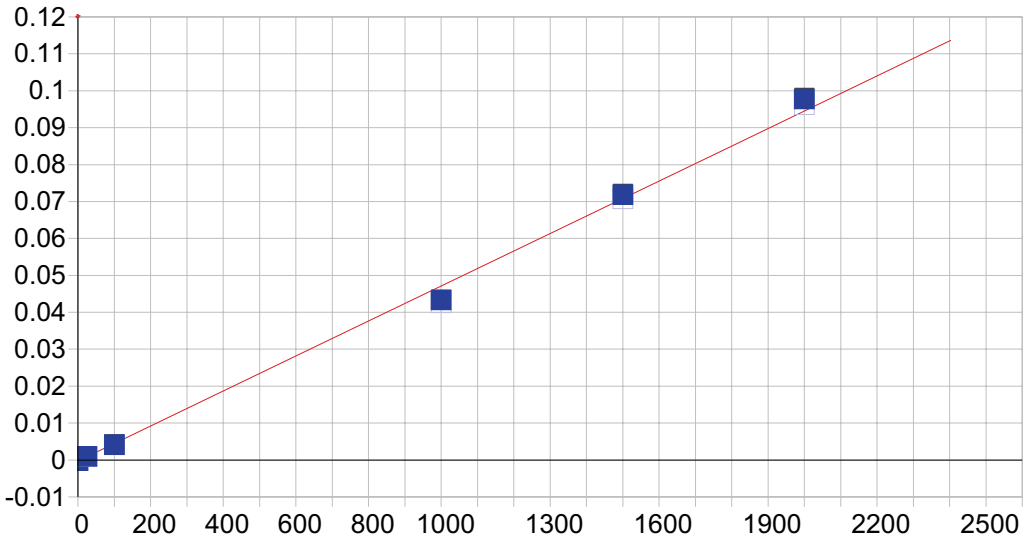
Ti 337.280 {100}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000104	Re-Slope:	1.000000
A1 (Gain):	0.000220	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.214352		
Predicted MQL:	0.714507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00066	.001	.000	.00010	.000	1
S01 ISM-520	50.000	49.920	-.080	-.161	.01110	.000	1
S02 ISM-521	100.00	99.346	-.654	-.654	.02199	.000	1
S03 ISM-538	1000.0	990.57	-9.43	-.943	.21829	.002	1
S04 ISM-523	1500.0	1495.6	-4.35	-.290	.32954	.004	1
S05 ISM-524	2000.0	2014.5	14.5	.726	.44382	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



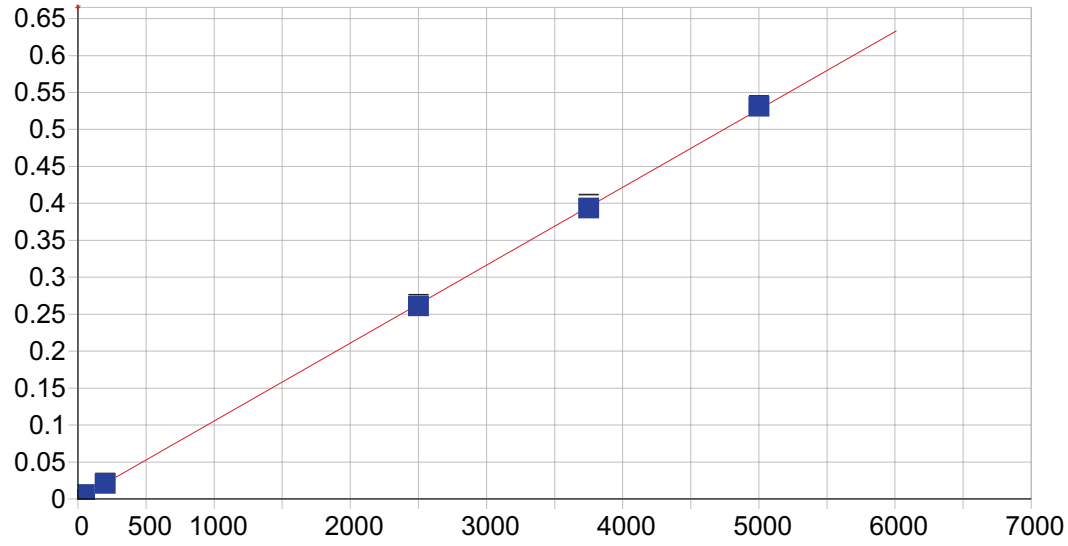
TI 190.856 {477}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000275	Re-Slope:	1.000000
A1 (Gain):	0.000047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998929	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	1.321381		
Predicted MQL:	4.404603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00253	.003	.000	-.00028	.000	1
S01 ISM-520	25.000	25.171	.171	.685	.00090	.000	1
S02 ISM-521	100.00	92.517	-7.48	-7.48	.00402	.000	1
S03 ISM-538	1000.0	919.37	-80.6	-8.06	.04255	.000	1
S04 ISM-523	1500.0	1520.6	20.6	1.37	.07067	.000	1
S05 ISM-524	2000.0	2067.3	67.3	3.37	.09620	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



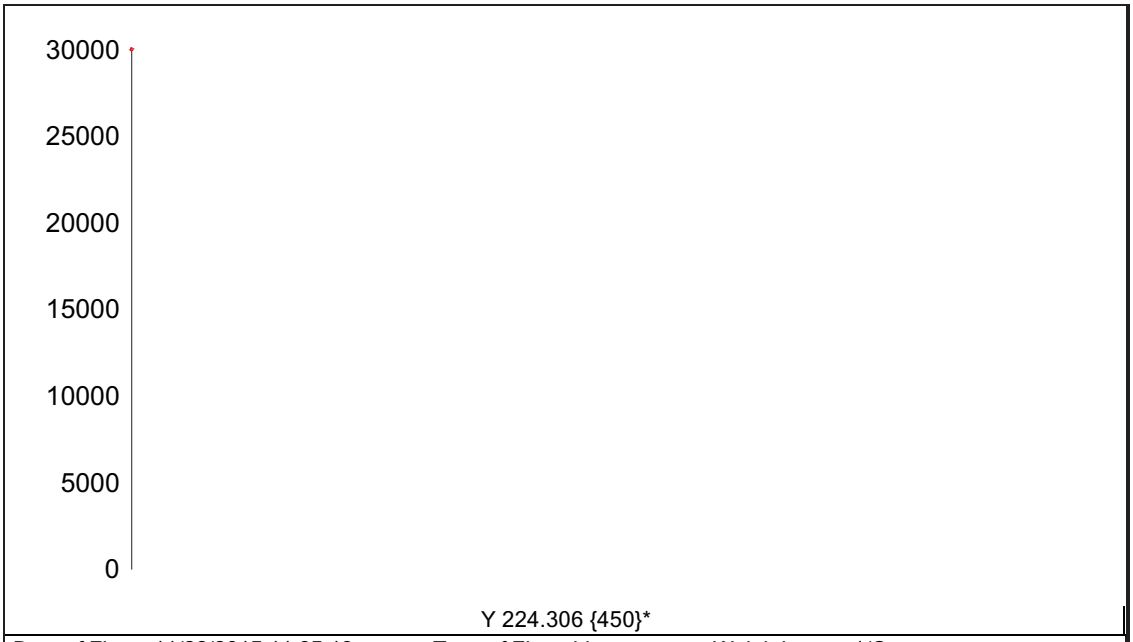
V 292.402 {115}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000072	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.337166		
Predicted MQL:	1.123886		

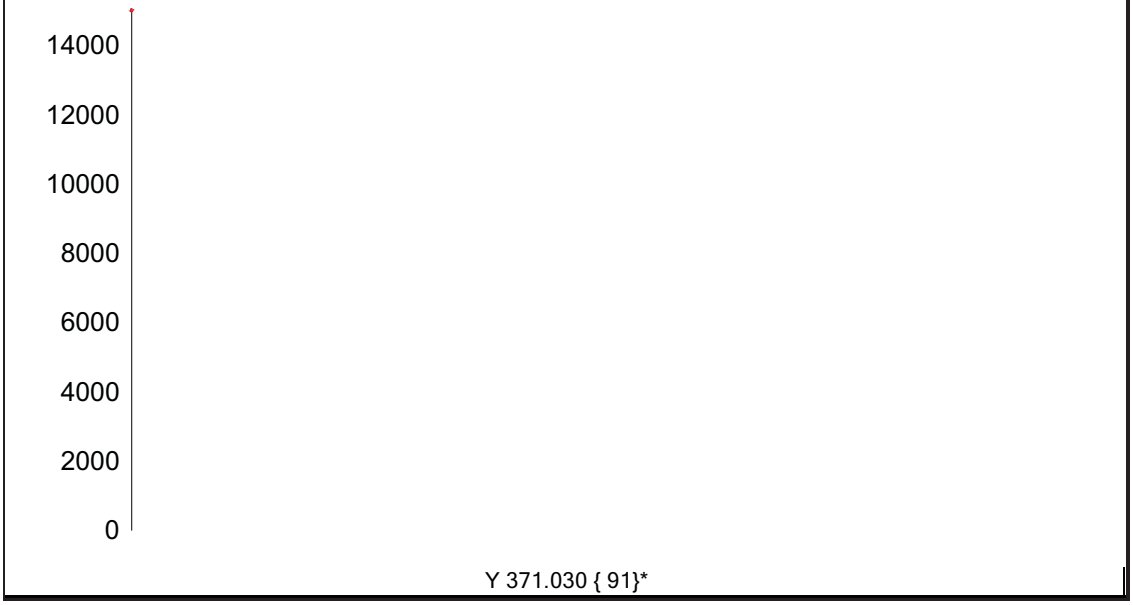
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.00007	.000	1
S01 ISM-520	50.000	50.886	.886	1.77	.00542	.000	1
S02 ISM-521	200.00	198.45	-1.55	-.775	.02095	.000	1
S03 ISM-538	2500.0	2477.4	-22.6	-.903	.26083	.002	1
S04 ISM-523	3750.0	3733.0	-17.0	-.452	.39298	.005	1
S05 ISM-524	5000.0	5040.2	40.2	.804	.53058	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

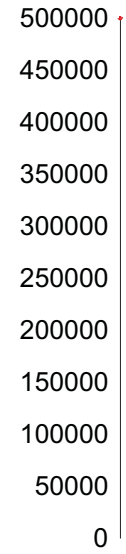
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	28348.	132.	1



PDF created with pdfFactory trial version www.pdffactory.com

Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	13646.	204.	1

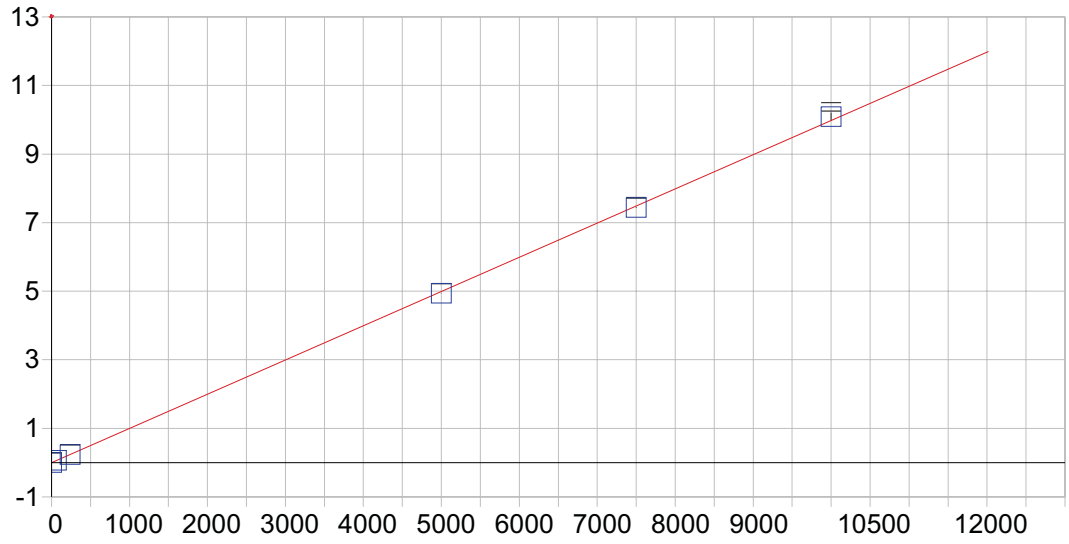


Y 371.030 { 91}2*

Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	410170.	6630.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000340	Re-Slope:	1.000000
A1 (Gain):	0.000998	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000441		
Predicted MDL:	0.103235		
Predicted MQL:	0.344117		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00125	.001	.000	-.00034	.000	1
S01 ISM-520	60.000	60.510	.510	.850	.06005	.000	1
S02 ISM-521	240.00	234.55	-5.45	-2.27	.23373	.001	1
S03 ISM-538	5000.0	4944.7	-55.3	-1.11	4.9344	.006	1
S04 ISM-523	7500.0	7453.5	-46.5	-.619	7.4382	.011	1
S05 ISM-524	10000.	10107.	107.	1.07	10.086	.122	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00004	.00317	-.00017	-.00117	.00086	.00656	-.0005
Stddev	.00004	.00043	.00002	.00052	.00001	.00046	.0002
%RSD	98.848	13.566	14.151	44.431	1.6657	7.0726	53.15
#1	.00008	.00268	-.00015	-.00148	.00087	.00652	-.0006
#2	.00001	.00335	-.00018	-.00057	.00086	.00611	-.0006
#3	.00002	.00349	-.00019	-.00146	.00085	.00704	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00046	.00018	-.00014	.00066	-.0058	-.0002	.00000
Stddev	.00019	.00003	.00003	.00027	.0020	.0004	.00002
%RSD	41.427	14.583	22.318	40.929	33.71	226.3	500.00
#1	.00064	.00015	-.00017	.00066	-.0058	-.0005	.00002
#2	.00047	.00019	-.00015	.00093	-.0039	-.0003	-.00001
#3	.00026	.00019	-.00011	.00039	-.0078	.0003	-.00001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00065	.01194	-.00062	-.00019	-.00049	-.00017	.0001
Stddev	.00007	.00050	.00026	.00015	.00003	.00003	.0000
%RSD	11.358	4.1814	41.737	79.998	7.0730	15.451	32.11
#1	.00056	.01177	-.00035	-.00035	-.00050	-.00015	.0001
#2	.00069	.01155	-.00063	-.00006	-.00051	-.00020	.0001
#3	.00069	.01250	-.00086	-.00015	-.00045	-.00016	.0001

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00028	.00007	-.00034
Stddev	.00000	.00001	.00002
%RSD	1.1533	19.900	5.8315
#1	-.00028	.00009	-.00033
#2	-.00027	.00007	-.00033
#3	-.00028	.00006	-.00036

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28348.	13646.	410170.
Stddev	132.	204.	6625.
%RSD	.46535	1.4975	1.6153
#1	28453.	13563.	413230.
#2	28392.	13878.	402570.
#3	28200.	13496.	414710.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00085	.00467	.00045	.42399	.01183	.49988	.0066
Stddev	.00005	.00039	.00007	.01566	.00038	.01856	.0003
%RSD	5.4475	8.4113	15.023	3.6941	3.1776	3.7126	4.434
#1	.00088	.00481	.00041	.41253	.01217	.48620	.0070
#2	.00087	.00422	.00041	.44183	.01189	.52101	.0065
#3	.00080	.00497	.00053	.41759	.01142	.49244	.0064

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04391	.00094	.00129	.00376	.1249	.0508	.00665
Stddev	.00019	.00004	.00004	.00045	.0048	.0020	.00024
%RSD	.43025	4.0228	2.9368	11.996	3.866	3.904	3.5461
#1	.04398	.00098	.00132	.00385	.1211	.0496	.00689
#2	.04370	.00093	.00131	.00416	.1303	.0531	.00664
#3	.04406	.00090	.00125	.00327	.1232	.0496	.00642

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01554	.29668	.02110	.00127	.00246	.00123	.0111
Stddev	.00007	.00993	.00013	.00012	.00012	.00006	.0004
%RSD	.47234	3.3455	.60987	9.4894	4.9501	5.1628	3.188
#1	.01562	.29003	.02121	.00132	.00259	.00118	.0115
#2	.01552	.30809	.02096	.00113	.00246	.00122	.0110
#3	.01547	.29191	.02114	.00136	.00234	.00130	.0108

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00090	.00542	.06005
Stddev	.00002	.00018	.00019
%RSD	1.7608	3.2817	.31357
#1	.00088	.00559	.06005
#2	.00091	.00542	.05986
#3	.00091	.00523	.06024

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28146.	13832.	408840.
Stddev	144.	543.	15544.
%RSD	.51307	3.9241	3.8021
#1	28028.	14343.	393320.
#2	28307.	13263.	408790.
#3	28104.	13891.	424410.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00326	.01027	.00223	1.6219	.04429	1.8853	.0274
Stddev	.00003	.00018	.00008	.0024	.00016	.0054	.0002
%RSD	1.0130	1.7562	3.4282	.14463	.37103	.28590	.8792
#1	.00327	.01021	.00227	1.6199	.04420	1.8801	.0276
#2	.00328	.01047	.00214	1.6245	.04448	1.8851	.0271
#3	.00322	.01012	.00227	1.6213	.04419	1.8908	.0275

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16620	.00310	.00541	.01181	.4913	.1927	.02544
Stddev	.00044	.00002	.00001	.00005	.0016	.0009	.00011
%RSD	.26684	.48665	.26811	.42069	.3159	.4485	.41548
#1	.16582	.00311	.00540	.01175	.4931	.1925	.02540
#2	.16608	.00311	.00541	.01184	.4905	.1919	.02557
#3	.16668	.00308	.00543	.01184	.4903	.1936	.02537

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03020	1.0786	.08267	.00475	.01095	.00510	.0220
Stddev	.00003	.0003	.00012	.00004	.00019	.00004	.0001
%RSD	.11312	.02825	.15116	.90971	1.6954	.69628	.2476
#1	.03020	1.0786	.08252	.00474	.01074	.00514	.0220
#2	.03024	1.0783	.08274	.00479	.01111	.00509	.0220
#3	.03017	1.0789	.08274	.00471	.01098	.00508	.0219

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00402	.02095	.23373
Stddev	.00006	.00009	.00066
%RSD	1.4581	.40603	.28239
#1	.00398	.02092	.23311
#2	.00400	.02105	.23367
#3	.00409	.02088	.23442

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27527.	13810.	393920.
Stddev	73.	103.	1791.
%RSD	.26560	.74901	.45456
#1	27473.	13814.	392370.
#2	27498.	13912.	393490.
#3	27610.	13705.	395880.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06067	.41909	.15263	20.771	2.1884	4.7239	1.504
Stddev	.00047	.00237	.00026	.643	.0310	.0337	.002
%RSD	.77039	.56531	.16940	3.0951	1.4166	.71320	.1123
#1	.06029	.41656	.15247	20.572	2.1735	4.6865	1.504
#2	.06119	.41947	.15249	20.251	2.2241	4.7336	1.502
#3	.06053	.42125	.15293	21.490	2.1677	4.7518	1.505

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.2234	.72199	.69350	.70548	.9335	.4848	2.0549
Stddev	.0055	.00611	.01280	.00428	.0046	.0032	.0334
%RSD	.12997	.84633	1.8459	.60623	.4959	.6601	1.6241
#1	4.2253	.71681	.69849	.70055	.9294	.4812	2.0369
#2	4.2172	.72873	.70305	.70766	.9326	.4861	2.0934
#3	4.2277	.72042	.67895	.70823	.9385	.4872	2.0344

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30496	2.2221	2.6417	1.2970	.12864	.04819	.2183
Stddev	.00062	.0127	.0042	.0012	.00015	.00004	.0018
%RSD	.20413	.57326	.16008	.09200	.11912	.09068	.8286
#1	.30517	2.2078	2.6451	1.2974	.12863	.04820	.2168
#2	.30426	2.2265	2.6370	1.2957	.12849	.04814	.2203
#3	.30545	2.2321	2.6430	1.2980	.12880	.04823	.2177

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04255	.26083	4.9344
Stddev	.00003	.00203	.0056
%RSD	.08092	.77811	.11327
#1	.04258	.25933	4.9366
#2	.04252	.26314	4.9280
#3	.04254	.26001	4.9385

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26224.	13550.	386950.
Stddev	10.	173.	2153.
%RSD	.03923	1.2753	.55651
#1	26217.	13634.	388670.
#2	26218.	13665.	384530.
#3	26235.	13351.	387640.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09252	.22633	30.661	3.1849	2.282	6.6253	1.0757
Stddev	.00111	.00024	.129	.0211	.004	.0110	.0087
%RSD	1.1983	.10615	.42072	.66207	.1765	.16521	.81272
#1	.09140	.22618	30.729	3.1987	2.281	6.6230	1.0703
#2	.09362	.22620	30.512	3.1954	2.279	6.6157	1.0858
#3	.09253	.22661	30.742	3.1606	2.287	6.6372	1.0711

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0869	3.1103	.46257	4.1423	2.0758	.19639	.07181
Stddev	.0119	.0354	.00062	.0078	.0053	.00021	.00011
%RSD	1.0955	1.1392	.13312	.18886	.25567	.10581	.15522
#1	1.0775	3.0760	.46214	4.1410	2.0761	.19638	.07174
#2	1.0830	3.1467	.46230	4.1351	2.0704	.19618	.07174
#3	1.1003	3.1081	.46328	4.1506	2.0810	.19660	.07194

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3295	.07067	.39298	7.4382
Stddev	.0044	.00021	.00513	.0108
%RSD	1.330	.30389	1.3057	.14513
#1	.3251	.07061	.38772	7.4360
#2	.3339	.07049	.39797	7.4288
#3	.3296	.07090	.39327	7.4500

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27032.	13844.	405350.
Stddev	86.	70.	2462.
%RSD	.31984	.50268	.60742
#1	27094.	13825.	408120.
#2	27070.	13921.	403430.
#3	26934.	13786.	404490.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12448	.31123	41.399	4.2975	3.134	9.0644	1.4552
Stddev	.00050	.00043	.683	.0607	.004	.0112	.0139
%RSD	.40063	.13687	1.6492	1.4128	.1397	.12385	.95591
#1	.12500	.31133	40.685	4.3653	3.131	9.0596	1.4593
#2	.12445	.31077	42.046	4.2481	3.133	9.0564	1.4667
#3	.12401	.31160	41.467	4.2791	3.139	9.0773	1.4398

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4535	4.1979	.63363	5.6636	2.8384	.26899	.09875
Stddev	.0271	.0461	.00116	.0099	.0053	.00032	.00030
%RSD	1.8672	1.0973	.18358	.17555	.18803	.12003	.30111
#1	1.4445	4.2490	.63324	5.6597	2.8340	.26887	.09862
#2	1.4839	4.1851	.63271	5.6562	2.8369	.26875	.09855
#3	1.4319	4.1595	.63494	5.6749	2.8444	.26936	.09909

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4438	.09620	.53058	10.086
Stddev	.0011	.00028	.00112	.122
%RSD	.2560	.29401	.21131	1.2069
#1	.4449	.09604	.53168	10.020
#2	.4440	.09604	.53061	10.227
#3	.4426	.09653	.52944	10.012

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26488.	14077.	405690.
Stddev	39.	35.	4261.
%RSD	.14737	.25151	1.0502
#1	26520.	14040.	401410.
#2	26499.	14111.	405730.
#3	26444.	14078.	409930.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S06 ISM-463 Acquired: 11/21/2015 14:18:46 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2196	13.858	2.0623	2.695	1.422	6.4279
Stddev	.0018	.005	.0007	.012	.003	.0160
%RSD	.15124	.03811	.03431	.4600	.2038	.24847
#1	1.2215	13.864	2.0626	2.707	1.422	6.4460
#2	1.2178	13.853	2.0629	2.695	1.419	6.4218
#3	1.2195	13.858	2.0615	2.682	1.425	6.4158

Int. Std.	Y_3710
Units	Cts/S
Avg	13621.
Stddev	138.
%RSD	1.0151
#1	13642.
#2	13748.
#3	13473.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S07 ISM-464 Acquired: 11/21/2015 14:23:30 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3970	26.544	4.0307	2.772
Stddev	.0024	.171	.0023	.003
%RSD	.09810	.64515	.05671	.1211
#1	2.3962	26.363	4.0300	2.772
#2	2.3951	26.703	4.0289	2.768
#3	2.3996	26.567	4.0333	2.775

Int. Std.	Y_3710
Units	Cts/S
Avg	13567.
Stddev	64.
%RSD	.47072
#1	13612.
#2	13494.
#3	13595.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S08 ISM-465 Acquired: 11/21/2015 14:28:19 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.344	3.2654
Stddev	.018	.0466
%RSD	1.345	1.4280
#1	1.358	3.3109
#2	1.323	3.2177
#3	1.350	3.2676

Int. Std.	Y_3710
Units	Cts/S
Avg	13506.
Stddev	264.
%RSD	1.9550
#1	13532.
#2	13756.
#3	13230.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S09 ISM-456 Acquired: 11/21/2015 14:33:01 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	7.9724
Stddev	.0220
%RSD	.27596
#1	7.9497
#2	7.9740
#3	7.9936

Int. Std.	Y_3710
Units	Cts/S
Avg	13868.
Stddev	86.
%RSD	.62318
#1	13772.
#2	13941.
#3	13890.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S10 ISM-457 Acquired: 11/21/2015 14:37:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2579
Stddev	.0005
%RSD	.2071
#1	.2574
#2	.2585
#3	.2578

Int. Std.	Y_3710
Units	Cts/S
Avg	13755.
Stddev	59.
%RSD	.42739
#1	13693.
#2	13809.
#3	13764.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.75	2739.3	1002.3	511.16	498.52	10784.	480.4
Stddev	7.03	38.3	2.2	1.34	5.58	20.	1.5
%RSD	1.4007	1.3966	.21829	.26131	1.1194	.18687	.3223
#1	509.44	2742.5	999.88	512.33	504.88	10801.	479.4
#2	495.66	2699.5	1002.8	509.70	494.46	10762.	479.5
#3	500.15	2775.8	1004.2	511.45	496.21	10790.	482.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484.15	503.91	487.89	5349.8	10630.	6444.	517.44
Stddev	1.24	7.58	6.77	26.7	51.	31.	6.99
%RSD	.25515	1.5038	1.3885	.49841	.4824	.4748	1.3515
#1	483.69	511.33	495.17	5368.5	10620.	6414.	524.68
#2	483.21	496.18	481.77	5319.3	10580.	6475.	510.72
#3	485.55	504.22	486.73	5361.6	10680.	6443.	516.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.61358	11005.	487.56	936.74	979.82	986.83	-.0233
Stddev	.27007	35.	1.01	4.74	2.24	2.70	.2181
%RSD	44.015	.32001	.20724	.50560	.22900	.27341	936.9
#1	-.50171	11032.	486.85	934.66	977.47	985.26	.2182
#2	-.41742	11018.	487.11	933.40	980.03	985.28	-.2062
#3	-.92160	10965.	488.71	942.16	981.95	989.94	-.0818
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	989.44	503.51	1003.1
Stddev	5.25	7.21	2.3
%RSD	.53040	1.4326	.23184
#1	985.77	510.77	1001.7
#2	987.10	496.35	1001.9
#3	995.45	503.40	1005.8
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28108.	14028.	407660.
Stddev	166.	16.	5168.
%RSD	.59154	.11120	1.2678
#1	28133.	14044.	402200.
#2	28261.	14027.	412480.
#3	27931.	14013.	408300.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10648	7.6703	-1.0825	.08966	.02754	-4.2645	-.0708
Stddev	.27688	15.470	.4528	.43327	.01287	5.4224	.1259
%RSD	260.02	201.69	41.831	483.26	46.743	127.15	177.8
#1	.08547	25.386	-1.4646	-.41057	.04185	-7.0936	-.1460
#2	-.15929	-3.1743	-.58232	.34719	.02387	-7.6872	.0745
#3	.39327	.79970	-1.2007	.33235	.01690	1.9874	-.1409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02844	.01948	.55733	6.0915	135.9	30.12	.06922
Stddev	.10499	.25529	.64717	8.6382	19.0	20.34	.03115
%RSD	369.11	1310.7	116.12	141.81	14.00	67.55	44.993
#1	-.05352	.30819	.27456	1.2554	119.7	52.67	.06790
#2	.08681	-.17641	1.2978	.95467	131.1	24.53	.03876
#3	-.11862	-.07334	.09967	16.065	156.8	13.15	.10101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55075	39.513	-.02246	-.70028	2.9715	1.9712	.0347
Stddev	.04981	17.876	.23836	1.2756	2.9035	.8829	.1818
%RSD	9.0438	45.241	1061.4	182.15	97.710	44.791	524.3
#1	-.49498	40.685	.07749	-.66731	5.6406	1.1168	-.1747
#2	-.59082	21.080	.14966	.55849	-.12000	2.8801	.1268
#3	-.56644	56.775	-.29452	-1.9920	3.3939	1.9167	.1519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29359	.12194	.05101
Stddev	.52720	.15816	.02389
%RSD	179.57	129.71	46.828
#1	-.56249	.00758	.07803
#2	-.63212	.05579	.03273
#3	.31385	.30244	.04226
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28483.	14121.	408960.
Stddev	261.	77.	4353.
%RSD	.91756	.54196	1.0644
#1	28784.	14189.	407770.
#2	28319.	14135.	405330.
#3	28345.	14038.	413780.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19525	264620.	-4.1707	8.3771	.23681	263050.	1.167
Stddev	.56683	5040.	1.6759	.2051	.01504	6863.	.093
%RSD	290.31	1.9045	40.184	2.4485	6.3520	2.6091	7.954
#1	-.37831	266620.	-2.8400	8.5859	.23160	257150.	1.271
#2	.20896	258890.	-3.6192	8.1759	.25377	261410.	1.091
#3	.75511	268360.	-6.0529	8.3695	.22507	270580.	1.139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53063	60.031	-3.8674	104020.	409.5	271600.	18.315
Stddev	.14166	.996	.1144	1964.	27.5	5110.	.285
%RSD	26.697	1.6588	2.9587	1.8879	6.711	1.882	1.5555
#1	-.67777	58.884	-3.9631	104790.	412.8	273700.	17.999
#2	-.51894	60.674	-3.8985	101790.	380.5	265700.	18.550
#3	-.39517	60.535	-3.7407	105480.	435.2	275300.	18.397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4251	128.87	2.9545	-.41139	4.7530	-.42710	3.403
Stddev	.2255	13.03	.3119	1.3800	.9673	3.0907	.044
%RSD	15.824	10.109	10.555	335.44	20.351	723.64	1.281
#1	1.5993	120.38	3.3064	-.39133	4.6992	-3.2981	3.397
#2	1.1704	122.36	2.8447	.95846	3.8137	2.8442	3.449
#3	1.5055	143.87	2.7125	-1.8013	5.7460	-.82748	3.362
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.0452	1.7814	1.2077
Stddev	1.7445	.1025	.0959
%RSD	85.296	5.7534	7.9446
#1	-3.6397	1.8103	1.2311
#2	-2.3141	1.8662	1.2897
#3	-.18192	1.6675	1.1022
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26051.	13326.	363290.
Stddev	93.	279.	4818.
%RSD	.35581	2.0907	1.3262
#1	25966.	13135.	368850.
#2	26150.	13646.	360700.
#3	26037.	13197.	360320.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.30	266680.	97.272	537.75	546.05	262490.	1014.
Stddev	.63	1169.	1.082	3.23	5.76	2306.	4.
%RSD	.29566	.43845	1.1122	.60008	1.0539	.87848	.4411
#1	214.98	265480.	97.449	535.87	542.28	262890.	1009.
#2	214.21	266730.	98.255	535.89	552.68	260010.	1016.
#3	213.72	267820.	96.113	541.47	543.20	264570.	1018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	468.23	580.02	505.74	104600.	319.0	273200.	553.54
Stddev	1.77	1.60	1.27	458.	16.3	1597.	1.66
%RSD	.37708	.27571	.25017	.43811	5.113	.5846	.30031
#1	466.38	579.97	507.13	104080.	336.6	271400.	554.63
#2	468.42	581.64	505.42	104800.	304.4	274600.	554.37
#3	469.90	578.44	504.66	104930.	316.0	273500.	551.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3507	110.95	936.47	45.525	596.72	51.011	3.529
Stddev	.0914	9.89	3.12	.923	2.73	2.255	.155
%RSD	6.7687	8.9168	.33267	2.0265	.45685	4.4208	4.378
#1	1.2507	122.34	933.05	46.589	594.10	53.261	3.373
#2	1.3713	105.99	937.21	44.965	599.54	48.751	3.682
#3	1.4301	104.51	939.14	45.020	596.52	51.019	3.532
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	88.622	518.84	982.22
Stddev	.885	1.36	3.60
%RSD	.99817	.26270	.36690
#1	89.314	520.20	978.50
#2	87.625	518.85	982.45
#3	88.926	517.47	985.70
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25544.	13203.	361410.
Stddev	116.	49.	1737.
%RSD	.45552	.36854	.48054
#1	25645.	13152.	361350.
#2	25569.	13249.	359700.
#3	25416.	13208.	363180.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	758.73	51855.	2498.2	9980.3	1047.3	52342.	986.8
Stddev	24.80	61.	9.1	257.1	28.1	178.	1.9
%RSD	3.2688	.11851	.36542	2.5758	2.6861	.33932	.1910
#1	761.52	51835.	2494.2	10171.	1045.5	52545.	986.1
#2	782.02	51924.	2491.7	9688.1	1076.3	52264.	985.4
#3	732.66	51805.	2508.6	10081.	1020.1	52216.	988.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4815.6	10266.	12235.	26034.	38710.	52420.	5040.0
Stddev	9.1	339.	416.	92.	30.	133.	94.7
%RSD	.18977	3.2978	3.3969	.35305	.0781	.2536	1.8781
#1	4810.1	10311.	12245.	26138.	38730.	52550.	5046.9
#2	4810.6	10579.	12646.	26001.	38720.	52410.	5131.0
#3	4826.2	9906.8	11815.	25963.	38670.	52290.	4942.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	983.50	26488.	4795.3	9450.5	2448.7	1244.7	1017.
Stddev	1.80	29.	10.3	21.4	10.9	3.6	34.
%RSD	.18263	.10996	.21494	.22670	.44344	.28914	3.303
#1	982.55	26522.	4789.3	9433.2	2445.2	1244.2	1023.
#2	982.38	26473.	4789.5	9443.7	2440.0	1241.4	1047.
#3	985.57	26469.	4807.2	9474.5	2460.8	1248.6	980.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	933.61	2553.1	4972.3
Stddev	2.45	85.3	8.6
%RSD	.26259	3.3429	.17363
#1	932.55	2569.0	4967.0
#2	931.88	2629.3	4967.7
#3	936.42	2460.9	4982.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26168.	13413.	381100.
Stddev	32.	198.	12202.
%RSD	.12315	1.4785	3.2019
#1	26204.	13184.	381450.
#2	26158.	13534.	368720.
#3	26142.	13521.	393120.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34962	-38.798	-.45699	.24415	.03099	-5.0739	.0174
Stddev	.34737	26.841	.45074	.54986	.01002	3.5076	.0439
%RSD	99.355	69.180	98.634	225.21	32.323	69.129	251.9
#1	.09722	-35.493	-.19911	.77732	.04238	-6.4361	-.0151
#2	.74580	-13.763	-.19440	.27613	.02706	-7.6960	.0674
#3	.20585	-67.139	-.97745	-.32100	.02353	-1.0896	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00421	-.12927	.09324	10.065	105.3	21.52	.07466
Stddev	.08100	.32455	.05558	8.256	73.5	14.88	.02163
%RSD	1923.8	251.06	59.610	82.021	69.80	69.16	28.973
#1	-.00526	.24326	.13876	.75927	77.11	11.59	.05429
#2	.08953	-.28020	.03130	12.928	50.09	38.63	.09736
#3	-.07164	-.35086	.10965	16.508	188.8	14.34	.07232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15305	8.2105	.21575	-1.2861	1.1014	.91784	-.0609
Stddev	.17253	27.320	.13198	.5238	.7677	1.0882	.1893
%RSD	112.73	332.74	61.174	40.726	69.703	118.56	310.9
#1	-.03956	30.354	.20833	-1.8342	.21800	.91352	-.0860
#2	.20528	16.597	.08763	-.79056	1.6070	2.0081	-.2364
#3	.29343	-22.319	.35128	-1.2336	1.4793	-.16815	.1397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.61410	.02812	.11982
Stddev	.28786	.03614	.03411
%RSD	46.875	128.52	28.463
#1	.74618	.05990	.15746
#2	.28391	.03565	.11104
#3	.81222	-.01119	.09097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28617.	13956.	404240.
Stddev	152.	576.	6778.
%RSD	.53066	4.1247	1.6768
#1	28443.	13758.	397190.
#2	28719.	13506.	404810.
#3	28691.	14605.	410710.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41330	-25.878	-.12370	.72306	.01748	-60.167	-.1098
Stddev	.38852	31.110	1.1307	.16300	.00904	3.806	.1616
%RSD	94.004	120.22	914.02	22.544	51.690	6.3256	147.2
#1	.52184	3.0522	1.0630	.56489	.01393	-58.405	.0247
#2	.73601	-21.900	-1.1884	.89050	.02775	-57.561	-.2891
#3	-.01795	-58.786	-.24573	.71378	.01076	-64.534	-.0650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16354	-.26254	.15540	8.1662	-20.92	13.45	.16716
Stddev	.14039	.07516	.60333	15.831	20.57	3.87	.05580
%RSD	85.846	28.628	388.24	193.85	98.31	28.77	33.384
#1	.13399	-.22684	-.39632	26.416	-13.00	9.495	.20801
#2	.31636	-.21188	.79964	-1.8625	-5.493	13.62	.10357
#3	.04027	-.34889	.06288	-.05479	-44.27	17.23	.18989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49469	-35.411	.06511	-.96039	.80194	1.9879	-.0118
Stddev	.26616	13.640	.15859	1.2852	.84152	1.7473	.0926
%RSD	53.804	38.519	243.59	133.82	104.94	87.895	782.9
#1	-.33994	-23.166	.14418	-.33077	.31992	1.3449	-.1144
#2	-.80203	-32.954	.16861	-.11142	.31226	3.9656	.0654
#3	-.34211	-50.112	-.11747	-2.4390	1.7736	.65326	.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.62619	-.12815	.32771
Stddev	1.3529	.23726	.06290
%RSD	216.05	185.14	19.194
#1	1.7234	.04321	.26377
#2	1.0406	-.39896	.32986
#3	-.88543	-.02872	.38951
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29662.	14298.	422490.
Stddev	126.	106.	1364.
%RSD	.42424	.73915	.32287
#1	29656.	14196.	424030.
#2	29540.	14407.	421970.
#3	29791.	14291.	421460.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.428	385.58	21.268	389.22	10.016	10340.	9.172
Stddev	.527	26.38	.410	2.98	.220	90.	.148
%RSD	2.5788	6.8414	1.9255	.76491	2.2002	.87069	1.619
#1	19.907	356.72	21.505	385.79	9.8358	10236.	9.343
#2	20.961	391.58	21.504	391.16	10.262	10392.	9.074
#3	20.417	408.44	20.795	390.70	9.9513	10392.	9.099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.729	20.190	47.367	219.64	10240.	10490.	30.876
Stddev	.139	.166	.720	5.55	56.	23.	.673
%RSD	.14712	.82358	1.5196	2.5279	.5481	.2221	2.1809
#1	94.879	20.002	46.853	213.44	10180.	10460.	30.288
#2	94.603	20.320	48.190	221.35	10260.	10500.	31.611
#3	94.704	20.247	47.059	224.14	10290.	10500.	30.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54793	10742.	75.300	17.304	120.16	71.296	.1423
Stddev	.22495	69.	.338	1.134	1.48	1.145	.2021
%RSD	41.055	.64563	.44881	6.5531	1.2318	1.6059	142.1
#1	-.37284	10665.	75.685	16.628	121.21	72.590	-.0330
#2	-.80164	10762.	75.166	18.613	118.47	70.417	.0965
#3	-.46932	10799.	75.050	16.670	120.80	70.880	.3634
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.550	97.747	117.52
Stddev	.430	2.563	.21
%RSD	.86765	2.6220	.17918
#1	49.557	95.422	117.76
#2	49.116	100.50	117.41
#3	49.976	97.324	117.38
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28768.	14306.	412360.
Stddev	87.	70.	7061.
%RSD	.30087	.48634	1.7123
#1	28681.	14355.	418120.
#2	28767.	14337.	404490.
#3	28854.	14227.	414480.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17276	89.939	.16119	16.904	.08930	45200.	-.0561
Stddev	.15793	54.658	.83200	.380	.01221	231.	.1355
%RSD	91.416	60.772	516.16	2.2472	13.673	.51018	241.3
#1	.26932	30.047	-.52149	16.480	.08300	44936.	-.0816
#2	.25846	102.65	1.0879	17.021	.08153	45299.	.0903
#3	-.00949	137.12	-.08286	17.212	.10337	45364.	-.1771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08492	.32499	.43099	232.50	1971.	12300.	67.656
Stddev	.15727	.17902	.42077	8.04	45.	98.	1.158
%RSD	185.20	55.085	97.628	3.4598	2.305	.8003	1.7123
#1	.09746	.41352	.91252	241.78	1919.	12200.	68.930
#2	.23554	.44250	.24628	228.20	2004.	12390.	67.369
#3	-.07824	.11895	.13417	227.52	1989.	12320.	66.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36204	36576.	.01460	.37891	2.1117	3.3380	.4186
Stddev	.16909	116.	.12162	.94583	.1047	2.3545	.0467
%RSD	46.705	.31600	832.78	249.62	4.9572	70.538	11.15
#1	-.43740	36474.	-.02829	.48276	2.0146	2.4871	.3821
#2	-.16837	36554.	.15186	-.61456	2.0978	1.5271	.4024
#3	-.48035	36702.	-.07976	1.2685	2.2226	5.9997	.4712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3316	-.05117	3.6436
Stddev	1.5050	.09580	.0410
%RSD	113.02	187.22	1.1257
#1	-.13611	-.04563	3.6791
#2	2.8713	.04174	3.5987
#3	1.2596	-.14962	3.6531
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27867.	13942.	400180.
Stddev	141.	204.	6315.
%RSD	.50503	1.4656	1.5781
#1	27946.	14150.	394590.
#2	27951.	13934.	398930.
#3	27705.	13742.	407030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.303%	102.17%	97.565%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47375	13.931	.88298	3.6443	.04041	9021.3	-.1066
Stddev	.34170	16.405	.24722	.5044	.01736	42.8	.1175
%RSD	72.126	117.76	27.999	13.841	42.967	.47469	110.3
#1	.41440	-4.6453	1.1157	4.0339	.03109	8975.5	.0126
#2	.16562	26.432	.62346	3.0746	.06044	9028.1	-.1100
#3	.84124	20.007	.90975	3.8245	.02969	9060.4	-.2223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05146	-.01142	-.04047	49.584	484.1	2477.	13.955
Stddev	.08241	.24337	.81040	8.786	46.7	35.	.644
%RSD	160.15	2130.4	2002.4	17.720	9.648	1.401	4.6177
#1	-.14512	.20217	.26718	52.452	485.4	2450.	13.522
#2	-.01918	.03993	.57105	56.578	530.1	2464.	14.696
#3	.00992	-.27638	-.95965	39.722	436.7	2516.	13.648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44157	7470.5	.14624	-.80614	1.6391	2.1090	.0692
Stddev	.23225	43.5	.19103	.89581	.6770	.7835	.0102
%RSD	52.596	.58276	130.63	111.12	41.302	37.150	14.79
#1	-.28993	7448.2	.19069	-1.0033	.86435	1.2529	.0608
#2	-.32583	7442.6	-.06310	.17185	1.9364	2.2836	.0806
#3	-.70894	7520.7	.31113	-1.5869	2.1166	2.7904	.0662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.11474	-.01160	.71736
Stddev	1.3851	.27494	.05823
%RSD	1207.2	2370.5	8.1169
#1	-.98682	-.01160	.65857
#2	1.4824	.26334	.71851
#3	-.83981	-.28653	.77501
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28789.	14072.	399740.
Stddev	293.	80.	16563.
%RSD	1.0178	.56573	4.1435
#1	28908.	13992.	408510.
#2	29004.	14151.	380640.
#3	28455.	14071.	410080.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.55%	103.12%	97.457%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23288	73.482	.34242	16.425	.09612	45289.	-.0943
Stddev	.17681	49.333	.16848	.871	.02002	183.	.0441
%RSD	75.922	67.136	49.203	5.3042	20.834	.40509	46.72
#1	.30457	61.826	.49521	15.723	.11916	45206.	-.0486
#2	.03149	31.021	.16173	16.152	.08295	45499.	-.1365
#3	.36258	127.60	.37032	17.400	.08624	45161.	-.0980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07368	.40689	.46759	237.85	1991.	12330.	67.602
Stddev	.16206	.06593	.46293	10.20	89.	97.	.910
%RSD	219.94	16.204	99.005	4.2875	4.444	.7874	1.3454
#1	.00206	.40846	.24049	246.06	1996.	12250.	68.630
#2	-.04022	.34018	.16205	241.06	1901.	12430.	67.276
#3	.25921	.47202	1.0002	226.44	2078.	12300.	66.901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29425	36710.	.26640	-.19630	-.24008	1.1440	.6266
Stddev	.39059	136.	.19319	1.0136	.72987	.3342	.2659
%RSD	132.74	.37052	72.520	516.35	304.01	29.213	42.44
#1	-.74517	36739.	.42862	-1.1860	.36580	1.3932	.6818
#2	-.06134	36829.	.31790	.83962	-.03569	1.2746	.8605
#3	-.07622	36562.	.05267	-.24256	-1.0504	.76425	.3374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2450	.25567	2.0199
Stddev	.5423	.04502	.1648
%RSD	24.157	17.610	8.1577
#1	2.8706	.23216	2.1672
#2	1.9572	.22726	1.8419
#3	1.9073	.30758	2.0505
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28157.	14221.	402020.
Stddev	123.	138.	4366.
%RSD	.43643	.97173	1.0860
#1	28031.	14061.	397100.
#2	28277.	14309.	405440.
#3	28164.	14291.	403530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.325%	104.21%	98.013%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.836	2124.1	38.656	1918.0	49.766	42629.	46.47
Stddev	.436	47.8	.798	5.7	.897	155.	.01
%RSD	.87528	2.2489	2.0653	.29941	1.8023	.36468	.0240
#1	49.765	2069.1	38.876	1912.7	49.224	42619.	46.47
#2	50.303	2154.1	37.770	1917.2	50.802	42479.	46.47
#3	49.439	2149.3	39.321	1924.1	49.273	42789.	46.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	464.17	197.09	231.10	1224.1	1911.	11690.	561.75
Stddev	1.27	3.64	4.48	15.5	40.	53.	10.55
%RSD	.27364	1.8471	1.9402	1.2699	2.093	.4554	1.8777
#1	462.79	195.15	227.61	1227.5	1887.	11640.	556.06
#2	465.29	201.29	236.15	1207.1	1890.	11680.	573.92
#3	464.41	194.84	229.53	1237.6	1958.	11740.	555.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54866	34726.	461.37	17.694	97.992	99.266	.8313
Stddev	.08112	73.	1.16	.467	.167	2.420	.3032
%RSD	14.786	.21092	.25220	2.6414	.17022	2.4376	36.47
#1	-.45718	34677.	460.26	17.255	97.929	96.594	.5546
#2	-.57695	34691.	462.58	18.185	97.866	99.897	1.155
#3	-.61185	34810.	461.26	17.641	98.181	101.31	.7840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.725	485.24	484.19
Stddev	.281	8.78	.82
%RSD	.58869	1.8102	.16887
#1	47.820	479.94	483.36
#2	47.946	495.38	484.99
#3	47.408	480.40	484.21
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27806.	14056.	399390.
Stddev	79.	128.	8610.
%RSD	.28342	.90964	2.1559
#1	27741.	14165.	404250.
#2	27894.	14088.	389450.
#3	27783.	13916.	404480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.086%	103.01%	97.372%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.851	421.61	19.942	401.26	10.094	53633.	9.249
Stddev	.272	44.27	1.017	2.11	.065	188.	.157
%RSD	1.3692	10.501	5.1012	.52653	.63976	.34993	1.699
#1	20.110	418.76	20.988	398.86	10.148	53420.	9.091
#2	19.876	378.83	18.956	402.84	10.113	53773.	9.250
#3	19.568	467.24	19.882	402.08	10.023	53708.	9.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.204	20.329	45.780	428.77	12150.	22230.	94.973
Stddev	.471	.242	.575	12.78	55.	82.	.762
%RSD	.50027	1.1886	1.2553	2.9815	.4519	.3683	.80270
#1	93.729	20.307	45.834	420.81	12140.	22150.	95.366
#2	94.211	20.581	45.180	421.99	12100.	22310.	95.458
#3	94.672	20.099	46.326	443.51	12210.	22240.	94.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19971	45313.	75.229	19.630	116.34	71.284	.7124
Stddev	.24229	107.	.300	.392	.73	1.205	.0774
%RSD	121.32	.23554	.39912	1.9971	.62606	1.6901	10.87
#1	.07866	45198.	74.919	20.082	115.51	71.815	.6237
#2	-.36311	45332.	75.252	19.426	116.65	69.905	.7469
#3	-.31468	45409.	75.518	19.383	116.86	72.133	.7665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.453	97.914	120.78
Stddev	.803	.410	.24
%RSD	1.6920	.41868	.19957
#1	46.527	98.257	120.54
#2	47.879	98.025	120.78
#3	47.953	97.460	121.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27692.	14101.	398620.
Stddev	127.	155.	1995.
%RSD	.45692	1.0991	.50058
#1	27546.	14220.	398270.
#2	27766.	13926.	396820.
#3	27764.	14157.	400760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.685%	103.34%	97.183%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27841	67.705	1.0903	14.263	.09578	40874.	-.0454
Stddev	.50970	5.030	1.6083	.410	.02038	113.	.3197
%RSD	183.08	7.4287	147.51	2.8780	21.278	.27754	703.8
#1	.30678	61.956	.29138	14.612	.11931	40773.	-.0470
#2	-.51663	69.866	.03786	13.811	.08340	40852.	.2750
#3	-.62537	71.293	2.9415	14.365	.08465	40997.	-.3643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10603	.25885	.33168	193.78	2068.	11200.	53.732
Stddev	.06871	.43896	.12701	5.13	34.	49.	.533
%RSD	64.802	169.58	38.295	2.6459	1.627	.4351	.99242
#1	.15992	.11216	.46758	193.22	2076.	11180.	54.344
#2	.12951	-.08798	.31148	199.16	2097.	11160.	53.373
#3	.02866	.75237	.21597	188.95	2031.	11250.	53.477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.50638	31546.	.07280	1.9358	1.2583	1.2599	.2914
Stddev	.39172	56.	.10882	.1433	1.3429	2.7765	.1025
%RSD	77.358	.17800	149.48	7.4010	106.72	220.38	35.16
#1	-.89668	31499.	.19359	2.0105	1.4952	4.3462	.1990
#2	-.50922	31532.	.04240	1.7706	-.18725	-1.0349	.4016
#3	-.11324	31608.	-.01759	2.0263	2.4669	.46828	.2736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8399	.23555	1.8348
Stddev	.4154	.42973	.0272
%RSD	22.576	182.44	1.4813
#1	1.6948	.09960	1.8281
#2	2.3084	.71681	1.8116
#3	1.5166	-.10976	1.8647
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27909.	13736.	399460.
Stddev	100.	216.	3069.
%RSD	.35896	1.5734	.76834
#1	28011.	13985.	395940.
#2	27905.	13628.	400860.
#3	27811.	13596.	401580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.450%	100.66%	97.388%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47617	59.477	.70369	14.765	.08859	41909.	-.1209
Stddev	.34823	60.486	2.0400	.106	.01429	106.	.1014
%RSD	73.131	101.70	289.89	.71989	16.125	.25306	83.88
#1	.58843	-2.9114	2.9417	14.792	.08041	41786.	-.2237
#2	.75442	63.481	.22115	14.854	.10509	41968.	-.1179
#3	.08566	117.86	-1.0517	14.647	.08028	41972.	-.0210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04564	.09198	.09806	156.45	2145.	11490.	42.268
Stddev	.04757	.16040	.89344	12.05	22.	38.	.428
%RSD	104.24	174.38	911.10	7.7041	1.037	.3304	1.0135
#1	.00692	-.01033	-.09908	151.13	2124.	11490.	41.773
#2	-.08575	.27684	-.68034	147.98	2168.	11460.	42.523
#3	-.05808	.00944	1.0736	170.25	2143.	11530.	42.508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36283	31839.	.09097	1.1526	.28516	2.2042	.2150
Stddev	.14170	148.	.15227	1.0476	2.3280	.5900	.1995
%RSD	39.055	.46578	167.38	90.896	816.40	26.768	92.79
#1	-.19923	31674.	.26584	2.2524	2.7357	2.4716	.3518
#2	-.44194	31880.	-.01234	1.0388	-1.8972	2.6133	.3070
#3	-.44731	31962.	.01942	.16643	.01699	1.5278	-.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3344	.00893	1.5870
Stddev	1.5643	.30617	.1285
%RSD	117.22	3429.0	8.0952
#1	-.01532	.31346	1.6341
#2	.96980	-.29885	1.6853
#3	3.0489	.01217	1.4416
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27765.	13918.	399520.
Stddev	78.	62.	2495.
%RSD	.28040	.44268	.62454
#1	27805.	13988.	401990.
#2	27815.	13897.	397000.
#3	27675.	13870.	399570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.942%	102.00%	97.403%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24246	60.964	.57350	15.176	.11043	43026.	-.2111
Stddev	.45125	39.088	1.4079	.402	.01325	144.	.2472
%RSD	186.11	64.117	245.49	2.6489	11.995	.33403	117.1
#1	.68737	45.534	1.0820	14.769	.12566	42876.	-.0141
#2	-.21486	31.946	1.6565	15.573	.10396	43038.	-.4884
#3	.25486	105.41	-1.0180	15.184	.10166	43163.	-.1306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10148	.27644	-.11129	184.56	2220.	11720.	53.922
Stddev	.17469	.44430	.52789	12.57	95.	84.	.843
%RSD	172.14	160.72	474.35	6.8104	4.285	.7137	1.5637
#1	-.06025	-.07856	.37476	170.97	2171.	11650.	54.244
#2	.28675	.13320	-.03574	195.76	2159.	11810.	52.965
#3	.07794	.77469	-.67288	186.96	2330.	11690.	54.556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37406	32583.	.13166	.37503	1.0445	1.1698	.5414
Stddev	.04762	90.	.20526	1.7945	2.2272	1.0430	.2638
%RSD	12.730	.27760	155.90	478.50	213.22	89.166	48.72
#1	-.42510	32498.	-.00677	2.4356	1.1530	.71411	.8318
#2	-.33083	32573.	.03427	-.46607	3.2155	.43211	.4760
#3	-.36623	32678.	.36749	-.84444	-1.2348	2.3631	.3165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.98166	-.16302	1.7072
Stddev	1.4272	.22744	.0331
%RSD	145.38	139.52	1.9359
#1	-.12327	-.42551	1.7437
#2	.47527	-.03920	1.6987
#3	2.5930	-.02435	1.6793
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27629.	13904.	393210.
Stddev	131.	144.	3201.
%RSD	.47258	1.0350	.81418
#1	27623.	14066.	392230.
#2	27763.	13793.	396790.
#3	27502.	13852.	390620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.462%	101.89%	95.865%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38104	-6.1397	-.59888	.12867	.02585	-43.514	-.1528
Stddev	.08760	20.199	.26350	.28987	.01749	1.920	.0383
%RSD	22.991	328.98	44.000	225.28	67.666	4.4127	25.04
#1	-.32223	-28.962	-.31089	.41026	.04605	-45.315	-.1296
#2	-.48172	1.1068	-.65781	.14456	.01567	-41.494	-.1969
#3	-.33917	9.4359	-.82792	-.16881	.01584	-43.735	-.1318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19167	-.00882	.27047	26.353	-67.18	20.19	1.1845
Stddev	.14063	.10266	.33486	10.803	35.13	16.33	.0701
%RSD	73.370	1164.5	123.81	40.994	52.29	80.88	5.9200
#1	.30476	-.11101	.00658	31.669	-76.75	22.08	1.2576
#2	.23603	.09431	.15766	13.922	-28.26	35.48	1.1782
#3	.03421	-.00975	.64717	33.469	-96.53	2.995	1.1178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63893	.57055	.20317	.12791	1.9323	-.61824	-.0306
Stddev	.17799	9.6825	.13409	.80381	.8294	.71913	.1110
%RSD	27.857	1697.1	65.997	628.43	42.921	116.32	363.2
#1	-.80226	-7.5945	.35782	-.66895	2.3993	-1.2251	.0350
#2	-.44923	11.267	.11941	.93850	2.4229	.17605	-.1587
#3	-.66531	-1.9613	.13227	.11417	.97472	-.80567	.0320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0839	-.06625	1.1096
Stddev	.8006	.01558	.0265
%RSD	73.864	23.511	2.3904
#1	.19394	-.05576	1.1329
#2	1.3122	-.05883	1.0808
#3	1.7457	-.08414	1.1152
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28834.	14186.	419130.
Stddev	55.	53.	6762.
%RSD	.18917	.37575	1.6135
#1	28892.	14241.	411630.
#2	28785.	14181.	420970.
#3	28824.	14135.	424770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.71%	103.96%	102.18%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107.07	2739.3	1019.7	526.50	519.74	10753.	510.1
Stddev	1.26	25.4	5.7	.40	4.98	3.	2.8
%RSD	1.1803	.92841	.56038	.07504	.95880	.03086	.5545
#1	108.46	2762.7	1014.6	526.18	523.46	10750.	507.7
#2	106.76	2742.9	1025.9	526.94	521.68	10752.	513.2
#3	105.99	2712.3	1018.6	526.38	514.08	10757.	509.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.01	532.13	503.93	10666.	10550.	6542.	538.85
Stddev	2.86	4.99	4.29	28.	48.	36.	5.21
%RSD	.56925	.93743	.85149	.26668	.4532	.5575	.96661
#1	499.45	536.47	506.66	10640.	10500.	6509.	543.13
#2	505.09	533.23	506.15	10697.	10560.	6534.	540.37
#3	501.47	526.68	498.98	10662.	10600.	6581.	533.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65374	11124.	501.26	956.49	1016.6	1047.4	-.0235
Stddev	.21687	22.	2.98	4.97	8.0	5.7	.1714
%RSD	33.173	.19799	.59432	.51937	.78551	.54691	730.0
#1	-.87522	11120.	498.42	952.48	1008.9	1044.0	.0799
#2	-.44181	11147.	504.36	962.05	1024.8	1054.0	-.2214
#3	-.64419	11103.	500.99	954.95	1016.0	1044.3	.0710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1013.7	515.68	1012.4
Stddev	4.6	4.53	5.2
%RSD	.45048	.87865	.51031
#1	1009.8	519.27	1008.5
#2	1018.7	517.18	1018.2
#3	1012.5	510.59	1010.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28071.	13774.	403690.
Stddev	126.	122.	5594.
%RSD	.44784	.88725	1.3858
#1	28077.	13744.	398200.
#2	27943.	13908.	403490.
#3	28194.	13669.	409380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.023%	100.94%	98.419%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.703	530.59	195.08	103.11	102.16	2097.3	94.63
Stddev	.269	28.11	.28	2.32	1.08	58.4	.04
%RSD	1.2379	5.2981	.14199	2.2492	1.0579	2.7867	.0389
#1	21.397	498.43	195.10	100.44	102.58	2032.6	94.67
#2	21.898	542.89	195.34	104.28	100.93	2112.9	94.61
#3	21.816	550.46	194.79	104.61	102.97	2146.3	94.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.110	105.71	101.32	2088.6	2099.	1303.	107.50
Stddev	.071	.76	1.09	44.3	48.	4.	.90
%RSD	.07206	.71436	1.0791	2.1231	2.303	.3383	.83939
#1	99.180	105.67	102.48	2037.6	2056.	1297.	107.91
#2	99.037	104.98	100.31	2109.5	2091.	1306.	106.46
#3	99.114	106.49	101.17	2118.6	2151.	1305.	108.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63638	2255.7	99.013	189.29	194.87	196.37	.0148
Stddev	.14490	66.2	.093	1.04	.64	.69	.1039
%RSD	22.769	2.9370	.09381	.55064	.32745	.35119	702.7
#1	-.49204	2179.3	98.981	188.23	195.14	197.13	.1260
#2	-.78183	2297.0	98.941	189.34	195.32	196.18	-.0798
#3	-.63527	2290.8	99.118	190.31	194.14	195.79	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	202.08	101.15	196.73
Stddev	.27	.82	.27
%RSD	.13393	.80811	.13775
#1	202.30	101.40	196.67
#2	201.78	100.23	196.49
#3	202.18	101.80	197.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28517.	14091.	406530.
Stddev	149.	320.	2296.
%RSD	.52390	2.2675	.56489
#1	28480.	14432.	403910.
#2	28390.	14042.	407450.
#3	28682.	13799.	408220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.60%	103.26%	99.111%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117.48	2578.9	960.11	496.06	500.85	10114.	478.9
Stddev	1.20	60.2	3.98	.94	1.45	35.	.7
%RSD	1.0179	2.3357	.41464	.18859	.29033	.34251	.1525
#1	116.15	2549.4	963.58	496.13	499.87	10100.	479.7
#2	118.47	2539.1	955.77	495.09	502.52	10089.	478.3
#3	117.83	2648.2	960.99	496.96	500.17	10153.	478.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.60	505.89	476.51	10036.	9976.	6172.	512.30
Stddev	1.22	4.57	4.59	19.	99.	22.	5.22
%RSD	.25766	.90260	.96314	.19177	.9898	.3560	1.0194
#1	473.74	501.71	472.29	10045.	10070.	6159.	507.85
#2	471.32	510.76	481.40	10014.	9877.	6198.	518.05
#3	472.74	505.21	475.83	10049.	9978.	6160.	511.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.70720	10558.	471.92	898.67	956.77	987.68	-.0216
Stddev	.13687	73.	.95	3.95	2.27	1.71	.0691
%RSD	19.353	.69235	.20042	.43911	.23686	.17320	320.0
#1	-.55998	10537.	473.01	903.22	959.19	989.14	.0390
#2	-.73104	10498.	471.36	896.65	956.44	985.80	-.0969
#3	-.83057	10639.	471.38	896.15	954.69	988.11	-.0069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	957.02	490.12	950.22
Stddev	3.15	5.47	2.02
%RSD	.32898	1.1157	.21241
#1	957.29	485.38	952.26
#2	953.74	496.10	948.22
#3	960.02	488.89	950.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28642.	14172.	408610.
Stddev	91.	52.	1818.
%RSD	.31789	.36862	.44489
#1	28702.	14126.	410520.
#2	28687.	14161.	406900.
#3	28538.	14229.	408390.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	103.86%	99.618%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126.79	4753.2	1033.2	2501.1	557.02	10396.	547.1
Stddev	2.08	74.6	2.3	8.4	12.84	36.	.8
%RSD	1.6371	1.5689	.22273	.33669	2.3044	.35072	.1438
#1	129.18	4721.2	1030.6	2491.4	570.58	10355.	546.3
#2	125.46	4700.0	1034.7	2506.1	545.06	10412.	547.8
#3	125.73	4838.5	1034.5	2505.8	555.42	10422.	547.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	976.04	721.23	731.62	11356.	10270.	6331.	1039.8
Stddev	.64	11.52	12.16	38.	54.	81.	17.1
%RSD	.06525	1.5977	1.6618	.33686	.5230	1.283	1.6467
#1	975.77	734.43	745.62	11312.	10240.	6242.	1059.5
#2	976.77	713.20	723.62	11370.	10330.	6348.	1029.5
#3	975.59	716.05	725.64	11385.	10240.	6402.	1030.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.90097	10847.	968.86	947.61	1089.6	1117.4	-.0822
Stddev	.05756	22.	.60	2.00	1.3	1.9	.1666
%RSD	6.3888	.20245	.06237	.21072	.12110	.17231	202.7
#1	-.83527	10827.	968.16	945.59	1089.8	1115.6	-.2719
#2	-.92507	10843.	969.26	949.58	1090.9	1119.4	-.0148
#3	-.94256	10870.	969.14	947.67	1088.3	1117.2	.0402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1038.2	1002.5	1482.8
Stddev	2.7	16.2	.9
%RSD	.26078	1.6146	.06164
#1	1039.5	1021.2	1483.6
#2	1039.9	992.44	1483.0
#3	1035.0	993.98	1481.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28744.	14148.	413700.
Stddev	76.	142.	7141.
%RSD	.26341	1.0018	1.7261
#1	28656.	14309.	405450.
#2	28792.	14042.	418010.
#3	28782.	14092.	417630.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.39%	103.68%	100.86%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121.42	3049.3	1009.4	903.57	524.48	20880.	499.2
Stddev	1.09	22.1	1.6	1.62	3.47	22.	.7
%RSD	.89629	.72445	.16006	.17948	.66181	.10321	.1317
#1	120.68	3032.4	1007.5	903.66	522.12	20880.	499.6
#2	120.90	3041.2	1010.4	901.90	522.86	20858.	498.5
#3	122.67	3074.3	1010.1	905.14	528.47	20901.	499.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	576.38	533.94	530.40	10404.	20560.	16920.	549.89
Stddev	.66	4.47	3.97	34.	56.	73.	4.94
%RSD	.11442	.83759	.74938	.32331	.2738	.4292	.89905
#1	577.12	528.83	525.84	10366.	20590.	16980.	544.26
#2	575.86	535.80	533.17	10417.	20490.	16840.	551.90
#3	576.16	537.17	532.18	10429.	20580.	16950.	553.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.87357	21424.	556.21	924.29	1097.7	1082.2	.1987
Stddev	.23116	10.	.56	1.71	.6	.9	.0517
%RSD	26.461	.04526	.10075	.18475	.05507	.08327	25.99
#1	-1.1402	21413.	556.15	925.79	1097.3	1082.4	.2276
#2	-.75009	21426.	555.68	924.66	1098.4	1083.0	.1391
#3	-.73037	21432.	556.80	922.43	1097.3	1081.3	.2295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1004.9	602.79	1092.9
Stddev	4.6	5.52	.9
%RSD	.45779	.91578	.08660
#1	1009.7	596.41	1094.0
#2	1004.6	605.90	1092.3
#3	1000.5	606.05	1092.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28610.	14256.	409520.
Stddev	57.	187.	3251.
%RSD	.19751	1.3113	.79380
#1	28570.	14087.	413260.
#2	28585.	14223.	407890.
#3	28675.	14457.	407410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.92%	104.47%	99.841%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62628	-12.951	2.2858	.39854	.04970	-31.541	-.1924
Stddev	.31606	31.055	1.0208	.40946	.01575	4.576	.0435
%RSD	50.467	239.80	44.658	102.74	31.694	14.508	22.60
#1	.26208	18.310	3.2619	.86029	.03333	-36.530	-.1750
#2	.78792	-13.366	1.2256	.25565	.05102	-30.554	-.1604
#3	.82882	-43.796	2.3697	.07967	.06475	-27.539	-.2419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01075	.94002	.13397	58.281	4.974	21.56	1.6130
Stddev	.04497	.13136	.09941	7.483	43.90	18.60	.0368
%RSD	418.38	13.974	74.208	12.840	882.7	86.30	2.2799
#1	.05460	.99086	.20737	66.576	15.66	37.61	1.6321
#2	.01291	1.0384	.02083	56.230	42.55	1.171	1.6362
#3	-.03526	.79084	.17371	52.037	-43.28	25.89	1.5706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64156	26.855	1.1702	.75154	1.5581	1.9316	.4377
Stddev	.11019	10.198	.2632	1.2090	1.2419	1.1702	.1011
%RSD	17.175	37.975	22.494	160.87	79.709	60.579	23.09
#1	-.76815	32.482	1.1311	-.42880	1.1261	.90228	.5293
#2	-.58938	15.083	1.4508	.69617	2.9583	3.2043	.3293
#3	-.56716	32.999	.92871	1.9873	.58987	1.6882	.4544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3927	.17673	5.1891
Stddev	.8847	.43238	.0512
%RSD	36.974	244.65	.98769
#1	1.4236	.65566	5.1472
#2	3.1571	-.18490	5.1739
#3	2.5975	.05944	5.2462
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28869.	14195.	411430.
Stddev	66.	127.	5477.
%RSD	.22864	.89150	1.3313
#1	28926.	14143.	417090.
#2	28885.	14340.	406150.
#3	28797.	14104.	411060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.84%	104.03%	100.31%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27539	44.196	-.13871	-.00578	.02900	-1.9810	-.0721
Stddev	.32747	17.164	.83770	.12494	.01495	4.3780	.1657
%RSD	118.91	38.836	603.93	2160.9	51.537	221.00	229.7
#1	.32801	41.367	-.73407	-.08073	.02296	-.58541	.0358
#2	-.07520	62.599	-.50125	.13845	.04602	-6.8867	.0107
#3	.57336	28.623	.81920	-.07507	.01802	1.5291	-.2629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02446	.12539	-.14352	15.552	58.03	9.267	.37077
Stddev	.01049	.34159	.25350	5.303	9.71	6.109	.02662
%RSD	42.899	272.41	176.63	34.096	16.72	65.92	7.1808
#1	.01287	-.00176	.10682	16.434	68.19	16.16	.37491
#2	.03332	.51232	-.40007	9.8640	57.04	7.100	.39508
#3	.02718	-.13438	-.13732	20.359	48.86	4.537	.34232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53172	37.882	.18131	-.91312	1.3520	2.8671	.1133
Stddev	.19804	25.108	.07981	1.4398	1.7466	.8039	.1803
%RSD	37.246	66.278	44.019	157.68	129.18	28.041	159.2
#1	-.72326	9.8870	.21311	-2.5497	.91207	2.3544	.2018
#2	-.32776	45.355	.09050	.15890	3.2765	2.4532	-.0942
#3	-.54413	58.406	.24031	-.34859	-.13253	3.7936	.2321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.01753	-.12014	1.0947
Stddev	.76454	.16016	.0702
%RSD	4360.5	133.31	6.4134
#1	.37096	-.30420	1.1247
#2	.47475	-.01250	1.0145
#3	-.89831	-.04373	1.1450
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28340.	13664.	409180.
Stddev	149.	66.	9225.
%RSD	.52681	.48550	2.2546
#1	28416.	13678.	410260.
#2	28168.	13721.	399470.
#3	28436.	13591.	417820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.969%	100.13%	99.759%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12527	65.744	1.8819	.20715	.03172	-18.425	-.2234
Stddev	.09302	24.652	.6219	.47369	.00863	4.162	.0384
%RSD	74.255	37.496	33.047	228.67	27.198	22.586	17.20
#1	.21014	73.571	2.5998	.73544	.02804	-23.211	-.2234
#2	.02583	85.532	1.5087	-.17972	.04158	-15.659	-.1850
#3	.13984	38.129	1.5371	.06572	.02554	-16.406	-.2619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01832	.62440	.75216	35.616	-49.78	-1.942	1.4920
Stddev	.07193	.18962	.55055	.573	27.75	10.02	.0501
%RSD	392.67	30.368	73.195	1.6088	55.74	516.0	3.3568
#1	.05926	.65886	1.0773	35.697	-74.95	9.552	1.4788
#2	-.03143	.79443	.11650	35.006	-54.38	-8.844	1.5473
#3	-.08278	.41992	1.0627	36.144	-20.02	-6.534	1.4498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45951	11.098	1.1404	1.2608	2.0867	.98908	.2469
Stddev	.16974	11.903	.1666	.4478	1.4488	1.0651	.1496
%RSD	36.941	107.25	14.608	35.517	69.432	107.68	60.58
#1	-.43360	-1.1286	1.3286	1.0509	3.6697	.99602	.2185
#2	-.64071	11.776	1.0118	1.7750	1.7639	2.0507	.4086
#3	-.30420	22.648	1.0809	.95650	.82645	-.07945	.1136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2678	-.00098	4.9934
Stddev	.9629	.30737	.1865
%RSD	75.956	31305.	3.7343
#1	1.9242	-.34867	5.2084
#2	.16231	.23462	4.8755
#3	1.7168	.11110	4.8963
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28847.	14201.	416100.
Stddev	41.	232.	8008.
%RSD	.14071	1.6313	1.9245
#1	28889.	14468.	415820.
#2	28808.	14057.	408240.
#3	28843.	14077.	424250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.76%	104.07%	101.45%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.935	2240.2	41.146	2027.1	50.865	-29.696	48.47
Stddev	1.287	52.8	.439	4.1	.581	2.901	.23
%RSD	2.4305	2.3553	1.0677	.20045	1.1427	9.7704	.4719
#1	54.274	2243.3	40.816	2022.4	51.477	-30.875	48.68
#2	51.707	2291.3	40.977	2029.2	50.321	-31.823	48.51
#3	52.825	2185.9	41.645	2029.7	50.797	-26.391	48.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	495.42	207.92	251.68	1103.2	-85.02	-6.247	537.76
Stddev	.07	2.40	2.33	6.8	33.87	23.41	5.86
%RSD	.01348	1.1527	.92579	.61482	39.84	374.7	1.0890
#1	495.46	210.62	254.06	1098.9	-86.62	-28.41	544.32
#2	495.35	206.06	249.40	1111.0	-118.1	-8.559	533.05
#3	495.47	207.06	251.59	1099.7	-50.38	18.23	535.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.92854	-1.2012	495.83	20.572	101.11	100.94	.2328
Stddev	.08491	1.4890	.23	.708	.59	.92	.0353
%RSD	9.1445	123.96	.04643	3.4395	.57910	.91580	15.15
#1	-.88630	.51737	495.56	21.388	100.49	101.78	.2081
#2	-.87304	-2.0139	495.95	20.201	101.65	99.951	.2732
#3	-1.0263	-2.1070	495.97	20.127	101.19	101.08	.2171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	52.362	498.12	505.59
Stddev	.460	5.71	.11
%RSD	.87928	1.1461	.02196
#1	51.892	504.13	505.47
#2	52.813	492.77	505.62
#3	52.380	497.46	505.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29220.	14280.	417000.
Stddev	21.	46.	4057.
%RSD	.07025	.32418	.97290
#1	29243.	14318.	412670.
#2	29202.	14228.	417610.
#3	29216.	14294.	420720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.08%	104.65%	101.66%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.275	471.01	21.193	387.46	10.063	10257.	9.145
Stddev	.754	40.18	.910	1.76	.097	63.	.023
%RSD	3.7206	8.5314	4.2961	.45503	.96056	.61668	.2466
#1	19.851	448.89	20.436	385.52	9.9519	10191.	9.133
#2	21.146	446.75	22.204	387.91	10.108	10317.	9.171
#3	19.827	517.40	20.941	388.96	10.129	10262.	9.131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.033	21.281	48.067	240.04	10270.	10350.	32.193
Stddev	.154	.402	.484	7.21	49.	100.	.345
%RSD	.16219	1.8879	1.0078	3.0032	.4760	.9636	1.0725
#1	94.895	20.828	47.516	232.21	10220.	10240.	31.794
#2	95.199	21.418	48.429	246.39	10260.	10430.	32.382
#3	95.003	21.596	48.254	241.52	10320.	10380.	32.402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55158	10733.	77.000	19.109	117.63	71.701	.5166
Stddev	.24902	49.	.197	.303	2.70	1.179	.0655
%RSD	45.147	.45635	.25640	1.5850	2.2951	1.6445	12.67
#1	-.46440	10689.	76.779	18.763	115.36	70.410	.5877
#2	-.35787	10726.	77.060	19.236	116.92	71.970	.4589
#3	-.83247	10786.	77.160	19.328	120.62	72.722	.5030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.169	98.616	122.23
Stddev	.634	.742	.10
%RSD	1.2895	.75235	.08138
#1	49.619	97.761	122.31
#2	49.443	98.998	122.12
#3	48.444	99.089	122.26
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28426.	13998.	405530.
Stddev	59.	111.	6558.
%RSD	.20775	.79452	1.6171
#1	28416.	13958.	412990.
#2	28372.	14123.	400680.
#3	28489.	13911.	402910.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.27%	102.58%	98.868%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	738.96	50713.	2485.7	9999.2	1005.3	51579.	983.2
Stddev	10.21	188.	5.1	411.3	13.4	75.	1.1
%RSD	1.3812	.37025	.20667	4.1129	1.3332	.14538	.1119
#1	731.58	50516.	2482.7	9537.4	1005.4	51493.	982.7
#2	734.69	50891.	2491.6	10326.	991.88	51627.	982.5
#3	750.61	50733.	2482.8	10134.	1018.7	51618.	984.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4809.2	9987.7	11924.	25502.	38340.	51370.	4906.2
Stddev	3.8	144.7	234.	5.	275.	92.	81.3
%RSD	.07798	1.4490	1.9652	.01959	.7167	.1787	1.6578
#1	4805.5	9885.5	11987.	25506.	38040.	51290.	4841.4
#2	4809.3	9924.2	11665.	25496.	38580.	51340.	4879.7
#3	4813.0	10153.	12120.	25504.	38400.	51470.	4997.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.52	26367.	4774.9	9401.1	2446.9	1237.7	988.4
Stddev	1.41	76.	1.9	9.5	1.3	2.0	14.3
%RSD	.14335	.28640	.03940	.10096	.05228	.16168	1.448
#1	979.74	26295.	4772.8	9390.2	2447.6	1237.9	978.5
#2	979.67	26446.	4775.7	9405.7	2445.4	1235.6	981.9
#3	982.14	26362.	4776.3	9407.5	2447.7	1239.5	1005.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	924.93	2479.4	4952.8
Stddev	3.17	36.6	4.0
%RSD	.34273	1.4757	.08065
#1	921.43	2453.8	4949.1
#2	927.59	2463.0	4957.0
#3	925.78	2521.3	4952.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26497.	13637.	391780.
Stddev	9.	301.	4977.
%RSD	.03381	2.2052	1.2704
#1	26507.	13981.	392370.
#2	26489.	13423.	396440.
#3	26496.	13507.	386540.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25311	36.013	.22104	-.19056	.02473	-9.9427	-.1196
Stddev	.20765	31.420	.50284	.54072	.00418	2.5697	.0283
%RSD	82.041	87.246	227.49	283.75	16.907	25.845	23.70
#1	.36140	68.848	.48689	-.14057	.02377	-12.831	-.1489
#2	.38424	6.2301	.53515	-.75455	.02112	-9.0867	-.0923
#3	.01369	32.962	-.35893	.32343	.02932	-7.9103	-.1177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09040	.08846	.70640	11.861	86.50	20.89	.05889
Stddev	.09616	.31198	.52547	.763	33.36	20.90	.04215
%RSD	106.38	352.67	74.387	6.4316	38.57	100.1	71.567
#1	.18522	.23685	1.1434	12.732	63.83	16.58	.01087
#2	.09303	.29856	.12336	11.538	70.86	43.61	.07605
#3	-.00706	-.27002	.85245	11.312	124.8	2.482	.08975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13046	17.901	.15960	-.56311	.07534	.36022	-.0104
Stddev	.04854	19.190	.01494	.89467	1.6581	1.7154	.1736
%RSD	37.210	107.20	9.3634	158.88	2200.9	476.20	1666.
#1	.16286	18.011	.14339	.26232	-1.3487	-.82922	.0627
#2	.15388	37.036	.17283	-1.5138	1.8957	-.41671	-.2086
#3	.07465	-1.3442	.16257	-.43784	-.32096	2.3266	.1146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29869	.09040	-.00011
Stddev	.69172	.15873	.02002
%RSD	231.58	175.58	18709.
#1	-.66398	.24370	.02186
#2	.49909	.10075	-.00486
#3	-.73119	-.07325	-.01732
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28338.	13935.	409770.
Stddev	138.	74.	10352.
%RSD	.48581	.52906	2.5263
#1	28497.	13856.	412820.
#2	28257.	14002.	398240.
#3	28261.	13947.	418260.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89825-001 Acquired: 11/21/2015 17:02:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02034	41.616	-.01457	.74996	.02886	60.177	-.1244
Stddev	.81117	41.775	.78454	.51652	.01419	8.608	.1042
%RSD	3987.1	100.38	5383.0	68.874	49.160	14.305	83.74
#1	.67595	86.123	.63298	1.0579	.04503	59.132	-.0516
#2	.17407	35.473	-.88699	1.0383	.01854	52.139	-.0778
#3	-.91105	3.2522	.21029	.15363	.02299	69.260	-.2437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01753	.38801	.21091	23.224	98.72	10.33	.35979
Stddev	.16243	.23606	.16992	17.640	31.31	42.39	.07174
%RSD	926.57	60.839	80.563	75.953	31.72	410.2	19.939
#1	.16471	.19164	.21778	37.001	69.71	-31.23	.28058
#2	-.07023	.32247	.03766	29.329	131.9	8.734	.37839
#3	-.14707	.64992	.37729	3.3434	94.53	53.50	.42039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89825-001 Acquired: 11/21/2015 17:02:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58732	28.270	.44635	-.55094	1.1906	1.6254	.2175
Stddev	.22751	18.465	.14927	1.9915	2.2837	1.0785	.1063
%RSD	38.736	65.317	33.442	361.47	191.81	66.353	48.88
#1	-.78871	8.9122	.49470	-1.0032	1.2888	1.2571	.1000
#2	-.34054	30.208	.56545	-2.2774	-1.1406	2.8398	.3071
#3	-.63272	45.689	.27890	1.6278	3.4236	.77927	.2454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.14016	-.05429	1.0812
Stddev	.28490	.14600	.0158
%RSD	203.27	268.90	1.4589
#1	-.40256	-.18743	1.0767
#2	.16288	.10183	1.0987
#3	-.18081	-.07728	1.0681
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89825-001 Acquired: 11/21/2015 17:02:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28758.	13860.	413600.
Stddev	112.	57.	255.
%RSD	.39059	.40950	.06161
#1	28675.	13813.	413880.
#2	28713.	13923.	413550.
#3	28886.	13844.	413380.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89825-002 Acquired: 11/21/2015 17:07:33 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.447	416.57	18.041	386.46	9.9920	10277.	8.883
Stddev	.409	17.20	1.083	1.16	.1321	47.	.128
%RSD	2.1029	4.1283	6.0050	.29924	1.3220	.45400	1.442
#1	19.206	413.82	17.087	386.10	10.091	10237.	8.911
#2	19.216	400.92	17.816	387.76	9.8419	10328.	8.995
#3	19.919	434.98	19.219	385.53	10.043	10264.	8.743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.594	19.922	48.051	205.57	10150.	10270.	30.412
Stddev	.199	.631	.564	7.72	12.	75.	.311
%RSD	.21523	3.1683	1.1730	3.7539	.1226	.7339	1.0213
#1	92.797	20.193	48.406	196.78	10140.	10210.	30.585
#2	92.586	19.200	48.346	211.20	10140.	10350.	30.053
#3	92.399	20.372	47.402	208.74	10160.	10260.	30.597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89825-002 Acquired: 11/21/2015 17:07:33 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.39731	10590.	73.538	17.484	112.54	66.880	.3681
Stddev	.23863	36.	.564	1.378	2.80	1.125	.1492
%RSD	60.061	.34080	.76714	7.8834	2.4864	1.6816	40.54
#1	-.42533	10568.	73.366	16.316	112.95	67.775	.3826
#2	-.14591	10632.	73.079	17.130	115.11	65.618	.5096
#3	-.62069	10571.	74.167	19.004	109.56	67.248	.2122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	45.556	95.881	114.49
Stddev	.119	.710	.08
%RSD	.26065	.74063	.07225
#1	45.568	96.112	114.43
#2	45.669	95.084	114.46
#3	45.432	96.447	114.59
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89825-002 Acquired: 11/21/2015 17:07:33 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28492.	13949.	408810.
Stddev	167.	78.	4445.
%RSD	.58771	.55710	1.0872
#1	28303.	13993.	405270.
#2	28551.	13860.	413800.
#3	28622.	13995.	407370.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-002 Acquired: 11/21/2015 17:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13374	85683.	19.290	203.35	2.9367	10380.
Stddev	.38138	410.	.831	1.24	.0403	37.
%RSD	285.16	.47882	4.3102	.60968	1.3729	.35392
#1	-.29388	85442.	18.377	202.00	2.9067	10370.
#2	-.40895	85451.	20.003	203.61	2.9208	10350.
#3	.30160	86157.	19.490	204.43	2.9825	10421.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1516	47.402	109.27	109.15	F 181030.	5867.
Stddev	.2967	.134	.52	.67	443.	51.
%RSD	195.7	.28366	.47422	.61488	.24489	.8738
#1	.0615	47.440	108.78	108.38	180720.	5808.
#2	.4828	47.513	109.23	109.60	180850.	5898.
#3	-.0897	47.253	109.81	109.47	181540.	5896.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-002 Acquired: 11/21/2015 17:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45610.	1436.9	1.2795	436.10	143.07	63.925
Stddev	72.	9.7	.0413	17.91	.24	1.316
%RSD	.1582	.67702	3.2238	4.1065	.16751	2.0592
#1	45530.	1427.6	1.2364	451.84	142.92	63.545
#2	45630.	1436.2	1.2837	416.62	143.35	65.389
#3	45660.	1447.0	1.3186	439.85	142.95	62.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0238	3.3869	142.1	1.7385	92.742	415.23
Stddev	.2729	.7705	2.1	1.0471	.450	.89
%RSD	9.0258	22.748	1.467	60.232	.48481	.21530
#1	2.8973	3.7589	140.1	1.9024	92.333	415.05
#2	3.3371	2.5010	144.3	.61910	92.670	416.20
#3	2.8371	3.9007	142.0	2.6941	93.224	414.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-002 Acquired: 11/21/2015 17:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28637.	14674.	413820.
Stddev	98.	129.	2709.
%RSD	.34128	.88168	.65455
#1	28532.	14581.	416390.
#2	28654.	14822.	414070.
#3	28726.	14620.	410990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.02%	107.54%	100.89%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-003 Acquired: 11/21/2015 17:17:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09342	112310.	30.245	296.00	3.3156	10202.
Stddev	.08707	289.	.377	.77	.0531	20.
%RSD	93.207	.25717	1.2459	.25960	1.6022	.20005
#1	-.00664	111980.	30.680	296.77	3.3136	10181.
#2	-.18078	112410.	30.040	296.00	3.3696	10222.
#3	-.09283	112540.	30.015	295.23	3.2635	10204.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.208	79.782	165.06	137.33	F 236210.	7093.
Stddev	.261	.604	1.41	1.99	476.	31.
%RSD	21.58	.75656	.85455	1.4513	.20143	.4300
#1	1.509	79.574	166.06	137.62	236160.	7076.
#2	1.053	79.311	165.68	139.15	236710.	7074.
#3	1.062	80.463	163.45	135.20	235770.	7128.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-003 Acquired: 11/21/2015 17:17:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58930.	2605.6	.81578	506.02	180.32	165.29
Stddev	230.	54.8	.13949	10.88	.62	1.67
%RSD	.3908	2.1021	17.099	2.1494	.34196	1.0107
#1	59030.	2544.6	.74457	517.70	180.06	164.18
#2	59090.	2650.5	.72627	504.19	179.87	164.49
#3	58670.	2621.8	.97651	496.17	181.02	167.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.2665	4.3703	334.8	3.0644	119.13	687.55
Stddev	2.3784	1.7644	4.4	1.5295	1.09	2.71
%RSD	55.746	40.372	1.306	49.910	.91686	.39367
#1	5.2053	2.3688	335.7	2.8442	119.50	685.68
#2	6.0323	5.7006	338.6	1.6571	120.00	686.31
#3	1.5620	5.0415	330.0	4.6921	117.91	690.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-003 Acquired: 11/21/2015 17:17:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27967.	13949.	401360.
Stddev	175.	126.	2880.
%RSD	.62725	.90185	.71766
#1	28081.	14031.	399700.
#2	28056.	14012.	399690.
#3	27765.	13804.	404680.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.656%	102.22%	97.851%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-004 Acquired: 11/21/2015 17:21:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC796

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24201	43944.	297.53	229.60	1.9529	11645.	61.12
Stddev	.42131	85.	.96	1.37	.0414	38.	.24
%RSD	174.09	.19320	.32221	.59650	2.1178	.32648	.3854
#1	-.19302	43848.	296.78	228.13	1.9981	11639.	61.32
#2	.27095	43977.	297.19	229.83	1.9171	11611.	61.19
#3	.64811	44007.	298.61	230.84	1.9434	11686.	60.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.754	5506.5	847.67	74897.	4041.	17310.	1003.1
Stddev	.102	124.8	18.34	236.	94.	133.	21.9
%RSD	.31137	2.2656	2.1637	.31458	2.314	.7687	2.1863
#1	32.767	5641.3	867.62	74857.	3934.	17240.	1026.7
#2	32.850	5395.1	831.54	74684.	4082.	17220.	983.38
#3	32.647	5483.1	843.85	75150.	4108.	17460.	999.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-004 Acquired: 11/21/2015 17:21:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC796

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6452	532.36	64.469	1120.7	93.476	4.3225	195.7
Stddev	.1850	21.60	.134	.8	2.452	1.3784	4.8
%RSD	11.246	4.0582	.20781	.06745	2.6227	31.890	2.455
#1	1.8426	542.52	64.622	1120.3	90.734	3.8141	201.0
#2	1.4757	547.02	64.415	1121.6	95.457	3.2705	191.6
#3	1.6174	507.55	64.371	1120.2	94.235	5.8830	194.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.8247	53.078	5348.3
Stddev	.5720	.820	11.0
%RSD	20.251	1.5452	.20606
#1	2.3229	53.996	5357.7
#2	2.7038	52.418	5350.9
#3	3.4476	52.819	5336.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-004 Acquired: 11/21/2015 17:21:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC796

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28222.	14158.	406460.
Stddev	80.	200.	9811.
%RSD	.28338	1.4109	2.4137
#1	28269.	14039.	395980.
#2	28130.	14046.	415420.
#3	28268.	14389.	407990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.555%	103.75%	99.095%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-005 Acquired: 11/21/2015 17:26:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC797

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02838	86846.	22.875	473.06	3.4030	20696.	.7024
Stddev	.13514	2239.	.284	13.79	.1639	555.	.1457
%RSD	476.16	2.5783	1.2431	2.9161	4.8157	2.6793	20.75
#1	.11955	88371.	22.723	482.98	3.5001	21094.	.7483
#2	-.14536	87891.	23.203	478.90	3.2138	20931.	.8196
#3	-.05933	84275.	22.699	457.31	3.4952	20063.	.5392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.951	342.99	134.36	102370.	7600.	27060.	1580.6
Stddev	.181	12.64	4.97	2708.	237.	654.	61.2
%RSD	.41099	3.6842	3.6992	2.6454	3.123	2.415	3.8716
#1	43.746	349.90	137.44	104130.	7821.	27520.	1616.4
#2	44.086	328.40	128.63	103740.	7629.	27350.	1509.9
#3	44.022	350.65	137.02	99256.	7349.	26310.	1615.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-005 Acquired: 11/21/2015 17:26:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC797

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4709	766.52	100.05	355.11	2.9728	4.5314	221.2
Stddev	.2651	39.88	.30	1.57	.6422	.8040	9.6
%RSD	18.026	5.2021	.30334	.44281	21.602	17.743	4.337
#1	1.7719	793.15	100.12	354.93	3.2390	3.6090	226.4
#2	1.3686	785.74	100.31	353.64	2.2403	5.0837	210.1
#3	1.2721	720.68	99.713	356.77	3.4391	4.9015	227.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.96231	93.384	366.58
Stddev	1.5029	3.623	.48
%RSD	156.18	3.8796	.13194
#1	2.6421	95.328	366.47
#2	.50003	89.204	366.15
#3	-.25516	95.620	367.10
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-005 Acquired: 11/21/2015 17:26:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC797

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28980.	14297.	413580.
Stddev	61.	336.	11761.
%RSD	.20883	2.3535	2.8437
#1	28939.	13966.	406210.
#2	29050.	14286.	427140.
#3	28952.	14639.	407370.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.23%	104.77%	100.83%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006 Acquired: 11/21/2015 17:31:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33991	47936.	77.088	256.13	1.8688	10425.	7.482
Stddev	.11544	3871.	1.839	21.11	.0756	852.	.206
%RSD	33.961	8.0761	2.3859	8.2414	4.0479	8.1729	2.757
#1	-.23920	44548.	75.824	237.04	1.8190	9684.0	7.561
#2	-.31465	52156.	79.198	278.80	1.9558	11356.	7.248
#3	-.46589	47105.	76.241	252.55	1.8315	10234.	7.638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.814	2487.1	242.93	59507.	3842.	15120.	907.42
Stddev	.085	95.4	9.77	4807.	275.	1201.	34.96
%RSD	.31839	3.8367	4.0230	8.0782	7.166	7.942	3.8525
#1	26.806	2423.7	236.47	55288.	3610.	14050.	883.65
#2	26.903	2596.8	254.18	64741.	4146.	16420.	947.56
#3	26.733	2440.7	238.15	58493.	3769.	14870.	891.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006 Acquired: 11/21/2015 17:31:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0470	445.02	58.619	543.44	-.96623	4.6233	210.4
Stddev	.1063	50.01	.369	1.60	3.3468	1.0010	7.7
%RSD	10.150	11.239	.62881	.29488	346.38	21.651	3.643
#1	.92877	403.87	58.391	542.97	-.46966	3.8662	205.5
#2	1.0778	500.68	59.044	545.22	-4.5336	4.2456	219.2
#3	1.1345	430.50	58.421	542.12	2.1046	5.7582	206.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.7094	56.121	1004.3
Stddev	1.0897	2.197	2.1
%RSD	63.748	3.9155	.21228
#1	2.7562	54.898	1002.8
#2	.58137	58.658	1006.8
#3	1.7905	54.808	1003.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006 Acquired: 11/21/2015 17:31:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28735.	14965.	411360.
Stddev	106.	943.	14170.
%RSD	.36792	6.3025	3.4448
#1	28833.	15778.	419420.
#2	28623.	13931.	394990.
#3	28748.	15185.	419660.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.36%	109.67%	100.29%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006L(5) Acquired: 11/21/2015 17:36:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10175	10356.	15.412	55.296	.39971	2240.8	1.334
Stddev	.21418	79.	.626	.266	.00830	14.3	.140
%RSD	210.51	.76474	4.0614	.48022	2.0769	.63788	10.52
#1	.00256	10276.	15.661	55.055	.40654	2234.3	1.326
#2	.04030	10357.	14.699	55.251	.40211	2231.0	1.197
#3	-.34810	10434.	15.875	55.581	.39047	2257.2	1.477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.4538	495.30	49.307	12830.	791.7	3273.	183.48
Stddev	.0318	4.81	.583	28.	36.8	39.	1.56
%RSD	.58363	.97177	1.1828	.21950	4.645	1.185	.85066
#1	5.4430	500.62	49.777	12822.	796.8	3318.	185.18
#2	5.4897	491.24	48.655	12806.	752.6	3252.	182.12
#3	5.4289	494.03	49.490	12861.	825.6	3249.	183.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006L(5) Acquired: 11/21/2015 17:36:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05380	82.650	12.153	112.05	.92886	.97821	43.78
Stddev	.10960	6.618	.100	1.60	1.2156	1.1816	.22
%RSD	203.73	8.0068	.82532	1.4318	130.87	120.80	.5072
#1	.06195	82.741	12.175	113.90	-.47327	-.35858	44.00
#2	-.15598	75.987	12.240	111.14	1.5726	1.8833	43.79
#3	-.06737	89.221	12.043	111.10	1.6872	1.4099	43.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1748	11.324	202.94
Stddev	.0488	.123	.43
%RSD	4.1563	1.0846	.21108
#1	1.1346	11.304	202.66
#2	1.2292	11.213	202.74
#3	1.1607	11.456	203.43
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006L(5) Acquired: 11/21/2015 17:36:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28450.	13761.	411030.
Stddev	37.	51.	3341.
%RSD	.13150	.36917	.81280
#1	28408.	13820.	407490.
#2	28463.	13732.	414120.
#3	28479.	13732.	411500.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.36%	100.85%	100.21%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006DU Acquired: 11/21/2015 17:40:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06320	86927.	174.11	466.03	3.2147	17808.	20.88
Stddev	.51988	234.	1.06	.23	.0418	17.	.12
%RSD	822.56	.26876	.60642	.05035	1.3003	.09498	.5510
#1	-.19822	86724.	175.10	465.85	3.2512	17793.	20.75
#2	-.50225	86875.	173.00	466.30	3.2237	17805.	20.91
#3	.51086	87183.	174.23	465.95	3.1691	17827.	20.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.032	6256.9	515.33	102050.	8454.	25640.	1497.3
Stddev	.098	74.7	5.94	187.	38.	130.	16.7
%RSD	.21850	1.1939	1.1525	.18340	.4539	.5085	1.1152
#1	45.033	6333.9	521.09	102030.	8439.	25700.	1514.7
#2	44.933	6251.9	515.67	101880.	8425.	25490.	1495.8
#3	45.130	6184.8	509.23	102250.	8498.	25740.	1481.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006DU Acquired: 11/21/2015 17:40:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2762	791.37	97.082	1052.2	.22482	8.0145	265.2
Stddev	.0564	30.21	.156	5.1	3.9678	1.1535	3.3
%RSD	2.4783	3.8169	.16042	.48014	1764.9	14.393	1.253
#1	2.3103	774.73	97.261	1047.6	-3.7013	7.6945	268.0
#2	2.3072	826.24	96.996	1051.5	.14269	7.0547	265.9
#3	2.2111	773.15	96.987	1057.6	4.2331	9.2942	261.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5261	98.753	2601.3
Stddev	.2558	1.258	5.5
%RSD	16.763	1.2738	.21275
#1	1.5281	100.06	2600.8
#2	1.2693	98.647	2596.0
#3	1.7810	97.552	2607.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006DU Acquired: 11/21/2015 17:40:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC798D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28792.	14892.	424940.
Stddev	127.	212.	4893.
%RSD	.44198	1.4226	1.1515
#1	28692.	15127.	420220.
#2	28935.	14832.	424610.
#3	28750.	14716.	429990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.57%	109.13%	103.60%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006MS Acquired: 11/21/2015 17:45:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.757	99348.	266.45	4169.5	101.95	19466.	109.6
Stddev	2.112	490.	1.36	18.2	1.89	91.	.1
%RSD	2.2766	.49335	.50956	.43646	1.8542	.46696	.1321
#1	95.137	98800.	267.99	4156.1	104.10	19370.	109.5
#2	91.108	99499.	265.42	4162.1	100.57	19477.	109.5
#3	92.026	99745.	265.94	4190.2	101.16	19551.	109.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	937.29	6011.3	1070.8	111810.	8622.	27960.	2577.7
Stddev	2.10	111.4	18.9	515.	25.	133.	39.9
%RSD	.22395	1.8534	1.7646	.46029	.2862	.4752	1.5477
#1	938.33	6139.4	1092.4	111260.	8645.	27850.	2618.6
#2	934.87	5937.6	1057.3	111880.	8596.	27930.	2575.7
#3	938.66	5956.7	1062.8	112280.	8624.	28110.	2538.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006MS Acquired: 11/21/2015 17:45:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3413	786.31	988.67	1134.0	49.072	182.29	317.8
Stddev	.1320	7.58	1.01	1.9	2.981	2.36	6.3
%RSD	5.6380	.96441	.10240	.17017	6.0754	1.2964	1.968
#1	2.2051	795.07	988.62	1134.9	47.012	182.66	325.0
#2	2.4687	781.94	987.68	1131.8	47.714	179.76	314.2
#3	2.3500	781.94	989.70	1135.3	52.491	184.45	314.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	89.557	1023.4	3428.0
Stddev	1.400	18.2	5.1
%RSD	1.5631	1.7800	.14998
#1	91.112	1044.3	3432.8
#2	88.398	1010.7	3422.6
#3	89.161	1015.3	3428.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006MS Acquired: 11/21/2015 17:45:36 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29382.	15143.	428890.
Stddev	119.	90.	6275.
%RSD	.40548	.59110	1.4631
#1	29277.	15057.	421670.
#2	29512.	15136.	433090.
#3	29356.	15236.	431900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.65%	110.97%	104.56%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006A Acquired: 11/21/2015 17:50:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.152	49150.	94.865	653.29	12.235	20913.	16.50
Stddev	1.115	134.	.856	1.46	.477	64.	.08
%RSD	5.5308	.27265	.90188	.22380	3.8955	.30826	.5011
#1	19.446	49039.	95.316	651.61	11.896	20964.	16.42
#2	19.573	49299.	95.400	653.98	12.028	20935.	16.51
#3	21.437	49110.	93.878	654.28	12.780	20840.	16.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119.49	2430.8	284.31	60835.	14210.	25540.	911.38
Stddev	.38	91.0	11.03	218.	87.	126.	34.40
%RSD	.32204	3.7454	3.8807	.35903	.6138	.4917	3.7748
#1	119.74	2365.9	276.30	61001.	14240.	25650.	886.76
#2	119.04	2391.5	279.73	60917.	14280.	25550.	896.70
#3	119.68	2534.8	296.89	60588.	14110.	25400.	950.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006A Acquired: 11/21/2015 17:50:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.85285	11282.	130.70	539.98	117.09	72.637	205.6
Stddev	.21007	4.	.56	1.04	3.15	.918	7.6
%RSD	24.632	.03928	.42951	.19320	2.6936	1.2640	3.678
#1	.92944	11285.	131.19	541.16	120.71	73.697	200.2
#2	1.0139	11284.	130.09	539.21	115.57	72.075	202.3
#3	.61523	11277.	130.83	539.55	114.98	72.140	214.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.542	153.68	1087.8
Stddev	1.601	5.72	1.8
%RSD	3.3670	3.7233	.16950
#1	48.430	149.45	1089.5
#2	45.694	151.40	1085.9
#3	48.503	160.19	1088.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-006A Acquired: 11/21/2015 17:50:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC798A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28495.	14504.	410110.
Stddev	68.	52.	15813.
%RSD	.23759	.36047	3.8558
#1	28437.	14461.	421130.
#2	28479.	14562.	417210.
#3	28570.	14488.	391990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.52%	106.29%	99.985%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-007 Acquired: 11/21/2015 17:55:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC799

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2935	83952.	31.086	408.80	3.4080	26743.	17.99
Stddev	.2972	327.	.423	.73	.0331	35.	.14
%RSD	22.977	.38956	1.3616	.17958	.97098	.13179	.7658
#1	1.2630	83577.	30.734	408.76	3.4042	26704.	18.02
#2	1.6049	84100.	30.969	408.08	3.3770	26753.	18.11
#3	1.0128	84179.	31.556	409.55	3.4429	26772.	17.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.927	1031.4	738.77	118520.	9387.	31320.	1558.5
Stddev	.179	6.0	6.31	163.	20.	105.	10.5
%RSD	.30360	.58473	.85461	.13752	.2142	.3337	.67559
#1	58.724	1026.9	733.27	118330.	9399.	31330.	1550.1
#2	58.996	1029.2	737.36	118630.	9363.	31210.	1555.2
#3	59.062	1038.3	745.66	118600.	9397.	31410.	1570.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-007 Acquired: 11/21/2015 17:55:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC799

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3593	1054.9	145.38	1370.5	6.1936	7.4959	329.5
Stddev	.1219	11.2	.20	3.9	1.1649	2.1577	1.3
%RSD	8.9696	1.0632	.13803	.28229	18.808	28.785	.3918
#1	1.3763	1042.0	145.17	1369.9	5.1066	8.7793	328.5
#2	1.2298	1060.3	145.39	1366.9	7.4233	5.0048	329.1
#3	1.4719	1062.4	145.57	1374.6	6.0511	8.7036	330.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4207	112.67	2138.8
Stddev	.8962	.78	4.8
%RSD	63.081	.69197	.22567
#1	2.1717	111.91	2137.8
#2	1.6616	112.64	2134.5
#3	.42865	113.47	2144.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-007 Acquired: 11/21/2015 17:55:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC799

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29255.	14810.	418350.
Stddev	156.	116.	1563.
%RSD	.53388	.78582	.37357
#1	29113.	14732.	416540.
#2	29422.	14944.	419300.
#3	29228.	14755.	419190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.20%	108.53%	101.99%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-008 Acquired: 11/21/2015 17:59:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09066	51440.	67.537	273.00	1.9584	12176.	.9854
Stddev	.17804	843.	.675	4.45	.0470	185.	.1249
%RSD	196.38	1.6396	.99885	1.6317	2.4002	1.5225	12.68
#1	-.00734	50479.	67.653	267.91	1.9928	11965.	1.005
#2	-.29508	52056.	68.147	276.15	1.9776	12251.	.8520
#3	.03044	51786.	66.813	274.95	1.9049	12312.	1.100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.127	2927.8	312.27	65006.	4272.	16630.	902.84
Stddev	.231	47.8	3.90	981.	69.	217.	14.12
%RSD	.76643	1.6323	1.2499	1.5096	1.616	1.307	1.5644
#1	30.117	2954.9	314.60	63883.	4193.	16400.	910.02
#2	29.902	2955.9	314.44	65432.	4303.	16670.	911.93
#3	30.363	2872.6	307.76	65702.	4320.	16830.	886.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-008 Acquired: 11/21/2015 17:59:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5010	615.61	63.638	650.82	-1.5354	5.9284	187.6
Stddev	.1157	17.10	.154	1.71	3.1344	1.5218	3.2
%RSD	7.7053	2.7773	.24250	.26337	204.14	25.669	1.714
#1	1.5261	595.89	63.745	649.28	-.25973	7.2219	189.0
#2	1.6021	626.18	63.461	650.50	-5.1065	6.3115	189.9
#3	1.3749	624.77	63.707	652.67	.76004	4.2516	183.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3309	55.798	419.05
Stddev	.1724	.872	.16
%RSD	7.3982	1.5624	.03772
#1	2.1384	56.433	418.94
#2	2.3830	56.156	418.98
#3	2.4712	54.804	419.23
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-008 Acquired: 11/21/2015 17:59:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28964.	14080.	410730.
Stddev	78.	101.	6118.
%RSD	.26939	.71857	1.4895
#1	28942.	14195.	408280.
#2	28900.	14003.	406210.
#3	29051.	14043.	417690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.17%	103.19%	100.14%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-009 Acquired: 11/21/2015 18:04:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42596	58142.	233.49	298.91	2.3137	13900.	51.32
Stddev	.26469	52.	1.86	.31	.0286	54.	.05
%RSD	62.140	.08893	.79687	.10289	1.2344	.38595	.0910
#1	.18409	58118.	233.14	298.56	2.2901	13844.	51.36
#2	.70871	58201.	231.83	299.13	2.3455	13903.	51.32
#3	.38506	58106.	235.50	299.03	2.3056	13951.	51.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.257	8099.7	942.81	82194.	5517.	18530.	981.00
Stddev	.212	58.2	8.65	137.	75.	58.	6.98
%RSD	.58590	.71808	.91705	.16707	1.353	.3117	.71110
#1	36.496	8046.1	933.91	82036.	5526.	18560.	974.19
#2	36.185	8161.5	951.17	82263.	5587.	18460.	988.13
#3	36.090	8091.4	943.34	82282.	5439.	18560.	980.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-009 Acquired: 11/21/2015 18:04:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0758	731.02	75.505	1441.9	73.521	8.6889	226.5
Stddev	.2792	15.35	.162	.5	1.147	.2606	1.9
%RSD	9.0769	2.0994	.21506	.03374	1.5598	2.9997	.8479
#1	3.0237	738.46	75.343	1441.4	74.587	8.9158	224.7
#2	3.3774	741.23	75.667	1442.3	73.668	8.4042	228.5
#3	2.8264	713.37	75.505	1442.2	72.308	8.7467	226.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.9819	68.981	4521.4
Stddev	.4251	.692	7.6
%RSD	14.257	1.0033	.16722
#1	2.4911	68.306	4529.0
#2	3.2340	69.689	4521.3
#3	3.2207	68.948	4513.9
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-009 Acquired: 11/21/2015 18:04:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28510.	14316.	419490.
Stddev	13.	56.	3059.
%RSD	.04408	.38795	.72919
#1	28523.	14287.	420960.
#2	28498.	14280.	415970.
#3	28507.	14380.	421530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.57%	104.91%	102.27%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-010 Acquired: 11/21/2015 18:09:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35730	39896.	11.868	235.14	1.5454	25095.	1.955
Stddev	.39568	238.	.566	.66	.0068	140.	.132
%RSD	110.74	.59565	4.7661	.28171	.44191	.55711	6.769
#1	.81366	39784.	11.308	234.39	1.5474	24934.	2.091
#2	.14828	39736.	11.858	235.63	1.5378	25186.	1.947
#3	.10996	40169.	12.439	235.41	1.5511	25165.	1.827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.998	65.790	124.90	59922.	4710.	20620.	1522.0
Stddev	.211	.416	1.01	246.	65.	145.	11.1
%RSD	.88120	.63253	.80656	.41094	1.390	.7051	.72887
#1	23.786	66.056	125.76	59647.	4641.	20450.	1530.7
#2	23.997	65.310	123.79	59997.	4718.	20700.	1509.5
#3	24.209	66.002	125.15	60122.	4771.	20700.	1525.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-010 Acquired: 11/21/2015 18:09:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.91216	953.85	58.981	273.45	1.8621	3.5054	187.6
Stddev	.20097	11.39	.321	1.88	.5338	1.0577	1.2
%RSD	22.032	1.1940	.54401	.68731	28.667	30.174	.6496
#1	1.1314	941.14	59.347	274.35	1.6158	2.6189	188.8
#2	.73671	963.13	58.848	274.70	2.4746	4.6762	186.3
#3	.86835	957.29	58.748	271.28	1.4960	3.2210	187.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2685	60.668	490.63
Stddev	1.3198	.723	.36
%RSD	104.05	1.1924	.07289
#1	1.0061	61.012	490.87
#2	2.6998	59.837	490.22
#3	.09957	61.155	490.80
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-010 Acquired: 11/21/2015 18:09:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29010.	14363.	411720.
Stddev	90.	140.	1660.
%RSD	.31028	.97606	.40311
#1	28906.	14471.	410190.
#2	29061.	14413.	413480.
#3	29063.	14205.	411500.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.33%	105.26%	100.38%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-011 Acquired: 11/21/2015 18:14:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.6778	86346.	32.158	604.48	3.4383	43710.	11.41
Stddev	.1271	324.	1.689	2.13	.0520	30.	.02
%RSD	1.6559	.37513	5.2511	.35198	1.5130	.06886	.1503
#1	7.7919	86656.	32.448	606.07	3.4307	43744.	11.41
#2	7.5407	86374.	33.683	605.30	3.4937	43688.	11.39
#3	7.7007	86010.	30.343	602.06	3.3905	43697.	11.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57.924	340.88	539.93	142810.	9578.	40980.	2567.1
Stddev	.225	4.72	6.83	296.	81.	65.	51.5
%RSD	.38853	1.3857	1.2655	.20716	.8429	.1580	2.0069
#1	57.886	340.53	538.98	142950.	9602.	40930.	2528.6
#2	57.721	345.76	547.19	143020.	9644.	40960.	2625.6
#3	58.166	336.33	533.63	142470.	9488.	41060.	2547.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-011 Acquired: 11/21/2015 18:14:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0445	1043.0	164.20	1035.6	7.0377	8.2046	337.4
Stddev	.2485	6.0	.26	3.4	1.3099	.7973	4.7
%RSD	6.1448	.57802	.16021	.32393	18.613	9.7172	1.399
#1	3.8060	1043.2	164.10	1039.0	7.7404	8.5900	338.2
#2	4.0256	1048.9	164.50	1035.4	5.5264	7.2879	341.7
#3	4.3020	1036.8	164.01	1032.3	7.8463	8.7360	332.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.2598	142.41	1900.2
Stddev	1.3112	2.19	2.4
%RSD	40.224	1.5411	.12704
#1	1.7609	142.33	1898.6
#2	3.8243	144.65	1899.1
#3	4.1943	140.26	1903.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-011 Acquired: 11/21/2015 18:14:11 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29230.	14641.	415060.
Stddev	70.	71.	5682.
%RSD	.23785	.48446	1.3689
#1	29225.	14577.	416910.
#2	29301.	14630.	408690.
#3	29163.	14717.	419590.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.11%	107.30%	101.19%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-012 Acquired: 11/21/2015 18:19:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0517	50504.	18.229	325.41	1.9968	28102.	5.997
Stddev	.4907	36.	.820	1.55	.0629	119.	.018
%RSD	12.111	.07179	4.5008	.47740	3.1501	.42375	.2990
#1	4.5667	50507.	19.122	325.95	2.0071	28105.	5.998
#2	3.5896	50539.	17.509	326.62	1.9294	28219.	5.979
#3	3.9987	50467.	18.056	323.66	2.0539	27981.	6.014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.126	183.37	253.16	82038.	5703.	25150.	1961.1
Stddev	.170	3.98	5.75	322.	80.	111.	31.3
%RSD	.52776	2.1730	2.2703	.39263	1.403	.4426	1.5967
#1	32.166	183.40	253.80	81977.	5618.	25190.	1943.8
#2	32.272	179.38	247.11	82386.	5716.	25230.	1942.2
#3	31.940	187.35	258.56	81750.	5776.	25020.	1997.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-012 Acquired: 11/21/2015 18:19:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.1836	812.68	111.51	390.58	5.0915	6.7554	198.8
Stddev	.2278	1.80	.25	1.14	.5794	.7300	4.5
%RSD	5.4440	.22205	.22616	.29239	11.380	10.806	2.258
#1	4.4465	814.15	111.72	391.89	5.7184	6.0162	199.3
#2	4.0566	813.23	111.23	390.02	4.9803	6.7740	194.1
#3	4.0476	810.67	111.56	389.82	4.5757	7.4759	203.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3549	91.005	1050.9
Stddev	1.1210	2.139	.6
%RSD	47.602	2.3502	.05636
#1	3.5405	90.983	1050.3
#2	2.2118	88.878	1051.4
#3	1.3123	93.156	1051.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-012 Acquired: 11/21/2015 18:19:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28975.	14696.	417660.
Stddev	32.	48.	9511.
%RSD	.11092	.32935	2.2772
#1	28958.	14746.	420720.
#2	29012.	14649.	425270.
#3	28954.	14693.	407000.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.21%	107.70%	101.83%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-013 Acquired: 11/21/2015 18:23:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05690	92236.	23.846	260.61	3.1016	8062.0
Stddev	.43448	183.	1.150	.72	.0233	30.4
%RSD	763.54	.19883	4.8244	.27578	.74982	.37705
#1	-.07969	92168.	24.548	259.96	3.1043	8078.1
#2	.54327	92095.	22.518	260.49	3.1233	8026.9
#3	-.29287	92443.	24.472	261.38	3.0770	8080.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3593	69.730	125.37	110.58	F 204550.	6955.
Stddev	.0967	.156	.66	.96	769.	46.
%RSD	26.91	.22431	.53010	.86639	.37595	.6580
#1	.3477	69.581	125.40	110.53	204820.	7005.
#2	.2689	69.893	126.02	111.56	203680.	6915.
#3	.4612	69.716	124.70	109.65	205140.	6946.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-013 Acquired: 11/21/2015 18:23:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41890.	2168.7	.47372	474.17	147.12	124.70
Stddev	107.	27.0	.11841	20.87	.59	.45
%RSD	.2542	1.2469	24.997	4.4013	.40198	.36337
#1	41910.	2197.7	.40586	469.31	147.66	125.07
#2	41770.	2164.0	.61045	497.05	146.49	124.84
#3	41980.	2144.3	.40485	456.17	147.21	124.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.8254	3.4012	202.3	2.8913	96.020	525.18
Stddev	.7292	2.7228	2.2	.5594	.670	.65
%RSD	19.062	80.055	1.072	19.348	.69736	.12291
#1	3.9475	1.9556	203.1	3.5360	96.336	525.50
#2	3.0429	6.5419	204.0	2.5346	96.473	524.43
#3	4.4859	1.7061	199.9	2.6033	95.250	525.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-013 Acquired: 11/21/2015 18:23:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28071.	14002.	404010.
Stddev	162.	38.	1779.
%RSD	.57676	.27433	.44032
#1	27897.	14035.	403850.
#2	28217.	14011.	402310.
#3	28099.	13960.	405860.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.020%	102.61%	98.497%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-014 Acquired: 11/21/2015 18:28:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31375	101960.	41.212	297.78	3.7734	32594.
Stddev	.30736	184.	1.097	1.21	.0169	40.
%RSD	97.964	.18060	2.6611	.40562	.44892	.12191
#1	-.66411	102140.	40.180	298.98	3.7579	32561.
#2	-.08952	101770.	42.364	297.81	3.7914	32638.
#3	-.18762	101960.	41.091	296.56	3.7707	32584.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.765	77.338	235.56	197.09	F 219120.	9915.
Stddev	.058	.290	1.83	1.37	472.	67.
%RSD	2.093	.37529	.77511	.69281	.21522	.6724
#1	2.704	77.004	235.60	196.93	218840.	9883.
#2	2.771	77.524	237.37	198.54	219670.	9992.
#3	2.820	77.487	233.72	195.82	218860.	9871.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-014 Acquired: 11/21/2015 18:28:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59100.	2266.7	3.0610	821.14	173.37	240.83
Stddev	383.	31.2	.3815	10.85	.18	.62
%RSD	.6480	1.3781	12.463	1.3216	.10549	.25654
#1	58890.	2254.4	2.9450	826.15	173.33	241.01
#2	59550.	2302.2	3.4871	808.69	173.20	241.35
#3	58870.	2243.4	2.7510	828.59	173.57	240.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.53886	3.9287	667.1	1.2798	134.38	1074.0
Stddev	2.3811	.1245	6.5	.7661	1.14	1.5
%RSD	441.87	3.1688	.9793	59.860	.84827	.13747
#1	3.1444	4.0704	669.8	2.1583	134.93	1074.0
#2	-.00379	3.8789	671.8	.75022	135.14	1072.5
#3	-1.5241	3.8368	659.6	.93098	133.07	1075.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-014 Acquired: 11/21/2015 18:28:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28430.	14096.	407820.
Stddev	105.	275.	5097.
%RSD	.36936	1.9504	1.2499
#1	28387.	13927.	405970.
#2	28353.	14414.	403900.
#3	28550.	13948.	413580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.29%	103.30%	99.426%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-015 Acquired: 11/21/2015 18:33:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.42123	137750.	18.426	273.91	4.5550	14322.
Stddev	.32391	489.	.631	1.35	.0522	17.
%RSD	76.896	.35534	3.4244	.49309	1.1448	.11731
#1	-.15552	138200.	18.967	272.90	4.5087	14304.
#2	-.32612	137230.	18.578	273.38	4.6115	14324.
#3	-.78205	137830.	17.733	275.44	4.5448	14337.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.081	94.165	211.29	164.54	F 294250.	9837.
Stddev	.137	.135	1.94	2.15	122.	24.
%RSD	6.574	.14366	.91785	1.3077	.04148	.2460
#1	2.141	94.022	209.29	162.50	294210.	9817.
#2	2.177	94.291	213.16	166.79	294160.	9829.
#3	1.924	94.182	211.42	164.33	294390.	9864.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-015 Acquired: 11/21/2015 18:33:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70440.	2415.2	.35060	443.42	237.01	146.38
Stddev	157.	51.0	.48378	21.66	.40	1.73
%RSD	.2227	2.1130	137.99	4.8854	.17048	1.1839
#1	70440.	2406.1	-.05708	422.74	237.01	144.39
#2	70290.	2470.1	.22370	441.58	236.60	147.17
#3	70600.	2369.3	.88519	465.94	237.41	147.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1231	3.2783	225.0	2.6441	138.66	1000.3
Stddev	1.4341	2.8814	2.6	1.6760	1.41	1.2
%RSD	127.70	87.893	1.136	63.387	1.0200	.11758
#1	-.26091	.45336	222.4	3.4004	137.17	999.65
#2	1.0275	3.1685	227.5	3.8086	139.98	999.59
#3	2.6026	6.2130	225.2	.72320	138.84	1001.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-015 Acquired: 11/21/2015 18:33:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28735.	14426.	408670.
Stddev	90.	71.	3775.
%RSD	.31273	.49421	.92377
#1	28771.	14472.	411850.
#2	28802.	14344.	404500.
#3	28633.	14462.	409660.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.37%	105.72%	99.634%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV003 Acquired: 11/21/2015 18:38:34 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	753.96	50958.	2484.4	9916.9	1048.6	51950.	980.1
Stddev	12.91	144.	6.3	146.7	15.0	254.	.8
%RSD	1.7126	.28190	.25533	1.4795	1.4274	.48797	.0838
#1	761.75	50975.	2486.1	10053.	1042.0	52160.	979.4
#2	761.08	50807.	2477.3	9936.4	1065.7	51668.	980.1
#3	739.06	51093.	2489.6	9761.3	1038.1	52021.	981.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4785.4	10165.	12190.	25476.	39430.	51240.	5029.1
Stddev	5.7	191.	182.	146.	263.	327.	84.3
%RSD	.11975	1.8799	1.4965	.57273	.6679	.6380	1.6761
#1	4781.8	10285.	12142.	25591.	39590.	51430.	5115.4
#2	4782.5	10265.	12391.	25312.	39120.	50870.	5024.9
#3	4792.0	9944.6	12036.	25525.	39570.	51430.	4947.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV003 Acquired: 11/21/2015 18:38:34 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.58	26914.	4771.4	9352.5	2443.3	1240.4	1013.
Stddev	1.33	184.	4.8	7.5	4.9	2.5	19.
%RSD	.13551	.68184	.10114	.07971	.20087	.20039	1.835
#1	979.65	27067.	4766.0	9347.4	2442.5	1241.9	1024.
#2	980.00	26711.	4772.7	9349.0	2438.9	1237.5	1024.
#3	982.10	26966.	4775.3	9361.0	2448.6	1241.7	991.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	919.54	2536.7	4913.6
Stddev	1.56	47.4	5.0
%RSD	.16927	1.8678	.10193
#1	917.79	2563.8	4910.7
#2	920.78	2564.4	4910.8
#3	920.04	2482.0	4919.4
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV003 Acquired: 11/21/2015 18:38:34 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26857.	13542.	392030.
Stddev	60.	40.	4769.
%RSD	.22249	.29295	1.2165
#1	26799.	13497.	388290.
#2	26852.	13569.	390400.
#3	26919.	13561.	397400.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB003 Acquired: 11/21/2015 18:43:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20581	14.750	-.61863	.96821	.01005	-2.1797	-.0292
Stddev	.30098	12.382	.61134	.70684	.01812	2.8416	.1645
%RSD	146.24	83.950	98.820	73.004	180.26	130.37	563.9
#1	.54839	22.593	.00442	1.7530	-.00171	-3.7957	-.2030
#2	.08518	21.181	-1.2175	.76996	.03093	1.1014	.1241
#3	-.01614	.47493	-.64279	.38167	.00095	-3.8449	-.0086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00833	-.13026	-.30765	2.5948	-7.697	15.80	.09039
Stddev	.17733	.22102	.53945	9.4604	68.72	15.03	.03185
%RSD	2128.3	169.67	175.34	364.59	892.8	95.09	35.237
#1	-.21225	-.15798	-.38544	-8.2703	-86.56	26.81	.08159
#2	.07758	.10331	.26647	9.0085	39.28	-1.316	.06387
#3	.10968	-.33612	-.80399	7.0462	24.19	21.90	.12571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB003 Acquired: 11/21/2015 18:43:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01247	-27.995	-.03679	-.16022	1.2103	.71047	-.1994
Stddev	.18920	12.918	.09543	.66486	1.2689	1.1790	.1896
%RSD	1516.9	46.146	259.40	414.96	104.84	165.95	95.07
#1	.15439	-21.564	-.11209	-.05266	1.5068	.90169	-.0821
#2	.02622	-19.554	.07054	-.87231	-.18058	1.7822	-.0980
#3	-.21803	-42.866	-.06882	.44429	2.3048	-.55246	-.4181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1213	-.02733	-.00019
Stddev	1.1397	.30859	.04704
%RSD	101.64	1129.3	24205.
#1	.95004	.11628	.05399
#2	.07687	-.38155	-.03056
#3	2.3370	.18329	-.02402
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB003 Acquired: 11/21/2015 18:43:49 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28358.	13482.	412110.
Stddev	65.	131.	8498.
%RSD	.22977	.97072	2.0620
#1	28298.	13355.	416410.
#2	28427.	13476.	402320.
#3	28348.	13616.	417590.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-016 Acquired: 11/21/2015 18:48:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11515	144220.	23.687	235.28	5.2762	17337.
Stddev	.32715	224.	1.530	.79	.0817	27.
%RSD	284.12	.15549	6.4572	.33648	1.5478	.15474
#1	.06857	144390.	24.476	235.44	5.3568	17338.
#2	.07885	143960.	24.660	235.98	5.1935	17310.
#3	-.49287	144300.	21.924	234.42	5.2782	17363.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.775	90.171	198.84	309.83	F 346570.	8194.
Stddev	.043	.195	2.29	3.75	94.	40.
%RSD	2.407	.21629	1.1492	1.2101	.02715	.4897
#1	1.818	90.388	201.36	313.64	346500.	8152.
#2	1.775	90.114	196.91	306.15	346530.	8198.
#3	1.732	90.010	198.24	309.70	346680.	8232.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-016 Acquired: 11/21/2015 18:48:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79200.	2576.8	.79922	444.86	253.16	153.54
Stddev	158.	29.9	.24280	21.96	.34	2.69
%RSD	.1999	1.1594	30.379	4.9360	.13288	1.7545
#1	79130.	2542.3	.77865	421.41	253.03	156.57
#2	79080.	2592.7	.56736	464.93	252.91	152.60
#3	79380.	2595.3	1.0517	448.24	253.55	151.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0527	3.1410	187.9	5.0801	161.29	1222.2
Stddev	2.5399	1.4817	1.5	1.6693	1.71	.1
%RSD	83.202	47.172	.8159	32.860	1.0613	.00614
#1	4.2714	4.0825	189.7	4.4610	162.95	1222.3
#2	4.7535	1.4331	186.8	3.8088	159.53	1222.1
#3	.13312	3.9074	187.4	6.9706	161.39	1222.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-016 Acquired: 11/21/2015 18:48:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28373.	13984.	404070.
Stddev	68.	226.	3570.
%RSD	.23865	1.6154	.88362
#1	28358.	14193.	400530.
#2	28313.	14015.	407670.
#3	28446.	13745.	404010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	102.48%	98.511%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-017 Acquired: 11/21/2015 18:53:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.57231	102050.	56.612	890.98	5.0160	F 437350.
Stddev	.35039	566.	.859	2.26	.1908	4732.
%RSD	61.223	.55442	1.5172	.25413	3.8042	1.0819
#1	.96611	101670.	57.425	888.45	4.7984	434620.
#2	.45579	101770.	55.714	891.66	5.0946	442820.
#3	.29504	102700.	56.696	892.82	5.1550	434620.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.824	68.444	169.33	403.63	F 307060.	10610.
Stddev	.050	.156	5.58	15.20	755.	146.
%RSD	2.752	.22800	3.2962	3.7646	.24590	1.378
#1	1.882	68.354	163.07	386.74	306350.	10480.
#2	1.800	68.354	171.13	407.94	306990.	10770.
#3	1.790	68.624	173.79	416.19	307850.	10590.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-017 Acquired: 11/21/2015 18:53:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	265000.	4680.7	5.3202	1050.1	206.89	1013.3
Stddev	658.	154.1	.2056	18.6	.30	2.1
%RSD	.2481	3.2914	3.8635	1.7719	.14426	.20464
#1	264600.	4519.3	5.5240	1029.4	206.94	1012.2
#2	264700.	4696.6	5.1130	1055.4	206.57	1012.0
#3	265800.	4826.2	5.3236	1065.4	207.16	1015.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2158	6.5156	213.0	6.5750	157.28	1011.9
Stddev	1.0506	1.6411	6.9	1.7005	4.95	1.0
%RSD	47.412	25.187	3.234	25.863	3.1442	.10101
#1	2.0079	8.0942	205.4	8.1485	151.68	1011.2
#2	3.3547	4.8184	214.5	4.7710	159.16	1011.4
#3	1.2847	6.6341	219.0	6.8055	161.02	1013.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-017 Acquired: 11/21/2015 18:53:29 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27021.	14072.	390260.
Stddev	48.	154.	11789.
%RSD	.17666	1.0942	3.0207
#1	27072.	14198.	403550.
#2	27013.	14117.	386190.
#3	26977.	13900.	381050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.317%	103.12%	95.146%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-018 Acquired: 11/21/2015 18:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.64666	139150.	51.738	583.06	5.8238	189320.
Stddev	.15588	221.	1.546	1.86	.0526	2814.
%RSD	24.106	.15863	2.9883	.31822	.90274	1.4862
#1	.81356	138910.	50.026	582.74	5.8836	190770.
#2	.62160	139350.	53.033	581.38	5.8034	191120.
#3	.50483	139190.	52.156	585.05	5.7845	186080.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.308	94.713	210.43	369.24	F 322230.	10820.
Stddev	.154	.206	2.40	4.00	924.	50.
%RSD	4.639	.21749	1.1405	1.0822	.28687	.4586
#1	3.370	94.932	212.62	373.69	321300.	10770.
#2	3.134	94.684	210.81	368.04	322240.	10810.
#3	3.422	94.523	207.86	365.97	323150.	10870.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-018 Acquired: 11/21/2015 18:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	152900.	5265.7	3.6290	2060.6	245.76	756.27
Stddev	300.	33.8	.2218	14.2	.50	1.85
%RSD	.1961	.64150	6.1131	.68706	.20470	.24510
#1	152500.	5299.1	3.3765	2072.6	246.17	756.73
#2	152900.	5266.4	3.7925	2045.0	245.92	754.23
#3	153100.	5231.5	3.7180	2064.2	245.20	757.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6651	8.9773	327.6	7.4719	192.67	1340.0
Stddev	2.1686	.7513	3.7	1.4220	2.16	3.6
%RSD	59.170	8.3693	1.135	19.031	1.1217	.26580
#1	1.8160	9.1187	331.7	8.4505	195.02	1343.8
#2	6.0521	9.6478	326.7	5.8408	192.22	1336.8
#3	3.1272	8.1653	324.4	8.1244	190.77	1339.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-018 Acquired: 11/21/2015 18:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27781.	14078.	397120.
Stddev	95.	202.	3659.
%RSD	.34286	1.4337	.92129
#1	27748.	13845.	395310.
#2	27889.	14200.	394720.
#3	27708.	14189.	401330.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.000%	103.17%	96.819%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-019 Acquired: 11/21/2015 19:03:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17801	82865.	39.228	338.46	3.7524	49969.
Stddev	.86494	408.	1.373	.92	.0640	99.
%RSD	485.88	.49259	3.4996	.27283	1.7048	.19886
#1	1.1214	82454.	37.934	337.41	3.6810	49857.
#2	-.00980	83270.	40.668	339.15	3.8044	50006.
#3	-.57759	82872.	39.082	338.81	3.7719	50045.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.384	55.859	121.62	209.27	F 203090.	7527.
Stddev	.104	.311	1.94	3.40	462.	32.
%RSD	7.512	.55750	1.5957	1.6246	.22760	.4212
#1	1.494	55.798	119.38	205.39	202570.	7491.
#2	1.288	55.582	122.80	211.73	203210.	7540.
#3	1.369	56.196	122.67	210.69	203470.	7551.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-019 Acquired: 11/21/2015 19:03:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61750.	2409.8	3.3019	579.33	161.61	454.48
Stddev	174.	53.4	.1578	17.17	.53	.42
%RSD	.2813	2.2179	4.7805	2.9643	.32893	.09150
#1	61550.	2348.3	3.4342	563.49	161.27	454.02
#2	61810.	2436.0	3.3444	597.58	161.34	454.58
#3	61880.	2445.0	3.1272	576.92	162.22	454.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0162	4.2303	191.3	2.7590	125.04	844.22
Stddev	2.8576	3.5615	3.4	.2405	2.05	.97
%RSD	141.73	84.190	1.764	8.7185	1.6374	.11518
#1	-.60812	3.5558	187.6	2.8945	122.69	843.97
#2	1.5960	8.0808	194.1	2.4813	125.97	843.39
#3	5.0606	1.0543	192.1	2.9012	126.45	845.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-019 Acquired: 11/21/2015 19:03:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28588.	14218.	411740.
Stddev	26.	73.	5666.
%RSD	.08966	.51052	1.3761
#1	28571.	14272.	418150.
#2	28617.	14247.	407390.
#3	28575.	14136.	409680.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.84%	104.20%	100.38%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-020 Acquired: 11/21/2015 19:08:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23355	104750.	38.816	340.17	3.6393	35180.
Stddev	.15256	120.	.747	1.02	.0328	49.
%RSD	65.324	.11421	1.9250	.30082	.90118	.13919
#1	.40601	104650.	38.425	340.31	3.6203	35124.
#2	.17842	104880.	39.677	341.11	3.6205	35216.
#3	.11621	104720.	38.345	339.08	3.6772	35200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.36	71.041	287.78	445.55	F 238930.	5852.
Stddev	.03	.166	1.47	2.37	551.	39.
%RSD	.1789	.23374	.50962	.53218	.23060	.6628
#1	14.33	70.850	287.32	443.98	238330.	5842.
#2	14.37	71.148	286.59	444.39	239420.	5895.
#3	14.39	71.126	289.42	448.27	239040.	5820.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-020 Acquired: 11/21/2015 19:08:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67270.	2653.0	2.2794	443.40	190.30	1338.8
Stddev	182.	51.5	.2186	12.95	.42	3.8
%RSD	.2703	1.9416	9.5914	2.9209	.22141	.28046
#1	67090.	2623.2	2.5318	453.66	189.81	1336.3
#2	67450.	2623.3	2.1522	428.85	190.50	1336.9
#3	67290.	2712.5	2.1541	447.70	190.58	1343.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.862	2.3973	224.7	4.1860	123.48	2139.2
Stddev	1.061	1.3985	.8	.7972	1.00	4.1
%RSD	7.6539	58.336	.3591	19.044	.81264	.19118
#1	13.063	1.2553	224.1	3.9096	122.78	2135.4
#2	13.458	3.9571	224.4	3.5638	123.03	2138.6
#3	15.066	1.9796	225.6	5.0846	124.63	2143.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-020 Acquired: 11/21/2015 19:08:17 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28207.	13996.	400480.
Stddev	71.	124.	1981.
%RSD	.25073	.88845	.49462
#1	28215.	13859.	400540.
#2	28133.	14101.	402430.
#3	28273.	14028.	398470.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.501%	102.57%	97.636%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005 Acquired: 11/21/2015 19:13:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	149.76	44976.	105.76	3028.1	.65509	94977.	.2660
Stddev	1.49	84.	1.13	4.4	.01425	175.	.1489
%RSD	.99721	.18738	1.0728	.14620	2.1753	.18379	55.97
#1	149.96	45022.	104.55	3026.9	.67012	95090.	.3914
#2	151.14	45028.	106.80	3033.0	.64178	94776.	.3051
#3	148.17	44879.	105.92	3024.4	.65336	95064.	.1015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	464.43	150.12	165.20	28240.	99290.	3996.	309.28
Stddev	.55	1.63	2.17	35.	472.	8.	3.31
%RSD	.11886	1.0886	1.3147	.12331	.4757	.2100	1.0702
#1	464.15	150.10	163.79	28219.	99670.	3987.	308.55
#2	464.08	151.76	167.70	28221.	99430.	4000.	312.89
#3	465.07	148.49	164.11	28280.	98760.	4002.	306.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005 Acquired: 11/21/2015 19:13:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.0742	79182.	10.729	93.675	66.713	234.39	558.2
Stddev	.2488	152.	.260	.987	.457	1.94	6.2
%RSD	8.0928	.19150	2.4238	1.0536	.68487	.82947	1.106
#1	2.9456	79345.	10.464	92.573	66.224	233.92	557.6
#2	2.9161	79157.	10.737	93.976	66.784	232.73	564.6
#3	3.3610	79045.	10.984	94.477	67.130	236.53	552.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0407	774.95	416.61
Stddev	2.2736	8.21	.67
%RSD	111.42	1.0593	.16156
#1	-.57683	771.48	416.68
#2	3.1736	784.33	415.91
#3	3.5252	769.05	417.25
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005 Acquired: 11/21/2015 19:13:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28271.	13990.	401750.
Stddev	58.	203.	3659.
%RSD	.20395	1.4539	.91077
#1	28249.	13775.	401300.
#2	28227.	14014.	398340.
#3	28336.	14180.	405620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.725%	102.52%	97.947%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005L(5) Acquired: 11/21/2015 19:17:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29.479	9152.7	20.420	608.74	.13419	19283.	.0355
Stddev	.441	48.2	1.518	2.81	.00859	41.	.2079
%RSD	1.4975	.52707	7.4316	.46111	6.4004	.21462	585.0
#1	29.620	9111.8	20.889	606.32	.12464	19241.	.0921
#2	29.833	9140.5	21.647	608.08	.13664	19284.	-.1948
#3	28.984	9205.9	18.723	611.81	.14129	19324.	.2094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	96.257	30.276	33.486	5747.2	21020.	837.5	61.936
Stddev	.348	.554	.704	14.6	85.	13.1	.530
%RSD	.36198	1.8305	2.1029	.25471	.4048	1.569	.85512
#1	95.979	30.533	32.907	5731.2	20950.	852.6	61.775
#2	96.144	30.655	34.270	5750.8	21010.	828.8	62.527
#3	96.648	29.640	33.281	5759.8	21110.	831.2	61.506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005L(5) Acquired: 11/21/2015 19:17:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01161	16900.	2.3492	20.124	14.842	46.884	111.3
Stddev	.02779	53.	.2755	.736	1.054	.928	1.0
%RSD	239.30	.31483	11.727	3.6566	7.1010	1.9800	.8543
#1	-.01438	16839.	2.6610	20.615	15.489	45.882	110.9
#2	.00831	16925.	2.1389	20.479	15.411	47.056	112.4
#3	.04091	16936.	2.2476	19.278	13.626	47.715	110.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.73773	153.79	85.439
Stddev	.51859	.94	.222
%RSD	70.295	.61335	.25989
#1	-.48555	153.13	85.331
#2	-.39346	154.87	85.293
#3	-1.3342	153.37	85.695
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005L(5) Acquired: 11/21/2015 19:17:54 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28678.	13934.	416690.
Stddev	82.	37.	3785.
%RSD	.28679	.26301	.90836
#1	28685.	13976.	418090.
#2	28757.	13919.	412400.
#3	28593.	13907.	419560.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.16%	102.11%	101.59%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005DU Acquired: 11/21/2015 19:22:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	141.90	42378.	111.40	3026.2	.60276	89540.	.3939
Stddev	1.47	67.	1.22	1.0	.02174	51.	.1583
%RSD	1.0359	.15866	1.0965	.03330	3.6075	.05687	40.18
#1	141.73	42434.	110.11	3027.1	.59391	89483.	.2519
#2	140.53	42396.	112.53	3026.5	.58683	89580.	.3653
#3	143.45	42303.	111.55	3025.1	.62753	89557.	.5645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	442.42	147.48	155.23	29437.	95550.	3752.	287.80
Stddev	.54	1.72	1.30	40.	167.	20.	2.72
%RSD	.12224	1.1693	.83839	.13580	.1745	.5232	.94438
#1	442.28	147.97	156.30	29399.	95740.	3732.	288.94
#2	441.96	145.56	153.78	29432.	95450.	3752.	284.70
#3	443.01	148.90	155.63	29479.	95460.	3772.	289.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005DU Acquired: 11/21/2015 19:22:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.6692	77331.	10.485	92.467	78.924	228.34	590.8
Stddev	.1132	53.	.249	.965	1.026	1.40	5.4
%RSD	2.4247	.06861	2.3757	1.0438	1.2999	.61397	.9197
#1	4.7864	77390.	10.385	93.581	79.160	227.16	592.6
#2	4.6609	77289.	10.301	91.880	79.811	227.97	584.7
#3	4.5604	77313.	10.768	91.940	77.800	229.89	595.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0785	763.87	405.14
Stddev	1.9323	7.60	.56
%RSD	92.969	.99547	.13922
#1	3.6921	767.02	404.52
#2	2.6061	755.19	405.29
#3	-.06289	769.38	405.62
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005DU Acquired: 11/21/2015 19:22:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2175D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27876.	13801.	396110.
Stddev	17.	304.	4935.
%RSD	.06264	2.2043	1.2459
#1	27896.	14033.	394560.
#2	27863.	13914.	401640.
#3	27870.	13457.	392140.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.335%	101.14%	96.572%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005MS Acquired: 11/21/2015 19:27:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	247.30	45631.	178.68	7041.3	104.00	95916.	89.36
Stddev	3.12	105.	.58	27.8	1.36	454.	.17
%RSD	1.2636	.22967	.32655	.39452	1.3060	.47345	.1864
#1	246.67	45513.	179.30	7013.8	103.28	95419.	89.17
#2	250.70	45713.	178.60	7069.4	105.57	96310.	89.50
#3	244.54	45668.	178.14	7040.8	103.16	96019.	89.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1337.5	531.43	627.88	28410.	98020.	4140.	1288.0
Stddev	.2	6.34	8.00	220.	70.	41.	15.6
%RSD	.01577	1.1937	1.2747	.77279	.0716	1.001	1.2125
#1	1337.6	528.29	624.22	28172.	98000.	4106.	1279.4
#2	1337.6	538.73	637.06	28604.	98100.	4128.	1306.1
#3	1337.2	527.26	622.37	28453.	97960.	4186.	1278.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005MS Acquired: 11/21/2015 19:27:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5556	78702.	906.22	125.46	144.26	418.78	580.1
Stddev	.1663	257.	.69	1.23	2.19	1.93	7.4
%RSD	6.5078	.32620	.07613	.97870	1.5161	.46047	1.269
#1	2.6767	78474.	905.62	124.80	146.78	421.01	576.6
#2	2.6241	78980.	906.07	126.88	142.93	417.68	588.6
#3	2.3660	78654.	906.98	124.70	143.06	417.66	575.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	89.483	1753.0	1337.5
Stddev	1.969	22.6	.8
%RSD	2.2010	1.2901	.05972
#1	90.770	1741.8	1337.5
#2	87.216	1779.0	1338.3
#3	90.464	1738.2	1336.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005MS Acquired: 11/21/2015 19:27:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27397.	13325.	390020.
Stddev	47.	132.	4220.
%RSD	.17232	.98888	1.0820
#1	27348.	13176.	390410.
#2	27402.	13426.	385620.
#3	27442.	13373.	394030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.645%	97.651%	95.087%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005A Acquired: 11/21/2015 19:32:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175DA

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	162.64	43508.	121.25	3250.8	10.985	99818.	9.382
Stddev	1.67	212.	.44	21.3	.150	356.	.063
%RSD	1.0247	.48667	.36695	.65581	1.3698	.35642	.6711
#1	163.25	43374.	120.75	3249.0	11.066	99554.	9.454
#2	160.75	43752.	121.43	3273.0	10.812	100220.	9.356
#3	163.91	43399.	121.58	3230.5	11.078	99677.	9.336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	540.23	162.49	203.75	26886.	101000.	13480.	323.15
Stddev	2.07	1.51	3.31	117.	790.	85.	3.84
%RSD	.38401	.92743	1.6242	.43528	.7820	.6328	1.1894
#1	539.48	162.92	205.39	26802.	101100.	13380.	324.81
#2	538.63	160.81	199.94	27020.	101700.	13530.	318.76
#3	542.58	163.73	205.91	26837.	100100.	13520.	325.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005A Acquired: 11/21/2015 19:32:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175DA

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5276	84167.	82.958	109.14	179.91	291.95	528.5
Stddev	.1607	441.	.373	1.09	1.00	.61	6.1
%RSD	6.3580	.52396	.44965	1.0007	.55815	.20809	1.152
#1	2.3464	84129.	83.103	107.90	180.62	292.28	531.5
#2	2.5838	84625.	82.534	109.94	180.35	291.25	521.5
#3	2.6527	83746.	83.236	109.58	178.76	292.33	532.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	44.790	835.52	515.98
Stddev	.426	10.02	2.23
%RSD	.95167	1.1992	.43305
#1	44.445	840.24	515.26
#2	44.658	824.01	514.19
#3	45.266	842.31	518.48
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-005A Acquired: 11/21/2015 19:32:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MX2175DA

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27898.	13893.	399010.
Stddev	67.	179.	1457.
%RSD	.24074	1.2894	.36510
#1	27949.	14057.	399160.
#2	27923.	13702.	400380.
#3	27822.	13922.	397480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.411%	101.82%	97.278%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89826-001 Acquired: 11/21/2015 19:36:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04687	15.709	-.81780	1.0767	.00706	23.733	-.0793
Stddev	.34786	66.247	.82503	.2016	.00689	3.897	.1061
%RSD	742.22	421.72	100.88	18.721	97.609	16.420	133.9
#1	-.17012	-39.096	-1.6756	1.2973	.01501	28.136	.0187
#2	.34583	89.328	-.74779	.90206	.00287	22.332	-.1920
#3	-.31631	-3.1055	-.03000	1.0307	.00329	20.730	-.0644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00728	.04953	.63278	15.197	757.2	3.305	.31916
Stddev	.14107	.33917	.82570	9.882	18.1	7.089	.04376
%RSD	1937.5	684.79	130.49	65.027	2.384	214.5	13.709
#1	-.13000	.19286	.54845	23.255	748.5	-1.823	.33794
#2	.15187	-.33778	-.14751	4.1708	745.1	11.40	.26915
#3	-.00002	.29351	1.4974	18.165	777.9	.3445	.35040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89826-001 Acquired: 11/21/2015 19:36:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54683	113.68	.39411	.01983	3.5233	.17715	.1516
Stddev	.24446	16.31	.09614	1.3857	.3016	1.4937	.0685
%RSD	44.706	14.348	24.394	6986.9	8.5607	843.20	45.20
#1	-.77999	99.711	.40516	1.3215	3.2424	1.0261	.1895
#2	-.56806	131.61	.48424	.17488	3.8421	-1.5476	.0725
#3	-.29244	109.73	.29292	-1.4369	3.4853	1.0529	.1927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4318	-.21363	.93223
Stddev	.2122	.29305	.03743
%RSD	14.823	137.18	4.0150
#1	1.6743	.07787	.92723
#2	1.3413	-.50821	.97191
#3	1.2798	-.21054	.89756
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89826-001 Acquired: 11/21/2015 19:36:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29104.	13713.	417780.
Stddev	76.	131.	7364.
%RSD	.26243	.95190	1.7628
#1	29024.	13619.	409490.
#2	29111.	13657.	423560.
#3	29176.	13862.	420290.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89826-002 Acquired: 11/21/2015 19:41:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.389	400.93	18.976	398.40	9.7450	10383.	9.226
Stddev	.949	74.04	.988	1.80	.3977	17.	.163
%RSD	4.8936	18.468	5.2085	.45146	4.0808	.16189	1.768
#1	18.962	459.29	18.030	397.11	9.9202	10371.	9.090
#2	20.476	317.64	20.002	400.46	10.025	10402.	9.181
#3	18.728	425.85	18.895	397.64	9.2898	10375.	9.407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.577	20.556	47.122	224.38	10550.	10260.	30.018
Stddev	.230	.944	1.624	5.11	28.	32.	1.169
%RSD	.24103	4.5923	3.4469	2.2754	.2653	.3132	3.8932
#1	95.602	21.052	47.481	219.41	10580.	10260.	30.461
#2	95.335	21.148	48.537	224.10	10540.	10300.	30.901
#3	95.794	19.467	45.349	229.61	10520.	10230.	28.693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89826-002 Acquired: 11/21/2015 19:41:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55661	10872.	76.354	18.353	119.03	67.586	.5979
Stddev	.12625	17.	.184	1.563	.04	1.506	.2669
%RSD	22.682	.15348	.24078	8.5192	.03265	2.2278	44.65
#1	-.51297	10861.	76.188	16.716	119.08	65.848	.3239
#2	-.69890	10891.	76.321	18.513	119.00	68.420	.8572
#3	-.45797	10863.	76.552	19.831	119.03	68.490	.6125
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.369	93.672	118.53
Stddev	.762	3.784	.40
%RSD	1.6426	4.0393	.33841
#1	47.242	95.060	118.57
#2	46.023	96.566	118.12
#3	45.842	89.391	118.92
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89826-002 Acquired: 11/21/2015 19:41:39 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27666.	13535.	418460.
Stddev	82.	15.	15799.
%RSD	.29750	.11436	3.7755
#1	27578.	13553.	413680.
#2	27679.	13526.	405610.
#3	27742.	13527.	436100.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001 Acquired: 11/21/2015 19:46:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.36462	100380.	49.839	730.32	3.6418	28032.
Stddev	.08689	153.	.833	2.44	.0099	50.
%RSD	23.829	.15275	1.6715	.33358	.27108	.17663
#1	.29396	100210.	50.732	729.65	3.6464	27975.
#2	.33827	100500.	49.083	728.29	3.6486	28064.
#3	.46164	100440.	49.703	733.02	3.6305	28056.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.980	70.135	188.54	602.54	F 262870.	8485.
Stddev	.040	.020	.59	2.05	178.	35.
%RSD	.6693	.02802	.31235	.34000	.06772	.4140
#1	6.015	70.149	188.53	602.79	262670.	8459.
#2	5.936	70.113	189.13	604.45	262960.	8525.
#3	5.989	70.144	187.95	600.38	262990.	8470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001 Acquired: 11/21/2015 19:46:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61690.	2873.7	3.1862	599.29	194.03	716.11
Stddev	94.	12.1	.0929	12.84	.73	3.11
%RSD	.1523	.42150	2.9165	2.1425	.37785	.43463
#1	61780.	2885.5	3.2928	613.96	194.04	717.77
#2	61590.	2861.3	3.1220	593.84	193.28	712.52
#3	61690.	2874.2	3.1439	590.08	194.75	718.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.561	4.1651	257.9	4.6502	133.65	2176.7
Stddev	2.054	2.1092	1.5	1.1531	.12	5.2
%RSD	19.449	50.640	.5965	24.796	.08952	.23963
#1	8.1948	3.7344	257.4	5.2882	133.78	2179.6
#2	11.884	2.3044	259.7	3.3191	133.54	2170.7
#3	11.605	6.4564	256.8	5.3433	133.65	2179.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001 Acquired: 11/21/2015 19:46:27 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27732.	13698.	404910.
Stddev	127.	194.	2118.
%RSD	.45722	1.4148	.52312
#1	27597.	13651.	403670.
#2	27751.	13911.	403720.
#3	27848.	13532.	407360.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.824%	100.38%	98.718%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(5) Acquired: 11/21/2015 19:51:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14902	21106.	9.0909	152.34	.77449	5956.1	1.177
Stddev	.13814	1496.	.9446	10.75	.01902	417.8	.194
%RSD	92.698	7.0890	10.391	7.0593	2.4553	7.0140	16.51
#1	.02698	20944.	9.3264	151.91	.77267	5917.5	1.068
#2	.12109	19698.	8.0509	141.81	.79434	5559.1	1.401
#3	.29899	22677.	9.8956	163.31	.75644	6391.9	1.062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.649	40.222	128.38	55498.	1780.	13110.	624.16
Stddev	.153	.315	.86	3918.	80.	935.	.74
%RSD	1.0414	.78333	.66921	7.0597	4.477	7.136	.11837
#1	14.650	40.555	127.85	55177.	1795.	13050.	624.36
#2	14.801	39.928	127.92	51750.	1694.	12200.	624.78
#3	14.496	40.182	129.37	59567.	1851.	14070.	623.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(5) Acquired: 11/21/2015 19:51:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32188	104.20	40.621	151.00	2.9843	1.0130	57.37
Stddev	.16701	16.52	.065	1.21	1.5240	1.2990	.88
%RSD	51.885	15.856	.15986	.80310	51.066	128.23	1.525
#1	.51086	98.846	40.621	150.94	1.2392	.50167	58.25
#2	.26071	91.022	40.556	152.24	4.0530	2.4898	56.50
#3	.19408	122.74	40.686	149.82	3.6607	.04746	57.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3099	28.169	452.55
Stddev	.5923	.124	.83
%RSD	45.212	.44138	.18302
#1	.71700	28.266	453.37
#2	1.9015	28.213	451.71
#3	1.3113	28.029	452.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(5) Acquired: 11/21/2015 19:51:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28044.	13254.	401480.
Stddev	113.	941.	1826.
%RSD	.40192	7.1013	.45490
#1	27963.	13399.	399400.
#2	27996.	14113.	402220.
#3	28172.	12248.	402820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.924%	97.126%	97.881%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU Acquired: 11/21/2015 19:56:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08487	89128.	56.566	317.63	3.7152	70239.
Stddev	.11987	109.	.736	.15	.0334	54.
%RSD	141.23	.12248	1.3018	.04876	.89796	.07743
#1	.03554	89003.	56.032	317.70	3.7324	70182.
#2	-.08596	89206.	56.261	317.46	3.6768	70244.
#3	-.20420	89175.	57.406	317.74	3.7365	70290.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.991	65.493	184.46	444.81	F 237170.	8282.
Stddev	.185	.285	1.19	1.94	476.	26.
%RSD	2.643	.43526	.64411	.43667	.20063	.3178
#1	6.816	65.822	184.98	446.45	236620.	8252.
#2	7.184	65.344	183.10	442.67	237450.	8292.
#3	6.973	65.314	185.31	445.32	237450.	8301.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU Acquired: 11/21/2015 19:56:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	77600.	2915.4	3.2685	559.26	172.02	932.79
Stddev	226.	27.0	.0689	25.30	.21	2.84
%RSD	.2906	.92579	2.1085	4.5246	.12023	.30476
#1	77340.	2946.3	3.2721	572.76	171.85	934.45
#2	77760.	2896.8	3.3355	530.07	172.25	929.51
#3	77700.	2903.0	3.1978	574.96	171.97	934.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.107	6.2172	349.2	3.1154	123.89	1716.5
Stddev	3.819	1.1818	1.9	1.4615	.51	1.9
%RSD	29.138	19.009	.5358	46.912	.40900	.10959
#1	16.905	7.5489	349.9	4.4260	123.67	1718.3
#2	13.148	5.8097	347.0	3.3807	123.53	1714.5
#3	9.2671	5.2931	350.5	1.5394	124.47	1716.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU Acquired: 11/21/2015 19:56:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27660.	13450.	397540.
Stddev	124.	79.	848.
%RSD	.44877	.58959	.21340
#1	27640.	13501.	398150.
#2	27793.	13489.	397890.
#3	27547.	13358.	396570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.571%	98.563%	96.919%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS Acquired: 11/21/2015 20:00:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.456	108290.	131.21	4514.6	103.62	36719.
Stddev	1.232	158.	.60	6.1	1.26	82.
%RSD	1.3185	.14589	.45565	.13544	1.2207	.22264
#1	92.738	108370.	131.74	4521.5	103.20	36813.
#2	94.879	108110.	130.56	4509.9	105.04	36680.
#3	92.752	108390.	131.32	4512.3	102.61	36665.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.32	956.46	646.90	958.00	F 273710.	11030.
Stddev	.12	1.11	8.54	12.43	568.	28.
%RSD	.1308	.11605	1.3208	1.2971	.20745	.2548
#1	94.18	955.69	644.45	953.49	274350.	11000.
#2	94.36	957.73	656.40	972.06	273520.	11030.
#3	94.41	955.97	639.84	948.47	273260.	11060.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS Acquired: 11/21/2015 20:00:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63930.	4959.2	3.0346	604.20	1073.2	1197.6
Stddev	229.	67.9	.1390	16.16	1.0	1.4
%RSD	.3577	1.3684	4.5816	2.6738	.09440	.11433
#1	64190.	4895.8	2.9465	586.51	1073.7	1196.8
#2	63850.	5030.8	3.1949	607.92	1074.0	1199.2
#3	63760.	4950.8	2.9624	618.17	1072.1	1196.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	77.530	176.23	266.1	90.280	1072.3	2847.4
Stddev	.692	1.07	3.7	2.466	12.9	3.7
%RSD	.89233	.60842	1.404	2.7313	1.2075	.13168
#1	77.764	175.15	264.1	92.625	1067.9	2846.4
#2	78.074	176.23	270.5	90.505	1086.8	2851.6
#3	76.751	177.30	263.9	87.709	1062.1	2844.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS Acquired: 11/21/2015 20:00:59 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28274.	13766.	404260.
Stddev	60.	106.	5333.
%RSD	.21077	.76686	1.3193
#1	28233.	13681.	404530.
#2	28247.	13884.	398790.
#3	28342.	13733.	409450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.737%	100.88%	98.557%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A Acquired: 11/21/2015 20:05:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.918	99267.	69.134	1131.9	13.775	37939.
Stddev	.491	77.	.420	1.6	.065	87.
%RSD	2.4648	.07794	.60707	.14540	.47330	.22918
#1	19.389	99302.	68.656	1131.9	13.712	37850.
#2	20.007	99321.	69.301	1130.2	13.773	37943.
#3	20.359	99179.	69.444	1133.5	13.842	38024.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.53	156.53	206.66	645.45	F 259350.	19180.
Stddev	.10	.21	.56	3.70	327.	13.
%RSD	.6823	.13274	.26882	.57356	.12597	.0663
#1	14.64	156.61	206.51	642.64	259020.	19160.
#2	14.49	156.30	206.19	644.06	259370.	19190.
#3	14.45	156.69	207.27	649.64	259670.	19180.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A Acquired: 11/21/2015 20:05:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70010.	2874.5	2.9918	11571.	259.54	703.15
Stddev	310.	44.7	.2560	23.	.48	1.94
%RSD	.4421	1.5540	8.5576	.19629	.18678	.27540
#1	69650.	2899.1	3.2838	11557.	259.72	704.27
#2	70200.	2901.4	2.8056	11597.	258.98	700.91
#3	70180.	2822.9	2.8862	11558.	259.90	704.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	118.76	69.072	265.2	46.498	229.23	2215.9
Stddev	1.53	.504	2.5	.177	1.42	3.3
%RSD	1.2844	.72958	.9360	.38170	.61896	.14760
#1	120.51	69.492	267.4	46.689	228.68	2217.7
#2	117.71	68.513	262.5	46.468	228.18	2212.1
#3	118.05	69.211	265.7	46.338	230.85	2217.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A Acquired: 11/21/2015 20:05:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27573.	13347.	396750.
Stddev	132.	111.	1624.
%RSD	.47776	.83355	.40934
#1	27421.	13429.	395090.
#2	27646.	13221.	398340.
#3	27652.	13393.	396820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.264%	97.815%	96.727%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-002 Acquired: 11/21/2015 20:10:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10079	108870.	54.734	352.38	4.4702	101720.
Stddev	.57258	349.	1.776	.78	.0393	243.
%RSD	568.07	.32096	3.2443	.22097	.87928	.23917
#1	.54154	108500.	52.732	351.55	4.4882	101450.
#2	-.28630	108930.	55.349	353.10	4.4252	101820.
#3	-.55762	109190.	56.120	352.48	4.4974	101900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.99	87.459	316.47	510.61	F 242480.	11410.
Stddev	.09	.265	2.78	4.22	692.	34.
%RSD	.7870	.30281	.87986	.82682	.28536	.2984
#1	11.03	87.193	318.45	512.75	241710.	11440.
#2	11.05	87.460	313.28	505.75	242700.	11370.
#3	10.89	87.723	317.66	513.33	243040.	11420.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-002 Acquired: 11/21/2015 20:10:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74890.	2861.2	3.0704	577.07	207.40	952.36
Stddev	342.	39.0	.2992	6.59	.57	3.24
%RSD	.4564	1.3636	9.7457	1.1424	.27450	.34012
#1	74510.	2902.8	2.7300	582.77	206.94	954.89
#2	75170.	2825.4	3.2920	578.60	207.22	948.71
#3	74990.	2855.3	3.1891	569.85	208.04	953.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.956	4.7343	285.0	4.0707	132.29	2300.4
Stddev	2.060	1.4550	2.4	.9627	1.09	6.5
%RSD	14.762	30.733	.8472	23.650	.82082	.28403
#1	11.609	6.1796	286.5	2.9700	133.09	2296.2
#2	15.465	3.2698	282.2	4.7556	131.06	2297.2
#3	14.794	4.7536	286.3	4.4866	132.73	2308.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-002 Acquired: 11/21/2015 20:10:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28439.	14122.	411840.
Stddev	108.	170.	2279.
%RSD	.37934	1.2062	.55345
#1	28373.	13927.	409550.
#2	28563.	14199.	414100.
#3	28380.	14240.	411860.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.32%	103.49%	100.41%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-003 Acquired: 11/21/2015 20:15:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.72132	124150.	47.259	442.70	5.3450	141090.
Stddev	.24681	474.	.533	1.09	.2321	325.
%RSD	34.216	.38169	1.1276	.24705	4.3420	.23043
#1	.86711	123670.	46.798	442.35	5.0978	140720.
#2	.43635	124170.	47.842	441.82	5.5583	141320.
#3	.86048	124610.	47.136	443.92	5.3788	141230.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8059	87.707	152.03	234.91	F 270500.	10620.
Stddev	.1273	.039	6.03	8.60	435.	24.
%RSD	15.79	.04441	3.9677	3.6620	.16080	.2295
#1	.9467	87.671	145.89	225.78	270030.	10600.
#2	.7719	87.703	157.95	242.87	270890.	10650.
#3	.6991	87.748	152.23	236.07	270570.	10620.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-003 Acquired: 11/21/2015 20:15:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87690.	F 11410.	2.4271	624.14	223.76	153.92
Stddev	242.	155.	.2319	9.01	.04	1.08
%RSD	.2757	1.3582	9.5533	1.4435	.01771	.70452
#1	87410.	11246.	2.1879	623.62	223.75	153.43
#2	87860.	11554.	2.6508	615.40	223.80	155.16
#3	87800.	11429.	2.4426	633.40	223.73	153.17
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.				
Low Limit		-10000.				

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23025	7.6213	211.5	13.169	164.02	750.32
Stddev	2.0256	2.5339	7.5	1.196	6.12	1.46
%RSD	879.77	33.248	3.567	9.0804	3.7337	.19429
#1	-1.6230	4.6970	203.4	14.547	157.90	751.20
#2	-.07897	9.1670	218.3	12.558	170.14	748.64
#3	2.3927	8.9999	212.8	12.401	164.03	751.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-003 Acquired: 11/21/2015 20:15:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27861.	14062.	388300.
Stddev	140.	47.	13493.
%RSD	.50269	.33532	3.4749
#1	27700.	14108.	401770.
#2	27951.	14065.	374790.
#3	27932.	14014.	388340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.280%	103.05%	94.668%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-004 Acquired: 11/21/2015 20:20:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27241	132510.	46.629	373.29	5.0696	201000.
Stddev	.23538	482.	1.528	1.74	.0700	1735.
%RSD	86.408	.36380	3.2760	.46650	1.3804	.86320
#1	.48826	131980.	45.198	371.98	4.9991	199130.
#2	.30753	132660.	48.238	372.63	5.1391	201320.
#3	.02144	132910.	46.450	375.27	5.0705	202550.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4344	77.769	152.04	253.58	F 296610.	9997.
Stddev	.1734	.156	2.55	4.42	1275.	17.
%RSD	39.92	.20112	1.6796	1.7412	.42973	.1654
#1	.4807	77.603	149.15	248.54	295520.	10010.
#2	.5800	77.913	154.00	256.77	296300.	10000.
#3	.2425	77.792	152.97	255.42	298010.	9979.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-004 Acquired: 11/21/2015 20:20:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	108400.	7179.2	2.8514	654.28	232.39	140.92
Stddev	319.	12.2	.3141	11.10	.07	1.23
%RSD	.2940	.17042	11.014	1.6968	.03127	.87354
#1	108100.	7165.2	3.1008	642.62	232.45	142.29
#2	108300.	7185.2	2.9546	655.49	232.31	139.91
#3	108700.	7187.4	2.4987	664.72	232.41	140.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7476	5.7656	226.9	9.0930	174.94	811.25
Stddev	.4517	.9066	3.4	.1486	2.95	.82
%RSD	25.847	15.725	1.480	1.6340	1.6864	.10094
#1	1.8658	5.5625	223.1	9.2124	171.63	811.69
#2	1.2486	4.9777	229.5	8.9266	177.30	810.31
#3	2.1285	6.7565	228.1	9.1401	175.88	811.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-004 Acquired: 11/21/2015 20:20:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27272.	13512.	387620.
Stddev	92.	29.	4210.
%RSD	.33602	.21652	1.0862
#1	27251.	13478.	390620.
#2	27372.	13531.	382810.
#3	27192.	13527.	389430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.201%	99.021%	94.501%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV004 Acquired: 11/21/2015 20:25:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	735.29	51878.	2555.7	10523.	1050.1	52568.	993.4
Stddev	19.73	40.	3.7	312.	23.0	40.	.7
%RSD	2.6832	.07776	.14486	2.9604	2.1905	.07519	.0740
#1	713.67	51903.	2556.8	10163.	1033.4	52548.	994.2
#2	752.33	51831.	2551.6	10706.	1076.4	52614.	992.8
#3	739.85	51900.	2558.8	10699.	1040.5	52542.	993.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4873.6	9973.9	12158.	25514.	40960.	50880.	5037.9
Stddev	6.9	278.4	206.	37.	117.	199.	118.8
%RSD	.14260	2.7914	1.6950	.14649	.2865	.3911	2.3588
#1	4881.1	9663.9	11955.	25484.	41050.	50680.	4901.1
#2	4867.4	10203.	12367.	25556.	41000.	51080.	5115.9
#3	4872.2	10055.	12153.	25501.	40820.	50860.	5096.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV004 Acquired: 11/21/2015 20:25:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.7	27260.	4912.2	9536.9	2495.9	1278.4	1004.
Stddev	1.3	17.	3.3	1.8	5.5	2.4	28.
%RSD	.13302	.06224	.06658	.01926	.22066	.19028	2.777
#1	1008.2	27246.	4916.0	9538.7	2499.8	1277.5	973.5
#2	1005.9	27255.	4910.0	9535.0	2489.6	1276.5	1028.
#3	1005.9	27279.	4910.7	9537.0	2498.4	1281.1	1012.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	928.57	2517.1	5027.2
Stddev	1.18	68.9	5.3
%RSD	.12664	2.7363	.10475
#1	927.22	2441.6	5033.3
#2	929.32	2576.5	5024.0
#3	929.18	2533.2	5024.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV004 Acquired: 11/21/2015 20:25:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26323.	12910.	395850.
Stddev	84.	137.	8609.
%RSD	.31867	1.0646	2.1749
#1	26359.	13029.	405500.
#2	26228.	12760.	388970.
#3	26384.	12941.	393080.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB004 Acquired: 11/21/2015 20:30:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09338	-19.752	-1.0909	.04557	-.01361	-3.5430	.0532
Stddev	.24195	33.682	.8033	.92147	.00853	3.0549	.1462
%RSD	259.11	170.52	73.634	2022.2	62.647	86.224	274.9
#1	-.37253	-58.262	-.83987	.80707	-.01968	-.97291	.1369
#2	.03620	-5.2126	-1.9898	.30839	-.01729	-6.9205	-.1156
#3	.05619	4.2180	-.44317	-.97876	-.00386	-2.7355	.1383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03833	.18054	.19980	8.2690	27.60	10.23	.02131
Stddev	.08210	.18843	.70516	4.4441	58.71	36.87	.05055
%RSD	214.22	104.37	352.94	53.745	212.7	360.3	237.18
#1	.13289	.00508	.22089	3.9465	55.65	52.65	.03289
#2	-.00311	.15683	-.51567	8.0350	67.02	-14.11	-.03402
#3	-.01480	.37970	.89417	12.825	-39.87	-7.841	.06507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB004 Acquired: 11/21/2015 20:30:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11242	-32.589	.29658	-.38079	1.4576	.60737	-.1305
Stddev	.23070	31.766	.17762	2.5708	1.1211	.78854	.0433
%RSD	205.21	97.477	59.888	675.14	76.915	129.83	33.19
#1	.37822	-59.515	.41648	-2.1615	.96174	-.27126	-.1508
#2	-.00516	-40.697	.38074	2.5665	.66994	1.2536	-.0807
#3	-.03580	2.4464	.09253	-1.5474	2.7412	.83978	-.1599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.87351	.15153	-.05234
Stddev	.99115	.15958	.08135
%RSD	113.47	105.31	155.42
#1	1.6569	.14561	.02168
#2	-.24077	.31400	-.13944
#3	1.2044	-.00500	-.03927
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB004 Acquired: 11/21/2015 20:30:36 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28441.	13030.	407370.
Stddev	124.	94.	1227.
%RSD	.43767	.72081	.30129
#1	28495.	13070.	407730.
#2	28530.	13098.	406000.
#3	28299.	12923.	408370.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-005 Acquired: 11/21/2015 20:35:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03572	136590.	57.663	395.63	5.7603	171330.
Stddev	.35733	393.	.427	1.90	.0579	700.
%RSD	1000.4	.28791	.74054	.48134	1.0044	.40873
#1	.00386	136220.	57.875	393.44	5.6963	170530.
#2	.40791	136540.	57.943	396.88	5.7756	171780.
#3	-.30462	137010.	57.172	396.58	5.8089	171700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5695	88.993	163.21	263.43	F 302260.	12780.
Stddev	.0629	.227	1.44	3.49	1336.	108.
%RSD	11.05	.25495	.88257	1.3257	.44196	.8438
#1	.4979	89.113	161.57	259.50	300720.	12730.
#2	.6160	88.731	163.83	264.65	303040.	12710.
#3	.5945	89.134	164.24	266.15	303020.	12900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-005 Acquired: 11/21/2015 20:35:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	111500.	6460.1	2.5075	701.22	242.23	196.94
Stddev	752.	29.9	.1155	24.55	.11	.61
%RSD	.6747	.46298	4.6064	3.5010	.04582	.30906
#1	110600.	6493.4	2.5958	686.68	242.15	197.43
#2	111900.	6451.2	2.3767	729.56	242.19	197.13
#3	112000.	6435.6	2.5499	687.41	242.36	196.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7360	5.2784	224.3	6.2278	177.56	897.92
Stddev	2.0287	1.7114	2.4	.5550	1.97	.99
%RSD	116.86	32.423	1.089	8.9110	1.1072	.11033
#1	3.1708	6.2534	221.6	5.9804	175.32	898.73
#2	-.58499	3.3023	225.3	6.8634	178.39	896.82
#3	2.6223	6.2794	226.2	5.8396	178.98	898.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-005 Acquired: 11/21/2015 20:35:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27863.	13730.	397910.
Stddev	84.	284.	2499.
%RSD	.30284	2.0716	.62798
#1	27950.	13925.	400770.
#2	27858.	13861.	396100.
#3	27781.	13403.	396870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.287%	100.62%	97.011%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-006 Acquired: 11/21/2015 20:40:15 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5469	115250.	76.519	445.09	4.1346	19648.
Stddev	.2783	1003.	1.160	3.02	.0286	129.
%RSD	17.993	.87032	1.5156	.67841	.69192	.65494
#1	1.3936	114230.	76.739	442.57	4.1557	19535.
#2	1.8682	116240.	75.265	448.44	4.1460	19788.
#3	1.3790	115290.	77.553	444.27	4.1020	19621.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.129	70.398	290.14	2206.1	F 353650.	10390.
Stddev	.056	.262	2.89	22.2	2193.	91.
%RSD	.9168	.37207	.99649	1.0063	.61998	.8733
#1	6.080	70.332	292.84	2226.1	351610.	10350.
#2	6.115	70.175	290.48	2210.1	355970.	10490.
#3	6.190	70.686	287.09	2182.2	353390.	10320.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-006 Acquired: 11/21/2015 20:40:15 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62530.	2412.9	4.5806	672.83	216.30	769.36
Stddev	353.	55.8	.1994	16.95	.52	2.32
%RSD	.5643	2.3137	4.3531	2.5192	.23982	.30146
#1	62170.	2442.7	4.3811	654.43	216.03	770.13
#2	62880.	2447.5	4.7799	687.81	215.97	766.76
#3	62520.	2348.5	4.5808	676.23	216.90	771.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.239	7.4296	333.2	3.8549	167.00	1979.1
Stddev	.890	.7014	3.8	.2641	1.68	6.7
%RSD	8.6896	9.4412	1.142	6.8512	1.0051	.33915
#1	10.641	8.0305	335.8	3.5576	168.60	1977.6
#2	10.858	7.5995	334.9	4.0623	167.16	1973.2
#3	9.2197	6.6588	328.8	3.9448	165.26	1986.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-006 Acquired: 11/21/2015 20:40:15 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28616.	14172.	411670.
Stddev	52.	132.	2888.
%RSD	.18287	.93082	.70159
#1	28559.	14315.	409540.
#2	28661.	14147.	410520.
#3	28629.	14055.	414960.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.94%	103.86%	100.37%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-007 Acquired: 11/21/2015 20:45:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.96552	129430.	86.110	520.66	5.4349	90211.
Stddev	.09638	314.	2.616	.16	.0401	197.
%RSD	9.9823	.24283	3.0384	.02995	.73760	.21800
#1	1.0610	129430.	84.712	520.60	5.3946	89983.
#2	.96732	129750.	84.490	520.54	5.4747	90327.
#3	.86825	129120.	89.129	520.83	5.4354	90321.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.42	98.360	486.32	848.42	F 303610.	11850.
Stddev	.16	1.813	4.51	6.77	968.	37.
%RSD	1.198	1.8433	.92777	.79748	.31881	.3081
#1	13.23	97.336	481.31	840.62	302510.	11810.
#2	13.48	97.290	487.61	851.80	303970.	11860.
#3	13.54	100.45	490.05	852.82	304350.	11880.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-007 Acquired: 11/21/2015 20:45:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93590.	3151.0	5.7854	933.86	247.56	1378.3
Stddev	217.	85.2	.1920	25.39	4.50	34.3
%RSD	.2319	2.7039	3.3186	2.7193	1.8163	2.4878
#1	93340.	3053.1	5.5638	940.72	244.67	1358.5
#2	93690.	3208.2	5.8938	955.13	245.27	1358.4
#3	93740.	3191.7	5.8988	905.75	252.74	1417.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.000	6.2296	327.9	5.3003	179.33	3051.6
Stddev	1.615	.2290	2.3	.6843	1.32	57.3
%RSD	14.681	3.6753	.7050	12.911	.73671	1.8770
#1	11.850	6.3007	325.3	5.6393	177.90	3016.0
#2	9.1376	5.9735	328.8	5.7490	179.58	3021.1
#3	12.012	6.4145	329.6	4.5127	180.50	3117.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-007 Acquired: 11/21/2015 20:45:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28139.	14202.	404840.
Stddev	535.	65.	3977.
%RSD	1.9004	.45832	.98230
#1	28444.	14159.	409360.
#2	28450.	14169.	401890.
#3	27521.	14277.	403270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.260%	104.07%	98.700%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-008 Acquired: 11/21/2015 20:49:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49610	123600.	44.322	413.19	5.2559	166240.
Stddev	.58157	448.	1.450	1.47	.0350	577.
%RSD	117.23	.36264	3.2714	.35674	.66690	.34714
#1	-1.0274	123080.	44.078	411.67	5.2168	165650.
#2	.12522	123870.	43.009	413.29	5.2845	166280.
#3	-.58608	123850.	45.878	414.62	5.2664	166800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4781	74.373	148.56	214.98	F 266220.	13450.
Stddev	.0788	.066	1.65	2.62	672.	100.
%RSD	16.49	.08906	1.1075	1.2193	.25234	.7425
#1	.3905	74.345	146.85	212.01	265640.	13340.
#2	.5432	74.326	148.70	216.97	266070.	13470.
#3	.5006	74.449	150.13	215.97	266960.	13530.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-008 Acquired: 11/21/2015 20:49:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	84300.	6213.8	2.0016	594.41	215.21	138.21
Stddev	294.	85.8	.3564	7.86	.32	.46
%RSD	.3481	1.3813	17.808	1.3216	.14918	.33096
#1	84010.	6131.5	1.8670	585.33	214.86	138.31
#2	84290.	6207.0	1.7320	598.96	215.29	137.71
#3	84600.	6302.8	2.4057	598.93	215.49	138.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3652	6.7839	217.5	5.6036	157.03	726.79
Stddev	1.9772	2.3939	2.2	1.0994	1.22	1.04
%RSD	83.594	35.288	.9933	19.620	.77805	.14319
#1	.16419	4.0369	215.1	6.0145	155.62	726.29
#2	3.9910	8.4246	218.4	6.4384	157.77	726.10
#3	2.9405	7.8902	219.1	4.3579	157.70	727.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-008 Acquired: 11/21/2015 20:49:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28029.	13818.	405370.
Stddev	119.	179.	1840.
%RSD	.42558	1.2987	.45390
#1	27994.	14026.	407410.
#2	27931.	13721.	404890.
#3	28162.	13709.	403820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.873%	101.27%	98.830%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001 Acquired: 11/21/2015 20:54:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0010	34758.	36.456	437.20	2.6869	F 362870.
Stddev	.0636	351.	.514	4.55	.0449	3375.
%RSD	.90866	1.0095	1.4106	1.0413	1.6690	.93007
#1	7.0723	34366.	35.884	431.94	2.7368	361070.
#2	6.9807	35042.	36.605	439.65	2.6500	366760.
#3	6.9500	34867.	36.880	440.00	2.6739	360770.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.74	34.079	483.75	315.44	F 205430.	7307.
Stddev	.11	.238	4.06	2.49	2336.	116.
%RSD	.6389	.69886	.83847	.78848	1.1371	1.580
#1	17.87	34.047	486.95	317.76	202740.	7177.
#2	17.65	34.331	479.19	312.82	206590.	7348.
#3	17.70	33.858	485.10	315.75	206960.	7397.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001 Acquired: 11/21/2015 20:54:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	132400.	3345.8	14.721	1297.0	248.87	581.86
Stddev	1589.	25.9	.150	4.2	.28	.30
%RSD	1.200	.77398	1.0216	.32626	.11121	.05083
#1	130500.	3324.5	14.793	1298.8	248.91	581.63
#2	133200.	3338.2	14.548	1300.0	248.57	582.19
#3	133300.	3374.6	14.822	1292.2	249.12	581.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3649	9.0930	822.0	5.8337	112.18	2227.8
Stddev	2.0930	1.3190	7.4	.4285	1.23	3.3
%RSD	88.506	14.505	.8995	7.3443	1.1007	.14922
#1	4.6447	8.5291	827.7	5.3397	113.23	2231.6
#2	1.9196	10.600	813.6	6.0582	110.82	2226.0
#3	.53032	8.1497	824.6	6.1033	112.50	2225.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001 Acquired: 11/21/2015 20:54:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26618.	13353.	382660.
Stddev	158.	171.	3581.
%RSD	.59231	1.2777	.93583
#1	26447.	13543.	378530.
#2	26649.	13212.	384650.
#3	26758.	13305.	384810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.896%	97.857%	93.293%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001L(5) Acquired: 11/21/2015 20:59:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3062	7197.7	6.7983	88.927	.53614	76713.	3.359
Stddev	.1036	50.3	1.5131	.236	.01154	138.	.022
%RSD	7.9313	.69949	22.257	.26484	2.1533	.17928	.6544
#1	1.4155	7189.9	7.6347	89.141	.54947	76762.	3.384
#2	1.2095	7251.4	7.7085	88.675	.52959	76558.	3.353
#3	1.2935	7151.7	5.0517	88.964	.52935	76820.	3.341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0937	98.943	67.070	42371.	1392.	27520.	707.05
Stddev	.0698	.997	1.149	112.	52.	87.	5.85
%RSD	.98391	1.0080	1.7131	.26439	3.753	.3168	.82671
#1	7.1742	97.934	65.746	42453.	1334.	27580.	700.96
#2	7.0574	98.966	67.810	42243.	1436.	27550.	707.58
#3	7.0496	99.928	67.654	42417.	1407.	27420.	712.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001L(5) Acquired: 11/21/2015 20:59:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.6807	207.42	51.920	123.35	2.2938	2.5000	167.2
Stddev	.1984	14.12	.346	1.78	.2250	.5542	1.3
%RSD	7.3995	6.8061	.66733	1.4435	9.8098	22.167	.7847
#1	2.9024	191.34	51.986	124.99	2.5521	2.7119	165.8
#2	2.5199	217.78	51.545	123.61	2.1892	1.8711	167.4
#3	2.6199	213.15	52.229	121.46	2.1401	2.9170	168.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.92221	23.095	463.74
Stddev	.66695	.189	.25
%RSD	72.321	.81698	.05337
#1	1.1108	23.021	464.01
#2	.18127	22.954	463.70
#3	1.4745	23.309	463.52
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001L(5) Acquired: 11/21/2015 20:59:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27498.	13105.	396850.
Stddev	179.	133.	1969.
%RSD	.64984	1.0124	.49621
#1	27692.	12952.	399030.
#2	27463.	13168.	396360.
#3	27339.	13193.	395180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.000%	96.035%	96.753%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001DU Acquired: 11/21/2015 21:04:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7398	37384.	35.702	451.81	2.5437	281640.
Stddev	.3050	26.	1.378	.40	.0347	1420.
%RSD	6.4341	.06821	3.8586	.08882	1.3641	.50401
#1	4.6369	37355.	35.684	452.15	2.5472	281950.
#2	4.4996	37390.	37.088	451.37	2.5074	280080.
#3	5.0829	37405.	34.333	451.93	2.5765	282870.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.96	32.140	377.82	319.06	F 172560.	8276.
Stddev	.13	.025	4.42	3.15	304.	26.
%RSD	.8725	.07877	1.1697	.98580	.17592	.3160
#1	14.92	32.110	380.36	321.34	172300.	8248.
#2	15.10	32.155	372.71	315.47	172500.	8280.
#3	14.85	32.153	380.37	320.37	172890.	8300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001DU Acquired: 11/21/2015 21:04:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80660.	3030.3	12.509	1320.3	202.66	433.75
Stddev	66.	36.9	.302	16.6	.38	.16
%RSD	.0822	1.2176	2.4116	1.2595	.18534	.03584
#1	80650.	3060.0	12.760	1305.9	202.98	433.79
#2	80600.	2989.0	12.175	1338.5	202.25	433.88
#3	80730.	3042.0	12.593	1316.5	202.75	433.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.2988	8.5226	865.6	5.4783	114.68	1781.2
Stddev	.6365	1.8321	9.7	1.0912	1.25	1.9
%RSD	19.296	21.497	1.120	19.918	1.0940	.10807
#1	3.9946	8.0411	871.5	4.2272	115.34	1783.3
#2	3.1561	6.9793	854.5	5.9751	113.23	1779.6
#3	2.7458	10.547	871.0	6.2328	115.47	1780.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001DU Acquired: 11/21/2015 21:04:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27132.	13443.	390230.
Stddev	158.	79.	3937.
%RSD	.58228	.59037	1.0088
#1	27056.	13363.	388500.
#2	27026.	13444.	394740.
#3	27313.	13522.	387460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.708%	98.515%	95.139%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001MS Acquired: 11/21/2015 21:09:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	71.181	47446.	90.674	3138.6	72.299	F 367830.
Stddev	.951	120.	1.730	15.5	.502	5965.
%RSD	1.3361	.25264	1.9081	.49323	.69451	1.6217
#1	70.811	47308.	92.447	3124.8	71.723	370490.
#2	70.470	47528.	90.586	3155.4	72.533	372010.
#3	72.261	47500.	88.990	3135.6	72.642	361000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	75.04	621.42	643.27	687.42	F 197060.	10840.
Stddev	.12	.63	4.46	4.84	823.	23.
%RSD	.1575	.10192	.69346	.70441	.41761	.2121
#1	74.90	620.89	638.14	681.88	196210.	10810.
#2	75.08	621.25	646.23	689.47	197850.	10860.
#3	75.13	622.12	645.45	690.89	197110.	10840.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001MS Acquired: 11/21/2015 21:09:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	114500.	4107.3	16.878	1407.8	806.26	472.67
Stddev	362.	24.1	.182	10.7	1.19	1.32
%RSD	.3161	.58594	1.0792	.75689	.14723	.27915
#1	114200.	4098.6	17.003	1405.0	805.18	473.55
#2	114900.	4134.5	16.669	1398.9	806.06	471.16
#3	114300.	4088.7	16.963	1419.6	807.53	473.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.243	126.81	1014.	60.223	759.71	2475.8
Stddev	1.877	1.07	7.	1.366	5.13	3.7
%RSD	5.3251	.84097	.6501	2.2689	.67514	.15026
#1	36.162	126.08	1006.	59.704	753.79	2473.2
#2	36.483	126.31	1016.	59.193	762.56	2474.2
#3	33.084	128.03	1018.	61.773	762.79	2480.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001MS Acquired: 11/21/2015 21:09:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27079.	13424.	388560.
Stddev	69.	231.	2329.
%RSD	.25372	1.7235	.59933
#1	27057.	13374.	390730.
#2	27156.	13222.	386100.
#3	27024.	13677.	388850.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.523%	98.377%	94.732%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001A Acquired: 11/21/2015 21:14:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.255	34411.	56.355	839.37	13.208	F 372730.
Stddev	.601	77.	1.354	2.85	.228	9249.
%RSD	2.2046	.22447	2.4030	.34011	1.7277	2.4814
#1	26.584	34425.	56.827	840.26	12.947	362230.
#2	27.439	34328.	57.410	836.17	13.307	376310.
#3	27.743	34480.	54.828	841.66	13.370	379660.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.66	123.63	499.76	360.25	F 201010.	18470.
Stddev	.31	.11	8.07	4.67	750.	138.
%RSD	1.153	.08812	1.6141	1.2953	.37329	.7454
#1	26.77	123.53	490.45	354.89	200930.	18370.
#2	26.31	123.61	504.35	362.41	200310.	18410.
#3	26.90	123.75	504.49	363.44	201800.	18630.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001A Acquired: 11/21/2015 21:14:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	139200.	3344.4	14.517	12722.	315.11	586.33
Stddev	476.	115.0	.195	88.	.41	1.59
%RSD	.3417	3.4391	1.3421	.69209	.13078	.27036
#1	138900.	3227.7	14.632	12686.	315.53	585.20
#2	138900.	3457.7	14.292	12658.	314.70	585.64
#3	139700.	3347.9	14.628	12823.	315.10	588.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117.51	76.938	814.7	47.418	211.18	2298.3
Stddev	2.30	.043	13.0	.571	4.05	2.2
%RSD	1.9533	.05635	1.589	1.2046	1.9191	.09397
#1	118.52	76.914	799.8	47.871	206.50	2299.2
#2	119.13	76.912	822.4	46.776	213.32	2295.9
#3	114.89	76.988	821.9	47.605	213.71	2299.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001A Acquired: 11/21/2015 21:14:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26322.	13305.	378150.
Stddev	65.	109.	5969.
%RSD	.24659	.81697	1.5784
#1	26390.	13427.	385040.
#2	26314.	13270.	374650.
#3	26261.	13218.	374760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	92.851%	97.504%	92.193%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-002 Acquired: 11/21/2015 21:19:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0103	41757.	28.546	320.26	2.2020	238160.	5.085
Stddev	.6853	64.	.860	1.20	.0397	4173.	.018
%RSD	34.087	.15269	3.0122	.37624	1.8014	1.7520	.3632
#1	1.3752	41727.	29.226	318.87	2.1694	237210.	5.078
#2	2.7366	41831.	27.579	320.84	2.2462	234540.	5.106
#3	1.9192	41714.	28.832	321.05	2.1904	242730.	5.072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.101	200.92	276.73	121850.	9738.	101100.	2380.2
Stddev	.200	2.53	3.47	320.	69.	407.	28.1
%RSD	.57066	1.2597	1.2532	.26286	.7049	.4028	1.1801
#1	34.875	198.10	273.59	121500.	9666.	100600.	2356.0
#2	35.176	202.98	280.45	122130.	9747.	101200.	2411.0
#3	35.254	201.68	276.16	121930.	9802.	101400.	2373.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-002 Acquired: 11/21/2015 21:19:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.9269	837.55	136.02	200.87	2.0130	7.1497	845.8
Stddev	.1592	4.70	.33	1.20	.8171	.9145	9.0
%RSD	2.0078	.56158	.24303	.59900	40.590	12.790	1.062
#1	8.0971	836.64	135.93	199.90	1.6687	6.1141	836.2
#2	7.7817	842.65	135.74	200.51	1.4244	7.8459	854.0
#3	7.9019	833.37	136.38	202.22	2.9459	7.4892	847.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	4.1994	114.69	973.01
Stddev	1.0036	.80	1.50
%RSD	23.898	.69558	.15406
#1	3.0574	113.78	972.02
#2	4.9409	115.09	972.28
#3	4.5998	115.22	974.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-002 Acquired: 11/21/2015 21:19:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27054.	13088.	390300.
Stddev	61.	94.	4103.
%RSD	.22485	.71824	1.0511
#1	27035.	13091.	395010.
#2	27123.	13180.	387540.
#3	27006.	12992.	388340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.435%	95.911%	95.155%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-003 Acquired: 11/21/2015 21:24:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8297	36492.	67.657	492.15	3.0966	F 343150.
Stddev	.2256	124.	1.093	1.18	.0248	10299.
%RSD	12.329	.33905	1.6150	.23972	.80019	3.0014
#1	2.0441	36406.	68.010	492.62	3.0770	331340.
#2	1.8507	36634.	66.431	493.02	3.1244	347770.
#3	1.5944	36437.	68.529	490.81	3.0883	350320.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.550	62.184	436.06	320.66	F 579220.	5819.
Stddev	.127	.038	4.31	3.31	9011.	53.
%RSD	2.781	.06101	.98815	1.0310	1.5557	.9138
#1	4.461	62.216	434.04	319.44	581370.	5758.
#2	4.695	62.193	441.00	324.40	569330.	5853.
#3	4.494	62.142	433.13	318.14	586960.	5847.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-003 Acquired: 11/21/2015 21:24:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103600.	6003.7	24.142	1340.3	355.70	294.52
Stddev	726.	34.2	.332	19.6	.89	1.67
%RSD	.7001	.56962	1.3732	1.4600	.24881	.56684
#1	103900.	6036.7	24.067	1358.9	355.34	295.11
#2	102800.	5968.4	23.855	1319.9	355.05	295.82
#3	104200.	6005.8	24.505	1342.1	356.71	292.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.74588	12.406	1800.	9.8637	162.53	1677.7
Stddev	1.9256	1.346	15.	2.0113	1.43	.9
%RSD	258.17	10.853	.8431	20.391	.88138	.05578
#1	2.3586	12.433	1791.	11.160	162.02	1677.9
#2	1.2652	13.739	1818.	10.884	164.14	1678.6
#3	-1.3862	11.047	1791.	7.5468	161.41	1676.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-003 Acquired: 11/21/2015 21:24:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26405.	13191.	379590.
Stddev	137.	139.	2266.
%RSD	.51853	1.0501	.59704
#1	26291.	13214.	378750.
#2	26368.	13317.	377870.
#3	26557.	13042.	382160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.146%	96.667%	92.545%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-002(2) Acquired: 11/21/2015 21:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13182	43362.	10.136	107.10	1.5281	5264.8	.0125
Stddev	.26490	217.	1.253	.47	.0214	21.6	.1239
%RSD	200.96	.50151	12.360	.43496	1.4016	.40995	992.6
#1	.26027	43111.	8.7891	107.07	1.5257	5242.0	.1548
#2	-.17281	43485.	11.267	107.59	1.5080	5267.4	-.0718
#3	.30800	43490.	10.351	106.66	1.5507	5285.0	-.0455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.287	56.953	57.194	90094.	3150.	22680.	757.15
Stddev	.225	1.051	.550	232.	30.	172.	13.22
%RSD	.92669	1.8449	.96105	.25805	.9377	.7598	1.7460
#1	24.104	57.308	57.109	89861.	3119.	22530.	757.52
#2	24.219	55.771	56.691	90096.	3178.	22650.	743.75
#3	24.538	57.781	57.781	90326.	3151.	22870.	770.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-002(2) Acquired: 11/21/2015 21:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35899	129.03	73.580	32.341	2.0110	2.7560	79.02
Stddev	.15065	9.65	.136	1.046	1.8752	.9501	1.55
%RSD	41.965	7.4761	.18537	3.2351	93.246	34.474	1.956
#1	.18961	136.97	73.471	32.543	3.0727	1.6604	79.40
#2	.40936	131.83	73.536	33.271	3.1145	3.3528	77.32
#3	.47800	118.29	73.733	31.208	-.15414	3.2548	80.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.54650	48.920	212.16
Stddev	1.0603	.622	.33
%RSD	194.02	1.2721	.15501
#1	.28961	48.438	212.44
#2	-.36176	48.698	212.24
#3	1.7116	49.622	211.80
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-002(2) Acquired: 11/21/2015 21:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC794

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28385.	13354.	402180.
Stddev	109.	91.	7366.
%RSD	.38569	.68114	1.8315
#1	28288.	13252.	402130.
#2	28362.	13424.	409560.
#3	28504.	13387.	394830.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.13%	97.866%	98.051%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-003(2) Acquired: 11/21/2015 21:34:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15562	55696.	14.597	154.84	1.6784	5160.5	.5356
Stddev	.20275	280.	.777	.73	.0219	15.1	.0888
%RSD	130.28	.50196	5.3226	.47060	1.3041	.29224	16.59
#1	-.08767	55394.	13.821	154.08	1.6945	5145.3	.6360
#2	.00442	55747.	14.594	154.92	1.6535	5175.5	.5033
#3	-.38362	55946.	15.375	155.53	1.6871	5160.7	.4674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.724	85.344	69.781	117500.	3704.	29420.	1377.7
Stddev	.083	.692	.246	225.	13.	170.	7.6
%RSD	.20331	.81077	.35257	.19134	.3568	.5776	.54843
#1	40.659	86.110	70.041	117330.	3716.	29230.	1386.0
#2	40.695	85.159	69.751	117760.	3705.	29520.	1371.2
#3	40.817	84.763	69.551	117410.	3690.	29530.	1375.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-003(2) Acquired: 11/21/2015 21:34:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13494	188.94	91.809	86.207	.99085	.93044	174.1
Stddev	.14615	2.58	.414	1.224	1.0340	.58845	1.6
%RSD	108.30	1.3642	.45087	1.4196	104.36	63.244	.9197
#1	-.25901	191.76	91.384	87.417	-.17321	1.1001	175.9
#2	.02616	188.37	91.833	86.234	1.3429	1.4154	173.3
#3	-.17196	186.70	92.210	84.970	1.8029	.27579	173.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.16550	60.860	348.47
Stddev	2.5128	.515	.58
%RSD	1518.3	.84667	.16520
#1	2.6797	61.454	348.36
#2	-2.3459	60.528	347.96
#3	.16265	60.598	349.10
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-003(2) Acquired: 11/21/2015 21:34:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC795

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27867.	13147.	396170.
Stddev	81.	55.	2571.
%RSD	.28903	.41918	.64885
#1	27890.	13199.	393210.
#2	27778.	13155.	397400.
#3	27934.	13089.	397890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.302%	96.349%	96.585%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-013(2) Acquired: 11/21/2015 21:39:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31372	45812.	11.743	133.44	1.5713	4002.0	.3777
Stddev	.22910	1465.	.524	4.11	.0260	140.4	.0662
%RSD	73.028	3.1978	4.4601	3.0812	1.6546	3.5075	17.52
#1	-.49307	45836.	11.162	134.57	1.5828	4026.1	.4523
#2	-.05563	44336.	12.179	128.88	1.5896	3851.1	.3549
#3	-.39246	47265.	11.888	136.86	1.5415	4128.7	.3260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.320	62.998	55.966	100170.	3584.	20590.	1132.0
Stddev	.255	.091	.712	3259.	59.	660.	4.8
%RSD	.72208	.14423	1.2716	3.2537	1.657	3.207	.42514
#1	35.080	62.899	55.146	100690.	3600.	20780.	1127.0
#2	35.292	63.015	56.422	96677.	3518.	19850.	1136.6
#3	35.588	63.079	56.329	103130.	3633.	21130.	1132.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-013(2) Acquired: 11/21/2015 21:39:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02244	165.42	74.660	62.417	.96374	3.5042	100.8
Stddev	.25707	35.40	.439	.593	.82154	1.2676	.4
%RSD	1145.4	21.401	.58769	.95059	85.245	36.173	.4277
#1	.16509	201.59	74.878	62.167	1.8547	4.3946	100.4
#2	.17656	130.85	74.155	61.989	.80046	4.0651	100.8
#3	-.27432	163.81	74.948	63.094	.23611	2.0530	101.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4265	48.442	266.19
Stddev	.3201	.291	.31
%RSD	22.443	.59988	.11794
#1	1.5858	48.452	266.27
#2	1.6358	48.147	265.84
#3	1.0580	48.728	266.46
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-013(2) Acquired: 11/21/2015 21:39:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27999.	13280.	400300.
Stddev	39.	425.	2465.
%RSD	.13946	3.2038	.61590
#1	28043.	13177.	401980.
#2	27981.	13748.	397470.
#3	27972.	12916.	401450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.766%	97.322%	97.593%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-014(2) Acquired: 11/21/2015 21:44:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40397	51667.	20.260	156.32	1.9152	16589.	1.477
Stddev	.53533	139.	.610	.60	.0257	36.	.096
%RSD	132.52	.26889	3.0127	.38551	1.3401	.21734	6.513
#1	-.68091	51751.	20.901	156.77	1.8988	16615.	1.507
#2	-.74409	51507.	20.193	156.56	1.9448	16603.	1.369
#3	.21310	51744.	19.685	155.64	1.9020	16548.	1.554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.820	119.20	99.840	109690.	5250.	29550.	1183.2
Stddev	.208	.55	.489	210.	49.	56.	9.7
%RSD	.52185	.46244	.48951	.19131	.9392	.1883	.82284
#1	40.050	118.67	100.28	109910.	5305.	29510.	1176.5
#2	39.644	119.77	99.924	109670.	5208.	29610.	1194.4
#3	39.767	119.15	99.315	109490.	5238.	29520.	1178.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-014(2) Acquired: 11/21/2015 21:44:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2594	382.35	89.721	123.93	2.7731	3.0535	341.7
Stddev	.1501	5.63	.116	1.15	1.1195	2.2944	3.6
%RSD	11.917	1.4720	.12930	.92639	40.368	75.141	1.044
#1	1.1817	376.29	89.609	124.84	1.7538	3.1785	339.5
#2	1.1641	387.41	89.841	124.30	3.9712	5.2828	345.8
#3	1.4324	383.35	89.712	122.64	2.5943	.69912	339.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0466	67.877	550.61
Stddev	.5489	.812	.63
%RSD	52.447	1.1964	.11395
#1	1.2117	67.270	550.93
#2	1.4941	68.799	549.88
#3	.43412	67.561	551.00
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-014(2) Acquired: 11/21/2015 21:44:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28139.	13276.	406660.
Stddev	20.	47.	3418.
%RSD	.07150	.35525	.84050
#1	28116.	13232.	409140.
#2	28155.	13270.	402760.
#3	28144.	13326.	408090.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.260%	97.290%	99.145%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-015(5) Acquired: 11/21/2015 21:48:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49422	28585.	2.1555	58.250	.92531	2956.2	.5269
Stddev	.69021	147.	.9466	.370	.02896	7.5	.0803
%RSD	139.66	.51445	43.916	.63472	3.1299	.25512	15.24
#1	.15383	28516.	1.0828	57.879	.95659	2952.4	.6129
#2	-.41648	28754.	2.8738	58.252	.89942	2964.9	.5139
#3	-1.2200	28485.	2.5099	58.618	.91992	2951.3	.4539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.946	43.471	35.432	59771.	2087.	14280.	512.52
Stddev	.061	.386	.305	152.	62.	30.	7.38
%RSD	.30385	.88804	.86169	.25418	2.973	.2130	1.4400
#1	20.010	43.916	35.483	59688.	2055.	14250.	521.05
#2	19.939	43.267	35.104	59946.	2047.	14310.	508.38
#3	19.889	43.229	35.708	59678.	2158.	14270.	508.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-015(5) Acquired: 11/21/2015 21:48:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37269	15.768	49.903	29.784	1.8884	1.5228	48.13
Stddev	.11344	13.799	.068	1.299	.9950	1.5272	2.46
%RSD	30.437	87.510	.13670	4.3608	52.690	100.29	5.102
#1	-.44824	31.701	49.962	29.607	2.9433	.33934	47.44
#2	-.24225	7.9758	49.828	31.161	.96677	.98218	50.85
#3	-.42759	7.6287	49.917	28.582	1.7550	3.2468	46.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1783	28.851	210.61
Stddev	1.1843	.728	.36
%RSD	100.51	2.5236	.17259
#1	-.18804	29.671	210.44
#2	1.8121	28.605	210.36
#3	1.9110	28.278	211.03
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-015(5) Acquired: 11/21/2015 21:48:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28217.	13226.	404450.
Stddev	48.	80.	5568.
%RSD	.16854	.60722	1.3766
#1	28207.	13265.	398020.
#2	28176.	13279.	407730.
#3	28269.	13133.	407590.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.538%	96.922%	98.604%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-016(5) Acquired: 11/21/2015 21:53:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09942	30423.	4.1242	51.174	1.0974	3640.0	.3657
Stddev	.19074	141.	.0475	.081	.0228	6.8	.0546
%RSD	191.86	.46279	1.1528	.15779	2.0738	.18616	14.93
#1	.27498	30308.	4.1577	51.266	1.1233	3635.6	.4263
#2	.12680	30380.	4.0698	51.139	1.0806	3636.7	.3203
#3	-.10353	30580.	4.1450	51.116	1.0882	3647.8	.3505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.528	41.798	66.389	71820.	1723.	16430.	555.88
Stddev	.108	.566	1.544	112.	66.	51.	10.42
%RSD	.55071	1.3538	2.3257	.15598	3.804	.3112	1.8738
#1	19.627	42.448	68.056	71692.	1712.	16390.	567.75
#2	19.542	41.411	65.008	71866.	1664.	16410.	548.28
#3	19.414	41.536	66.102	71902.	1794.	16490.	551.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-016(5) Acquired: 11/21/2015 21:53:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21689	19.374	54.290	33.794	.55168	1.7011	38.77
Stddev	.13523	14.609	.476	1.293	.86202	.3592	.81
%RSD	62.350	75.406	.87699	3.8265	156.25	21.117	2.083
#1	-.33113	19.685	53.927	32.473	.14546	1.5489	39.67
#2	-.06758	4.6120	54.829	35.057	1.5418	2.1113	38.12
#3	-.25197	33.826	54.113	33.852	-.03219	1.4430	38.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.77938	34.270	262.04
Stddev	.57734	.590	.56
%RSD	74.077	1.7215	.21301
#1	.37471	34.940	261.67
#2	1.4405	33.826	262.68
#3	.52291	34.046	261.75
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-016(5) Acquired: 11/21/2015 21:53:37 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27879.	12975.	402110.
Stddev	90.	91.	8432.
%RSD	.32378	.69930	2.0969
#1	27803.	12922.	393110.
#2	27854.	13080.	409820.
#3	27979.	12923.	403410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.343%	95.087%	98.035%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-017(5) Acquired: 11/21/2015 21:58:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08248	21165.	10.791	189.76	1.0323	94808.	.4672
Stddev	.03395	105.	.621	1.09	.0157	154.	.2101
%RSD	41.163	.49439	5.7588	.57227	1.5230	.16238	44.96
#1	.08749	21050.	10.414	188.50	1.0185	94631.	.6549
#2	.04630	21255.	10.452	190.41	1.0290	94914.	.5064
#3	.11365	21188.	11.509	190.36	1.0494	94878.	.2403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.617	36.122	85.066	64381.	2119.	56030.	1013.3
Stddev	.087	.092	.787	54.	28.	83.	10.5
%RSD	.59343	.25371	.92534	.08421	1.304	.1487	1.0355
#1	14.716	36.227	85.644	64325.	2087.	56080.	1024.5
#2	14.575	36.061	84.169	64433.	2130.	56070.	1003.7
#3	14.559	36.076	85.384	64387.	2139.	55930.	1011.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-017(5) Acquired: 11/21/2015 21:58:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.69043	153.54	44.225	223.95	.26536	1.3035	43.96
Stddev	.19350	12.54	.228	.76	.36943	2.7600	.60
%RSD	28.026	8.1654	.51552	.33927	139.22	211.74	1.357
#1	.86117	148.70	44.014	224.12	-.10345	2.0854	44.45
#2	.72989	167.78	44.193	224.60	.63541	-1.7631	43.30
#3	.48025	144.15	44.467	223.11	.26411	3.5883	44.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.7394	32.977	217.95
Stddev	.9895	.206	.33
%RSD	56.885	.62520	.15351
#1	2.3449	33.209	217.68
#2	2.2757	32.815	218.33
#3	.59757	32.908	217.85
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-017(5) Acquired: 11/21/2015 21:58:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27438.	13024.	395010.
Stddev	65.	103.	3616.
%RSD	.23650	.79042	.91545
#1	27503.	13036.	391180.
#2	27373.	12915.	395480.
#3	27437.	13120.	398360.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.788%	95.442%	96.303%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-018(5) Acquired: 11/21/2015 22:03:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07706	28235.	9.0712	121.53	1.1859	39161.	.6300
Stddev	.29905	44.	.5156	.64	.0049	63.	.0604
%RSD	388.09	.15631	5.6835	.52440	.41336	.15979	9.592
#1	.41444	28184.	9.5000	121.35	1.1802	39230.	.6371
#2	-.15532	28257.	9.2144	122.24	1.1889	39107.	.5663
#3	-.02796	28264.	8.4992	121.01	1.1884	39148.	.6865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.194	43.890	76.513	65357.	2198.	31130.	1136.8
Stddev	.228	.263	.914	78.	64.	57.	6.1
%RSD	1.1302	.59887	1.1944	.11919	2.927	.1827	.53531
#1	20.456	44.186	77.320	65435.	2184.	31190.	1140.8
#2	20.037	43.798	76.699	65280.	2268.	31120.	1139.9
#3	20.090	43.685	75.521	65356.	2142.	31080.	1129.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-018(5) Acquired: 11/21/2015 22:03:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75875	346.93	52.232	165.16	.18821	.92341	67.02
Stddev	.09767	7.67	.178	.76	.87176	.54045	.63
%RSD	12.873	2.2119	.34110	.45812	463.19	58.528	.9464
#1	.75143	340.00	52.217	164.30	-.07790	1.3985	67.31
#2	.66494	345.62	52.417	165.42	1.1620	.33542	67.47
#3	.85988	355.18	52.062	165.74	-.51949	1.0363	66.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6899	39.642	285.77
Stddev	1.0626	.391	.34
%RSD	62.879	.98590	.11811
#1	.69332	39.463	285.47
#2	2.8081	40.091	285.72
#3	1.5684	39.373	286.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-018(5) Acquired: 11/21/2015 22:03:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7A9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27790.	13077.	398810.
Stddev	112.	13.	1552.
%RSD	.40243	.10178	.38914
#1	27748.	13076.	397830.
#2	27916.	13090.	398000.
#3	27704.	13064.	400600.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.029%	95.831%	97.230%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-019(2) Acquired: 11/21/2015 22:07:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.20219	41705.	20.016	177.14	1.9296	25185.	.6662
Stddev	.08580	152.	.840	.62	.0434	66.	.1140
%RSD	42.436	.36382	4.1964	.35109	2.2464	.26257	17.11
#1	-.12668	41545.	19.327	176.44	1.9245	25111.	.7134
#2	-.29550	41724.	20.952	177.62	1.8890	25240.	.5362
#3	-.18441	41847.	19.770	177.36	1.9752	25203.	.7490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.389	61.927	108.07	100390.	4016.	30380.	1276.9
Stddev	.171	1.396	2.25	181.	106.	103.	25.0
%RSD	.60130	2.2534	2.0824	.18025	2.649	.3383	1.9561
#1	28.504	61.592	107.53	100180.	4122.	30260.	1272.3
#2	28.471	60.730	106.14	100460.	4019.	30430.	1254.6
#3	28.193	63.460	110.54	100520.	3909.	30440.	1303.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-019(2) Acquired: 11/21/2015 22:07:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4653	220.13	83.111	233.82	1.2613	2.3519	96.66
Stddev	.2238	18.28	.431	.59	2.4716	1.3862	1.51
%RSD	15.275	8.3035	.51897	.25216	195.96	58.939	1.558
#1	1.2334	241.23	82.645	233.14	3.9571	3.7737	96.43
#2	1.4824	209.01	83.497	234.15	.72484	2.2777	95.29
#3	1.6801	210.15	83.189	234.18	-.89804	1.0043	98.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3106	64.033	429.35
Stddev	.8893	1.548	.58
%RSD	67.851	2.4177	.13517
#1	.45967	64.074	429.19
#2	2.2338	62.465	429.99
#3	1.2384	65.560	428.87
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-019(2) Acquired: 11/21/2015 22:07:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28267.	13527.	404120.
Stddev	94.	176.	6407.
%RSD	.33169	1.3042	1.5853
#1	28205.	13503.	404090.
#2	28222.	13715.	410540.
#3	28375.	13364.	397730.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.714%	99.133%	98.525%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-020(2) Acquired: 11/21/2015 22:12:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02486	52468.	17.540	176.59	1.8349	17695.	7.247
Stddev	.25363	55.	1.084	.37	.0242	31.	.042
%RSD	1020.4	.10555	6.1783	.20723	1.3184	.17542	.5774
#1	-.18675	52470.	16.428	176.34	1.8346	17659.	7.251
#2	.30601	52412.	18.593	176.42	1.8109	17712.	7.203
#3	-.04468	52523.	17.600	177.01	1.8593	17713.	7.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36.468	142.73	227.57	118070.	3065.	33260.	1369.1
Stddev	.110	1.04	2.20	348.	69.	167.	13.2
%RSD	.30111	.73109	.96646	.29509	2.252	.5006	.96167
#1	36.594	142.38	227.40	117670.	3055.	33070.	1367.8
#2	36.389	141.91	225.46	118300.	3138.	33300.	1356.5
#3	36.422	143.90	229.85	118230.	3001.	33400.	1382.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-020(2) Acquired: 11/21/2015 22:12:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.94722	166.58	98.221	691.84	8.2982	3.0790	116.2
Stddev	.09777	9.20	.181	2.45	1.7845	1.4221	.9
%RSD	10.322	5.5243	.18424	.35386	21.505	46.185	.7439
#1	.94259	157.55	98.037	693.93	6.2793	1.8992	116.3
#2	.85185	166.26	98.398	692.45	8.9505	4.6580	115.2
#3	1.0472	175.94	98.228	689.15	9.6648	2.6799	116.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3017	62.373	1095.6
Stddev	.8042	.323	1.0
%RSD	34.941	.51849	.08981
#1	3.0450	62.738	1095.6
#2	1.4480	62.122	1096.5
#3	2.4121	62.260	1094.6
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13012-020(2) Acquired: 11/21/2015 22:12:42 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27772.	13275.	400500.
Stddev	161.	150.	2373.
%RSD	.57906	1.1295	.59259
#1	27589.	13111.	400080.
#2	27888.	13405.	403060.
#3	27839.	13309.	398370.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.967%	97.283%	97.642%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV005 Acquired: 11/21/2015 22:17:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	730.49	50518.	2477.8	10237.	1043.9	51211.	960.1
Stddev	11.97	435.	3.0	213.	25.7	282.	.5
%RSD	1.6392	.86108	.12289	2.0830	2.4598	.54988	.0550
#1	717.33	50126.	2474.8	10371.	1023.0	50953.	960.3
#2	740.73	50986.	2480.9	9991.2	1072.6	51511.	960.6
#3	733.41	50441.	2477.8	10349.	1036.0	51168.	959.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4723.9	9902.9	12350.	24576.	40650.	49040.	4991.9
Stddev	.8	154.6	183.	143.	174.	408.	29.2
%RSD	.01781	1.5608	1.4795	.58292	.4290	.8325	.58415
#1	4723.6	9729.2	12217.	24456.	40520.	48640.	4961.0
#2	4724.8	10025.	12558.	24735.	40850.	49450.	5019.0
#3	4723.1	9954.4	12275.	24537.	40590.	49030.	4995.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV005 Acquired: 11/21/2015 22:17:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.26	26774.	4773.5	9247.1	2419.7	1240.2	1006.
Stddev	1.28	131.	4.1	5.0	3.6	1.4	16.
%RSD	.13056	.48758	.08526	.05361	.14732	.10978	1.581
#1	981.44	26667.	4774.3	9241.7	2423.1	1240.8	987.6
#2	980.43	26920.	4777.2	9248.0	2420.0	1241.2	1018.
#3	978.90	26736.	4769.1	9251.5	2416.0	1238.6	1012.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	900.07	2514.0	4863.1
Stddev	1.63	38.5	2.2
%RSD	.18126	1.5311	.04465
#1	899.38	2470.2	4860.7
#2	901.93	2542.6	4865.0
#3	898.90	2529.1	4863.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV005 Acquired: 11/21/2015 22:17:29 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26642.	13063.	391870.
Stddev	44.	94.	5647.
%RSD	.16462	.71951	1.4411
#1	26667.	12970.	396430.
#2	26591.	13158.	385560.
#3	26668.	13062.	393640.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB005 Acquired: 11/21/2015 22:22:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23391	11.983	-.39982	.17323	-.01909	2.4983	.0071
Stddev	.44981	10.178	1.0119	.18684	.01257	.8372	.1005
%RSD	192.30	84.937	253.09	107.86	65.842	33.511	1414.
#1	.14813	6.2878	-1.5554	.18908	-.00915	3.4643	.1083
#2	-.72967	23.735	.32784	-.02104	-.01490	1.9819	.0057
#3	-.12019	5.9280	.02808	.35164	-.03321	2.0488	-.0927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10881	-.23007	.34199	4.2529	39.90	6.861	.09914
Stddev	.18089	.35701	.31084	8.2338	33.61	11.07	.07483
%RSD	166.24	155.18	90.892	193.60	84.25	161.4	75.481
#1	-.01822	.18114	.66141	7.0393	6.021	18.83	.13880
#2	.00888	-.41032	.04050	-5.0126	40.43	4.757	.14579
#3	-.31709	-.46101	.32406	10.732	73.24	-3.009	.01283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB005 Acquired: 11/21/2015 22:22:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22781	-90.983	.05941	-.06348	1.7163	1.2713	-.0883
Stddev	.28875	16.918	.09830	1.2671	1.0273	2.1398	.1927
%RSD	126.75	18.595	165.47	1996.2	59.854	168.31	218.4
#1	.56011	-90.709	.07687	.96627	1.5296	3.7303	-.0968
#2	.03797	-108.04	-.04645	-1.4785	2.8241	.25058	-.2766
#3	.08535	-74.204	.14782	.32184	.79515	-.16698	.1086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.76615	.21743	-.00667
Stddev	1.0879	.35244	.04041
%RSD	142.00	162.10	605.80
#1	1.6038	-.10659	-.02407
#2	1.1580	.16619	.03953
#3	-.46341	.59269	-.03547
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB005 Acquired: 11/21/2015 22:22:46 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28395.	13025.	410960.
Stddev	83.	78.	4379.
%RSD	.29241	.59587	1.0655
#1	28306.	12936.	406180.
#2	28470.	13080.	411920.
#3	28410.	13058.	414780.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001(2) Acquired: 11/21/2015 22:27:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24309	59682.	24.104	441.29	2.1301	16424.
Stddev	.34052	284.	.387	1.69	.0495	62.
%RSD	140.08	.47548	1.6040	.38381	2.3236	.37905
#1	.63183	59372.	24.453	439.44	2.1728	16354.
#2	.09990	59929.	24.171	442.77	2.0758	16472.
#3	-.00245	59745.	23.688	441.65	2.1416	16448.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.791	34.257	108.56	356.84	F 151760.	5040.
Stddev	.144	1.413	1.91	6.46	496.	16.
%RSD	5.162	4.1236	1.7635	1.8108	.32658	.3118
#1	2.825	35.783	110.14	363.63	151220.	5035.
#2	2.914	33.993	106.43	350.76	152180.	5027.
#3	2.633	32.995	109.12	356.12	151890.	5057.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001(2) Acquired: 11/21/2015 22:27:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35130.	1711.6	1.4427	247.49	97.031	349.07
Stddev	109.	29.0	.2090	4.53	4.159	15.48
%RSD	.3096	1.6948	14.484	1.8320	4.2863	4.4336
#1	35020.	1738.4	1.3614	242.37	101.52	366.05
#2	35240.	1680.8	1.6801	249.11	96.274	345.41
#3	35130.	1715.6	1.2866	250.99	93.302	335.75
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.9314	2.9704	158.7	2.0900	77.317	1078.5
Stddev	1.0360	1.6491	2.8	.5396	1.485	44.5
%RSD	26.353	55.517	1.768	25.816	1.9212	4.1239
#1	2.7353	1.6412	161.4	2.2318	78.771	1126.3
#2	4.5513	4.8158	155.8	2.5445	75.802	1070.9
#3	4.5075	2.4542	158.9	1.4937	77.379	1038.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001(2) Acquired: 11/21/2015 22:27:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27955.	13224.	396580.
Stddev	24.	48.	13628.
%RSD	.08489	.36350	3.4364
#1	27949.	13231.	402140.
#2	27982.	13173.	406540.
#3	27936.	13268.	381050.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.613%	96.910%	96.685%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(10) Acquired: 11/21/2015 22:32:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04156	10639.	5.0731	77.342	.35536	2896.8	.6528
Stddev	.30095	43.	.9985	.452	.01005	12.8	.0550
%RSD	724.17	.40115	19.682	.58433	2.8283	.44252	8.425
#1	-.29084	10612.	4.0400	77.771	.36108	2883.0	.6500
#2	.11996	10689.	5.1464	76.870	.34375	2899.1	.5992
#3	.29555	10617.	6.0329	77.385	.36124	2908.3	.7091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.3185	19.480	65.096	26809.	882.3	6244.	310.30
Stddev	.0903	.150	.535	118.	54.8	81.	2.06
%RSD	1.2343	.76818	.82251	.43975	6.206	1.296	.66270
#1	7.3529	19.652	64.873	26693.	840.2	6155.	310.90
#2	7.2160	19.382	64.709	26803.	862.6	6265.	308.02
#3	7.3866	19.405	65.707	26929.	944.2	6313.	312.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(10) Acquired: 11/21/2015 22:32:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02811	-29.639	20.378	76.223	1.8583	1.1452	31.42
Stddev	.16998	19.737	.154	.926	.6785	1.2121	.97
%RSD	604.77	66.591	.75360	1.2149	36.512	105.84	3.093
#1	-.01954	-9.9577	20.218	75.476	1.5345	2.5319	30.84
#2	.13742	-29.529	20.391	77.259	1.4023	.28728	30.87
#3	-.20221	-49.431	20.524	75.934	2.6380	.61653	32.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.40766	14.201	227.19
Stddev	.91548	.269	.27
%RSD	224.57	1.8910	.11999
#1	.15364	14.503	226.88
#2	-1.4641	13.988	227.30
#3	.08745	14.113	227.39
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(10) Acquired: 11/21/2015 22:32:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28200.	13206.	410400.
Stddev	88.	147.	2567.
%RSD	.31211	1.1096	.62545
#1	28100.	13287.	408630.
#2	28267.	13037.	413350.
#3	28233.	13294.	409240.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.477%	96.777%	100.06%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU(2) Acquired: 11/21/2015 22:37:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13909	53431.	28.090	193.95	2.1231	41579.	3.364
Stddev	.48921	629.	1.377	1.68	.1147	426.	.045
%RSD	351.72	1.1777	4.9024	.86418	5.4019	1.0245	1.335
#1	-.42564	52725.	28.890	192.24	2.1046	41164.	3.369
#2	.43330	53931.	28.880	195.59	2.2459	42015.	3.316
#3	.40961	53637.	26.500	194.01	2.0188	41557.	3.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.695	103.87	255.60	139720.	4838.	44990.	1678.6
Stddev	.842	5.11	11.98	1412.	23.	598.	81.0
%RSD	2.5764	4.9160	4.6888	1.0104	.4848	1.328	4.8231
#1	33.589	103.83	256.45	138320.	4822.	44350.	1684.7
#2	32.579	108.99	267.13	141140.	4827.	45540.	1756.4
#3	31.917	98.777	243.21	139680.	4865.	45080.	1594.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU(2) Acquired: 11/21/2015 22:37:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4332	238.67	88.001	467.77	6.2454	2.4444	196.6
Stddev	.2235	17.34	1.982	10.21	.9475	.9190	9.8
%RSD	15.594	7.2645	2.2525	2.1833	15.171	37.595	4.988
#1	1.5706	218.65	90.116	477.67	7.0268	1.5090	197.7
#2	1.1753	248.53	87.701	468.37	5.1915	2.4783	205.8
#3	1.5536	248.83	86.186	457.28	6.5178	3.3460	186.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8044	70.143	857.29
Stddev	.7532	3.439	18.34
%RSD	41.744	4.9029	2.1398
#1	1.7682	70.439	876.48
#2	2.5750	73.424	855.44
#3	1.0699	66.565	839.93
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU(2) Acquired: 11/21/2015 22:37:09 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27691.	13145.	394890.
Stddev	177.	51.	17054.
%RSD	.64056	.38828	4.3186
#1	27888.	13111.	411300.
#2	27544.	13203.	377260.
#3	27640.	13120.	396100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.680%	96.329%	96.274%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS(2) Acquired: 11/21/2015 22:41:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.148	54056.	64.417	2276.6	51.610	18157.	46.32
Stddev	.861	376.	1.251	5.0	.482	40.	.21
%RSD	1.9074	.69626	1.9418	.21876	.93348	.22201	.4503
#1	44.527	54082.	63.024	2281.3	51.085	18194.	46.22
#2	44.785	54419.	64.784	2277.2	51.713	18164.	46.18
#3	46.131	53668.	65.444	2271.4	52.031	18114.	46.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	478.22	315.14	481.15	132660.	5531.	30930.	2506.0
Stddev	1.04	2.93	4.50	303.	32.	59.	39.8
%RSD	.21782	.92829	.93602	.22809	.5759	.1916	1.5862
#1	477.43	311.82	475.99	132920.	5568.	31000.	2470.3
#2	477.82	316.29	483.19	132730.	5516.	30890.	2498.9
#3	479.40	317.32	484.27	132320.	5510.	30910.	2548.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS(2) Acquired: 11/21/2015 22:41:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3725	216.48	541.06	604.17	38.429	86.880	130.0
Stddev	.2077	40.26	.52	2.25	1.983	2.754	1.2
%RSD	15.131	18.596	.09561	.37298	5.1612	3.1702	.9527
#1	1.3913	247.83	540.65	602.81	36.841	85.349	128.6
#2	1.5701	230.54	540.90	602.93	40.652	90.060	130.4
#3	1.1561	171.08	541.64	606.77	37.794	85.232	131.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	46.601	528.15	1420.0
Stddev	.895	4.00	1.8
%RSD	1.9197	.75702	.12743
#1	46.017	523.67	1418.6
#2	47.631	529.46	1419.4
#3	46.156	531.34	1422.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS(2) Acquired: 11/21/2015 22:41:55 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28310.	13374.	409700.
Stddev	56.	47.	4076.
%RSD	.19678	.35122	.99493
#1	28319.	13358.	414370.
#2	28250.	13337.	407820.
#3	28361.	13427.	406900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.864%	98.009%	99.884%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A(2) Acquired: 11/21/2015 22:46:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.065	50353.	34.199	575.96	7.1620	18908.	7.689
Stddev	.265	320.	.393	2.10	.0837	128.	.155
%RSD	2.6373	.63555	1.1478	.36440	1.1690	.67447	2.012
#1	9.8495	49987.	34.452	573.62	7.0659	18765.	7.540
#2	9.9847	50577.	34.398	577.66	7.2016	19010.	7.849
#3	10.362	50495.	33.747	576.61	7.2187	18950.	7.678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	82.207	104.17	331.28	126980.	10020.	34650.	1487.5
Stddev	.223	1.47	3.71	643.	35.	237.	18.0
%RSD	.27079	1.4148	1.1199	.50668	.3476	.6846	1.2101
#1	82.232	102.66	327.14	126240.	9981.	34410.	1466.8
#2	82.417	104.24	332.39	127440.	10020.	34890.	1496.0
#3	81.974	105.61	334.31	127250.	10050.	34650.	1499.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A(2) Acquired: 11/21/2015 22:46:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4333	5880.5	134.40	365.82	63.617	36.605	196.2
Stddev	.1142	40.1	.10	.71	2.982	1.440	7.1
%RSD	7.9699	.68220	.07276	.19425	4.6869	3.9348	3.623
#1	1.4314	5835.1	134.29	366.46	66.149	35.112	189.7
#2	1.5484	5911.0	134.42	365.94	60.330	36.718	195.0
#3	1.3200	5895.4	134.48	365.06	64.371	37.986	203.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	25.284	118.09	1133.0
Stddev	.501	1.29	1.9
%RSD	1.9815	1.0921	.16397
#1	25.815	116.73	1131.7
#2	25.217	118.23	1132.3
#3	24.819	119.30	1135.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A(2) Acquired: 11/21/2015 22:46:49 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27720.	13387.	399220.
Stddev	62.	38.	3640.
%RSD	.22538	.28216	.91169
#1	27660.	13423.	403370.
#2	27785.	13348.	396580.
#3	27715.	13389.	397690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.782%	98.104%	97.329%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-002(2) Acquired: 11/21/2015 22:51:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10526	63796.	28.835	215.01	2.5946	60081.	5.643
Stddev	.22707	73.	1.071	.57	.0570	88.	.417
%RSD	215.73	.11481	3.7141	.26520	2.1973	.14589	7.389
#1	-.28980	63744.	30.005	214.62	2.6542	60069.	6.078
#2	-.17430	63763.	27.903	214.75	2.5891	60000.	5.606
#3	.14832	63879.	28.598	215.67	2.5406	60174.	5.247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.321	186.25	301.06	141350.	6864.	43470.	1713.4
Stddev	2.386	2.45	4.85	410.	43.	63.	15.1
%RSD	5.1512	1.3154	1.6118	.28990	.6210	.1452	.88375
#1	48.724	188.63	305.51	140990.	6841.	43410.	1723.8
#2	46.285	186.39	301.78	141280.	6913.	43530.	1720.4
#3	43.953	183.74	295.89	141800.	6838.	43470.	1696.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-002(2) Acquired: 11/21/2015 22:51:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3748	244.70	111.56	507.83	6.8864	2.4851	175.8
Stddev	.4003	24.99	5.10	26.27	1.0551	.6764	2.8
%RSD	29.118	10.213	4.5672	5.1726	15.322	27.217	1.586
#1	1.8370	224.53	116.70	535.10	5.8993	2.9392	178.5
#2	1.1523	272.66	111.47	505.69	7.9985	1.7078	176.0
#3	1.1352	236.90	106.51	482.70	6.7614	2.8083	173.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.8341	77.760	1214.5
Stddev	.9192	1.015	60.0
%RSD	32.432	1.3052	4.9421
#1	2.0830	78.471	1275.5
#2	3.8590	78.212	1212.5
#3	2.5602	76.598	1155.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-002(2) Acquired: 11/21/2015 22:51:35 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28169.	13504.	407060.
Stddev	112.	155.	870.
%RSD	.39897	1.1478	.21376
#1	28048.	13335.	406060.
#2	28189.	13639.	407610.
#3	28270.	13538.	407510.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.366%	98.960%	99.241%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-003(2) Acquired: 11/21/2015 22:56:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06827	63378.	22.975	229.64	2.6257	71548.	.5051
Stddev	.09345	757.	.216	2.60	.0686	933.	.2136
%RSD	136.87	1.1946	.93854	1.1335	2.6127	1.3046	42.28
#1	-.09879	64185.	22.975	232.52	2.5586	72499.	.6602
#2	.03662	63267.	22.759	228.91	2.6957	71510.	.2616
#3	-.14265	62683.	23.190	227.47	2.6229	70634.	.5936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.648	74.393	118.64	135010.	5427.	43760.	5757.0
Stddev	.049	1.393	2.61	1672.	95.	598.	25.4
%RSD	.11049	1.8728	2.2026	1.2387	1.754	1.366	.44187
#1	44.705	73.176	116.22	136770.	5533.	44320.	5730.3
#2	44.624	75.913	121.41	134830.	5350.	43830.	5780.9
#3	44.615	74.091	118.29	133440.	5397.	43130.	5759.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-003(2) Acquired: 11/21/2015 22:56:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.85396	255.12	113.91	81.022	.33204	4.3238	102.9
Stddev	.04976	26.09	.19	.505	1.2054	1.1492	2.1
%RSD	5.8270	10.225	.16865	.62287	363.02	26.578	2.081
#1	.82000	242.75	113.83	80.811	1.6286	3.3925	100.9
#2	.91108	237.51	113.77	81.598	-.75453	3.9709	105.2
#3	.83079	285.09	114.13	80.657	.12203	5.6081	102.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	5.9700	80.459	379.27
Stddev	.7952	.972	1.18
%RSD	13.320	1.2078	.31110
#1	5.3481	79.855	378.06
#2	6.8660	81.580	379.34
#3	5.6958	79.942	380.41
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-003(2) Acquired: 11/21/2015 22:56:24 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27908.	13197.	399730.
Stddev	94.	165.	4560.
%RSD	.33813	1.2494	1.1407
#1	27959.	13193.	403810.
#2	27965.	13034.	394810.
#3	27799.	13363.	400580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.445%	96.709%	97.455%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-004(5) Acquired: 11/21/2015 23:01:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05705	27720.	8.9002	79.701	1.0223	41972.	.1116
Stddev	.18443	122.	.6048	.091	.0109	65.	.1713
%RSD	323.28	.43972	6.7952	.11404	1.0676	.15558	153.5
#1	-.24513	27645.	9.5237	79.743	1.0145	41898.	-.0735
#2	.12350	27861.	8.3160	79.764	1.0176	42020.	.1437
#3	-.04953	27655.	8.8609	79.597	1.0348	41999.	.2645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.686	31.239	53.246	61525.	2089.	22810.	1568.5
Stddev	.083	.397	.268	134.	33.	61.	7.1
%RSD	.49495	1.2720	.50276	.21826	1.557	.2672	.45460
#1	16.743	31.076	53.447	61383.	2120.	22770.	1567.2
#2	16.591	31.692	52.943	61650.	2055.	22780.	1576.2
#3	16.724	30.949	53.350	61541.	2092.	22880.	1562.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-004(5) Acquired: 11/21/2015 23:01:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.38268	54.920	49.550	32.144	1.1342	1.6945	50.17
Stddev	.15855	2.576	.159	.895	1.2905	1.6326	1.61
%RSD	41.432	4.6906	.32016	2.7836	113.79	96.347	3.208
#1	.27687	56.963	49.733	32.757	2.4563	1.8397	48.98
#2	.30620	52.026	49.472	32.558	-.12221	3.2496	52.00
#3	.56498	55.771	49.446	31.117	1.0684	-.00587	49.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6464	35.825	173.47
Stddev	1.2015	.136	.16
%RSD	72.978	.37980	.09356
#1	.36542	35.672	173.48
#2	1.8254	35.932	173.31
#3	2.7483	35.870	173.63
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-004(5) Acquired: 11/21/2015 23:01:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27537.	12902.	399600.
Stddev	54.	142.	1825.
%RSD	.19637	1.0982	.45675
#1	27480.	12877.	398560.
#2	27588.	12774.	398530.
#3	27542.	13054.	401710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.138%	94.549%	97.423%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-005(5) Acquired: 11/21/2015 23:06:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08490	28517.	10.709	83.800	1.1566	35839.	.0520
Stddev	.17656	79.	.520	.642	.0062	68.	.0608
%RSD	207.96	.27768	4.8555	.76613	.53381	.19094	116.9
#1	-.07689	28580.	11.300	83.111	1.1544	35777.	.0723
#2	.27323	28428.	10.502	83.907	1.1519	35912.	.1001
#3	.05836	28543.	10.324	84.382	1.1636	35826.	-.0163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.210	34.044	55.647	62861.	2580.	23370.	1396.4
Stddev	.130	.179	.404	208.	33.	75.	10.1
%RSD	.67878	.52546	.72645	.33116	1.271	.3228	.72598
#1	19.060	34.196	55.180	62630.	2546.	23340.	1388.9
#2	19.299	34.089	55.868	63035.	2612.	23450.	1392.3
#3	19.271	33.847	55.892	62918.	2580.	23310.	1407.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-005(5) Acquired: 11/21/2015 23:06:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20804	58.520	51.757	41.553	-.07912	1.2868	45.80
Stddev	.22474	21.164	.188	.702	1.1202	1.7670	.25
%RSD	108.03	36.165	.36378	1.6896	1415.9	137.32	.5527
#1	.39249	72.604	51.573	42.203	-1.3262	.54712	45.75
#2	-.04228	34.182	51.949	40.809	.24687	3.3033	45.58
#3	.27391	68.774	51.749	41.647	.84198	.00981	46.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2427	36.928	191.67
Stddev	.6791	.136	.37
%RSD	54.644	.36826	.19105
#1	.83428	36.773	191.71
#2	.86728	37.028	191.29
#3	2.0266	36.984	192.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-005(5) Acquired: 11/21/2015 23:06:06 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28110.	13170.	403710.
Stddev	73.	29.	2657.
%RSD	.26113	.22351	.65802
#1	28140.	13162.	406360.
#2	28164.	13202.	403740.
#3	28027.	13145.	401040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.159%	96.512%	98.425%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-006(5) Acquired: 11/21/2015 23:10:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.33123	24440.	15.352	95.963	.84889	4189.1	1.309
Stddev	.36320	168.	.667	1.056	.00260	14.1	.110
%RSD	109.65	.68643	4.3449	1.1002	.30618	.33548	8.396
#1	.20924	24249.	16.102	94.896	.85173	4179.1	1.399
#2	.04474	24559.	14.826	95.985	.84662	4205.2	1.342
#3	.73972	24514.	15.129	97.008	.84832	4183.0	1.186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.760	61.827	466.18	74295.	2195.	13170.	524.44
Stddev	.123	.520	3.09	183.	10.	11.	4.52
%RSD	.83175	.84183	.66279	.24666	.4715	.0860	.86118
#1	14.849	61.633	463.20	74089.	2191.	13170.	521.01
#2	14.620	61.431	465.96	74441.	2206.	13190.	522.75
#3	14.811	62.416	469.37	74355.	2187.	13160.	529.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-006(5) Acquired: 11/21/2015 23:10:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60890	58.850	45.738	167.09	3.6046	1.7374	71.18
Stddev	.14862	11.815	.067	.59	.2693	1.3121	.70
%RSD	24.407	20.076	.14572	.35506	7.4720	75.521	.9773
#1	.77245	70.905	45.702	167.14	3.4447	1.0179	70.70
#2	.57213	47.291	45.698	166.48	3.9156	.94245	70.86
#3	.48212	58.355	45.815	167.66	3.4537	3.2518	71.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6994	35.549	416.56
Stddev	1.3733	.549	.38
%RSD	80.808	1.5440	.09028
#1	.83820	35.654	416.99
#2	3.2831	34.955	416.42
#3	.97696	36.038	416.28
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-006(5) Acquired: 11/21/2015 23:10:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28369.	13121.	403160.
Stddev	62.	39.	1383.
%RSD	.21727	.30005	.34305
#1	28346.	13092.	403800.
#2	28439.	13166.	404100.
#3	28322.	13105.	401570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.07%	96.155%	98.289%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-007(5) Acquired: 11/21/2015 23:15:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11565	26630.	16.813	110.72	1.0687	18797.	2.530
Stddev	.22194	62.	.726	1.41	.0372	13.	.193
%RSD	191.90	.23352	4.3195	1.2767	3.4829	.06921	7.622
#1	.18931	26689.	17.405	109.67	1.1103	18798.	2.365
#2	.29140	26636.	16.003	112.33	1.0569	18810.	2.483
#3	-.13375	26565.	17.031	110.17	1.0388	18784.	2.742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.252	99.600	174.86	62367.	2414.	19240.	673.76
Stddev	.212	1.310	3.61	61.	38.	45.	11.62
%RSD	1.0479	1.3152	2.0619	.09724	1.580	.2341	1.7244
#1	20.307	101.11	178.93	62348.	2378.	19200.	686.96
#2	20.018	98.839	173.58	62434.	2409.	19220.	669.21
#3	20.432	98.848	172.07	62317.	2454.	19290.	665.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-007(5) Acquired: 11/21/2015 23:15:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58175	112.09	51.029	290.15	4.0746	2.8899	67.03
Stddev	.23996	17.75	.186	.93	2.2077	.9040	1.15
%RSD	41.248	15.838	.36358	.32224	54.182	31.281	1.709
#1	.35341	115.96	51.203	290.38	1.9033	2.1229	68.27
#2	.56000	127.59	50.834	290.95	6.3169	3.8866	66.79
#3	.83185	92.724	51.049	289.12	4.0036	2.6602	66.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0915	36.450	625.60
Stddev	.3986	.559	.74
%RSD	36.522	1.5344	.11766
#1	.67931	37.088	626.00
#2	1.1201	36.044	624.75
#3	1.4750	36.217	626.05
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-007(5) Acquired: 11/21/2015 23:15:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7B6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28199.	13185.	406460.
Stddev	100.	86.	3821.
%RSD	.35595	.65272	.93997
#1	28274.	13109.	402070.
#2	28085.	13168.	408990.
#3	28238.	13278.	408330.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.473%	96.624%	99.096%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-008(2) Acquired: 11/21/2015 23:20:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58588	63779.	22.447	216.85	2.7570	85445.	.3473
Stddev	.26028	156.	.657	.47	.0471	222.	.1454
%RSD	44.426	.24391	2.9283	.21757	1.7083	.25935	41.87
#1	-.36583	63701.	22.551	216.31	2.7952	85336.	.4051
#2	-.51863	63679.	23.046	217.19	2.7716	85299.	.4549
#3	-.87319	63958.	21.743	217.04	2.7044	85700.	.1819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.318	76.563	114.77	134880.	6940.	42710.	3293.9
Stddev	.128	1.553	1.79	443.	66.	130.	70.0
%RSD	.33510	2.0280	1.5621	.32820	.9574	.3052	2.1264
#1	38.260	78.219	116.57	134590.	6936.	42650.	3342.6
#2	38.465	76.330	114.77	134670.	7009.	42620.	3325.5
#3	38.229	75.139	112.98	135390.	6876.	42860.	3213.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-008(2) Acquired: 11/21/2015 23:20:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.52145	246.12	110.98	71.538	.87700	3.1237	112.9
Stddev	.22156	14.33	.40	1.079	.67602	2.4028	2.6
%RSD	42.489	5.8212	.35775	1.5080	77.084	76.923	2.277
#1	.36069	230.37	110.53	71.414	.70664	1.7285	115.6
#2	.77418	258.38	111.17	72.673	.30244	1.7444	112.7
#3	.42948	249.61	111.25	70.526	1.6219	5.8982	110.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.4079	81.858	374.38
Stddev	.1671	1.484	1.31
%RSD	6.9412	1.8123	.35078
#1	2.2288	83.335	372.92
#2	2.5596	81.873	375.45
#3	2.4354	80.368	374.78
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-008(2) Acquired: 11/21/2015 23:20:25 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27968.	13179.	395600.
Stddev	32.	13.	6613.
%RSD	.11312	.09599	1.6717
#1	27932.	13175.	390120.
#2	27985.	13193.	393740.
#3	27988.	13168.	402950.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.659%	96.577%	96.448%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001(2) Acquired: 11/21/2015 23:25:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.5383	16976.	17.474	217.98	1.2905	184380.	8.591
Stddev	.0990	86.	1.048	.57	.0358	805.	.127
%RSD	2.7986	.50430	5.9984	.26174	2.7751	.43685	1.479
#1	3.6505	16877.	16.967	217.92	1.2566	183830.	8.450
#2	3.5011	17023.	18.680	217.44	1.3280	184020.	8.625
#3	3.4633	17027.	16.776	218.58	1.2870	185310.	8.698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.909	234.99	156.88	100370.	3542.	65140.	1675.0
Stddev	.122	4.06	3.36	345.	36.	368.	30.9
%RSD	.71896	1.7290	2.1420	.34377	1.005	.5649	1.8476
#1	16.815	231.60	153.88	100070.	3523.	64890.	1648.3
#2	17.047	239.49	160.51	100300.	3521.	64980.	1708.9
#3	16.866	233.87	156.25	100750.	3584.	65570.	1667.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001(2) Acquired: 11/21/2015 23:25:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.1138	573.46	124.61	292.63	1.4647	4.5302	400.5
Stddev	.0632	22.43	.45	1.97	2.3767	.8603	7.3
%RSD	.88878	3.9112	.35903	.67327	162.27	18.991	1.822
#1	7.1830	567.59	124.11	294.86	-1.2014	5.1218	394.6
#2	7.0995	554.56	124.72	291.10	2.2340	3.5433	408.6
#3	7.0590	598.25	124.99	291.95	3.3615	4.9255	398.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2575	54.628	1110.4
Stddev	.5965	.821	1.1
%RSD	26.422	1.5027	.09635
#1	2.4310	54.072	1109.4
#2	2.7479	55.571	1111.5
#3	1.5935	54.241	1110.3
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001(2) Acquired: 11/21/2015 23:25:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27187.	13013.	397180.
Stddev	42.	90.	4953.
%RSD	.15356	.69433	1.2471
#1	27151.	12997.	401850.
#2	27233.	13110.	391990.
#3	27178.	12932.	397710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.904%	95.363%	96.833%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001L(10) Acquired: 11/21/2015 23:30:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.75145	3592.6	2.9840	45.766	.25199	38312.	1.743
Stddev	.53599	3.4	.5517	.706	.00949	154.	.082
%RSD	71.327	.09574	18.487	1.5423	3.7673	.40279	4.678
#1	.84564	3588.7	3.4679	45.743	.26202	38159.	1.833
#2	.17461	3594.1	2.3833	46.483	.24314	38310.	1.674
#3	1.2341	3595.1	3.1009	45.072	.25081	38468.	1.721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.5134	50.015	33.827	21097.	728.1	13710.	355.57
Stddev	.0551	.617	.992	111.	54.9	62.	3.76
%RSD	1.5690	1.2340	2.9332	.52541	7.540	.4530	1.0575
#1	3.5519	50.718	34.797	20979.	746.6	13650.	359.90
#2	3.5379	49.765	32.814	21110.	771.3	13720.	353.62
#3	3.4502	49.562	33.870	21200.	666.3	13770.	353.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001L(10) Acquired: 11/21/2015 23:30:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.77435	38.978	26.161	61.761	1.8695	2.5065	85.83
Stddev	.11581	2.200	.214	.277	.9774	2.6853	1.52
%RSD	14.956	5.6450	.81905	.44889	52.282	107.13	1.768
#1	.72809	36.441	26.362	61.872	.81879	2.1943	87.54
#2	.90614	40.129	25.936	61.966	2.7517	5.3342	84.66
#3	.68882	40.363	26.186	61.446	2.0380	-.00906	85.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.50636	11.268	229.32
Stddev	1.1743	.228	.62
%RSD	231.91	2.0194	.26845
#1	-1.6644	11.056	230.00
#2	.68352	11.240	228.81
#3	-.53818	11.509	229.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001L(10) Acquired: 11/21/2015 23:30:03 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28098.	13070.	403970.
Stddev	110.	85.	4254.
%RSD	.39285	.65271	1.0530
#1	28089.	13151.	399590.
#2	27992.	12981.	404230.
#3	28212.	13078.	408090.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.116%	95.779%	98.488%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001DU(2) Acquired: 11/21/2015 23:34:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4016	18508.	17.398	224.39	1.2857	139330.	7.531
Stddev	.0809	276.	.160	3.16	.0478	2185.	.015
%RSD	3.3670	1.4928	.92060	1.4068	3.7196	1.5682	.1988
#1	2.4901	18784.	17.347	227.15	1.2785	141140.	7.547
#2	2.3316	18231.	17.269	220.95	1.3367	136900.	7.528
#3	2.3832	18509.	17.577	225.06	1.2419	139960.	7.518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.301	189.78	165.30	83843.	4125.	39310.	1555.5
Stddev	.219	5.03	3.64	1393.	44.	614.	40.4
%RSD	1.3404	2.6519	2.2026	1.6612	1.075	1.562	2.5945
#1	16.068	189.18	165.87	84957.	4169.	39720.	1547.4
#2	16.501	195.09	168.62	82282.	4125.	38600.	1599.3
#3	16.336	185.07	161.41	84292.	4081.	39600.	1519.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001DU(2) Acquired: 11/21/2015 23:34:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.9147	600.38	103.02	221.77	3.0998	4.6307	446.9
Stddev	.1454	7.72	.24	1.08	.5477	1.0199	11.2
%RSD	2.4578	1.2866	.23204	.48636	17.671	22.025	2.508
#1	5.7691	609.22	103.30	222.25	3.4737	5.6324	447.1
#2	6.0598	597.04	102.90	220.54	2.4710	4.6661	458.0
#3	5.9153	594.90	102.87	222.53	3.3546	3.5935	435.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9519	58.502	896.75
Stddev	.4420	1.226	.70
%RSD	22.642	2.0950	.07816
#1	1.4826	58.000	897.02
#2	2.3602	59.899	895.96
#3	2.0130	57.607	897.29
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001DU(2) Acquired: 11/21/2015 23:34:51 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27342.	13255.	388900.
Stddev	104.	102.	10252.
%RSD	.37898	.76951	2.6362
#1	27393.	13183.	391330.
#2	27410.	13210.	377650.
#3	27223.	13372.	397710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.449%	97.136%	94.813%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001MS(2) Acquired: 11/21/2015 23:39:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34.070	23066.	44.920	1557.6	34.738	182390.	36.83
Stddev	.386	138.	.822	11.8	.470	842.	.11
%RSD	1.1317	.59936	1.8294	.75797	1.3534	.46147	.2926
#1	33.661	22906.	45.734	1544.1	34.280	181450.	36.85
#2	34.428	23142.	44.091	1562.9	34.716	182680.	36.71
#3	34.121	23148.	44.934	1565.9	35.219	183050.	36.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	310.88	316.50	337.44	96996.	5310.	56870.	2028.0
Stddev	.49	4.47	4.96	415.	38.	233.	11.9
%RSD	.15716	1.4139	1.4691	.42828	.7109	.4102	.58498
#1	310.56	311.79	332.57	96534.	5348.	56650.	2014.4
#2	310.63	317.00	337.26	97116.	5272.	56850.	2036.2
#3	311.44	320.70	342.48	97338.	5309.	57120.	2033.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001MS(2) Acquired: 11/21/2015 23:39:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.8208	615.70	406.13	240.29	17.536	64.381	498.5
Stddev	.3564	27.09	.26	.99	1.789	2.835	7.3
%RSD	4.5575	4.3994	.06314	.41226	10.203	4.4037	1.465
#1	7.5115	592.84	405.84	239.18	16.798	62.148	490.7
#2	7.7403	608.64	406.33	240.59	19.576	63.424	499.6
#3	8.2106	645.61	406.22	241.09	16.233	67.571	505.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	30.749	371.36	1235.7
Stddev	1.097	5.01	1.5
%RSD	3.5659	1.3479	.12235
#1	29.541	366.20	1235.0
#2	31.680	371.69	1234.7
#3	31.027	376.20	1237.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001MS(2) Acquired: 11/21/2015 23:39:38 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27531.	13303.	401660.
Stddev	50.	157.	3260.
%RSD	.18295	1.1820	.81162
#1	27577.	13478.	404650.
#2	27540.	13175.	402140.
#3	27477.	13254.	398180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.117%	97.485%	97.924%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001A(2) Acquired: 11/21/2015 23:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.364	17969.	28.398	433.03	6.7106	187550.	13.42
Stddev	.323	79.	.862	1.69	.1043	1022.	.05
%RSD	2.4204	.43856	3.0360	.39061	1.5537	.54515	.3447
#1	13.710	17878.	29.360	431.34	6.8303	186370.	13.40
#2	13.315	18015.	28.136	433.04	6.6617	188190.	13.39
#3	13.069	18013.	27.696	434.72	6.6397	188100.	13.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	64.024	249.04	184.66	99405.	9703.	69170.	1701.8
Stddev	.178	2.88	2.49	455.	54.	382.	20.4
%RSD	.27740	1.1579	1.3483	.45805	.5541	.5527	1.1959
#1	64.162	252.36	187.50	98883.	9641.	68740.	1725.3
#2	64.087	247.56	183.62	99722.	9734.	69320.	1690.7
#3	63.824	247.19	182.85	99609.	9733.	69460.	1689.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001A(2) Acquired: 11/21/2015 23:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0489	6470.6	162.39	301.93	60.499	40.463	453.8
Stddev	.1049	39.6	.19	.32	2.441	.705	5.6
%RSD	1.4874	.61219	.11594	.10598	4.0354	1.7427	1.243
#1	6.9285	6425.7	162.54	301.89	57.890	40.805	460.0
#2	7.0981	6485.2	162.44	301.63	62.728	39.652	449.0
#3	7.1200	6500.7	162.18	302.27	60.880	40.931	452.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	24.692	107.48	1164.9
Stddev	1.517	1.60	.7
%RSD	6.1438	1.4866	.06337
#1	22.958	109.32	1165.5
#2	25.772	106.42	1164.0
#3	25.347	106.70	1165.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-001A(2) Acquired: 11/21/2015 23:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME6BF3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27006.	12982.	390880.
Stddev	97.	197.	4217.
%RSD	.35767	1.5170	1.0788
#1	26950.	13210.	386030.
#2	27117.	12860.	392970.
#3	26950.	12878.	393640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.264%	95.140%	95.297%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-003(5) Acquired: 11/21/2015 23:49:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41153	7287.2	12.063	101.00	.63325	71529.	.9720
Stddev	.32742	15.0	1.066	.42	.00607	209.	.0672
%RSD	79.561	.20550	8.8398	.41966	.95904	.29166	6.914
#1	.72197	7275.6	11.318	100.69	.63996	71313.	.9919
#2	.06943	7282.0	13.285	101.48	.63167	71730.	1.027
#3	.44319	7304.1	11.586	100.82	.62813	71544.	.8970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.049	88.481	67.473	117480.	1132.	21060.	1257.0
Stddev	.174	.354	.810	333.	52.	123.	7.5
%RSD	1.3353	.40054	1.2001	.28321	4.587	.5834	.59672
#1	13.050	88.890	68.405	117190.	1085.	20980.	1265.4
#2	13.223	88.260	67.075	117850.	1187.	21200.	1254.7
#3	12.875	88.293	66.940	117410.	1123.	21000.	1250.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-003(5) Acquired: 11/21/2015 23:49:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.5537	180.35	73.053	63.439	1.5865	1.4937	363.8
Stddev	.1273	6.57	.083	1.627	2.1591	.7017	2.6
%RSD	2.7959	3.6444	.11371	2.5653	136.09	46.976	.7075
#1	4.4352	175.09	72.994	61.789	1.4441	.74452	366.7
#2	4.5377	178.25	73.148	65.042	-.49790	2.1355	363.0
#3	4.6883	187.72	73.017	63.487	3.8133	1.6011	361.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.0049	33.090	350.31
Stddev	1.1339	.263	.78
%RSD	56.559	.79559	.22172
#1	.70174	33.369	349.43
#2	2.5460	32.847	350.92
#3	2.7669	33.053	350.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK11054-003(5) Acquired: 11/21/2015 23:49:19 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME6BF5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27699.	13104.	397930.
Stddev	23.	211.	4741.
%RSD	.08167	1.6106	1.1914
#1	27706.	13125.	393280.
#2	27673.	13304.	397760.
#3	27717.	12884.	402760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.708%	96.033%	97.016%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 23:54:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	761.16	52791.	2569.9	10745.	1090.3	53724.	1005.
Stddev	14.78	1183.	4.5	234.	19.7	1106.	2.
%RSD	1.9423	2.2405	.17457	2.1814	1.8044	2.0581	.2295
#1	746.05	53969.	2566.2	10951.	1070.4	54887.	1003.
#2	775.60	51603.	2568.6	10794.	1090.8	52686.	1005.
#3	761.83	52801.	2574.9	10490.	1109.8	53600.	1008.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4906.2	10199.	12908.	25666.	F 42900.	51360.	5147.7
Stddev	9.9	106.	196.	494.	865.	1223.	79.7
%RSD	.20212	1.0372	1.5158	1.9247	2.016	2.382	1.5482
#1	4896.5	10078.	12687.	26195.	43750.	52620.	5116.5
#2	4905.8	10275.	13058.	25217.	42020.	50180.	5238.3
#3	4916.3	10245.	12979.	25585.	42930.	51290.	5088.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					37500.		
Range					10.00%		

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 23:54:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1019.5	F 28313.	4950.8	9596.4	2533.8	1288.3	1044.
Stddev	1.6	617.	6.2	19.5	2.9	7.9	20.
%RSD	.15711	2.1808	.12461	.20299	.11383	.60988	1.939
#1	1017.9	28925.	4946.2	9576.8	2530.8	1285.7	1023.
#2	1019.4	27690.	4948.5	9596.7	2534.2	1282.0	1064.
#3	1021.1	28323.	4957.8	9615.8	2536.5	1297.1	1044.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25000.					
Range		10.000%					

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	935.36	2600.2	5007.7
Stddev	3.88	51.4	10.6
%RSD	.41514	1.9755	.21191
#1	931.83	2548.6	4997.0
#2	934.74	2651.4	5007.9
#3	939.52	2600.7	5018.2
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/21/2015 23:54:04 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26599.	12633.	391260.
Stddev	96.	166.	6582.
%RSD	.36061	1.3149	1.6824
#1	26704.	12523.	397440.
#2	26517.	12824.	384340.
#3	26574.	12553.	391980.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 23:59:22 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11399	8.9180	-.32567	.98699	-.02790	3.2050	-.0939
Stddev	.13586	50.859	.69106	.52919	.01099	3.9262	.0125
%RSD	119.19	570.29	212.20	53.617	39.375	122.50	13.33
#1	.26681	-44.111	-1.0232	1.5949	-.03340	1.3839	-.0893
#2	.00688	13.580	.35871	.62953	-.01525	7.7110	-.1080
#3	.06827	57.285	-.31250	.73651	-.03504	.52015	-.0843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10085	-.05755	.21211	1.6377	88.50	.1045	.04984
Stddev	.09965	.14822	.47302	8.5182	13.12	18.71	.03420
%RSD	98.814	257.54	223.01	520.13	14.83	17900.	68.622
#1	-.18450	-.19150	.05502	11.320	103.2	20.29	.05370
#2	.00940	-.08285	-.16238	-4.7010	84.53	-3.308	.08194
#3	-.12744	.10169	.74370	-1.7064	77.83	-16.66	.01387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 23:59:22 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21885	-91.189	-.00157	-.67531	.45614	-.72935	.1430
Stddev	.44048	4.197	.14305	.95794	2.1710	.94987	.0404
%RSD	201.27	4.6023	9089.1	141.85	475.96	130.24	28.26
#1	.33244	-87.556	-.07900	-1.4560	-.33834	-1.2162	.1664
#2	.59141	-95.783	-.08922	-.96354	-1.2057	-1.3371	.0963
#3	-.26730	-90.229	.16350	.39365	2.9125	.36524	.1662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

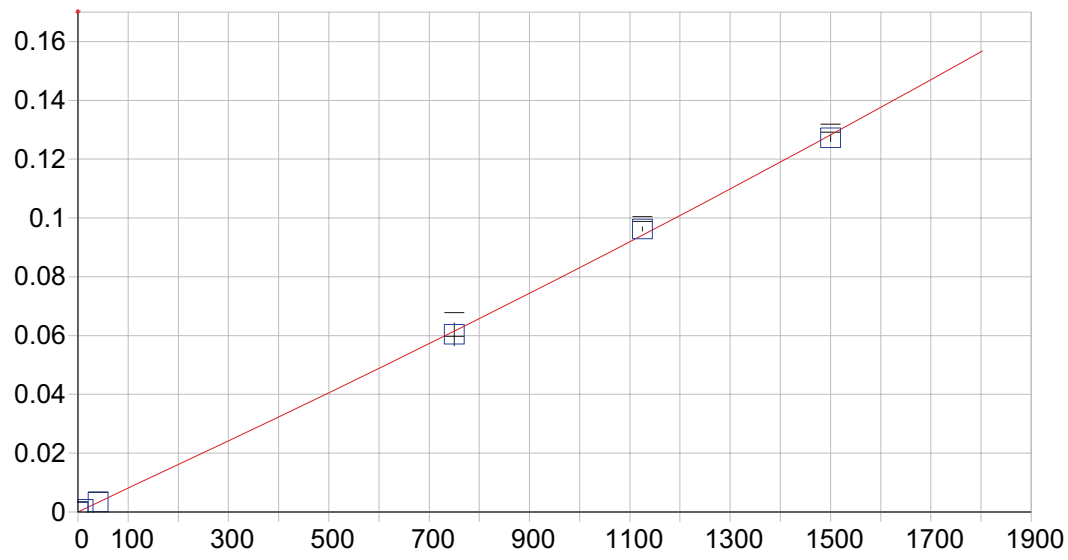
Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8295	.05037	.11599
Stddev	.1101	.23205	.10071
%RSD	6.0168	460.68	86.828
#1	1.7493	.03821	.22137
#2	1.7843	.28826	.02069
#3	1.9550	-.17536	.10592
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/21/2015 23:59:22 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28710.	13115.	415310.
Stddev	16.	7.	6145.
%RSD	.05533	.05504	1.4796
#1	28691.	13107.	420310.
#2	28720.	13122.	417180.
#3	28718.	13115.	408450.

PDF created with pdfFactory trial version www.pdffactory.com



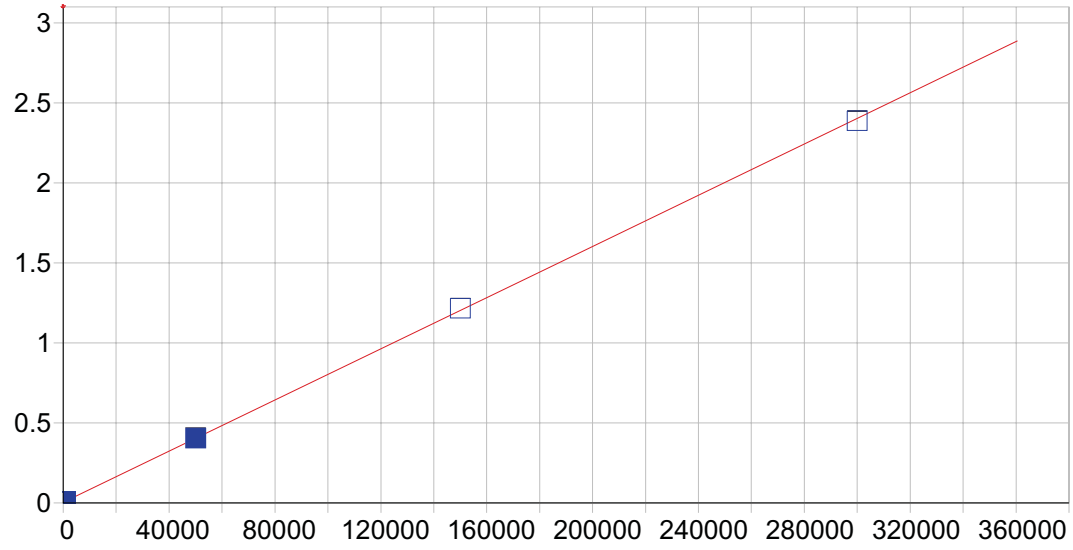
Ag 328.068 {103}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Full Fit	Weighting:	1/Conc

A0 (Offset):	0.000047	Re-Slope:	1.000000
A1 (Gain):	0.000088	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	0.980000		
Correlation:	0.999870	Status:	Warning Positive Curvature
Std Error of Est:	0.000014		
Predicted MDL:	0.463108		
Predicted MQL:	1.543693		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00005	.000	1
S01 ISM-520	10.000	10.012	.012	.118	.00089	.000	1
S02 ISM-521	40.000	40.283	.283	.707	.00335	.000	1
S03 ISM-538	750.00	737.12	-12.9	-1.72	.06041	.004	1
S04 ISM-523	1125.0	1148.7	23.7	2.11	.09624	.001	1
S05 ISM-524	1500.0	1488.8	-11.2	-.747	.12719	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



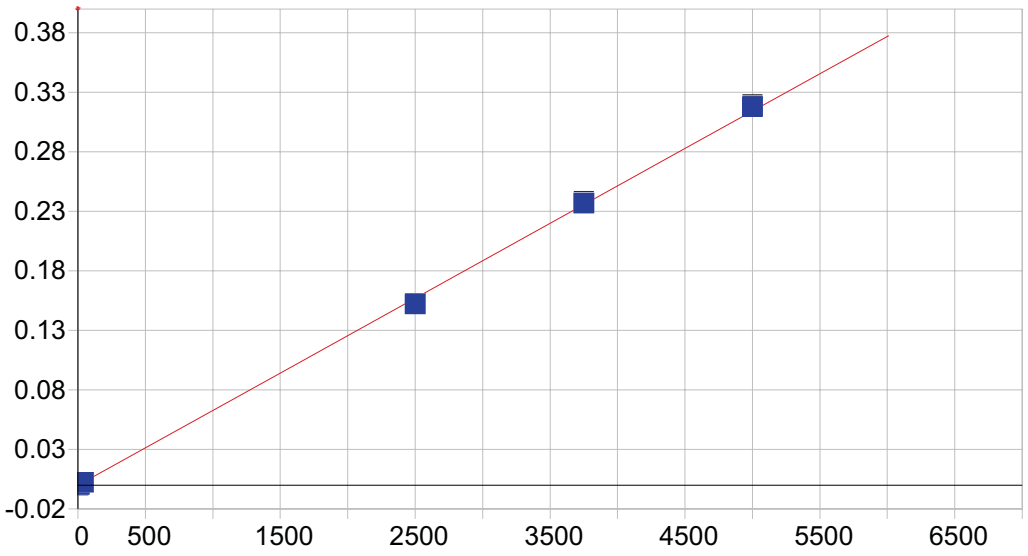
Al 308.215 {109}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003321	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	63.542777		
Predicted MQL:	211.809256		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.05908	-.059	.000	.00332	.000	1
S01 ISM-520	200.00	241.04	41.0	20.5	.00527	.000	1
S02 ISM-521	800.00	865.28	65.3	8.16	.01032	.001	1
S03 ISM-538	50000.	50203.	203.	.406	.40582	.002	1
S06 ISM-463	150000.	151670.	1670.	1.11	1.2164	.000	1
S07 ISM-464	300000.	298020.	-1980.	-.659	2.3870	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



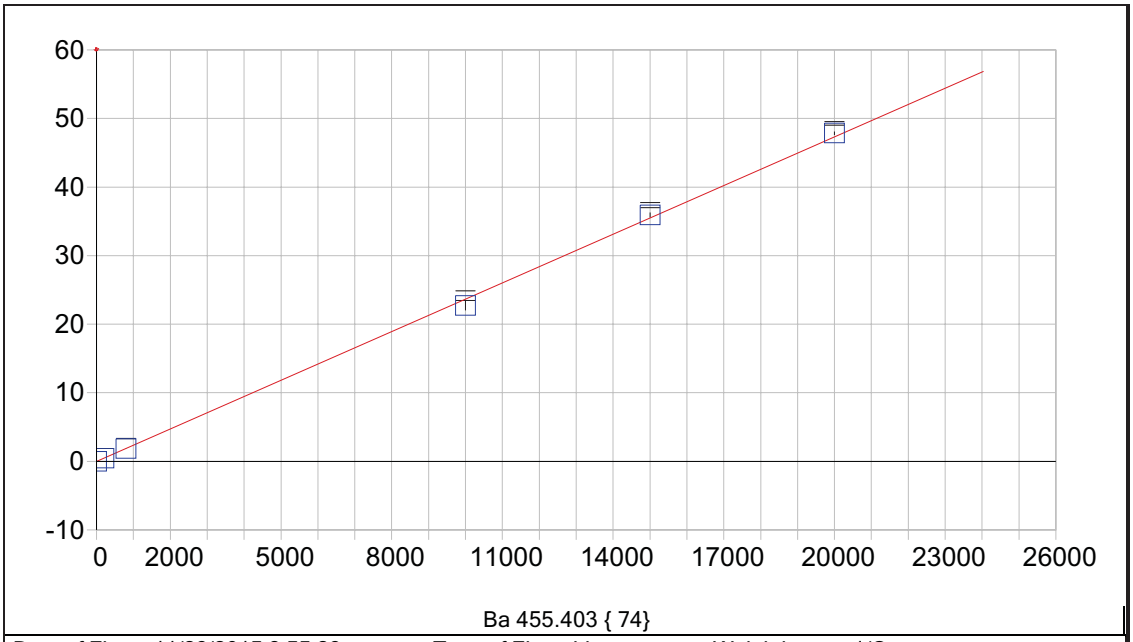
As 189.042 {478}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000213	Re-Slope:	1.000000
A1 (Gain):	0.000063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999853	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	1.253000		
Predicted MQL:	4.176668		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00065	.001	.000	-.00021	.000	1
S01 ISM-520	10.000	9.5884	-.412	-4.12	.00039	.000	1
S02 ISM-521	40.000	39.630	-.370	-.926	.00228	.000	1
S03 ISM-538	2500.0	2420.9	-79.1	-3.16	.15244	.000	1
S04 ISM-523	3750.0	3770.1	20.1	.537	.23747	.001	1
S05 ISM-524	5000.0	5059.8	59.8	1.20	.31877	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



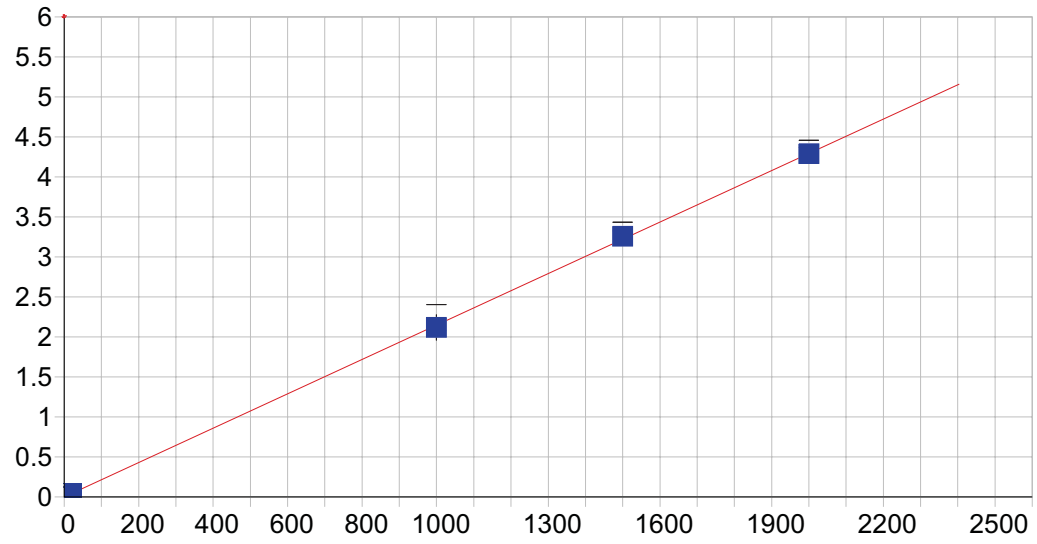
Ba 455.403 { 74}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003109	Re-Slope:	1.000000
A1 (Gain):	0.002366	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999774	Status:	OK.
Std Error of Est:	0.005900		
Predicted MDL:	0.574838		
Predicted MQL:	1.916127		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.01060	.011	.000	-.00308	.002	1
S01 ISM-520	200.00	194.33	-5.67	-2.83	.45662	.001	1
S02 ISM-521	800.00	793.18	-6.82	-.853	1.8733	.006	1
S03 ISM-538	10000.	9603.2	-397.	-3.97	22.715	.702	1
S04 ISM-523	15000.	15184.	184.	1.23	35.918	.387	1
S05 ISM-524	20000.	20225.	225.	1.13	47.844	.260	1

PDF created with pdfFactory trial version www.pdffactory.com



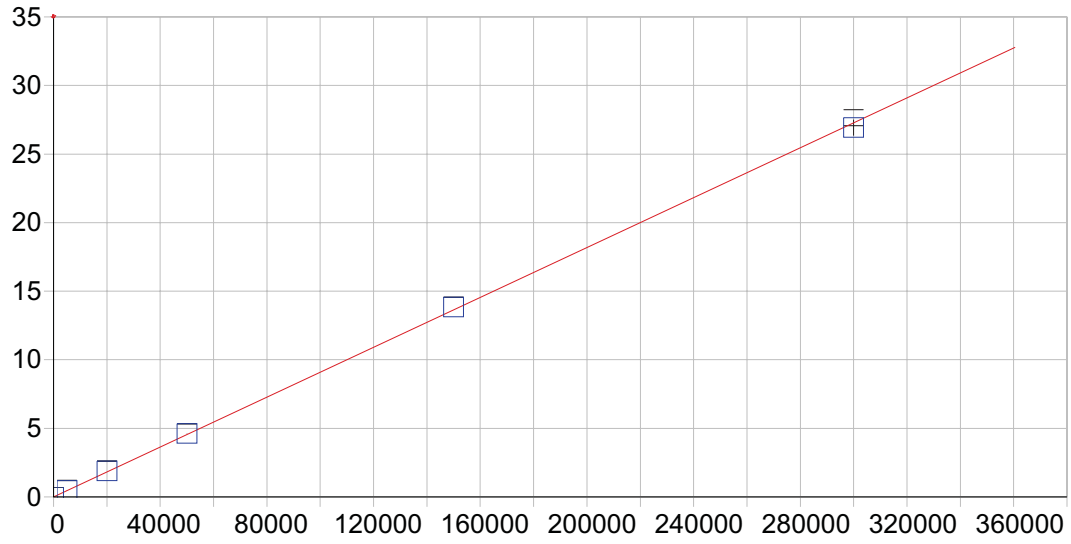
Be 313.042 {108}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000983	Re-Slope:	1.000000
A1 (Gain):	0.002146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999956	Status:	OK.
Std Error of Est:	0.000117		
Predicted MDL:	0.016111		
Predicted MQL:	0.053702		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00012	-.000	.000	.00098	.000	1
S01 ISM-520	5.0000	4.9653	-.035	-.694	.01169	.000	1
S02 ISM-521	20.000	20.702	.702	3.51	.04560	.001	1
S03 ISM-538	1000.0	985.87	-14.1	-1.41	2.1194	.162	1
S04 ISM-523	1500.0	1516.1	16.1	1.07	3.2585	.055	1
S05 ISM-524	2000.0	1997.4	-2.60	-.130	4.2928	.044	1

PDF created with pdfFactory trial version www.pdffactory.com



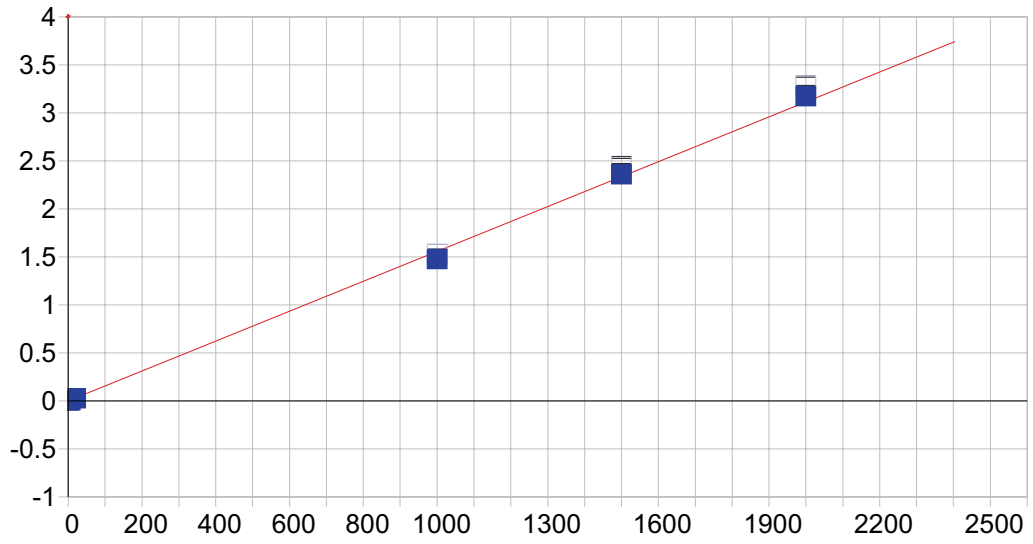
Ca 317.933 {106}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006397	Re-Slope:	1.000000
A1 (Gain):	0.000091	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999882	Status:	OK.
Std Error of Est:	0.002766		
Predicted MDL:	6.752104		
Predicted MQL:	22.507013		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.45086	-.451	.000	.00636	.001	1
S01 ISM-520	5000.0	5186.5	187.	3.73	.47776	.001	1
S02 ISM-521	20000.	20755.	755.	3.77	1.8927	.007	1
S03 ISM-538	50000.	50658.	658.	1.32	4.6104	.016	1
S06 ISM-463	150000.	152180.	2180.	1.46	13.837	.005	1
S07 ISM-464	300000.	296220.	-3780.	-1.26	26.927	.584	1

PDF created with pdfFactory trial version www.pdffactory.com



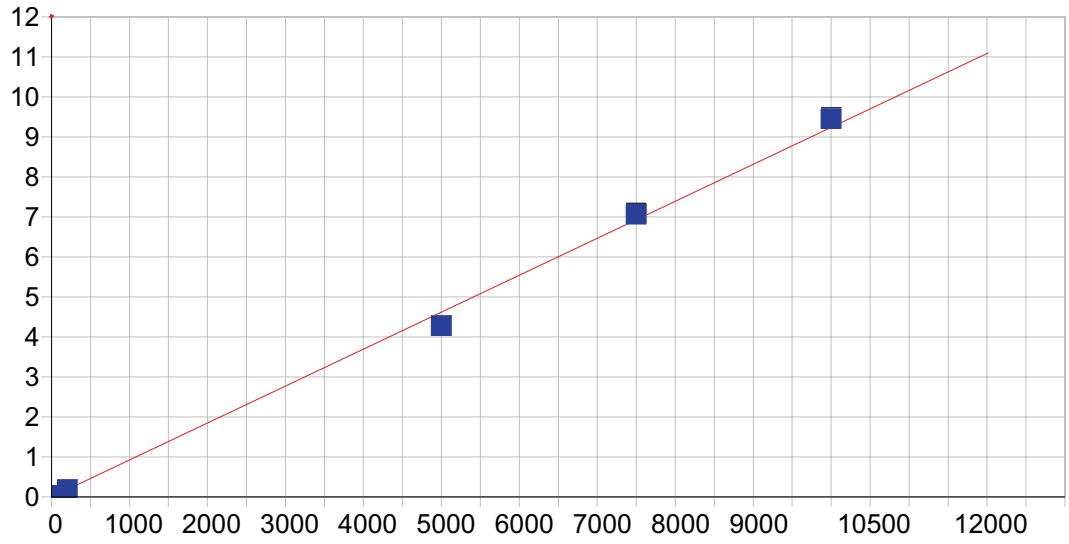
Cd 228.802 {447}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000675	Re-Slope:	1.000000
A1 (Gain):	0.001558	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999614	Status:	OK.
Std Error of Est:	0.000260		
Predicted MDL:	0.178924		
Predicted MQL:	0.596415		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00095	.001	.000	-.00067	.000	1
S01 ISM-520	5.0000	4.5267	-.473	-9.47	.00658	.000	1
S02 ISM-521	20.000	18.548	-1.45	-7.26	.02901	.000	1
S03 ISM-538	1000.0	948.25	-51.8	-5.18	1.5261	.001	1
S04 ISM-523	1500.0	1515.3	15.3	1.02	2.4341	.010	1
S05 ISM-524	2000.0	2038.3	38.3	1.92	3.2736	.008	1

PDF created with pdfFactory trial version www.pdffactory.com



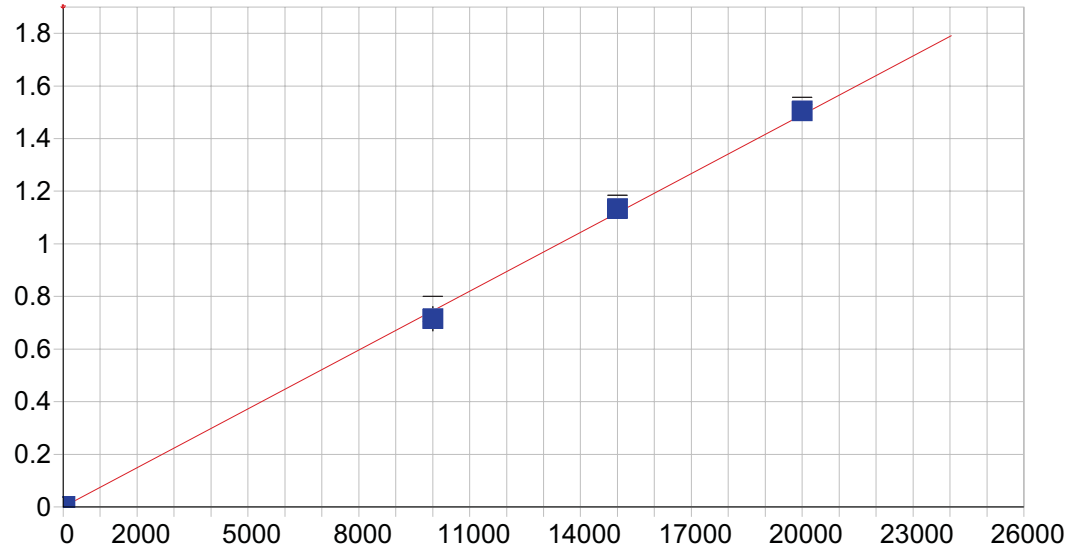
Co 228.616 {447}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000367	Re-Slope:	1.000000
A1 (Gain):	0.000924	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999200	Status:	OK.
Std Error of Est:	0.001526		
Predicted MDL:	0.176424		
Predicted MQL:	0.588079		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00776	.008	.000	.00037	.000	1
S01 ISM-520	50.000	46.750	-3.25	-6.50	.04365	.000	1
S02 ISM-521	200.00	188.04	-12.0	-5.98	.17426	.000	1
S03 ISM-538	5000.0	4632.2	-368.	-7.36	4.2809	.005	1
S04 ISM-523	7500.0	7644.6	145.	1.93	7.0644	.029	1
S05 ISM-524	10000.	10238.	238.	2.38	9.4613	.021	1

PDF created with pdfFactory trial version www.pdffactory.com



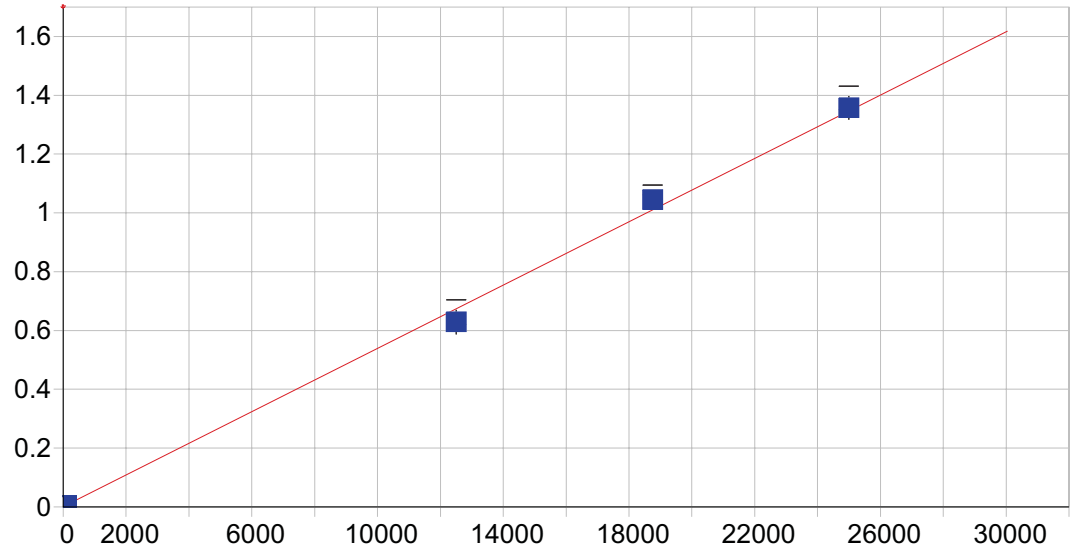
Cr 267.716 {126}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000180	Re-Slope:	1.000000
A1 (Gain):	0.000075	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999766	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.345605		
Predicted MQL:	1.152017		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00005	-.000	.000	.00018	.000	1
S01 ISM-520	10.000	10.117	.117	1.17	.00093	.000	1
S02 ISM-521	40.000	40.404	.404	1.01	.00319	.000	1
S03 ISM-538	10000.	9595.7	-404.	-4.04	.71532	.047	1
S04 ISM-523	15000.	15206.	206.	1.38	1.1335	.014	1
S05 ISM-524	20000.	20197.	197.	.987	1.5054	.014	1

PDF created with pdfFactory trial version www.pdffactory.com



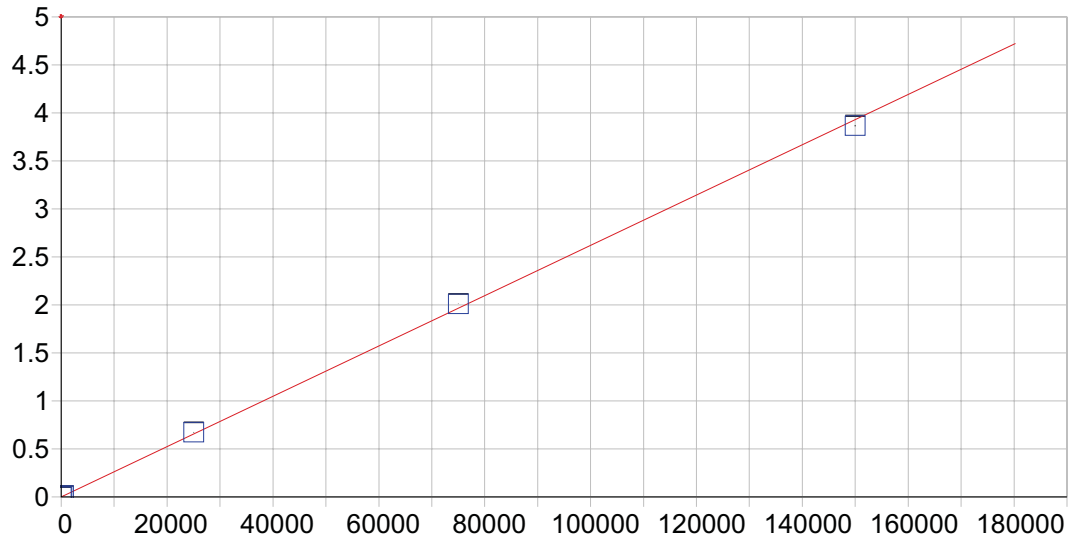
Cu 327.396 {103}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001167	Re-Slope:	1.000000
A1 (Gain):	0.000054	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999291	Status:	OK.
Std Error of Est:	0.000093		
Predicted MDL:	0.767901		
Predicted MQL:	2.559668		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00184	.002	.000	.00117	.000	1
S01 ISM-520	25.000	24.333	-.667	-2.67	.00249	.000	1
S02 ISM-521	100.00	97.794	-2.21	-2.21	.00647	.000	1
S03 ISM-538	12500.	11660.	-840.	-6.72	.62871	.042	1
S04 ISM-523	18750.	19388.	638.	3.40	1.0445	.017	1
S05 ISM-524	25000.	25205.	205.	.820	1.3576	.040	1

PDF created with pdfFactory trial version www.pdffactory.com



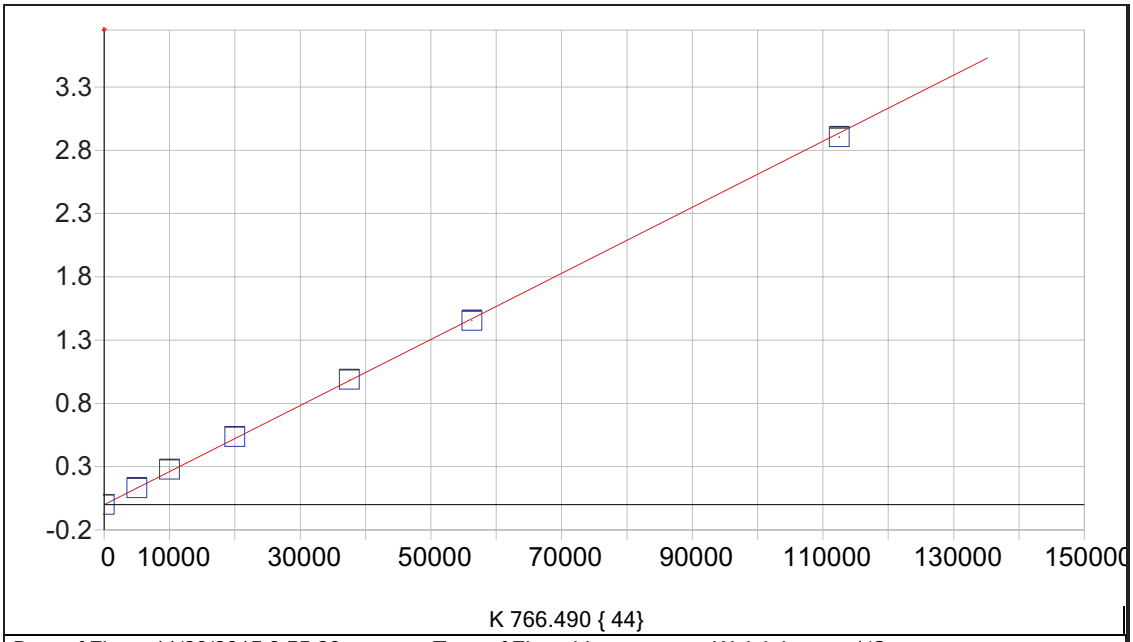
Fe 261.187 {129}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000852	Re-Slope:	1.000000
A1 (Gain):	0.000026	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999807	Status:	OK.
Std Error of Est:	0.000100		
Predicted MDL:	13.322966		
Predicted MQL:	44.409886		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00734	-.007	.000	.00085	.000	1
S01 ISM-520	100.00	97.696	-2.30	-2.30	.00341	.000	1
S02 ISM-521	400.00	425.59	25.6	6.40	.01200	.000	1
S03 ISM-538	25000.	25628.	628.	2.51	.67213	.003	1
S06 ISM-463	75000.	76749.	1750.	2.33	2.0111	.001	1
S07 ISM-464	150000.	147600.	-2400.	-1.60	3.8669	.008	1

PDF created with pdfFactory trial version www.pdffactory.com



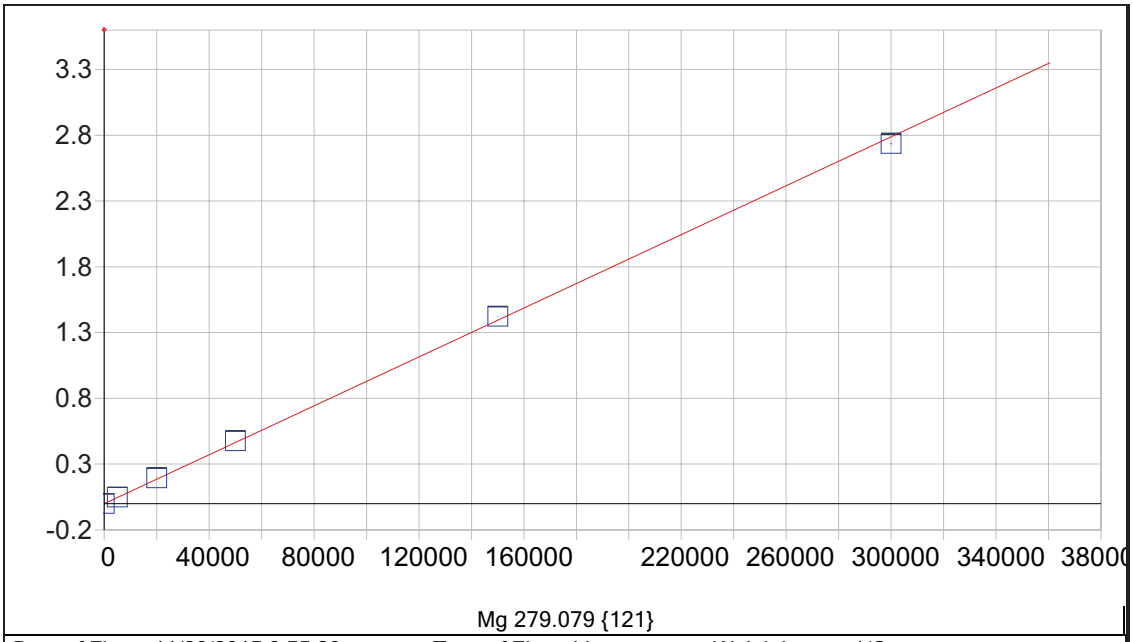
K 766.490 { 44}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001055	Re-Slope:	1.000000
A1 (Gain):	0.000026	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999805	Status:	OK.
Std Error of Est:	0.000669		
Predicted MDL:	63.058635		
Predicted MQL:	210.195451		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.55915	-.559	.000	-.00107	.000	1
S02 ISM-521	20000.	20573.	573.	2.87	.53636	.001	1
S01 ISM-520	5000.0	5106.6	107.	2.13	.13234	.001	1
S03 ISM-538	37500.	37906.	406.	1.08	.98913	.002	1
S08 ISM-465	56250.	55731.	-519.	-.923	1.4547	.004	1
S06 ISM-463	112500.	111220.	-1280.	-1.14	2.9042	.006	1
S10 ISM-457	10000.	10716.	716.	7.16	.27888	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



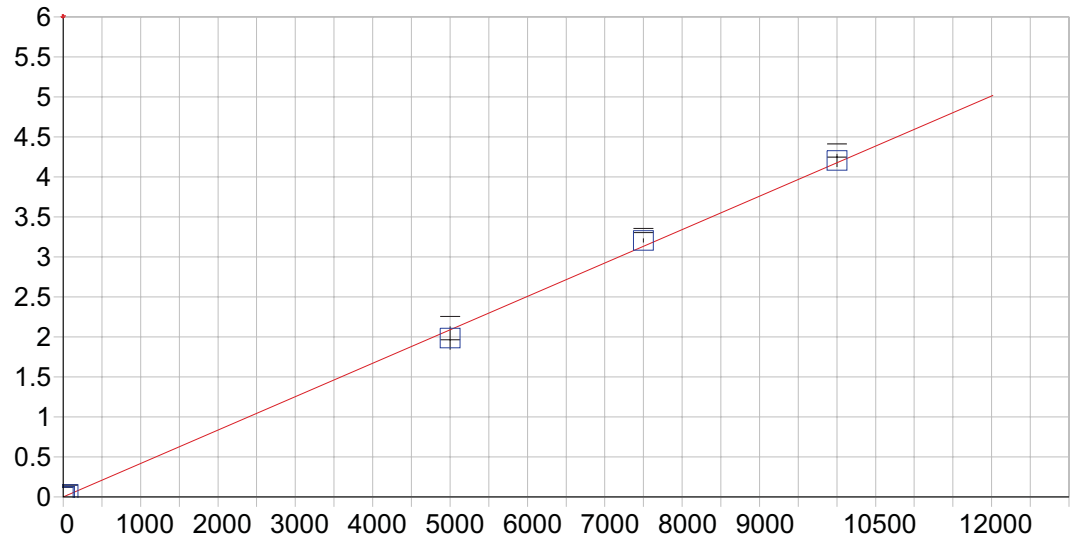
Mg 279.079 {121}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000088	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999749	Status:	OK.
Std Error of Est:	0.000413		
Predicted MDL:	34.057105		
Predicted MQL:	113.523682		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.61075	-.611	.000	-.00009	.000	1
S01 ISM-520	5000.0	5220.6	221.	4.41	.04844	.000	1
S02 ISM-521	20000.	21001.	1000.	5.01	.19511	.001	1
S03 ISM-538	50000.	51301.	1300.	2.60	.47673	.002	1
S06 ISM-463	150000.	153110.	3110.	2.07	1.4230	.002	1
S07 ISM-464	300000.	294370.	-5630.	-1.88	2.7360	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



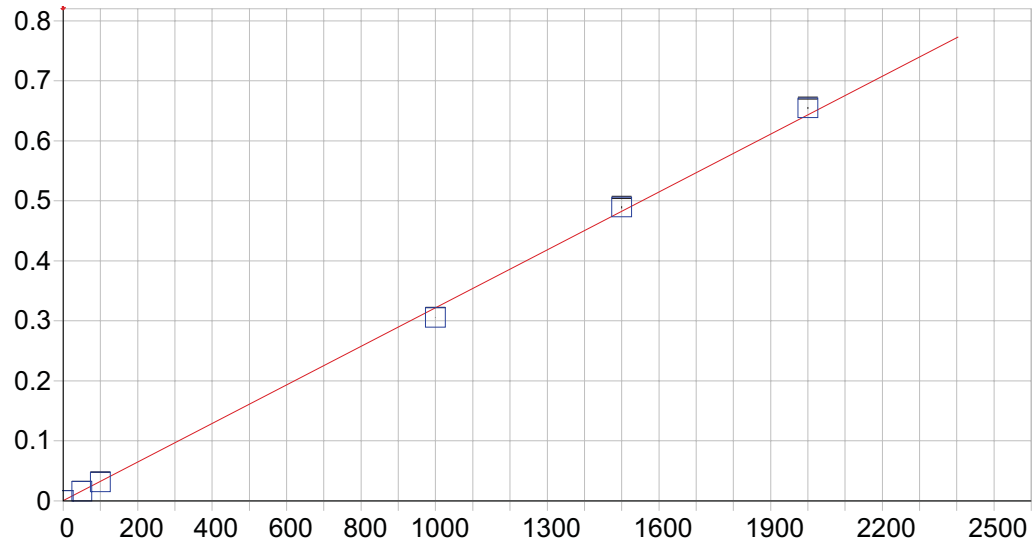
Mn 257.610 {131}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000020	Re-Slope:	1.000000
A1 (Gain):	0.000418	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999629	Status:	OK.
Std Error of Est:	0.000256		
Predicted MDL:	0.059704		
Predicted MQL:	0.199014		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00095	-.001	.000	.00002	.000	1
S01 ISM-520	15.000	15.556	.556	3.71	.00652	.000	1
S02 ISM-521	60.000	62.723	2.72	4.54	.02622	.000	1
S03 ISM-538	5000.0	4754.2	-246.	-4.92	1.9859	.145	1
S04 ISM-523	7500.0	7674.5	175.	2.33	3.2057	.027	1
S05 ISM-524	10000.	10068.	68.1	.681	4.2055	.082	1

PDF created with pdfFactory trial version www.pdffactory.com



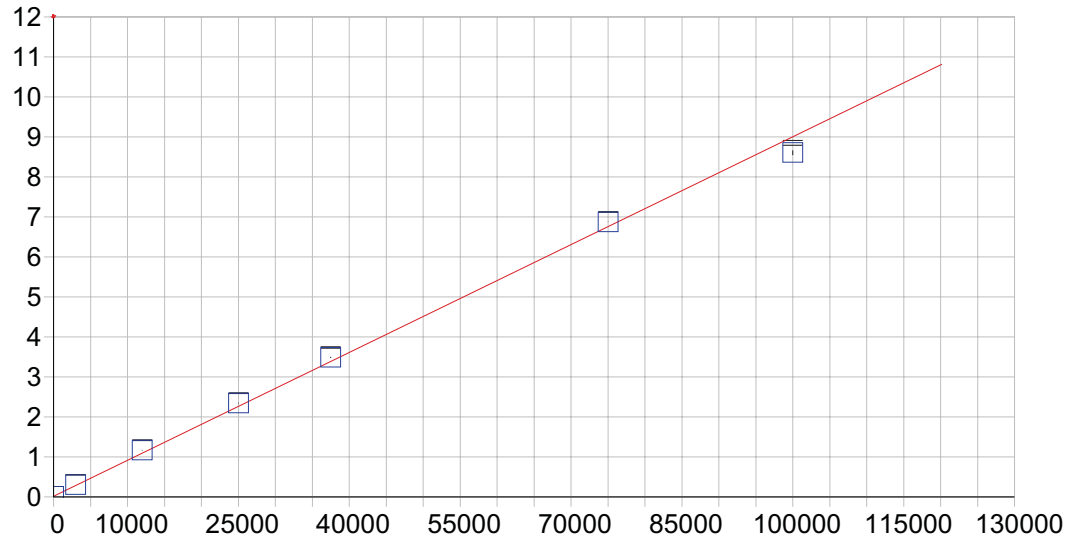
Mo 202.030 {467}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000465	Re-Slope:	1.000000
A1 (Gain):	0.000321	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999600	Status:	OK.
Std Error of Est:	0.000170		
Predicted MDL:	0.281060		
Predicted MQL:	0.936866		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00491	.005	.000	.00047	.000	1
S01 ISM-520	50.000	48.132	-1.87	-3.74	.01593	.000	1
S02 ISM-521	100.00	95.795	-4.21	-4.21	.03125	.000	1
S03 ISM-538	1000.0	949.52	-50.5	-5.05	.30562	.000	1
S04 ISM-523	1500.0	1520.8	20.8	1.39	.48924	.002	1
S05 ISM-524	2000.0	2035.7	35.7	1.79	.65470	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



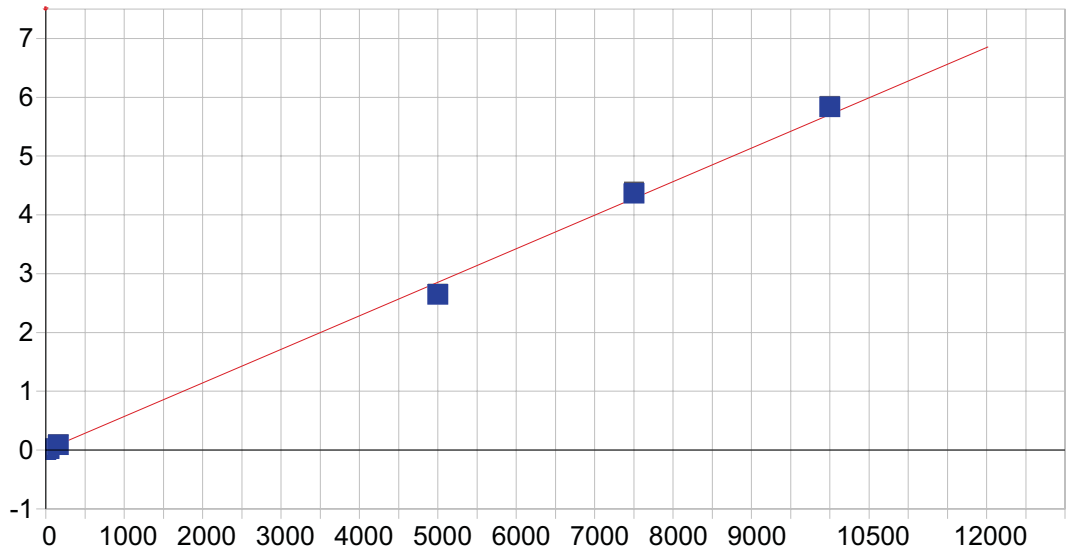
Na 589.592 { 57}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.015429	Re-Slope:	1.000000
A1 (Gain):	0.000090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999282	Status:	OK.
Std Error of Est:	0.003507		
Predicted MDL:	22.227115		
Predicted MQL:	74.090382		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.56627	-.566	.000	.01538	.001	1
S01 ISM-520	3000.0	3238.3	238.	7.94	.30649	.001	1
S02 ISM-521	12000.	12838.	838.	6.98	1.1693	.007	1
S03 ISM-538	25000.	25895.	895.	3.58	2.3429	.007	1
S06 ISM-463	75000.	76312.	1310.	1.75	6.8744	.004	1
S08 ISM-465	37500.	38641.	1140.	3.04	3.4885	.013	1
S09 ISM-456	100000.	95576.	-4420.	-4.42	8.6059	.061	1

PDF created with pdfFactory trial version www.pdffactory.com



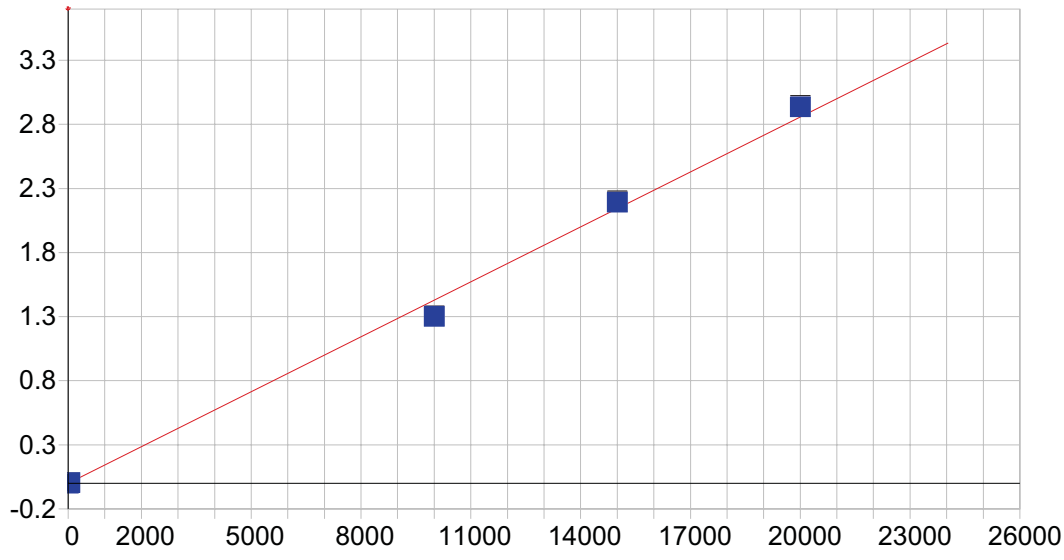
Ni 231.604 {445}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000540	Re-Slope:	1.000000
A1 (Gain):	0.000571	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999234	Status:	OK.
Std Error of Est:	0.000825		
Predicted MDL:	0.293477		
Predicted MQL:	0.978257		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00606	.006	.000	-.00054	.000	1
S01 ISM-520	40.000	37.378	-2.62	-6.56	.02081	.000	1
S02 ISM-521	160.00	151.06	-8.94	-5.59	.08572	.000	1
S03 ISM-538	5000.0	4638.0	-362.	-7.24	2.6474	.002	1
S04 ISM-523	7500.0	7653.8	154.	2.05	4.3698	.016	1
S05 ISM-524	10000.	10220.	220.	2.20	5.8350	.009	1

PDF created with pdfFactory trial version www.pdffactory.com



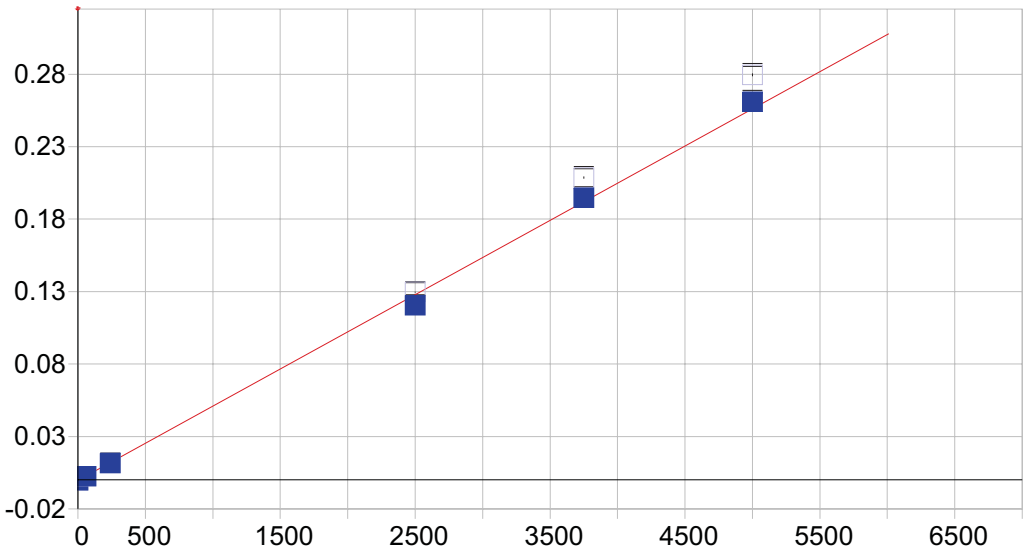
Pb 220.353 {453}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000203	Re-Slope:	1.000000
A1 (Gain):	0.000143	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998858	Status:	OK.
Std Error of Est:	0.000178		
Predicted MDL:	1.482772		
Predicted MQL:	4.942575		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00233	.002	.000	-.00020	.000	1
S01 ISM-520	10.000	8.9810	-1.02	-10.2	.00110	.000	1
S02 ISM-521	40.000	36.303	-3.70	-9.24	.00504	.000	1
S03 ISM-538	10000.	9107.8	-892.	-8.92	1.3053	.001	1
S04 ISM-523	15000.	15347.	347.	2.31	2.1943	.009	1
S05 ISM-524	20000.	20552.	552.	2.76	2.9385	.008	1

PDF created with pdfFactory trial version www.pdffactory.com



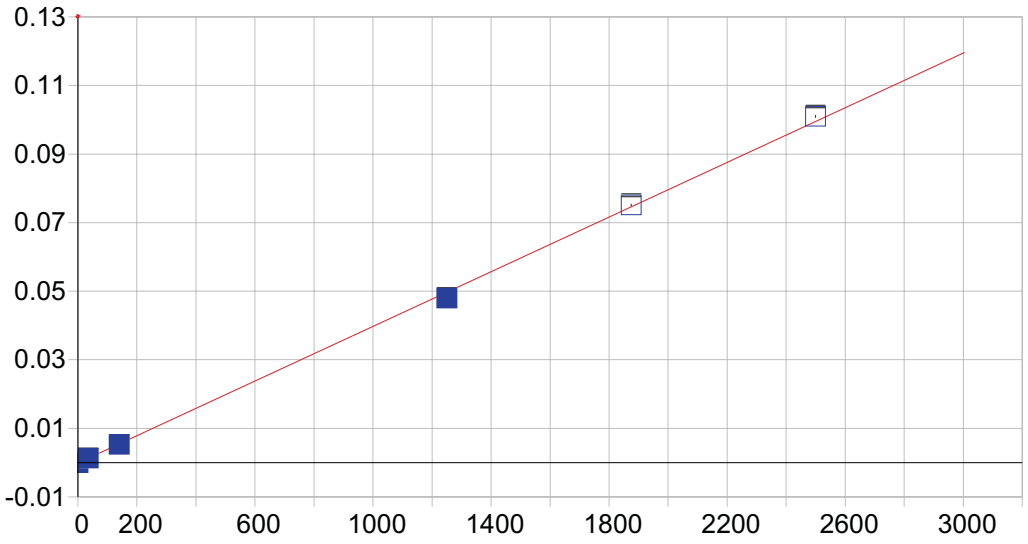
Sb 206.833 {463}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000451	Re-Slope:	1.000000
A1 (Gain):	0.000051	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999583	Status:	OK.
Std Error of Est:	0.000051		
Predicted MDL:	2.010700		
Predicted MQL:	6.702334		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00517	.005	.000	-.00045	.000	1
S01 ISM-520	60.000	58.029	-1.97	-3.28	.00252	.000	1
S02 ISM-521	240.00	232.76	-7.24	-3.02	.01150	.000	1
S03 ISM-538	2500.0	2357.7	-142.	-5.69	.12971	.000	1
S04 ISM-523	3750.0	3804.6	54.6	1.46	.20868	.001	1
S05 ISM-524	5000.0	5096.2	96.2	1.92	.27959	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



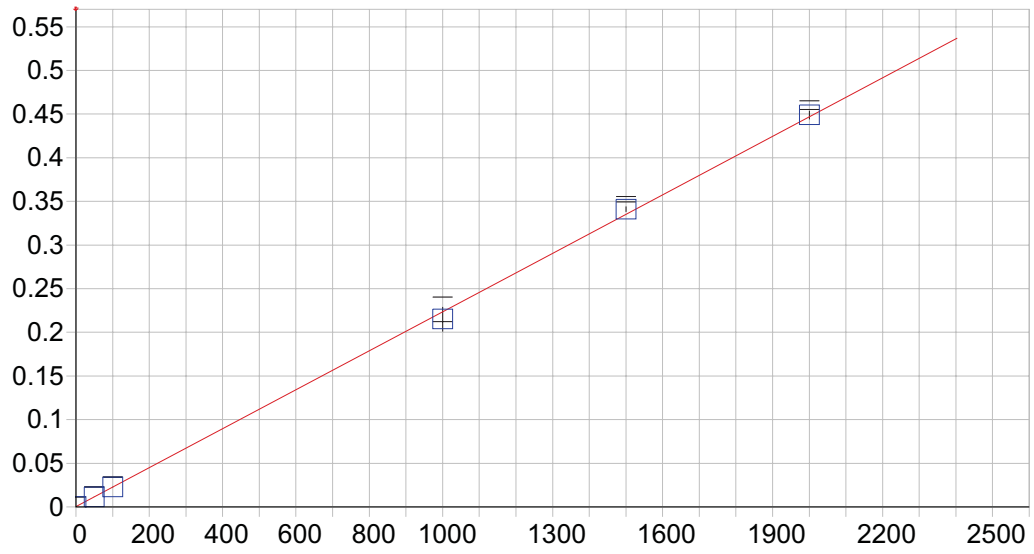
Se 196.090 {472}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000145	Re-Slope:	1.000000
A1 (Gain):	0.000040	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999815	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	2.113756		
Predicted MQL:	7.045852		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00149	.001	.000	-.00015	.000	1
S01 ISM-520	35.000	34.923	-.077	-.220	.00125	.000	1
S02 ISM-521	140.00	136.34	-3.66	-2.61	.00529	.000	1
S03 ISM-538	1250.0	1206.9	-43.1	-3.45	.04798	.000	1
S04 ISM-523	1875.0	1886.9	11.9	.632	.07509	.000	1
S05 ISM-524	2500.0	2535.0	35.0	1.40	.10094	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



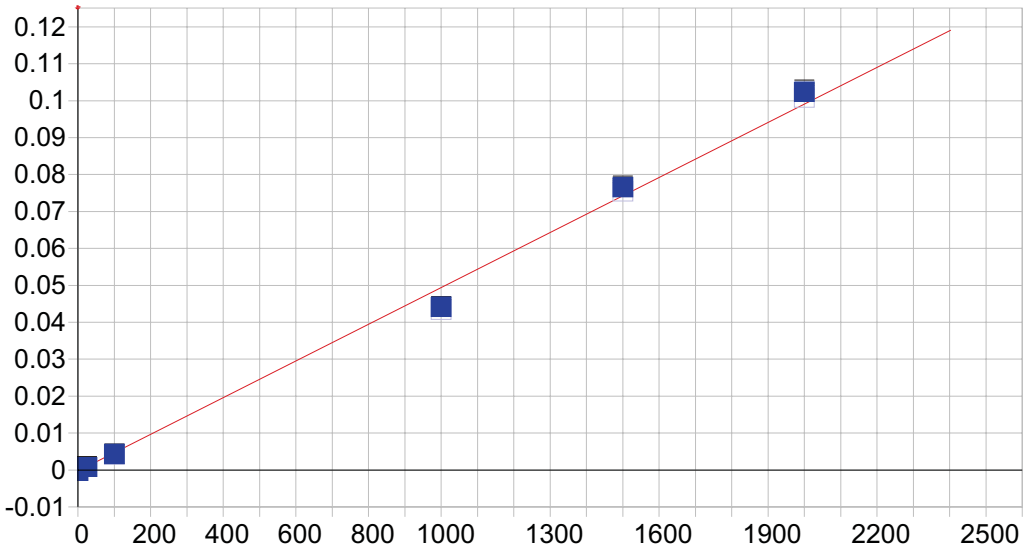
Ti 337.280 {100}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000205	Re-Slope:	1.000000
A1 (Gain):	0.000223	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999790	Status:	OK.
Std Error of Est:	0.000085		
Predicted MDL:	0.216924		
Predicted MQL:	0.723078		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00018	-.000	.000	.00020	.000	1
S01 ISM-520	50.000	50.377	.377	.754	.01145	.000	1
S02 ISM-521	100.00	101.13	1.13	1.13	.02278	.000	1
S03 ISM-538	1000.0	962.28	-37.7	-3.77	.21507	.014	1
S04 ISM-523	1500.0	1526.5	26.5	1.77	.34105	.003	1
S05 ISM-524	2000.0	2009.7	9.68	.484	.44893	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



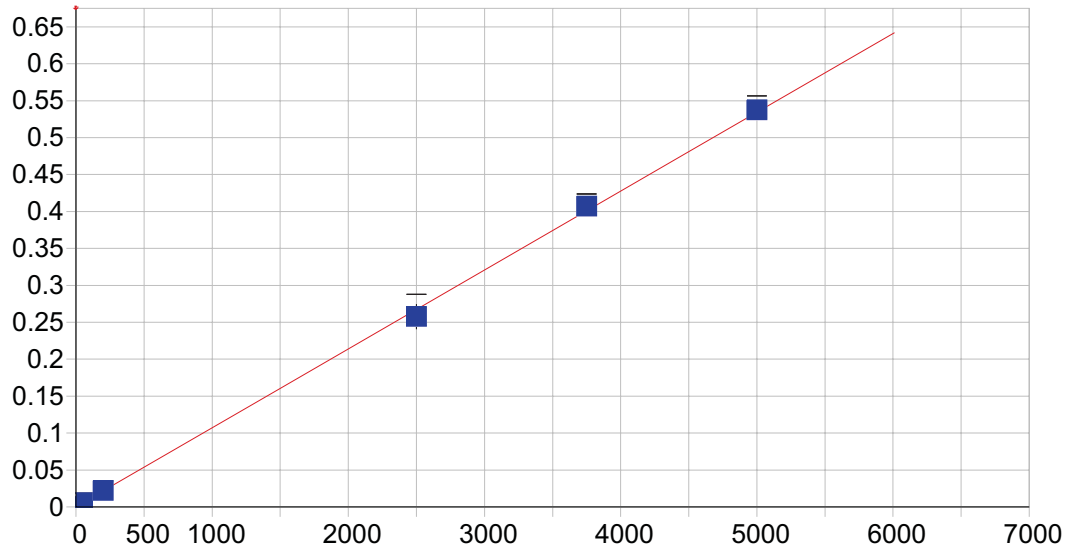
TI 190.856 {477}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000281	Re-Slope:	1.000000
A1 (Gain):	0.000050	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998267	Status:	OK.
Std Error of Est:	0.000038		
Predicted MDL:	1.287902		
Predicted MQL:	4.293006		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00491	.005	.000	-.00028	.000	1
S01 ISM-520	25.000	23.090	-1.91	-7.64	.00084	.000	1
S02 ISM-521	100.00	91.931	-8.07	-8.07	.00420	.000	1
S03 ISM-538	1000.0	895.11	-105.	-10.5	.04341	.000	1
S04 ISM-523	1500.0	1547.8	47.8	3.19	.07544	.000	1
S05 ISM-524	2000.0	2067.0	67.0	3.35	.10084	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



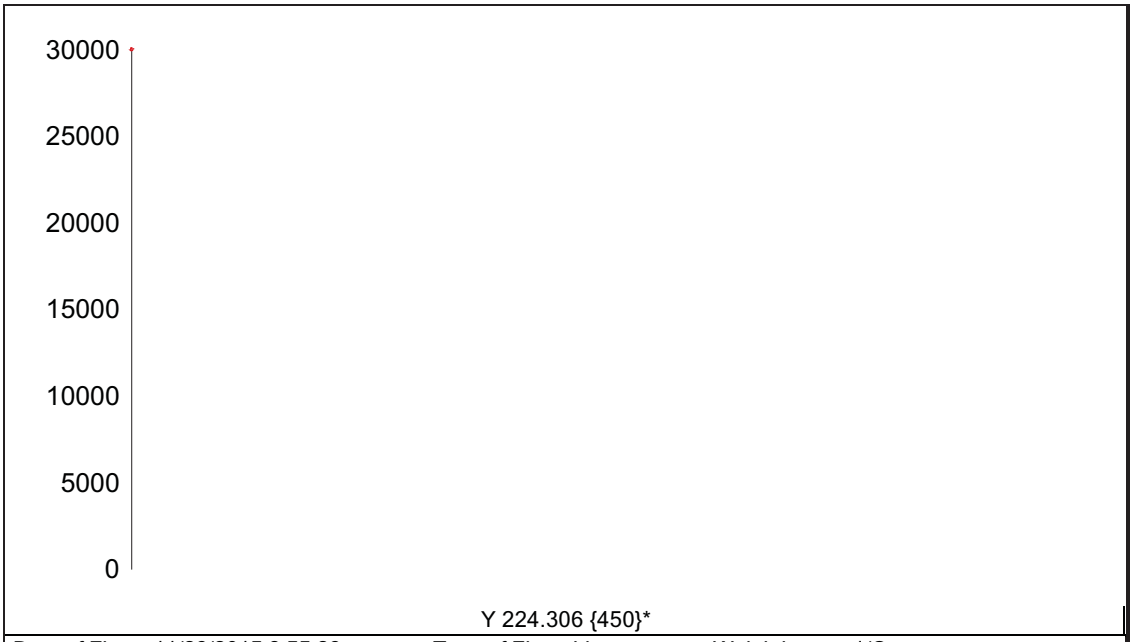
V 292.402 {115}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000296	Re-Slope:	1.000000
A1 (Gain):	0.000107	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999804	Status:	OK.
Std Error of Est:	0.000062		
Predicted MDL:	0.337187		
Predicted MQL:	1.123958		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00121	.001	.000	.00030	.000	1
S01 ISM-520	50.000	48.883	-1.12	-2.23	.00550	.000	1
S02 ISM-521	200.00	202.55	2.55	1.27	.02189	.000	1
S03 ISM-538	2500.0	2408.8	-91.2	-3.65	.25719	.017	1
S04 ISM-523	3750.0	3809.0	59.0	1.57	.40655	.003	1
S05 ISM-524	5000.0	5030.7	30.7	.614	.53684	.006	1

PDF created with pdfFactory trial version www.pdffactory.com



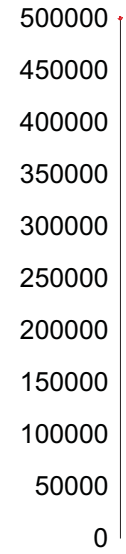
Date of Fit:	11/23/2015 8:55:23		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	27158.	912.	1

PDF created with pdfFactory trial version www.pdffactory.com

Date of Fit:	11/23/2015 8:55:23		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	12527.	180.	1

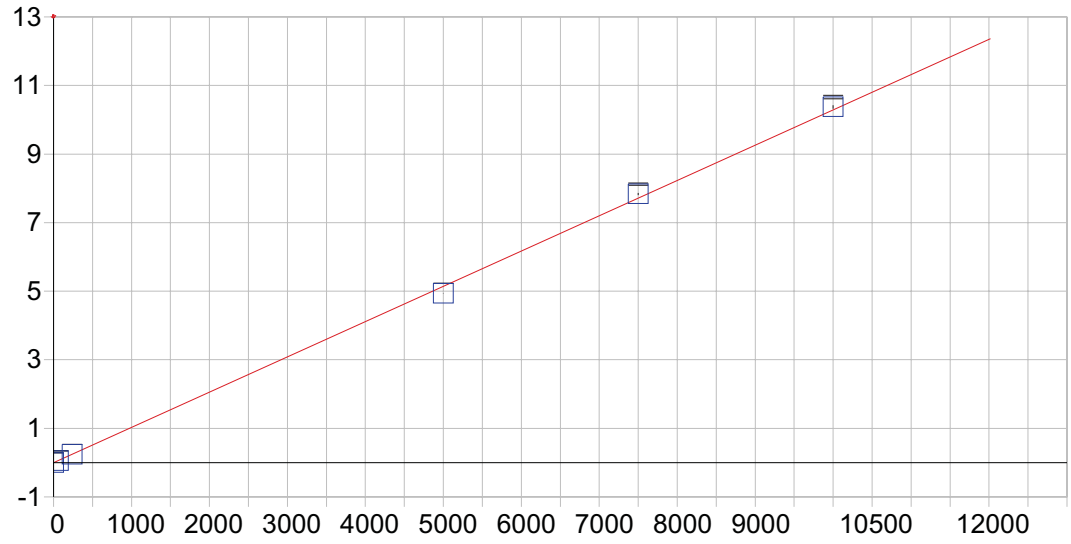


Y 371.030 { 91}2*

Date of Fit:	11/23/2015 8:55:23		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	391810.	11900.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/23/2015 8:55:23	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000362	Re-Slope:	1.000000
A1 (Gain):	0.001029	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999766	Status:	OK.
Std Error of Est:	0.001008		
Predicted MDL:	0.102201		
Predicted MQL:	0.340669		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00442	.004	.000	-.00036	.000	1
S01 ISM-520	60.000	57.540	-2.46	-4.10	.05882	.000	1
S02 ISM-521	240.00	235.79	-4.21	-1.75	.24217	.000	1
S03 ISM-538	5000.0	4801.6	-198.	-3.97	4.9385	.005	1
S04 ISM-523	7500.0	7620.1	120.	1.60	7.8375	.032	1
S05 ISM-524	10000.	10085.	85.0	.850	10.373	.050	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/22/2015 13:24:55 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00005	.00332	-.00021	-.00308	.00098	.00636	-.0007
Stddev	.00002	.00014	.00002	.00247	.00003	.00051	.0001
%RSD	37.099	4.3007	7.1748	80.144	3.2159	7.9892	16.38
#1	.00005	.00344	-.00023	-.00145	.00100	.00649	-.0008
#2	.00003	.00335	-.00022	-.00187	.00100	.00678	-.0006
#3	.00006	.00316	-.00020	-.00593	.00095	.00579	-.0006

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00037	.00018	.00117	.00085	-.0011	-.0001	.00002
Stddev	.00013	.00000	.00002	.00028	.0002	.0002	.00001
%RSD	35.578	1.9964	1.9665	32.635	21.20	220.5	71.266
#1	.00026	.00018	.00118	.00074	-.0009	-.0002	.00002
#2	.00052	.00018	.00118	.00065	-.0010	-.0002	.00000
#3	.00035	.00018	.00114	.00117	-.0013	.0001	.00003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00047	.01538	-.00054	-.00020	-.00045	-.00015	.0002
Stddev	.00004	.00070	.00023	.00002	.00009	.00004	.0001
%RSD	7.8442	4.5690	42.095	9.0832	20.872	25.660	45.99
#1	.00043	.01612	-.00077	-.00022	-.00047	-.00011	.0003
#2	.00050	.01528	-.00053	-.00019	-.00054	-.00015	.0002
#3	.00047	.01473	-.00031	-.00019	-.00035	-.00018	.0001

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/22/2015 13:24:55 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00028	.00030	-.00036
Stddev	.00003	.00003	.00004
%RSD	12.005	9.1400	11.813
#1	-.00032	.00030	-.00031
#2	-.00027	.00032	-.00036
#3	-.00025	.00027	-.00040

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27158.	12527.	391810.
Stddev	912.	180.	11944.
%RSD	3.3570	1.4361	3.0485
#1	27306.	12580.	385780.
#2	27987.	12675.	384080.
#3	26182.	12327.	405570.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/22/2015 13:29:39 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00089	.00527	.00039	.45662	.01169	.47776	.0066
Stddev	.00001	.00044	.00004	.00139	.00012	.00099	.0002
%RSD	1.3886	8.3378	9.0319	.30384	1.0386	.20676	2.992
#1	.00088	.00502	.00036	.45780	.01173	.47662	.0064
#2	.00090	.00578	.00043	.45698	.01178	.47833	.0067
#3	.00089	.00502	.00038	.45509	.01155	.47834	.0067

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04365	.00093	.00249	.00341	.1323	.0484	.00652
Stddev	.00017	.00000	.00002	.00017	.0007	.0001	.00008
%RSD	.37898	.46004	.85488	5.0884	.5000	.2994	1.1973
#1	.04351	.00094	.00250	.00325	.1318	.0483	.00656
#2	.04362	.00093	.00249	.00360	.1331	.0485	.00656
#3	.04383	.00093	.00246	.00338	.1321	.0485	.00643

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01593	.30649	.02081	.00110	.00252	.00125	.0115
Stddev	.00005	.00135	.00008	.00007	.00007	.00003	.0001
%RSD	.29429	.44030	.39578	6.0708	2.9553	2.4010	1.095
#1	.01588	.30787	.02077	.00102	.00256	.00125	.0115
#2	.01596	.30645	.02090	.00113	.00243	.00122	.0115
#3	.01596	.30517	.02075	.00114	.00256	.00128	.0113

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/22/2015 13:29:39 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00084	.00550	.05882
Stddev	.00002	.00006	.00014
%RSD	2.7787	1.1405	.24221
#1	.00082	.00553	.05881
#2	.00086	.00554	.05869
#3	.00085	.00543	.05897

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27389.	12496.	398600.
Stddev	130.	93.	5725.
%RSD	.47324	.74050	1.4364
#1	27523.	12581.	395760.
#2	27381.	12398.	394850.
#3	27264.	12508.	405190.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/22/2015 13:34:25 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00335	.01032	.00228	1.8733	.04560	1.8927	.0290
Stddev	.00005	.00057	.00009	.0063	.00055	.0074	.0001
%RSD	1.4349	5.5220	3.8934	.33470	1.2115	.39211	.4838
#1	.00331	.00991	.00238	1.8704	.04496	1.8903	.0289
#2	.00334	.01097	.00226	1.8805	.04590	1.9010	.0290
#3	.00340	.01008	.00221	1.8690	.04593	1.8867	.0292

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.17426	.00319	.00647	.01200	.5364	.1951	.02622
Stddev	.00043	.00005	.00007	.00034	.0008	.0005	.00037
%RSD	.24536	1.6673	1.1562	2.8602	.1469	.2711	1.4035
#1	.17387	.00313	.00639	.01196	.5355	.1952	.02580
#2	.17472	.00320	.00647	.01236	.5367	.1956	.02637
#3	.17419	.00324	.00654	.01168	.5369	.1945	.02649

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03125	1.1693	.08572	.00504	.01150	.00529	.0228
Stddev	.00004	.0069	.00004	.00022	.00005	.00005	.0003
%RSD	.12392	.58795	.04639	4.3985	.47026	1.0050	1.378
#1	.03126	1.1656	.08575	.00520	.01155	.00534	.0224
#2	.03121	1.1773	.08568	.00514	.01149	.00530	.0230
#3	.03129	1.1652	.08574	.00479	.01144	.00523	.0229

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-521 Acquired: 11/22/2015 13:34:25 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00420	.02189	.24217
Stddev	.00001	.00025	.00014
%RSD	.28360	1.1609	.05619
#1	.00419	.02160	.24207
#2	.00421	.02202	.24232
#3	.00419	.02206	.24210

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26762.	12486.	387390.
Stddev	77.	122.	4535.
%RSD	.28621	.97412	1.1707
#1	26695.	12626.	392590.
#2	26745.	12430.	384240.
#3	26845.	12403.	385330.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/22/2015 13:39:10 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06041	.40582	.15244	22.715	2.1194	4.6104	1.526
Stddev	.00400	.00214	.00011	.702	.1616	.0161	.001
%RSD	6.6161	.52780	.07507	3.0897	7.6260	.34969	.0348
#1	.05585	.40634	.15239	22.016	1.9501	4.6058	1.526
#2	.06332	.40347	.15258	22.710	2.2721	4.5970	1.527
#3	.06206	.40766	.15236	23.420	2.1358	4.6283	1.526

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.2809	.71532	.62871	.67213	.9891	.4767	1.9859
Stddev	.0047	.04704	.04175	.00333	.0025	.0016	.1448
%RSD	.11084	6.5759	6.6406	.49501	.2506	.3409	7.2904
#1	4.2755	.66177	.58445	.67051	.9880	.4773	1.8239
#2	4.2840	.74995	.66738	.66993	.9874	.4749	2.1027
#3	4.2834	.73425	.63429	.67596	.9920	.4780	2.0310

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30562	2.3429	2.6474	1.3053	.12971	.04798	.2151
Stddev	.00031	.0075	.0019	.0006	.00032	.00013	.0142
%RSD	.10235	.31817	.07216	.04222	.24748	.26181	6.602
#1	.30546	2.3377	2.6458	1.3054	.12944	.04787	.1989
#2	.30598	2.3395	2.6469	1.3058	.12964	.04796	.2254
#3	.30543	2.3514	2.6495	1.3047	.13007	.04812	.2210

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-538 Acquired: 11/22/2015 13:39:10 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04341	.25719	4.9385
Stddev	.00005	.01689	.0047
%RSD	.11661	6.5681	.09580
#1	.04338	.23792	4.9361
#2	.04338	.26946	4.9439
#3	.04346	.26418	4.9354

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25785.	12553.	393960.
Stddev	133.	75.	26258.
%RSD	.51500	.59795	6.6651
#1	25642.	12605.	423650.
#2	25808.	12588.	373790.
#3	25905.	12467.	384440.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/22/2015 13:44:25 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09624	.23747	35.918	3.2585	2.434	7.0644	1.1335
Stddev	.00081	.00091	.387	.0546	.011	.0291	.0137
%RSD	.83876	.38236	1.0778	1.6744	.4313	.41143	1.2059
#1	.09717	.23652	36.242	3.3110	2.423	7.0330	1.1433
#2	.09578	.23757	35.489	3.2624	2.435	7.0698	1.1178
#3	.09576	.23832	36.021	3.2021	2.444	7.0904	1.1392

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0445	3.2057	.48924	4.3698	2.1943	.20868	.07509
Stddev	.0168	.0270	.00200	.0161	.0088	.00074	.00042
%RSD	1.6055	.84160	.40866	.36780	.39905	.35263	.55662
#1	1.0619	3.2351	.48705	4.3520	2.1847	.20792	.07461
#2	1.0285	3.1999	.48967	4.3744	2.1962	.20872	.07531
#3	1.0432	3.1821	.49098	4.3831	2.2019	.20939	.07536

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3411	.07544	.40655	7.8375
Stddev	.0031	.00035	.00349	.0320
%RSD	.8975	.46233	.85773	.40885
#1	.3446	.07512	.41056	7.8012
#2	.3391	.07539	.40429	7.8494
#3	.3394	.07581	.40478	7.8618

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-523 Acquired: 11/22/2015 13:44:25 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25924.	12585.	398860.
Stddev	18.	81.	4052.
%RSD	.06836	.64689	1.0159
#1	25934.	12518.	394230.
#2	25934.	12560.	400600.
#3	25903.	12675.	401750.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/22/2015 13:49:52 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12719	.31877	47.844	4.2928	3.274	9.4613	1.5054
Stddev	.00139	.00072	.260	.0442	.008	.0211	.0140
%RSD	1.0903	.22524	.54303	1.0304	.2335	.22327	.93044
#1	.12637	.31891	48.015	4.2559	3.269	9.4526	1.4911
#2	.12879	.31799	47.972	4.3418	3.269	9.4459	1.5191
#3	.12640	.31940	47.545	4.2807	3.282	9.4854	1.5060

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3576	4.2055	.65470	5.8350	2.9385	.27959	.10094
Stddev	.0403	.0817	.00139	.0093	.0081	.00097	.00038
%RSD	2.9684	1.9417	.21181	.15887	.27522	.34785	.37596
#1	1.3606	4.1454	.65454	5.8346	2.9351	.27937	.10104
#2	1.3963	4.2985	.65340	5.8259	2.9327	.27874	.10052
#3	1.3158	4.1727	.65616	5.8444	2.9478	.28065	.10126

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4489	.10084	.53684	10.373
Stddev	.0049	.00053	.00582	.050
%RSD	1.090	.53038	1.0837	.48151
#1	.4462	.10070	.53319	10.332
#2	.4546	.10039	.54355	10.428
#3	.4460	.10143	.53378	10.359

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-524 Acquired: 11/22/2015 13:49:52 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25458.	12503.	398350.
Stddev	171.	89.	3571.
%RSD	.67179	.71338	.89634
#1	25615.	12518.	400500.
#2	25482.	12585.	394230.
#3	25276.	12408.	400320.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S06 ISM-463 Acquired: 11/22/2015 13:55:25 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2164	13.837	2.0111	2.904	1.423	6.8744
Stddev	.0003	.005	.0015	.006	.002	.0035
%RSD	.02223	.03701	.07417	.1990	.1150	.05142
#1	1.2161	13.837	2.0114	2.908	1.423	6.8726
#2	1.2166	13.832	2.0125	2.907	1.422	6.8785
#3	1.2165	13.843	2.0095	2.898	1.425	6.8722

Int. Std.	Y_3710
Units	Cts/S
Avg	12139.
Stddev	45.
%RSD	.37468
#1	12164.
#2	12165.
#3	12086.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S07 ISM-464 Acquired: 11/22/2015 14:00:07 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3870	26.927	3.8669	2.736
Stddev	.0016	.584	.0079	.005
%RSD	.06889	2.1672	.20422	.1952
#1	2.3880	27.380	3.8588	2.730
#2	2.3851	26.269	3.8675	2.737
#3	2.3879	27.133	3.8745	2.741

Int. Std.	Y_3710
Units	Cts/S
Avg	11918.
Stddev	38.
%RSD	.31982
#1	11887.
#2	11961.
#3	11908.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S08 ISM-465 Acquired: 11/22/2015 14:04:58 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.455	3.4885
Stddev	.004	.0131
%RSD	.2548	.37442
#1	1.454	3.4926
#2	1.452	3.4739
#3	1.459	3.4991

Int. Std.	Y_3710
Units	Cts/S
Avg	12197.
Stddev	110.
%RSD	.90168
#1	12288.
#2	12227.
#3	12075.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S09 ISM-456 Acquired: 11/22/2015 14:09:41 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	8.6059
Stddev	.0614
%RSD	.71369
#1	8.6007
#2	8.5473
#3	8.6698
Int. Std.	Y_3710
Units	Cts/S
Avg	12246.
Stddev	92.
%RSD	.75483
#1	12338.
#2	12247.
#3	12153.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S10 ISM-457 Acquired: 11/22/2015 14:14:28 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2789
Stddev	.0022
%RSD	.7937
#1	.2764
#2	.2805
#3	.2798

Int. Std.	Y_3710
Units	Cts/S
Avg	12572.
Stddev	110.
%RSD	.87363
#1	12551.
#2	12474.
#3	12691.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/22/2015 14:19:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	527.14	2728.6	989.34	515.94	511.83	10697.	475.7
Stddev	3.89	69.2	.75	1.02	5.94	48.	.1
%RSD	.73856	2.5369	.07597	.19809	1.1601	.44518	.0231
#1	530.56	2687.8	988.56	515.21	506.00	10662.	475.7
#2	527.97	2689.5	989.40	515.50	511.62	10678.	475.6
#3	522.90	2808.5	990.06	517.11	517.87	10751.	475.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	479.45	503.43	492.79	5388.0	10670.	6531.	525.30
Stddev	.08	3.78	3.00	39.5	62.	29.	3.44
%RSD	.01721	.75066	.60815	.73364	.5848	.4472	.65416
#1	479.54	506.64	495.42	5353.2	10630.	6560.	528.74
#2	479.42	504.38	493.43	5379.9	10640.	6501.	525.29
#3	479.38	499.26	489.52	5431.0	10740.	6533.	521.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/22/2015 14:19:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04583	11059.	481.73	926.87	968.10	972.57	-.1682
Stddev	.00708	13.	.10	.97	1.45	.53	.1382
%RSD	15.444	.11685	.02130	.10494	.14960	.05464	82.14
#1	-.04209	11044.	481.70	927.14	968.89	973.10	-.0263
#2	-.04142	11062.	481.65	925.80	968.99	972.04	-.3024
#3	-.05400	11070.	481.84	927.69	966.43	972.57	-.1760
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	979.70	511.87	994.75
Stddev	.64	3.31	.11
%RSD	.06505	.64728	.01143
#1	979.28	515.50	994.76
#2	979.37	511.09	994.64
#3	980.43	509.01	994.86
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/22/2015 14:19:20 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27030.	12393.	393250.
Stddev	61.	64.	2504.
%RSD	.22627	.51612	.63666
#1	26967.	12418.	392730.
#2	27089.	12441.	391040.
#3	27035.	12321.	395970.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/22/2015 14:24:11 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17259	11.731	.38488	-.38199	.01618	6.0739	.1791
Stddev	.15785	10.846	1.1781	.43264	.00474	4.8890	.2252
%RSD	91.461	92.454	306.08	113.26	29.319	80.493	125.7
#1	.14775	-.54150	1.5232	-.43901	.01963	5.4576	-.0100
#2	.02863	15.706	.46075	-.78329	.01813	11.242	.1190
#3	.34139	20.028	-.82927	.07633	.01077	1.5222	.4282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05800	.14798	-.27252	-8.1208	72.07	6.374	.04579
Stddev	.09586	.10891	.45886	4.7192	93.84	5.531	.02919
%RSD	165.28	73.601	168.37	58.112	130.2	86.77	63.748
#1	-.05188	.17621	.19768	-9.6419	5.755	5.593	.01331
#2	.10138	.23999	-.29612	-11.892	179.4	12.25	.05422
#3	.12451	.02773	-.71912	-2.8287	31.01	1.276	.06984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/22/2015 14:24:11 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01547	23.262	-.10903	.21701	-.16283	2.0167	-.3048
Stddev	.14276	23.442	.13494	.70703	.95773	.4291	.2245
%RSD	922.79	100.78	123.76	325.81	588.19	21.277	73.65
#1	.09214	17.518	-.22634	-.16130	.93379	2.3641	-.2068
#2	.03888	3.2256	-.13920	-.22038	-.58737	1.5370	-.1460
#3	-.17743	49.042	.03844	1.0327	-.83490	2.1488	-.5616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4030	-.04737	.06413
Stddev	.8459	.09714	.08782
%RSD	60.296	205.07	136.94
#1	1.6062	.06372	.05147
#2	2.1288	-.08947	.15758
#3	.47396	-.11635	-.01667
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/22/2015 14:24:11 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27126.	12203.	393110.
Stddev	116.	139.	1462.
%RSD	.42693	1.1382	.37179
#1	27203.	12357.	393400.
#2	26993.	12086.	391530.
#3	27181.	12167.	394410.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/22/2015 14:28:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43836	258430.	-3.4808	6.9338	.20313	249160.	1.173
Stddev	.15817	365.	1.2196	.3750	.00193	3969.	.134
%RSD	36.082	.14121	35.038	5.4082	.95037	1.5929	11.45
#1	.30111	258210.	-2.3007	6.6695	.20437	250720.	1.279
#2	.40262	258240.	-3.4054	6.7688	.20091	244650.	1.217
#3	.61133	258850.	-4.7363	7.3629	.20412	252120.	1.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30660	57.904	-.07708	102500.	423.8	267800.	17.974
Stddev	.15174	.064	.10731	128.	45.8	404.	.110
%RSD	49.490	.10989	139.21	.12492	10.80	.1509	.61303
#1	-.18951	57.968	-.18590	102440.	375.6	267600.	17.856
#2	-.25227	57.841	.02865	102420.	429.1	267500.	18.074
#3	-.47802	57.902	-.07401	102650.	466.7	268200.	17.992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/22/2015 14:28:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.1331	82.530	2.6239	-.76154	6.0374	.81179	3.319
Stddev	.1989	21.301	.2624	1.4886	1.9825	2.0142	.199
%RSD	9.3238	25.810	9.9999	195.47	32.837	248.12	6.006
#1	1.9440	59.082	2.8871	.30333	5.8721	2.9041	3.451
#2	2.3405	100.69	2.3623	-.12548	8.0974	-1.1140	3.417
#3	2.1148	87.820	2.6222	-2.4625	4.1428	.64534	3.090
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.8023	1.4967	1.1716
Stddev	1.7094	.1603	.0183
%RSD	94.846	10.709	1.5612
#1	-2.8846	1.4536	1.1880
#2	.16836	1.6742	1.1749
#3	-2.6905	1.3624	1.1519
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-519 Acquired: 11/22/2015 14:28:59 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25330.	12213.	363310.
Stddev	46.	94.	1440.
%RSD	.17966	.77277	.39648
#1	25383.	12220.	364970.
#2	25307.	12304.	362570.
#3	25302.	12115.	362390.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/22/2015 14:33:52 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	231.46	274070.	100.70	567.08	562.42	270640.	1048.
Stddev	2.54	1029.	1.56	4.40	8.67	5641.	2.
%RSD	1.0961	.37537	1.5485	.77610	1.5418	2.0843	.1457
#1	229.35	272910.	98.897	563.28	554.70	264430.	1049.
#2	230.77	274420.	101.67	566.06	560.77	272040.	1047.
#3	234.28	274870.	101.52	571.91	571.80	275440.	1050.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	483.07	591.31	518.65	109430.	282.3	286800.	571.40
Stddev	.69	7.04	5.80	503.	67.9	1395.	6.66
%RSD	.14369	1.1903	1.1177	.45958	24.06	.4862	1.1656
#1	482.67	585.94	513.63	108860.	204.1	285300.	565.48
#2	482.67	588.70	517.33	109610.	315.7	287100.	570.12
#3	483.87	599.28	524.99	109820.	326.9	288000.	578.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/22/2015 14:33:52 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9662	87.814	966.22	46.870	612.19	51.014	3.693
Stddev	.1613	7.415	1.02	1.504	1.59	2.759	.288
%RSD	8.2060	8.4435	.10598	3.2099	.25902	5.4089	7.788
#1	1.9384	79.606	965.80	48.502	610.51	49.786	4.020
#2	1.8206	89.807	965.46	45.538	613.66	49.081	3.579
#3	2.1396	94.028	967.38	46.569	612.41	54.174	3.480
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	91.154	535.19	1018.0
Stddev	1.563	6.56	1.7
%RSD	1.7144	1.2258	.17086
#1	92.905	529.45	1018.2
#2	90.661	533.77	1016.2
#3	89.898	542.34	1019.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-522 Acquired: 11/22/2015 14:33:52 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24538.	11710.	357640.
Stddev	77.	129.	4798.
%RSD	.31325	1.1057	1.3416
#1	24572.	11842.	362730.
#2	24591.	11706.	357000.
#3	24450.	11583.	353190.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/22/2015 14:38:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	789.38	52489.	2522.2	10288.	1048.5	52423.	994.5
Stddev	4.75	104.	2.1	106.	8.7	112.	1.4
%RSD	.60112	.19762	.08315	1.0333	.82600	.21352	.1407
#1	786.50	52481.	2522.1	10385.	1038.6	52338.	992.9
#2	794.85	52390.	2524.3	10305.	1052.8	52381.	995.2
#3	786.77	52597.	2520.2	10174.	1054.2	52550.	995.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4855.6	10305.	12330.	26596.	39180.	53420.	5095.0
Stddev	1.6	55.	200.	80.	57.	126.	37.9
%RSD	.03375	.53358	1.6222	.30139	.1454	.2364	.74322
#1	4854.5	10275.	12122.	26510.	39200.	53410.	5091.4
#2	4857.5	10368.	12521.	26607.	39120.	53300.	5059.1
#3	4854.7	10271.	12348.	26669.	39220.	53550.	5134.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/22/2015 14:38:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	993.26	26885.	4837.6	9519.5	2470.6	1257.7	1034.
Stddev	.65	78.	1.2	2.9	2.3	1.6	6.
%RSD	.06530	.28969	.02459	.03062	.09224	.12554	.6097
#1	992.53	26910.	4838.9	9518.6	2468.0	1259.4	1031.
#2	993.75	26797.	4837.5	9517.2	2472.2	1256.3	1041.
#3	993.51	26947.	4836.5	9522.8	2471.7	1257.5	1029.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	933.70	2595.3	5025.6
Stddev	2.47	15.5	1.5
%RSD	.26404	.59690	.03002
#1	930.87	2587.7	5025.0
#2	935.38	2613.1	5027.4
#3	934.86	2585.1	5024.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/22/2015 14:38:50 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25380.	12291.	376770.
Stddev	80.	115.	1722.
%RSD	.31682	.93725	.45705
#1	25471.	12159.	377940.
#2	25318.	12368.	374790.
#3	25353.	12347.	377580.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/22/2015 14:44:03 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.41443	56.953	.32855	-.07828	.01417	-1.0958	.0718
Stddev	.16425	22.691	.85286	.14260	.01276	3.6907	.1074
%RSD	39.632	39.842	259.58	182.17	90.101	336.81	149.5
#1	-.37645	31.315	1.3130	.08614	.02307	-5.2406	.0542
#2	-.59434	74.451	-.18776	-.15275	-.00046	.11835	-.0257
#3	-.27250	65.092	-.13955	-.16823	.01989	1.8349	.1870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21370	.18008	-.06993	-8.0323	118.7	15.82	.12444
Stddev	.01290	.10183	.09687	3.0359	51.7	24.72	.05060
%RSD	6.0378	56.546	138.51	37.796	43.56	156.3	40.660
#1	.20616	.29611	.04105	-9.7979	59.01	43.16	.17620
#2	.22859	.10560	-.13749	-4.5268	148.5	9.277	.07509
#3	.20633	.13852	-.11336	-9.7722	148.7	-4.971	.12204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/22/2015 14:44:03 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2690	-.18736	-.09457	-.44208	.93876	.15109	-.4106
Stddev	.3406	11.568	.25959	.72332	2.3889	2.0968	.2172
%RSD	26.837	6173.9	274.50	163.62	254.47	1387.8	52.90
#1	1.4864	-4.5986	-.17580	.11284	-.08591	2.2821	-.3535
#2	1.4440	-8.9003	.19593	-.17894	3.6690	.08091	-.6507
#3	.87650	12.937	-.30383	-1.2601	-.76686	-1.9097	-.2277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5011	.09223	.15317
Stddev	.4737	.06729	.03009
%RSD	31.557	72.961	19.647
#1	1.7388	.16632	.18171
#2	1.8088	.07544	.15607
#3	.95559	.03492	.12173
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/22/2015 14:44:03 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27765.	12340.	400460.
Stddev	35.	140.	1202.
%RSD	.12465	1.1353	.30003
#1	27790.	12274.	399380.
#2	27726.	12244.	401750.
#3	27780.	12500.	400250.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001(4) Acquired: 11/22/2015 14:48:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05053	25719.	12.299	182.36	.92750	7102.3	1.527
Stddev	.25139	89.	.965	.07	.01978	9.9	.023
%RSD	497.48	.34576	7.8471	.03796	2.1325	.13997	1.522
#1	.33755	25668.	11.283	182.36	.95017	7094.5	1.509
#2	-.05540	25668.	13.204	182.28	.91374	7099.0	1.553
#3	-.13056	25822.	12.411	182.42	.91860	7113.5	1.520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.393	48.865	153.80	69020.	2072.	16200.	760.19
Stddev	.135	.623	.79	233.	90.	87.	5.13
%RSD	.77357	1.2752	.51306	.33793	4.361	.5386	.67473
#1	17.441	49.551	154.71	68955.	2089.	16200.	765.93
#2	17.241	48.334	153.39	68826.	1974.	16120.	758.58
#3	17.496	48.711	153.30	69279.	2152.	16290.	756.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001(4) Acquired: 11/22/2015 14:48:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3975	140.05	47.218	181.46	2.6095	1.6045	64.28
Stddev	.2797	10.00	.394	1.77	1.1540	1.1604	.44
%RSD	20.017	7.1384	.83494	.97642	44.221	72.322	.6850
#1	1.6772	130.51	46.846	183.50	2.5268	2.2319	64.65
#2	1.1177	150.45	47.177	180.50	1.4992	.26547	63.80
#3	1.3975	139.18	47.632	180.38	3.8026	2.3161	64.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6211	34.577	545.55
Stddev	1.8574	.334	.82
%RSD	114.58	.96552	.14969
#1	1.8496	34.907	546.46
#2	-.34000	34.583	544.88
#3	3.3537	34.240	545.31
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001(4) Acquired: 11/22/2015 14:48:50 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27366.	12567.	393350.
Stddev	126.	88.	2512.
%RSD	.45922	.70002	.63856
#1	27245.	12482.	390500.
#2	27356.	12658.	395250.
#3	27496.	12561.	394310.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.76%	100.32%	100.39%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(20) Acquired: 11/22/2015 14:53:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14858	5368.4	3.1086	37.574	.18239	1483.6	.5027
Stddev	.17879	26.4	1.1380	.245	.01731	3.7	.1098
%RSD	120.33	.49193	36.607	.65146	9.4891	.25117	21.85
#1	-.29299	5361.0	1.8789	37.830	.20178	1481.7	.4029
#2	-.20414	5397.7	4.1245	37.552	.17687	1481.3	.4847
#3	.05139	5346.5	3.3223	37.342	.16851	1487.9	.6203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.5800	10.175	32.626	14306.	394.0	3377.	156.43
Stddev	.1566	.344	.910	79.	43.7	43.	2.07
%RSD	4.3734	3.3782	2.7886	.55190	11.08	1.284	1.3258
#1	3.4010	10.570	33.647	14384.	434.8	3340.	157.87
#2	3.6913	10.008	31.899	14226.	399.3	3368.	154.05
#3	3.6477	9.9464	32.333	14307.	347.9	3425.	157.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(20) Acquired: 11/22/2015 14:53:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.40746	24.209	9.6048	37.728	.01410	.88663	14.01
Stddev	.18082	13.768	.5018	1.375	2.0482	.64876	.51
%RSD	44.378	56.870	5.2242	3.6456	14527.	73.171	3.630
#1	.33478	20.299	9.0271	37.677	2.3273	1.5591	14.54
#2	.27429	12.819	9.9315	36.379	-1.5692	.26457	13.52
#3	.61332	39.509	9.8559	39.128	-.71584	.83620	13.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.49831	7.2316	114.86
Stddev	.64466	.0254	2.54
%RSD	129.37	.35080	2.2150
#1	1.2346	7.2538	111.98
#2	.03514	7.2370	115.83
#3	.22524	7.2040	116.78
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001L(20) Acquired: 11/22/2015 14:53:34 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27841.	12724.	402530.
Stddev	388.	37.	4574.
%RSD	1.3948	.29291	1.1364
#1	28282.	12743.	398790.
#2	27690.	12681.	407630.
#3	27551.	12748.	401180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.51%	101.58%	102.74%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU(4) Acquired: 11/22/2015 14:58:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09442	22726.	14.589	78.504	.95138	17732.	1.948
Stddev	.26283	116.	1.075	.413	.00639	40.	.096
%RSD	278.37	.50936	7.3697	.52621	.67129	.22281	4.907
#1	.17097	22599.	13.672	78.075	.95078	17741.	1.964
#2	-.19819	22826.	14.325	78.540	.95805	17688.	1.845
#3	.31046	22753.	15.772	78.898	.94532	17765.	2.034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.775	47.430	113.35	62377.	1928.	20550.	766.04
Stddev	.130	.695	.89	50.	40.	83.	5.77
%RSD	.77459	1.4653	.78848	.08088	2.059	.4055	.75360
#1	16.911	46.684	112.54	62320.	1888.	20610.	760.75
#2	16.653	48.058	114.31	62395.	1967.	20460.	772.20
#3	16.761	47.548	113.19	62416.	1929.	20590.	765.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU(4) Acquired: 11/22/2015 14:58:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1766	128.48	43.048	244.71	2.9109	1.1772	87.90
Stddev	.1661	7.88	.108	1.49	.9223	1.4983	.62
%RSD	14.120	6.1323	.25009	.60774	31.684	127.28	.7040
#1	1.2973	127.95	42.930	243.70	3.8562	-.53365	87.42
#2	1.2454	136.61	43.141	246.42	2.0135	2.2558	88.60
#3	.98712	120.88	43.074	244.01	2.8629	1.8094	87.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.87325	32.026	439.70
Stddev	.05837	.329	.36
%RSD	6.6840	1.0279	.08286
#1	.85302	31.653	440.08
#2	.82768	32.277	439.36
#3	.93904	32.147	439.67
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001DU(4) Acquired: 11/22/2015 14:58:20 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27044.	12500.	391630.
Stddev	96.	110.	5012.
%RSD	.35432	.87848	1.2796
#1	26986.	12378.	396110.
#2	26991.	12589.	386220.
#3	27154.	12535.	392580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.578%	99.788%	99.955%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS(4) Acquired: 11/22/2015 15:03:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.589	27952.	32.896	1123.3	25.616	9341.2	23.67
Stddev	.388	128.	.687	2.4	.091	9.1	.11
%RSD	1.6428	.45783	2.0880	.21050	.35391	.09721	.4478
#1	23.631	27810.	33.688	1120.9	25.619	9337.7	23.58
#2	23.182	27985.	32.470	1125.6	25.705	9351.5	23.79
#3	23.954	28060.	32.529	1123.6	25.524	9334.4	23.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	246.22	163.49	237.28	72224.	2661.	16970.	1294.2
Stddev	.12	.72	1.71	43.	77.	56.	2.9
%RSD	.04974	.44262	.72269	.06000	2.875	.3290	.22267
#1	246.33	162.77	238.40	72271.	2594.	16950.	1293.6
#2	246.24	164.21	238.13	72216.	2644.	16920.	1297.4
#3	246.08	163.50	235.30	72185.	2744.	17030.	1291.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS(4) Acquired: 11/22/2015 15:03:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2242	143.93	273.70	314.16	18.293	44.199	65.66
Stddev	.0566	14.73	.35	1.36	1.625	1.553	.42
%RSD	4.6259	10.233	.12666	.43425	8.8826	3.5132	.6330
#1	1.2511	128.12	274.10	315.73	19.234	43.257	65.23
#2	1.1592	146.39	273.50	313.50	19.227	45.991	66.05
#3	1.2625	157.27	273.50	313.25	16.416	43.349	65.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	25.248	271.43	732.36
Stddev	.999	.66	1.19
%RSD	3.9579	.24233	.16267
#1	25.115	271.51	733.14
#2	26.307	272.05	732.95
#3	24.322	270.74	730.99
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001MS(4) Acquired: 11/22/2015 15:03:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7C9S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27441.	12630.	400790.
Stddev	183.	111.	1004.
%RSD	.66720	.87933	.25061
#1	27233.	12756.	400150.
#2	27512.	12585.	400270.
#3	27578.	12548.	401950.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	100.82%	102.29%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A(4) Acquired: 11/22/2015 15:07:48 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0933	25724.	16.654	284.66	3.5787	9662.9	3.998
Stddev	.1862	800.	1.573	8.78	.0174	290.1	.125
%RSD	3.6549	3.1100	9.4431	3.0835	.48526	3.0024	3.114
#1	4.9649	26534.	15.487	293.58	3.5587	9959.4	3.938
#2	5.3068	25704.	16.032	284.36	3.5890	9649.5	3.915
#3	5.0083	24934.	18.442	276.04	3.5886	9379.6	4.142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.742	53.373	164.94	68139.	4766.	18690.	763.88
Stddev	.083	.406	.57	2080.	137.	570.	4.14
%RSD	.19956	.76059	.34836	3.0531	2.873	3.052	.54222
#1	41.656	53.576	164.42	70314.	4914.	19290.	759.52
#2	41.822	52.905	164.83	67932.	4741.	18630.	764.37
#3	41.747	53.637	165.55	66169.	4644.	18160.	767.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A(4) Acquired: 11/22/2015 15:07:48 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0048	2959.7	66.748	186.69	31.564	19.123	86.54
Stddev	.0549	77.1	.047	1.48	1.139	2.856	1.96
%RSD	5.4656	2.6064	.07055	.79186	3.6090	14.932	2.261
#1	.94754	3036.0	66.713	184.98	30.400	18.206	86.04
#2	1.0099	2961.4	66.730	187.59	31.616	22.325	84.89
#3	1.0570	2881.7	66.802	187.49	32.676	16.840	88.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	13.640	60.427	573.41
Stddev	.291	.533	1.65
%RSD	2.1303	.88167	.28778
#1	13.965	59.827	573.56
#2	13.406	60.613	571.69
#3	13.548	60.843	574.98
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK13013-001A(4) Acquired: 11/22/2015 15:07:48 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7C9A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27183.	12617.	391620.
Stddev	53.	452.	2207.
%RSD	.19501	3.5850	.56364
#1	27192.	12194.	391060.
#2	27126.	12563.	394050.
#3	27231.	13094.	389740.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	100.72%	99.951%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/22/2015 15:12:32 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	758.44	51668.	2457.5	9823.6	1037.2	50948.	970.5
Stddev	4.03	93.	6.1	13.4	16.7	143.	.7
%RSD	.53167	.18006	.24985	.13597	1.6092	.28061	.0722
#1	758.20	51565.	2464.3	9808.6	1053.4	50928.	971.1
#2	762.58	51692.	2456.0	9827.8	1038.2	51100.	970.7
#3	754.53	51746.	2452.2	9834.3	1020.1	50817.	969.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4742.5	9830.9	11978.	25826.	38320.	51760.	4960.9
Stddev	4.5	81.3	55.	33.	121.	177.	80.3
%RSD	.09385	.82744	.46142	.12882	.3160	.3413	1.6185
#1	4747.4	9842.1	12008.	25816.	38450.	51670.	5028.4
#2	4741.3	9906.0	12011.	25864.	38290.	51960.	4982.3
#3	4738.8	9744.5	11914.	25799.	38210.	51640.	4872.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/22/2015 15:12:32 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	968.09	26195.	4709.8	9280.8	2419.6	1227.0	991.3
Stddev	1.13	51.	3.7	9.9	1.5	2.4	7.0
%RSD	.11656	.19660	.07857	.10619	.06376	.19423	.7023
#1	969.24	26230.	4713.9	9291.8	2421.4	1229.7	992.7
#2	968.06	26219.	4708.8	9277.9	2418.6	1226.1	997.4
#3	966.98	26136.	4706.8	9272.8	2418.9	1225.2	983.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	907.16	2503.1	4898.3
Stddev	3.62	17.0	4.0
%RSD	.39860	.67730	.08123
#1	908.59	2506.0	4902.2
#2	909.84	2518.3	4898.3
#3	903.05	2484.8	4894.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-538 Acquired: 11/22/2015 15:12:32 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26131.	12605.	389180.
Stddev	124.	28.	1536.
%RSD	.47274	.21822	.39462
#1	26222.	12582.	389610.
#2	25990.	12597.	387480.
#3	26180.	12635.	390460.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/22/2015 15:17:47 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08597	52.920	.37564	.08291	.02646	-1.5965	.1310
Stddev	.33583	66.775	.40994	.47179	.00551	2.0717	.3038
%RSD	390.66	126.18	109.13	569.04	20.816	129.76	231.8
#1	-.06840	50.443	.07165	-.08679	.03221	-2.7424	-.1094
#2	.24074	-12.581	.84187	-.28056	.02594	.79498	.0300
#3	-.43024	120.90	.21338	.61608	.02123	-2.8421	.4725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02151	.31995	-.35899	-10.104	20.44	20.19	.14963
Stddev	.09277	.17755	.72843	17.962	53.65	10.35	.03366
%RSD	431.21	55.494	202.91	177.77	262.5	51.25	22.494
#1	-.07243	.27586	.20253	-10.766	72.26	26.29	.11098
#2	.02390	.16860	-.09743	8.1800	-34.86	26.05	.16543
#3	.11307	.51539	-1.1821	-27.725	23.91	8.245	.17248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/22/2015 15:17:47 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1547	-14.631	-.02354	-.48759	-.62146	.89403	-.4864
Stddev	.2922	8.928	.19251	2.1027	2.0590	1.0090	.2025
%RSD	25.303	61.020	817.79	431.24	331.31	112.86	41.63
#1	1.4532	-22.174	.16608	-1.7837	-.55833	.36069	-.4934
#2	1.1415	-4.7743	-.01788	-1.6175	1.4052	.26360	-.6853
#3	.86934	-16.944	-.21882	1.9385	-2.7113	2.0578	-.2805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.54082	-.09475	.20199
Stddev	.68744	.39014	.11177
%RSD	127.11	411.77	55.332
#1	-.13545	-.15956	.22428
#2	1.2389	-.44842	.08076
#3	.51900	.32374	.30094
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/22/2015 15:17:47 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27512.	12407.	406180.
Stddev	84.	54.	3559.
%RSD	.30409	.43286	.87613
#1	27602.	12437.	402470.
#2	27499.	12345.	409570.
#3	27436.	12440.	406500.

PDF created with pdfFactory trial version www.pdffactory.com

ICP-AES
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1	Sample ID: S0	EPA Sample ID: S0				Date: 11/21/2015	13:48:17	Dilution:		1
2	Sample ID: S01 ISM-520	EPA Sample ID: S01				Date: 11/21/2015	13:53:04	Dilution:		1
3	Sample ID: S02 ISM-521	EPA Sample ID: S02				Date: 11/21/2015	13:57:49	Dilution:		1
4	Sample ID: S03 ISM-538	EPA Sample ID: S03				Date: 11/21/2015	14:02:35	Dilution:		1
5	Sample ID: S04 ISM-523	EPA Sample ID: S04				Date: 11/21/2015	14:07:48	Dilution:		1
6	Sample ID: S05 ISM-524	EPA Sample ID: S05				Date: 11/21/2015	14:13:14	Dilution:		1
7	Sample ID: S06 ISM-463	EPA Sample ID: S06				Date: 11/21/2015	14:18:46	Dilution:		1
8	Sample ID: S07 ISM-464	EPA Sample ID: S07				Date: 11/21/2015	14:23:30	Dilution:		1
9	Sample ID: S08 ISM-465	EPA Sample ID: S08				Date: 11/21/2015	14:28:19	Dilution:		1
10	Sample ID: S09 ISM-456	EPA Sample ID: S09				Date: 11/21/2015	14:33:01	Dilution:		1
11	Sample ID: S10 ISM-457	EPA Sample ID: S10				Date: 11/21/2015	14:37:48	Dilution:		1
12	Sample ID: ICV1	EPA Sample ID: ICV001				Date: 11/21/2015	14:42:40	Dilution:		1
13	Sample ID: ICB1	EPA Sample ID: ICB001				Date: 11/21/2015	14:47:31	Dilution:		1
14	Sample ID: ICS-A1	EPA Sample ID: ICSA001				Date: 11/21/2015	14:52:18	Dilution:		1
15	Sample ID: ICS-AB1	EPA Sample ID: ICSAB001				Date: 11/21/2015	14:57:09	Dilution:		1
16	Sample ID: CCV1	EPA Sample ID: CCV001				Date: 11/21/2015	15:02:07	Dilution:		1
17	Sample ID: CCB1	EPA Sample ID: CCB001				Date: 11/21/2015	15:07:21	Dilution:		1
18	Sample ID: QQ89995-001	EPA Sample ID: QQ89995-001				Date: 11/21/2015	15:12:08	Dilution:		1
19	Sample ID: QQ89995-002	EPA Sample ID: QQ89995-002				Date: 11/21/2015	15:16:55	Dilution:		1
20	Sample ID: QK12004-010	EPA Sample ID: MBC7G3				Date: 11/21/2015	15:21:40	Dilution:		1
21	Sample ID: QK12004-010L	EPA Sample ID: MBC7G3L				Date: 11/21/2015	15:26:26	Dilution:		5
22	Sample ID: QK12004-010DU	EPA Sample ID: MBC7G3D				Date: 11/21/2015	15:31:12	Dilution:		1
23	Sample ID: QK12004-010MS	EPA Sample ID: MBC7G3S				Date: 11/21/2015	15:35:57	Dilution:		1
24	Sample ID: QK12004-010A	EPA Sample ID: MBC7G3A				Date: 11/21/2015	15:40:44	Dilution:		1
25	Sample ID: QK12004-011	EPA Sample ID: MBC7G4				Date: 11/21/2015	15:45:31	Dilution:		1
26	Sample ID: QK12004-012	EPA Sample ID: MBC7G5				Date: 11/21/2015	15:50:18	Dilution:		1
27	Sample ID: QK12004-013	EPA Sample ID: MBC7G6				Date: 11/21/2015	15:55:04	Dilution:		1
28	Sample ID: QK12004-014	EPA Sample ID: MBC764				Date: 11/21/2015	15:59:52	Dilution:		1
29	Sample ID: QK04017-001	EPA Sample ID: MX2171				Date: 11/21/2015	16:04:39	Dilution:		1
30	Sample ID: QK04017-001L	EPA Sample ID: MX2171L				Date: 11/21/2015	16:09:30	Dilution:		5
31	Sample ID: QK04017-001DU	EPA Sample ID: MX2171D				Date: 11/21/2015	16:14:13	Dilution:		1
32	Sample ID: QK04017-001MS	EPA Sample ID: MX2171S				Date: 11/21/2015	16:19:05	Dilution:		1
Ag3280	RECOVERY IS OUT OF CRITERIA			126.7900	1500	50.0	40.0	2.00	1.60	10.00
33	Sample ID: QK04017-001A	EPA Sample ID: MX2171A				Date: 11/21/2015	16:23:56	Dilution:		1
34	Sample ID: QK13012-001	EPA Sample ID: MBC763				Date: 11/21/2015	16:28:46	Dilution:		1
35	Sample ID: QK13012-001L	EPA Sample ID: MBC763L				Date: 11/21/2015	16:33:33	Dilution:		5
36	Sample ID: QK13012-001DU	EPA Sample ID: MBC763D				Date: 11/21/2015	16:38:22	Dilution:		1
37	Sample ID: QK13012-001MS	EPA Sample ID: MBC763S				Date: 11/21/2015	16:43:08	Dilution:		1
38	Sample ID: QK13012-001A	EPA Sample ID: MBC763A				Date: 11/21/2015	16:47:56	Dilution:		1
39	Sample ID: CCV2	EPA Sample ID: CCV002				Date: 11/21/2015	16:52:43	Dilution:		1
40	Sample ID: CCB2	EPA Sample ID: CCB002				Date: 11/21/2015	16:57:57	Dilution:		1
41	Sample ID: QQ89825-001	EPA Sample ID: QQ89825-001				Date: 11/21/2015	17:02:46	Dilution:		1

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
42 Sample ID:	**QQ89825-002**	**EPA Sample ID:**	**QQ89825-002**		**Date:**	**11/21/2015**	**17:07:33**	**Dilution:**	**1**
43 Sample ID:	**QK13012-002**	**EPA Sample ID:**	**MBC794**		**Date:**	**11/21/2015**	**17:12:19**	**Dilution:**	**1**
Cd2288			0.1516	2000			196.00	0.04	0.50
Cu3273			109.1500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		181030.0000	150000			0.00	2.60	10.00
44 Sample ID:	**QK13012-003**	**EPA Sample ID:**	**MBC795**		**Date:**	**11/21/2015**	**17:17:03**	**Dilution:**	**1**
Cd2288			1.2080	2000			22.00	0.04	0.50
Cu3273			137.3300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		236210.0000	150000			0.00	2.60	10.00
45 Sample ID:	**QK13012-004**	**EPA Sample ID:**	**MBC796**		**Date:**	**11/21/2015**	**17:21:56**	**Dilution:**	**1**
46 Sample ID:	**QK13012-005**	**EPA Sample ID:**	**MBC797**		**Date:**	**11/21/2015**	**17:26:40**	**Dilution:**	**1**
47 Sample ID:	**QK13012-006**	**EPA Sample ID:**	**MBC798**		**Date:**	**11/21/2015**	**17:31:24**	**Dilution:**	**1**
48 Sample ID:	**QK13012-006L**	**EPA Sample ID:**	**MBC798L**		**Date:**	**11/21/2015**	**17:36:09**	**Dilution:**	**5**
49 Sample ID:	**QK13012-006DU**	**EPA Sample ID:**	**MBC798D**		**Date:**	**11/21/2015**	**17:40:54**	**Dilution:**	**1**
50 Sample ID:	**QK13012-006MS**	**EPA Sample ID:**	**MBC798S**		**Date:**	**11/21/2015**	**17:45:36**	**Dilution:**	**1**
51 Sample ID:	**QK13012-006A**	**EPA Sample ID:**	**MBC798A**		**Date:**	**11/21/2015**	**17:50:27**	**Dilution:**	**1**
52 Sample ID:	**QK13012-007**	**EPA Sample ID:**	**MBC799**		**Date:**	**11/21/2015**	**17:55:11**	**Dilution:**	**1**
53 Sample ID:	**QK13012-008**	**EPA Sample ID:**	**MBC7A0**		**Date:**	**11/21/2015**	**17:59:57**	**Dilution:**	**1**
54 Sample ID:	**QK13012-009**	**EPA Sample ID:**	**MBC7A1**		**Date:**	**11/21/2015**	**18:04:42**	**Dilution:**	**1**
55 Sample ID:	**QK13012-010**	**EPA Sample ID:**	**MBC7A2**		**Date:**	**11/21/2015**	**18:09:25**	**Dilution:**	**1**
56 Sample ID:	**QK13012-011**	**EPA Sample ID:**	**MBC7A3**		**Date:**	**11/21/2015**	**18:14:11**	**Dilution:**	**1**
57 Sample ID:	**QK13012-012**	**EPA Sample ID:**	**MBC7A4**		**Date:**	**11/21/2015**	**18:19:04**	**Dilution:**	**1**
58 Sample ID:	**QK13012-013**	**EPA Sample ID:**	**MBC7H9**		**Date:**	**11/21/2015**	**18:23:57**	**Dilution:**	**1**
Cd2288			0.3593	2000			27.00	0.04	0.50
Cu3273			110.5800	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		204550.0000	150000			0.00	2.60	10.00
59 Sample ID:	**QK13012-014**	**EPA Sample ID:**	**MBC7A5**		**Date:**	**11/21/2015**	**18:28:50**	**Dilution:**	**1**
Cd2288			2.7650	2000			2.00	0.04	0.50
Cu3273			197.0900	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		219120.0000	150000			0.00	2.60	10.00
60 Sample ID:	**QK13012-015**	**EPA Sample ID:**	**MBC7A6**		**Date:**	**11/21/2015**	**18:33:42**	**Dilution:**	**1**
Cd2288			2.0810	2000			7.00	0.04	0.50
Cu3273			164.5400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		294250.0000	150000			0.00	2.60	10.00
61 Sample ID:	**CCV3**	**EPA Sample ID:**	**CCV003**		**Date:**	**11/21/2015**	**18:38:34**	**Dilution:**	**1**
62 Sample ID:	**CCB3**	**EPA Sample ID:**	**CCB003**		**Date:**	**11/21/2015**	**18:43:49**	**Dilution:**	**1**
63 Sample ID:	**QK13012-016**	**EPA Sample ID:**	**MBC7A7**		**Date:**	**11/21/2015**	**18:48:37**	**Dilution:**	**1**
Cd2288			1.7750	2000			2.00	0.04	0.50
Cu3273			309.8300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		346570.0000	150000			0.00	2.60	10.00
64 Sample ID:	**QK13012-017**	**EPA Sample ID:**	**MBC7A8**		**Date:**	**11/21/2015**	**18:53:29**	**Dilution:**	**1**
Ca2179	PARAMETER IS OVER RANGE		437350.0000	300000			1.00	6.90	500.00
Cd2288			1.8240	2000			3.00	0.04	0.50
Cu3273			403.6300	25000			4.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		307060.0000	150000			0.00	2.60	10.00

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
65 Sample ID:	**QK13012-018** **EPA Sample ID:**	**MBC7A9**		**Date:**	**11/21/2015**	**18:58:28**	**Dilution:**	**1**
Cd2288		3.3080	2000			5.00	0.04	0.50
Cu3273		369.2400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	322230.0000	150000			0.00	2.60	10.00
Ni2316		245.7600	10000			0.00	0.21	4.00
66 Sample ID:	**QK13012-019** **EPA Sample ID:**	**MBC7B0**		**Date:**	**11/21/2015**	**19:03:24**	**Dilution:**	**1**
Cd2288		1.3840	2000			8.00	0.04	0.50
Cu3273		209.2700	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	203090.0000	150000			0.00	2.60	10.00
67 Sample ID:	**QK13012-020** **EPA Sample ID:**	**MBC7D0**		**Date:**	**11/21/2015**	**19:08:17**	**Dilution:**	**1**
Cd2288		14.3600	2000			0.00	0.04	0.50
Cu3273		445.5500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	238930.0000	150000			0.00	2.60	10.00
Sb2068		13.8620	5000			8.00	0.35	6.00
68 Sample ID:	**QK04017-005** **EPA Sample ID:**	**MX2175**		**Date:**	**11/21/2015**	**19:13:09**	**Dilution:**	**1**
69 Sample ID:	**QK04017-005L** **EPA Sample ID:**	**MX2175L**		**Date:**	**11/21/2015**	**19:17:54**	**Dilution:**	**5**
70 Sample ID:	**QK04017-005DU** **EPA Sample ID:**	**MX2175D**		**Date:**	**11/21/2015**	**19:22:40**	**Dilution:**	**1**
71 Sample ID:	**QK04017-005MS** **EPA Sample ID:**	**MX2175S**		**Date:**	**11/21/2015**	**19:27:25**	**Dilution:**	**1**
Ag3280	RECOVERY IS OUT OF CRITERIA	247.3000	1500	50.0	194.0	1.00	1.60	10.00
As1890	RECOVERY IS OUT OF CRITERIA	178.6800	5000	40.0	183.0	0.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA	7041.2998	20000	2000.0	201.0	0.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA	104.0000	2000	50.0	207.0	1.00	0.05	5.00
Cd2288	RECOVERY IS OUT OF CRITERIA	89.3600	2000	50.0	179.0	0.00	0.60	5.00
Co2286	RECOVERY IS OUT OF CRITERIA	1337.5000	10000	500.0	175.0	0.00	0.25	50.00
Cr2677	RECOVERY IS OUT OF CRITERIA	531.4300	20000	200.0	191.0	1.00	1.80	10.00
Cu3273	RECOVERY IS OUT OF CRITERIA	627.8800	25000	250.0	185.0	1.00	5.00	25.00
Mn2576	RECOVERY IS OUT OF CRITERIA	1288.0000	10000	500.0	196.0	1.00	0.43	15.00
Ni2316	RECOVERY IS OUT OF CRITERIA	906.2200	10000	500.0	179.0	0.00	1.10	40.00
Se1960	RECOVERY IS OUT OF CRITERIA	418.7800	2500	100.0	185.0	0.00	5.50	35.00
Tl1908	RECOVERY IS OUT OF CRITERIA	89.4830	2000	50.0	179.0	2.00	3.80	25.00
V_2924	RECOVERY IS OUT OF CRITERIA	1753.0000	5000	500.0	195.0	1.00	1.10	50.00
Zn2062	RECOVERY IS OUT OF CRITERIA	1337.5000	10000	500.0	185.0	0.00	6.60	60.00
72 Sample ID:	**QK04017-005A** **EPA Sample ID:**	**MX2175DA**		**Date:**	**11/21/2015**	**19:32:08**	**Dilution:**	**1**
73 Sample ID:	**QQ89826-001** **EPA Sample ID:**	**PBS**		**Date:**	**11/21/2015**	**19:36:50**	**Dilution:**	**1**
74 Sample ID:	**QQ89826-002** **EPA Sample ID:**	**LCS**		**Date:**	**11/21/2015**	**19:41:39**	**Dilution:**	**1**
75 Sample ID:	**QK13013-001** **EPA Sample ID:**	**MBC7C9**		**Date:**	**11/21/2015**	**19:46:27**	**Dilution:**	**1**
Cd2288		5.9800	2000			1.00	0.04	0.50
Cu3273		602.5400	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	262870.0000	150000			0.00	2.60	10.00
Ni2316		194.0300	10000			0.00	0.21	4.00
Pb2203		716.1100	20000			0.00	0.28	1.00
76 Sample ID:	**QK13013-001L** **EPA Sample ID:**	**MBC7C9L**		**Date:**	**11/21/2015**	**19:51:20**	**Dilution:**	**5**

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
77 Sample ID:	**QK13013-001DU** **EPA Sample ID:**	**MBC7C9D**		**Date:**	**11/21/2015**	**19:56:06**	**Dilution:**	**1**
Al3082	RPD IS OUT OF CRITERIA	89128.0000	300000		25.0	0.00	7.60	20.00
Ba4554	RPD IS OUT OF CRITERIA	317.6300	20000		89.0	0.00	0.20	20.00
Ca2179	RPD IS OUT OF CRITERIA	70239.0000	300000		75.0	0.00	6.90	500.00
Cd2288		6.9910	2000		0.0	3.00	0.04	0.50
Cu3273		444.8100	25000		0.0	0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	237170.0000	150000		0.0	0.00	2.60	10.00
Ni2316		172.0200	10000		0.0	0.00	0.21	4.00
Pb2203		932.7900	20000		0.0	0.00	0.28	1.00
Zn2062	RPD IS OUT OF CRITERIA	1716.5000	10000		36.0	0.00	0.26	6.00
78 Sample ID:	**QK13013-001MS** **EPA Sample ID:**	**MBC7C9S**		**Date:**	**11/21/2015**	**20:00:59**	**Dilution:**	**1**
Cd2288		94.3200	2000	100.0		0.00	0.04	0.50
Cu3273		958.0000	25000	500.0		1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	273710.0000	150000			0.00	2.60	10.00
Mn2576	RECOVERY IS OUT OF CRITERIA	4959.2002	10000	1000.0	168.0	1.00	0.09	1.50
Ni2316		1073.2000	10000	1000.0		0.00	0.21	4.00
Pb2203		1197.6000	20000	40.0		0.00	0.28	1.00
Sb2068		77.5300	5000	200.0		1.00	0.35	6.00
Zn2062	RECOVERY IS OUT OF CRITERIA	2847.3999	10000	1000.0	37.0	0.00	0.26	6.00
79 Sample ID:	**QK13013-001A** **EPA Sample ID:**	**MBC7C9A**		**Date:**	**11/21/2015**	**20:05:50**	**Dilution:**	**1**
80 Sample ID:	**QK13013-002** **EPA Sample ID:**	**MBC7D1**		**Date:**	**11/21/2015**	**20:10:42**	**Dilution:**	**1**
Cd2288		10.9900	2000			1.00	0.04	0.50
Cu3273		510.6100	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	242480.0000	150000			0.00	2.60	10.00
Ni2316		207.4000	10000			0.00	0.21	4.00
Pb2203		952.3600	20000			0.00	0.28	1.00
81 Sample ID:	**QK13013-003** **EPA Sample ID:**	**MBC7B1**		**Date:**	**11/21/2015**	**20:15:34**	**Dilution:**	**1**
As1890		47.2590	5000			1.00	0.39	1.00
Cd2288		0.8059	2000			16.00	0.04	0.50
Cr2677		152.0300	20000			4.00	0.01	1.00
Cu3273		234.9100	25000			4.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	270500.0000	150000			0.00	2.60	10.00
Mn2576	PARAMETER IS OVER RANGE	11410.0000	10000			1.00	0.09	1.50
Ni2316		223.7600	10000			0.00	0.21	4.00
Pb2203		153.9200	20000			1.00	0.28	1.00
82 Sample ID:	**QK13013-004** **EPA Sample ID:**	**MBC7B2**		**Date:**	**11/21/2015**	**20:20:26**	**Dilution:**	**1**
Cd2288		0.4344	2000			40.00	0.04	0.50
Cu3273		253.5800	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	296610.0000	150000			0.00	2.60	10.00
Ni2316		232.3900	10000			0.00	0.21	4.00
Pb2203		140.9200	20000			1.00	0.28	1.00
83 Sample ID:	**CCV4** **EPA Sample ID:**	**CCV004**		**Date:**	**11/21/2015**	**20:25:21**	**Dilution:**	**1**
84 Sample ID:	**CCB4** **EPA Sample ID:**	**CCB004**		**Date:**	**11/21/2015**	**20:30:36**	**Dilution:**	**1**
85 Sample ID:	**QK13013-005** **EPA Sample ID:**	**MBC7B3**		**Date:**	**11/21/2015**	**20:35:25**	**Dilution:**	**1**
Cd2288		0.5695	2000			11.00	0.04	0.50
Cu3273		263.4300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	302260.0000	150000			0.00	2.60	10.00
Ni2316		242.2300	10000			0.00	0.21	4.00
Pb2203		196.9400	20000			0.00	0.28	1.00

Analytical Review Report

Data File: I5112115A ISM

Analyst: NCM

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
86 Sample ID:	**QK13013-006** **EPA Sample ID:**	**MBC7B4**		**Date:**	**11/21/2015**	**20:40:15**	**Dilution:**	**1**
Cd2288		6.1290	2000			1.00	0.04	0.50
Cu3273		2206.1001	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	353650.0000	150000			1.00	2.60	10.00
Ni2316		216.3000	10000			0.00	0.21	4.00
Pb2203		769.3600	20000			0.00	0.28	1.00
87 Sample ID:	**QK13013-007** **EPA Sample ID:**	**MBC7B6**		**Date:**	**11/21/2015**	**20:45:06**	**Dilution:**	**1**
Cd2288		13.4200	2000			1.00	0.04	0.50
Cu3273		848.4200	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	303610.0000	150000			0.00	2.60	10.00
Ni2316		247.5600	10000			2.00	0.21	4.00
Pb2203		1378.3000	20000			2.00	0.28	1.00
88 Sample ID:	**QK13013-008** **EPA Sample ID:**	**MBC7H8**		**Date:**	**11/21/2015**	**20:49:57**	**Dilution:**	**1**
Cd2288		0.4781	2000			16.00	0.04	0.50
Cu3273		214.9800	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	266220.0000	150000			0.00	2.60	10.00
Ni2316		215.2100	10000			0.00	0.21	4.00
Pb2203		138.2100	20000			0.00	0.28	1.00
89 Sample ID:	**QK11054-001** **EPA Sample ID:**	**ME6BF3**		**Date:**	**11/21/2015**	**20:54:49**	**Dilution:**	**1**
Ca2179	PARAMETER IS OVER RANGE	362870.0000	300000			1.00	6.90	500.00
Cd2288		17.7400	2000			1.00	0.04	0.50
Cu3273		315.4400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	205430.0000	150000			1.00	2.60	10.00
Ni2316		248.8700	10000			0.00	0.21	4.00
Pb2203		581.8600	20000			0.00	0.28	1.00
90 Sample ID:	**QK11054-001L** **EPA Sample ID:**	**ME6BF3L**		**Date:**	**11/21/2015**	**20:59:51**	**Dilution:**	**5**
91 Sample ID:	**QK11054-001DU** **EPA Sample ID:**	**ME6BF3D**		**Date:**	**11/21/2015**	**21:04:37**	**Dilution:**	**1**
Cd2288		14.9600	2000		0.0	1.00	0.04	0.50
Cu3273		319.0600	25000		0.0	1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	172560.0000	150000		0.0	0.00	2.60	10.00
Ni2316		202.6600	10000		0.0	0.00	0.21	4.00
Pb2203		433.7500	20000		0.0	0.00	0.28	1.00
92 Sample ID:	**QK11054-001MS** **EPA Sample ID:**	**ME6BF3S**		**Date:**	**11/21/2015**	**21:09:39**	**Dilution:**	**1**
Ag3280	RECOVERY IS OUT OF CRITERIA	71.1810	1500	100.0	64.0	1.00	0.19	1.00
As1890	RECOVERY IS OUT OF CRITERIA	90.6740	5000	80.0	66.0	2.00	0.39	1.00
Ba4554	RECOVERY IS OUT OF CRITERIA	3138.6001	20000	4000.0	67.0	0.00	0.20	20.00
Be3130	RECOVERY IS OUT OF CRITERIA	72.2990	2000	100.0	70.0	1.00	0.01	0.50
Ca2179	PARAMETER IS OVER RANGE	367830.0000	300000			2.00	6.90	500.00
Cd2288		75.0400	2000	100.0		0.00	0.04	0.50
Co2286	RECOVERY IS OUT OF CRITERIA	621.4200	10000	1000.0	59.0	0.00	0.07	5.00
Cr2677	RECOVERY IS OUT OF CRITERIA	643.2700	20000	400.0	36.0	1.00	0.12	1.00
Cu3273		687.4200	25000	500.0		1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	197060.0000	150000			0.00	2.60	10.00
Mn2576	RECOVERY IS OUT OF CRITERIA	4107.2998	10000	1000.0	65.0	1.00	0.09	1.50
Ni2316		806.2600	10000	1000.0		0.00	0.21	4.00
Pb2203		472.6700	20000	40.0		0.00	0.28	1.00
Se1960	RECOVERY IS OUT OF CRITERIA	126.8100	2500	200.0	59.0	1.00	0.62	3.50
Tl1908	RECOVERY IS OUT OF CRITERIA	60.2230	2000	100.0	55.0	2.00	0.36	2.50
V_2924	RECOVERY IS OUT OF CRITERIA	759.7100	5000	1000.0	64.0	1.00	0.13	5.00
Zn2062	RECOVERY IS OUT OF CRITERIA	2475.8000	10000	1000.0	16.0	0.00	0.26	6.00
93 Sample ID:	**QK11054-001A** **EPA Sample ID:**	**ME6BF3A**		**Date:**	**11/21/2015**	**21:14:39**	**Dilution:**	**1**
94 Sample ID:	**QK11054-002** **EPA Sample ID:**	**ME6BF4**		**Date:**	**11/21/2015**	**21:19:40**	**Dilution:**	**1**

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
95	**Sample ID: QK11054-003 EPA Sample ID: ME6BF5**			**Date: 11/21/2015**		**21:24:42**	**Dilution:**	**1**
Ca2179	PARAMETER IS OVER RANGE	343150.0000	300000			3.00	6.90	500.00
Cd2288		4.5500	2000			3.00	0.04	0.50
Cu3273		320.6600	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	579220.0000	150000			2.00	2.60	10.00
Ni2316		355.7000	10000			0.00	0.21	4.00
Pb2203		294.5200	20000			1.00	0.28	1.00
96	**Sample ID: QK13012-002 EPA Sample ID: MBC794**			**Date: 11/21/2015**		**21:29:49**	**Dilution:**	**2**
97	**Sample ID: QK13012-003 EPA Sample ID: MBC795**			**Date: 11/21/2015**		**21:34:34**	**Dilution:**	**2**
98	**Sample ID: QK13012-013 EPA Sample ID: MBC7H9**			**Date: 11/21/2015**		**21:39:20**	**Dilution:**	**2**
99	**Sample ID: QK13012-014 EPA Sample ID: MBC7A5**			**Date: 11/21/2015**		**21:44:05**	**Dilution:**	**2**
100	**Sample ID: QK13012-015 EPA Sample ID: MBC7A6**			**Date: 11/21/2015**		**21:48:51**	**Dilution:**	**5**
101	**Sample ID: QK13012-016 EPA Sample ID: MBC7A7**			**Date: 11/21/2015**		**21:53:37**	**Dilution:**	**5**
102	**Sample ID: QK13012-017 EPA Sample ID: MBC7A8**			**Date: 11/21/2015**		**21:58:22**	**Dilution:**	**5**
103	**Sample ID: QK13012-018 EPA Sample ID: MBC7A9**			**Date: 11/21/2015**		**22:03:08**	**Dilution:**	**5**
104	**Sample ID: QK13012-019 EPA Sample ID: MBC7B0**			**Date: 11/21/2015**		**22:07:55**	**Dilution:**	**2**
105	**Sample ID: QK13012-020 EPA Sample ID: MBC7D0**			**Date: 11/21/2015**		**22:12:42**	**Dilution:**	**2**
106	**Sample ID: CCV5 EPA Sample ID: CCV005**			**Date: 11/21/2015**		**22:17:29**	**Dilution:**	**1**
107	**Sample ID: CCB5 EPA Sample ID: CCB005**			**Date: 11/21/2015**		**22:22:46**	**Dilution:**	**1**
108	**Sample ID: QK13013-001 EPA Sample ID: MBC7C9**			**Date: 11/21/2015**		**22:27:35**	**Dilution:**	**2**
Cd2288		2.7910	2000			5.00	0.04	0.50
Cu3273		356.8400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	151760.0000	150000			0.00	2.60	10.00
Ni2316		97.0310	10000			4.00	0.21	4.00
Pb2203		349.0700	20000			4.00	0.28	1.00
109	**Sample ID: QK13013-001L EPA Sample ID: MBC7C9L**			**Date: 11/21/2015**		**22:32:20**	**Dilution:**	**10**
Al3082	RPD IS OUT OF CRITERIA	10639.0000	300000		11.0	0.00	95.20	200.00
Be3130	RPD IS OUT OF CRITERIA	0.3554	2000		16.0	3.00	0.05	5.00
Ca2179	RPD IS OUT OF CRITERIA	2896.8000	300000		12.0	0.00	503.00	5000.00
Fe2611	RPD IS OUT OF CRITERIA	26809.0000	150000		12.0	0.00	18.80	100.00
K_7664	RPD IS OUT OF CRITERIA	882.3000	112500		13.0	6.00	90.50	5000.00
Mg2790	RPD IS OUT OF CRITERIA	6244.0000	300000		11.0	1.00	50.90	5000.00
110	**Sample ID: QK13013-001DU EPA Sample ID: MBC7C9D**			**Date: 11/21/2015**		**22:37:09**	**Dilution:**	**2**
Al3082	RPD IS OUT OF CRITERIA	53431.0000	300000		24.0	1.00	7.60	20.00
Ba4554	RPD IS OUT OF CRITERIA	193.9500	20000		88.0	1.00	0.20	20.00
Ca2179	RPD IS OUT OF CRITERIA	41579.0000	300000		76.0	1.00	6.90	500.00
Cu3273	RPD IS OUT OF CRITERIA	255.6000	25000		45.0	5.00	0.24	2.50
Fe2611	RPD IS OUT OF CRITERIA	139720.0000	150000		21.0	1.00	2.60	10.00
Zn2062	RPD IS OUT OF CRITERIA	857.2900	10000		35.0	2.00	0.26	6.00
111	**Sample ID: QK13013-001MS EPA Sample ID: MBC7C9S**			**Date: 11/21/2015**		**22:41:55**	**Dilution:**	**2**
Cu3273	RECOVERY IS OUT OF CRITERIA	481.1500	25000	500.0	30.0	1.00	0.24	2.50
Sb2068	RECOVERY IS OUT OF CRITERIA	38.4290	5000	200.0	34.0	5.00	0.35	6.00
Zn2062	RECOVERY IS OUT OF CRITERIA	1420.0000	10000	1000.0	39.0	0.00	0.26	6.00
112	**Sample ID: QK13013-001A EPA Sample ID: MBC7C9A**			**Date: 11/21/2015**		**22:46:49**	**Dilution:**	**2**
113	**Sample ID: QK13013-002 EPA Sample ID: MBC7D1**			**Date: 11/21/2015**		**22:51:35**	**Dilution:**	**2**
114	**Sample ID: QK13013-003 EPA Sample ID: MBC7B1**			**Date: 11/21/2015**		**22:56:24**	**Dilution:**	**2**
115	**Sample ID: QK13013-004 EPA Sample ID: MBC7B2**			**Date: 11/21/2015**		**23:01:18**	**Dilution:**	**5**
116	**Sample ID: QK13013-005 EPA Sample ID: MBC7B3**			**Date: 11/21/2015**		**23:06:06**	**Dilution:**	**5**

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
117· Sample ID:	**QK13013-006**	**EPA Sample ID:**	**MBC7B4**		**Date:**	**11/21/2015**	**23:10:52**	**Dilution:**	**5**
118· Sample ID:	**QK13013-007**	**EPA Sample ID:**	**MBC7B6**		**Date:**	**11/21/2015**	**23:15:38**	**Dilution:**	**5**
119· Sample ID:	**QK13013-008**	**EPA Sample ID:**	**MBC7H8**		**Date:**	**11/21/2015**	**23:20:25**	**Dilution:**	**2**
120· Sample ID:	**QK11054-001**	**EPA Sample ID:**	**ME6BF3**		**Date:**	**11/21/2015**	**23:25:19**	**Dilution:**	**2**
121· Sample ID:	**QK11054-001L**	**EPA Sample ID:**	**ME6BF3L**		**Date:**	**11/21/2015**	**23:30:03**	**Dilution:**	**10**
122· Sample ID:	**QK11054-001DU**	**EPA Sample ID:**	**ME6BF3D**		**Date:**	**11/21/2015**	**23:34:51**	**Dilution:**	**2**
123· Sample ID:	**QK11054-001MS**	**EPA Sample ID:**	**ME6BF3S**		**Date:**	**11/21/2015**	**23:39:38**	**Dilution:**	**2**
Ag3280	RECOVERY IS OUT OF CRITERIA		34.0700	1500	100.0	61.0	1.00	0.19	1.00
As1890	RECOVERY IS OUT OF CRITERIA		44.9200	5000	80.0	67.0	2.00	0.39	1.00
Ba4554	RECOVERY IS OUT OF CRITERIA		1557.6000	20000	4000.0	67.0	1.00	0.20	20.00
Be3130	RECOVERY IS OUT OF CRITERIA		34.7380	2000	100.0	67.0	1.00	0.01	0.50
Cd2288	RECOVERY IS OUT OF CRITERIA		36.8300	2000	100.0	56.0	0.00	0.04	0.50
Co2286	RECOVERY IS OUT OF CRITERIA		310.8800	10000	1000.0	59.0	0.00	0.07	5.00
Cr2677	RECOVERY IS OUT OF CRITERIA		316.5000	20000	400.0	36.0	1.00	0.12	1.00
Cu3273	RECOVERY IS OUT OF CRITERIA		337.4400	25000	500.0	70.0	1.00	0.24	2.50
Mn2576	RECOVERY IS OUT OF CRITERIA		2028.0000	10000	1000.0	58.0	1.00	0.09	1.50
Ni2316	RECOVERY IS OUT OF CRITERIA		406.1300	10000	1000.0	56.0	0.00	0.21	4.00
Sb2068	RECOVERY IS OUT OF CRITERIA		17.5360	5000	200.0	18.0	10.00	0.35	6.00
Se1960	RECOVERY IS OUT OF CRITERIA		64.3810	2500	200.0	64.0	4.00	0.62	3.50
Tl1908	RECOVERY IS OUT OF CRITERIA		30.7490	2000	100.0	62.0	4.00	0.36	2.50
V_2924	RECOVERY IS OUT OF CRITERIA		371.3600	5000	1000.0	63.0	1.00	0.13	5.00
Zn2062	RECOVERY IS OUT OF CRITERIA		1235.7000	10000	1000.0	18.0	0.00	0.26	6.00
124· Sample ID:	**QK11054-001A**	**EPA Sample ID:**	**ME6BF3A**		**Date:**	**11/21/2015**	**23:44:32**	**Dilution:**	**2**
125· Sample ID:	**QK11054-003**	**EPA Sample ID:**	**ME6BF5**		**Date:**	**11/21/2015**	**23:49:19**	**Dilution:**	**5**
126· Sample ID:	**CCV6**	**EPA Sample ID:**	**CCV ISM-538**		**Date:**	**11/21/2015**	**23:54:04**	**Dilution:**	**1**
K_7664	RECOVERY IS OUT OF CRITERIA		42900.0000	112500	37500.0	114.0	2.00	90.50	5000.00
Na5895	RECOVERY IS OUT OF CRITERIA		28313.0000	100000	25000.0	113.0	2.00	516.00	5000.00
127· Sample ID:	**CCB6**	**EPA Sample ID:**	**CCB**		**Date:**	**11/21/2015**	**23:59:22**	**Dilution:**	**1**

Analytical Review Report

Data File: ***I5112215B ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
128	**Sample ID: S0**	**EPA Sample ID: S0**			**Date: 11/22/2015**	**13:24:55**	**Dilution:**		**1**
129	**Sample ID: S01 ISM-520**	**EPA Sample ID: S01**			**Date: 11/22/2015**	**13:29:39**	**Dilution:**		**1**
130	**Sample ID: S02 ISM-521**	**EPA Sample ID: S02**			**Date: 11/22/2015**	**13:34:25**	**Dilution:**		**1**
131	**Sample ID: S03 ISM-538**	**EPA Sample ID: S03**			**Date: 11/22/2015**	**13:39:10**	**Dilution:**		**1**
132	**Sample ID: S04 ISM-523**	**EPA Sample ID: S04**			**Date: 11/22/2015**	**13:44:25**	**Dilution:**		**1**
133	**Sample ID: S05 ISM-524**	**EPA Sample ID: S05**			**Date: 11/22/2015**	**13:49:52**	**Dilution:**		**1**
134	**Sample ID: S06 ISM-463**	**EPA Sample ID: S06**			**Date: 11/22/2015**	**13:55:25**	**Dilution:**		**1**
135	**Sample ID: S07 ISM-464**	**EPA Sample ID: S07**			**Date: 11/22/2015**	**14:00:07**	**Dilution:**		**1**
136	**Sample ID: S08 ISM-465**	**EPA Sample ID: S08**			**Date: 11/22/2015**	**14:04:58**	**Dilution:**		**1**
137	**Sample ID: S09 ISM-456**	**EPA Sample ID: S09**			**Date: 11/22/2015**	**14:09:41**	**Dilution:**		**1**
138	**Sample ID: S10 ISM-457**	**EPA Sample ID: S10**			**Date: 11/22/2015**	**14:14:28**	**Dilution:**		**1**
139	**Sample ID: ICV2**	**EPA Sample ID: ICV002**			**Date: 11/22/2015**	**14:19:20**	**Dilution:**		**1**
140	**Sample ID: ICB2**	**EPA Sample ID: ICB002**			**Date: 11/22/2015**	**14:24:11**	**Dilution:**		**1**
141	**Sample ID: ICS-A2**	**EPA Sample ID: ICSA002**			**Date: 11/22/2015**	**14:28:59**	**Dilution:**		**1**
142	**Sample ID: ICS-AB2**	**EPA Sample ID: ICSAB002**			**Date: 11/22/2015**	**14:33:52**	**Dilution:**		**1**
143	**Sample ID: CCV8**	**EPA Sample ID: CCV007**			**Date: 11/22/2015**	**14:38:50**	**Dilution:**		**1**
144	**Sample ID: CCB7**	**EPA Sample ID: CCB007**			**Date: 11/22/2015**	**14:44:03**	**Dilution:**		**1**
145	**Sample ID: QK13013-001**	**EPA Sample ID: MBC7C9**			**Date: 11/22/2015**	**14:48:50**	**Dilution:**		**4**
146	**Sample ID: QK13013-001L**	**EPA Sample ID: MBC7C9L**			**Date: 11/22/2015**	**14:53:34**	**Dilution:**		**20**
147	**Sample ID: QK13013-001DU**	**EPA Sample ID: MBC7C9D**			**Date: 11/22/2015**	**14:58:20**	**Dilution:**		**4**
Cu3273	RPD IS OUT OF CRITERIA		113.3500	25000		42.0	1.00	0.24	2.50
Fe2611	RPD IS OUT OF CRITERIA		62377.0000	150000		23.0	0.00	2.60	10.00
148	**Sample ID: QK13013-001MS**	**EPA Sample ID: MBC7C9S**			**Date: 11/22/2015**	**15:03:04**	**Dilution:**		**4**
Cu3273	RECOVERY IS OUT OF CRITERIA		237.2800	25000	500.0	50.0	1.00	0.24	2.50
Sb2068	RECOVERY IS OUT OF CRITERIA		18.2930	5000	200.0	37.0	9.00	0.35	6.00
149	**Sample ID: QK13013-001A**	**EPA Sample ID: MBC7C9A**			**Date: 11/22/2015**	**15:07:48**	**Dilution:**		**4**
150	**Sample ID: CCV8**	**EPA Sample ID: CCV008**			**Date: 11/22/2015**	**15:12:32**	**Dilution:**		**1**
151	**Sample ID: CCB8**	**EPA Sample ID: CCB008**			**Date: 11/22/2015**	**15:17:47**	**Dilution:**		**1**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/25/15 1212

Prep Batch: 89826

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/17/2015 1545
End Date: 11/17/2015 2245
Level 2 Analyst: ECS
Digestion Cup ID: 1504103/2103333
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0, 5.0, 10.0, 10.0
Filter Paper Lot Num: 50630759
Chem ID: IM6310-01(1/9/16) 15-1252(7/17 **Balance ID:** Balance #9B(/18) **Hot Block ID:** Hot Block #3 **Digestion Temperature (°C):** 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89826-001	MB	PBS	1	ISM02.2 ICP	1.0000		0.0	100			
QQ89826-002	LCS	LCS	1	ISM02.2 ICP	1.0000	15-868-01(8/16)	2.0	100			pipette:247
QK13013-001	Sample	MBC7C9	1	ISM02.2 ICP	1.0430		0.0	100	05/10/2016 1530	11/17/2015	
QK13013-001MS	MS	MBC7C9S	1	ISM02.2 ICP	1.0130	15-934(10/16)	1.0	100			pipette:247
QK13013-001DU	Duplicate	MBC7C9D	1	ISM02.2 ICP	1.0150		0.0	100			
QK13013-002	Sample	MBC7D1	1	ISM02.2 ICP	1.0530		0.0	100	05/10/2016 1540	11/17/2015	
QK13013-003	Sample	MBC7B1	1	ISM02.2 ICP	1.1970		0.0	100	05/11/2016 1145	11/17/2015	
QK13013-004	Sample	MBC7B2	1	ISM02.2 ICP	1.4370		0.0	100	05/11/2016 1205	11/17/2015	
QK13013-005	Sample	MBC7B3	1	ISM02.2 ICP	1.4430		0.0	100	05/11/2016 1155	11/17/2015	
QK13013-006	Sample	MBC7B4	1	ISM02.2 ICP	1.2470		0.0	100	05/11/2016 1220	11/17/2015	
QK13013-007	Sample	MBC7B6	1	ISM02.2 ICP	1.4200		0.0	100	05/11/2016 1230	11/17/2015	
QK13013-008	Sample	MBC7H8	1	ISM02.2 ICP	1.2000		0.0	100	05/11/2016 1215	11/17/2015	
QK11054-001	Sample	ME6BF3	1	ISM02.2 ICP	1.4000		0.0	100	05/08/2016 1020	11/30/2015	
QK11054-001MS	MS	ME6BF3S	1	ISM02.2 ICP	1.4500	15-934(10/16)	1.0	100			pipette:247
QK11054-001DU	Duplicate	ME6BF3D	1	ISM02.2 ICP	1.4230		0.0	100			
QK11054-002	Sample	ME6BF4	1	ISM02.2 ICP	1.1410		0.0	100	05/08/2016 1000	11/30/2015	
QK11054-003	Sample	ME6BF5	1	ISM02.2 ICP	1.3070		0.0	100	05/08/2016 0920	11/30/2015	

(end of report) **Total Samples: 11**

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-520
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	S01 ICP ISM		

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.2	200	200
Antimony	15-78	60			60
Arsenic	15-76	10			10
Barium		2000			2000
Beryllium		5			5
Cadmium		5			5
Calcium		5000			5000
Chromium		10			10
Cobalt		50			50
Copper		25			25
Iron		100			100
Lead		10			10
Magnesium		5000			5000
Manganese	15-79	15			15
Molybdenum	15-76	50			50
Nickel		40			40
Potassium		5000			5000
Selenium		35			35
Silver		10			10
Sodium		3000			3000
Thallium		25			25
Titanium	15-79	50			50
Vanadium	15-76	50			50
Zinc		60			60

ISM STANDARD LOG

Analyst: NVM	Working Standard No.: ISM-521 (EXP 2/5/16)
Date: 11/5/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S02 ICP ISM.	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	15-76	200	0.8	200	800
☐ N/A	Antimony	15-78	60			240
☐ N/A	Arsenic	15-76	10			40
☐ N/A	Barium		200			800
☐ N/A	Beryllium		5			20
☐ N/A	Cadmium		5			20
☐ N/A	Calcium		5000			20000
☐ N/A	Chromium		10			40
☐ N/A	Cobalt		50			200
☐ N/A	Copper		25			100
☐ N/A	Iron		100			400
☐ N/A	Lead		10			40
☐ N/A	Magnesium		5000			20000
☐ N/A	Manganese	15-76	15			60
☐ N/A	Molybdenum	15-79	50	0.4		100
☐ N/A	Nickel	15-76	40	0.8		160
☐ N/A	Potassium		5000			20000
☐ N/A	Selenium		35			140
☐ N/A	Silver		10			40
☐ N/A	Sodium		3000			12000
☐ N/A	Thallium		25			100
☐ N/A	Titanium	15-79	50	0.4		100
☐ N/A	Vanadium	15-76	50	0.8		200
☐ N/A	Zinc		60			240

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-538
Date:	11/13/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments:	S03/CCV ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	15-377	1000	2.5	500	50000
☐ N/A	Antimony	15-77	500	"	"	2500
☐ N/A	Arsenic	15-81	500	"	"	2500
☐ N/A	Barium	"	2000	"	"	10000
☐ N/A	Beryllium	"	200	"	"	1000
☐ N/A	Cadmium	"	200	"	"	1000
☐ N/A	Calcium	15-377	10000	"	"	50000
☐ N/A	Chromium	15-81	2000	"	"	10000
☐ N/A	Cobalt	"	1000	"	"	5000
☐ N/A	Copper	"	2500	"	"	12500
☐ N/A	Iron	15-377	5000	"	"	25000
☐ N/A	Lead	15-81	2000	"	"	10000
☐ N/A	Magnesium	15-377	10000	"	"	50000
☐ N/A	Manganese	15-81	1000	"	"	5000
☐ N/A	Molybdenum	15-80	200	"	"	1000
☐ N/A	Nickel	15-81	1000	"	"	5000
☐ N/A	Potassium	15-377	7500	"	"	37500
☐ N/A	Selenium	15-81	2500	"	"	1250
☐ N/A	Silver	"	150	"	"	750
☐ N/A	Sodium	15-377	5000	"	"	25000
☐ N/A	Thallium	15-81	200	"	"	1000
☐ N/A	Titanium	15-80	200	"	"	1000
☐ N/A	Vanadium	15-81	500	"	"	2500
☐ N/A	Zinc	"	1000	"	"	5000

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-523 (Exp 2/12/16)
Date:	11/12/15	Solvent:	5% HCl (15-127) 5% HNO_3 (15-1242)
Comments:	SO4 ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	3.75	500	3750
☐ N/A	Arsenic	15-81	500	"	"	3750
☐ N/A	Barium	"	2000	"	"	15000
☐ N/A	Beryllium	"	200	"	"	1500
☐ N/A	Cadmium	"	200	"	"	1500
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	3.75	500	15000
☐ N/A	Cobalt	"	1000	"	"	750
☐ N/A	Copper	"	2500	"	"	18750
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	3.75	500	15000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	3.75	500	7500
☐ N/A	Molybdenum	15-80	200	"	"	1500
☐ N/A	Nickel	15-81	1000	"	"	7500
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	3.75	500	1875
☐ N/A	Silver	"	150	"	"	1125
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	3.75	500	1500
☐ N/A	Titanium	15-80	200	"	"	1500
☐ N/A	Vanadium	15-81	500	"	"	3750
☐ N/A	Zinc	"	1000	"	"	7500

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-524 (Exp 2/12/16)
Date: 11/12/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: 505 ICP	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	5	500	5000
☐ N/A	Arsenic	15-81	500	〃	〃	5000
☐ N/A	Barium	〃	2000	〃	〃	20000
☐ N/A	Beryllium	〃	200	〃	〃	2000
☐ N/A	Cadmium	〃	200	〃	〃	2000
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	5	500	20000
☐ N/A	Cobalt	〃	1000	〃	〃	10000
☐ N/A	Copper	〃	2500	〃	〃	250000
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	5	500	20000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	5	500	10000
☐ N/A	Molybdenum	15-80	200	〃	〃	2000
☐ N/A	Nickel	15-81	1000	〃	〃	10000
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	5	500	2500
☐ N/A	Silver	〃	150	〃	〃	1500
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	5	500	2000
☐ N/A	Titanium	15-80	200	〃	〃	2000
☐ N/A	Vanadium	15-81	500	〃	〃	5000
☐ N/A	Zinc	〃	1000	〃	〃	10000

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-463 (exp 11/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: 506 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	3	200	150000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	3	200	150000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	3	200	75000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	3	200	150000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	3	200	112500
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	3	200	75000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-464 (EXP 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042) ECS 10/14/15
Comments: 507 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	6	200	300000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium					
Beryllium					
Cadmium					
Calcium	15-82	10000	6	200	300000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper					
Iron	15-82	5000	6	200	150000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	6	200	300000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	ECS 10/14/15 NA	↓	↓
Nickel			NA		
Potassium	15-82	7500	6	200	225000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	6	200	150000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-465 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: SOP ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	1.5	200	75000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	1.5	200	75000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	1.5	200	37500
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	1.5	200	75000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	1.5	200	56250
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	1.5	200	37500
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: RKT	Working Standard No.: ISM-456
Date: 10-6-15	Solvent: 5% HCl (15-929) 5% HNO_3 (15-931)
Comments: 509 ICP	Expires ~~1-6-16~~ RKT 10-8-15 1-6-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel	Single Element Std				
Potassium	14-955	10,000	2	200	100,000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	~~14-955~~ 15-407	10,000	2	200	100,000
Thallium					
Titanium					
Vanadium					
Zinc					

RKT 10-6-15

RKT 10-6-15

ISM STANDARD LOG

Analyst: RLG	Working Standard No.: ISM-457
Date: 10-8-15	Solvent: 5% HCl (15-929) 5% HNO3 (15-931)
Comments: S10 ICP	Expires 1-8-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	0.2	200	10,000
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

RLG 10-8-15

RLG 10-8-15

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-514
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-135	*	20	200	2521
Antimony	"	"	"	"	994
Arsenic	"	"	"	"	999
Barium	"	"	"	"	497
Beryllium	"	"	"	"	495
Cadmium	"	"	"	"	496
Calcium	"	"	"	"	10026
Chromium	"	"	"	"	490
Cobalt	"	"	"	"	499
Copper	"	"	"	"	492
Iron	"	"	"	"	5082
Lead	"	"	"	"	1002
Magnesium	"	"	"	"	6074
Manganese	"	"	"	"	499
Molybdenum	NA	NA		NA	NA
Nickel	15-135	*		200	503
Potassium	"	"		"	1002
Selenium	"	"		"	1029
Silver	"	"		"	501
Sodium	"	"		"	10097
Thallium	"	"		"	1028
Titanium	NA	NA		NA	NA
Vanadium	15-135	*		200	501
Zinc	"	"	"	"	1025

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-519 Exp 2/5/16
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	ISM ICSA ICP	* Provided by the EPA. No true value given by the EPA.	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1033	*	10	100	254900
Antimony	NA	NA	NA	NA	NA
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium	14-1033	*	10	100	244500
Chromium	NA	NA	NA	NA	NA
Cobalt					
Copper					
Iron	14-1033	*	10	100	100700
Lead	11/5/15 NCM ~~14-1033~~ NA	NA	NA	NA	NA
Magnesium	14-1033	*	10	100	255400
Manganese	NA	NA	NA	NA	NA
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-522 (Exp 2/11/16)
Date: 11/11/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: ICSAB ISM	* Stock provided by EPA, no true value given

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☐ N/A	Aluminum	14-1034 & 14-1033	*	10/10	100	246800
☐ N/A	Antimony			10		618
☐ N/A	Arsenic					104
☐ N/A	Barium					537
☐ N/A	Beryllium					495
☐ N/A	Cadmium					972
☐ N/A	Calcium	+ 14-1033		10/10		234900
☐ N/A	Chromium			10		542
☐ N/A	Cobalt					476
☐ N/A	Copper					571
☐ N/A	Iron	+ 14-1033		10/10		99320
☐ N/A	Lead			10		49
☐ N/A	Magnesium	+ 14-1033		10/10		248000
☐ N/A	Manganese			10		507
☒ N/A	Molybdenum	NA	NA	NA	NA	NA
☐ N/A	Nickel	14-1034	*	10	100	954
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	14-1034	*	10	100	46
☐ N/A	Silver					201
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	14-1034	*	10	100	108
☒ N/A	Titanium	NA	NA	NA	NA	NA
☐ N/A	Vanadium	14-1034	*	10	100	491
☐ N/A	Zinc					952

MERCURY

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
Method Detection Limit (Form 9-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
Mercury Raw Data
Mercury Preparation Log Books, Preparation Records, Analysis Records

Mercury
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC7C9

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method: ICP-AES	ICP-MS	Mercury	Cyanide
MBC7B1	QK13013-003			X	
MBC7B2	QK13013-004			X	
MBC7B3	QK13013-005			X	
MBC7B4	QK13013-006			X	
MBC7B6	QK13013-007			X	
MBC7C9	QK13013-001			X	
MBC7C9D	QK13013-001DU			X	
MBC7C9S	QK13013-001MS			X	
MBC7D1	QK13013-002			X	
MBC7H8	QK13013-008			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Zhu Name: Robert Zhu

Date: 11/28/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-003

% Solids: 81.1 Date Received: 11/14/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.046	J*	11/20/2015	21:16:06

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-004

% Solids: 82.5 Date Received: 11/14/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.13	U*	11/20/2015	21:18:11

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-005

% Solids: 81.9 Date Received: 11/14/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.057	J*	11/20/2015	21:20:12

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-006

% Solids: 78.3 Date Received: 11/14/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.24	*	11/20/2015	21:22:23

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7B6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-007

% Solids: 73.6 Date Received: 11/14/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.51	*	11/20/2015	21:24:39

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7C9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-001

% Solids: 80.8 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.45	*	11/20/2015	21:00:58

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7D1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-002

% Solids: 85.9 Date Received: 11/13/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.26	*	11/20/2015	21:08:28

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Lab Sample ID: QK13013-008

% Solids: 81.8 Date Received: 11/14/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.13	U*	11/20/2015	21:27:02

NOTE: Hardness (total) is reported in mg/L

Comments:

Mercury
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.0	100		5.0	4.8	96		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV4		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.4	88		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID: CCV006		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.6	92		4.5	90	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV007				ID: CCV008		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.4	88		4.4	88	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3112015ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV009				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.5	90				

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Preparation Blank Matrix: SOIL

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

Analytical Method: CVAA Preparation Batch: 90140

Run Batch: HG3112015ISMA1 Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)								- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q			ID: PBS001	Q
Mercury	0.17	J	0.20	U	0.20	U	0.20	U			0.12	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3112015ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB4	Q	ID: CCB005	Q	ID: CCB006	Q	ID:	Q
Mercury			0.078	J	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3112015ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB007	Q	ID: CCB008	Q	ID: CCB009	Q	ID:	Q
Mercury			0.098	J	0.11	J	0.20	U		

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7C9S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Analytical Method: CVAA

% Solids for Sample: 80.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	75 - 125	0.76		0.45		0.64	48	*

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.
MBC7C9D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Matrix: SOIL Analytical Method: CVAA

% Solids: 80.8

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury	0.13	0.45		0.58		25	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Analytical Method: CVAA Instrument ID: Hg3

Preparation Method: 7470A

Concentration Units (ug/L, ug, mg/kg): UG/L

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.023	03/25/2015

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Analytical Method: CVAA Instrument ID: Hg3

Preparation Method: 7471B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.0039	03/25/2015

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

EPA Sample NO.	D/F	Time	Analytes																											
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1805															X													
S01	1.0	1808															X													
S02	1.0	1810															X													
S03	1.0	1813															X													
S04	1.0	1817															X													
S05	1.0	1819															X													
ICV001	1.0	1822															X													
ICB001	1.0	1826															X													
CCV001	1.0	1829															X													
CCB001	1.0	1832															X													
ZZZZZZ	1.0	1834																												
ZZZZZZ	1.0	1837																												
ZZZZZZ	1.0	1839																												
ZZZZZZ	1.0	1841																												
ZZZZZZ	1.0	1844																												
ZZZZZZ	1.0	1847																												
ZZZZZZ	1.0	1849																												
ZZZZZZ	1.0	1852																												
ZZZZZZ	1.0	1854																												
ZZZZZZ	1.0	1856																												
CCV002	1.0	1858															X													
CCB002	1.0	1901															X													
ZZZZZZ	1.0	1903																												
ZZZZZZ	1.0	1906																												
ZZZZZZ	1.0	1909																												
ZZZZZZ	1.0	1911																												
ZZZZZZ	1.0	1913																												
ZZZZZZ	1.0	1916																												
ZZZZZZ	1.0	1918																												
ZZZZZZ	1.0	1920																												
ZZZZZZ	1.0	1924																												
ZZZZZZ	1.0	1926																												
CCV003	1.0	1929															X													
CCB003	1.0	1931															X													
ZZZZZZ	1.0	1933																												
ZZZZZZ	1.0	1935																												
ZZZZZZ	1.0	1938																												

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
CCV4	1.0	1941															X												
CCB4	1.0	1944															X												
ZZZZZZ	1.0	1946																											
ZZZZZZ	1.0	1948																											
ZZZZZZ	1.0	1950																											
ZZZZZZ	1.0	1952																											
ZZZZZZ	1.0	1956																											
ZZZZZZ	1.0	1958																											
ZZZZZZ	1.0	2001																											
CCV005	1.0	2005															X												
CCB005	1.0	2007															X												
ZZZZZZ	1.0	2009																											
ZZZZZZ	1.0	2011																											
ZZZZZZ	1.0	2015																											
ZZZZZZ	1.0	2018																											
ZZZZZZ	1.0	2023																											
ZZZZZZ	1.0	2025																											
ZZZZZZ	1.0	2027																											
ZZZZZZ	1.0	2030																											
ZZZZZZ	1.0	2032																											
CCV006	1.0	2036															X												
CCB006	1.0	2038															X												
ZZZZZZ	1.0	2041																											
ZZZZZZ	1.0	2043																											
ZZZZZZ	1.0	2046																											
ZZZZZZ	1.0	2049																											
ZZZZZZ	1.0	2051																											
CCV007	1.0	2054															X												
CCB007	1.0	2056															X												
PBS001	1.0	2058															X												
MBC7C9	1.0	2100															X												
MBC7C9S	1.0	2103															X												
MBC7C9D	1.0	2105															X												
MBC7D1	1.0	2108															X												
CCV008	1.0	2110															X												
CCB008	1.0	2113															X												
MBC7B1	1.0	2116															X												

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7C9

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/20/2015 End Date: 11/20/2015

Run Batch: HG3112015ISMA1

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
MBC7B2	1.0	2118															X												
MBC7B3	1.0	2120															X												
MBC7B4	1.0	2122															X												
MBC7B6	1.0	2124															X												
MBC7H8	1.0	2127															X												
ZZZZZZ	1.0	2129																											
ZZZZZZ	1.0	2131																											
ZZZZZZ	1.0	2133																											
ZZZZZZ	1.0	2135																											
CCV009	1.0	2137															X												
CCB009	1.0	2141															X												
ZZZZZZ	1.0	2143																											
ZZZZZZ	1.0	2145																											
ZZZZZZ	1.0	2148																											
ZZZZZZ	1.0	2150																											
ZZZZZZ	1.0	2152																											
ZZZZZZ	1.0	2155																											
ZZZZZZ	1.0	2157																											
ZZZZZZ	1.0	2200																											
ZZZZZZ	1.0	2202																											
ZZZZZZ	1.0	2205																											

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7C9

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.098	0	0.200	0.15	-23	0.500	0.49	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7C9

Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	0.99	-1	5.00	4.9	-2	10.0	10	0

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7C9

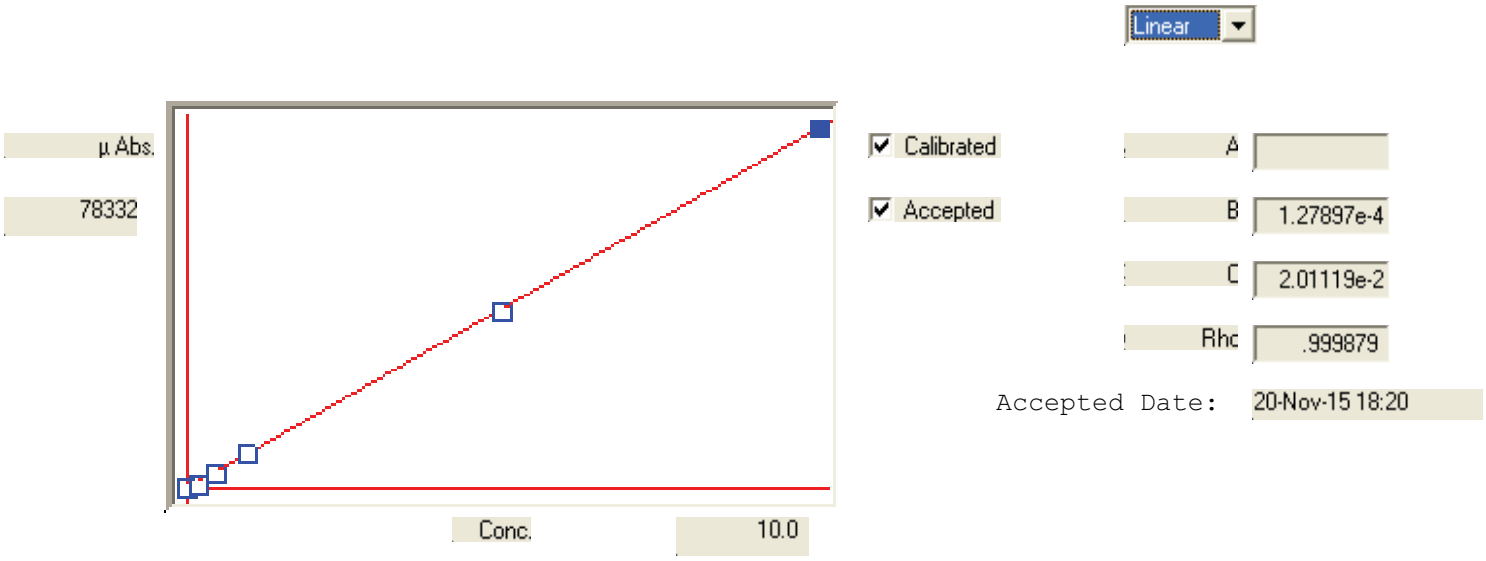
Instrument ID: Hg3 **Start Date:** 11/20/2015

Analytical Method: CVAA **Run Batch:** HG3112015ISMA1

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	0.9999	0.996	0.0201	Lin. Req	None

Mercury
Raw Data

Protocol: HG3ISMS



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	.098	.098	612	0	612				
02	.20000	.154	-.046	1045	0%	1045				
03	.50000	.493	-.007	3701	0%	3701				
04	1.0000	.993	-.007	7606	0%	7606				
05	5.0000	4.92	-.077	38334	0%	38334				
06	10.000	10.0	.039	78332	0%	78332				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 S0 Seq: 140 18:05:04 20 Nov 15 HG

Hg .000 ppb 612

*** Standard: 2 Rep: 1 S01 Seq: 141 18:08:44 20 Nov 15 HG

Hg .200 ppb 1045

*** Standard: 3 Rep: 1 S02 Seq: 142 18:10:55 20 Nov 15 HG

Hg .500 ppb 3701

*** Standard: 4 Rep: 1 S03 Seq: 143 18:13:55 20 Nov 15 HG

Hg 1.00 ppb 7606

*** Standard: 5 Rep: 1 S04 Seq: 144 18:17:01 20 Nov 15 HG

Hg 5.00 ppb 38334

*** Standard: 6 Rep: 1 S05 Seq: 145 18:19:47 20 Nov 15 HG

Hg 10.0 ppb 78332

*** Check Standard: 3 Ck3ICV0508 Seq: 146 18:22:13 20 Nov 15 HG ICV001

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	4.01	4.00	ppb	.000 %

*** Check Standard: 1 Ck1blank Seq: 147 18:26:09 20 Nov 15 HG ICB001

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.167	.199	ppb	.000 %

*** Check Standard: 4 Ck4CCV1512 Seq: 148 18:29:39 20 Nov 15 HG CCV001

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.4	4.77	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank Seq: 149 18:32:12 20 Nov 15 HG CCB001

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.016	.199	ppb	.000 %

*** Sample ID: QQ90138001 112015C Seq: 150 18:34:46 20 Nov 15 HG
PBS

Hg .023 ppb .000 % .023

==========

*** Sample ID: QK13011001 112015C Seq: 151 18:37:05 20 Nov 15 HG
MBC775

Hg 2.27 ppb .000 % 2.27 =

*** Sample ID: QK13011001 112015C Seq: 152 18:39:40 20 Nov 15 HG
MBC775S

Hg 3.66 ppb .000 % 3.66 =

*** Sample ID: QK13011001 112015C Seq: 153 18:41:50 20 Nov 15 HG
MBC775D

Hg 2.79 ppb .000 % 2.79 =

==========

*** Sample ID: QK13011002 112015C Seq: 154 18:44:21 20 Nov 15 HG
MBC776

Hg .139 ppb .000 % .139 =

==========

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13011003 112015C Seq: 155 18:47:10 20 Nov 15 HG									
				MBC777					
Hg	.736	ppb	.000 %	.736					
*** Sample ID: QK13011004 112015C Seq: 156 18:49:11 20 Nov 15 HG									
				MBC777					
Hg	.156	ppb	.000 %	.156					
*** Sample ID: QK13011005 112015C Seq: 157 18:52:06 20 Nov 15 HG									
				MBC779					
Hg	.115	ppb	.000 %	.115					
*** Sample ID: QK13011006 112015C Seq: 158 18:54:11 20 Nov 15 HG									
				MBC780					
Hg	.158	ppb	.000 %	.158					
*** Sample ID: QK13011007 112015C Seq: 159 18:56:31 20 Nov 15 HG									
				MBC781					
Hg	.201	ppb	.000 %	.201					
*** Check Standard: 4 Ck4CCV1512 Seq: 160 18:58:45 20 Nov 15 HG									CCV002
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		95.3	4.76	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 161 19:01:45 20 Nov 15 HG									CCB002
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.044	.199	ppb	.000 %				
*** Sample ID: QK13011008 112015C Seq: 162 19:03:48 20 Nov 15 HG									
				MBC782					
Hg	.121	ppb	.000 %	.121					
*** Sample ID: QK13011009 112015C Seq: 163 19:06:50 20 Nov 15 HG									
				MBC783					
Hg	.115	ppb	.000 %	.115					
*** Sample ID: QK13011010 112015C Seq: 164 19:09:01 20 Nov 15 HG									
				MBC784					
Hg	1.59	ppb	.000 %	1.59					
*** Sample ID: QK13011011 112015C Seq: 165 19:11:10 20 Nov 15 HG									
				MBC785					
Hg	1.03	ppb	.000 %	1.03					
*** Sample ID: QK13011012 112015C Seq: 166 19:13:23 20 Nov 15 HG									
				MBC786					
Hg	44.8	ppb	.000 %	44.8					
*** Sample ID: QK13011013 112015C Seq: 167 19:16:44 20 Nov 15 HG									
				MBC787					
Hg	4.80	ppb	.000 %	4.80					

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13011014 112015C Seq: 168 19:18:46 20 Nov 15 HG									
				MBC788					
Hg	.201	ppb	.000 %	.201					
*** Sample ID: QK13011015 112015C Seq: 169 19:20:50 20 Nov 15 HG									
				MBC789					
Hg	.189	ppb	.000 %	.189					
*** Sample ID: QK13011016 112015C Seq: 170 19:24:10 20 Nov 15 HG									
				MBC7H7					
Hg	.082	ppb	.000 %	.082					
*** Sample ID: QK13011017 112015C Seq: 171 19:26:14 20 Nov 15 HG									
				MBC790					
Hg	16.0	ppb	.000 %	16.0					
*** Check Standard: 4 Ck4CCV1512 Seq: 172 19:29:15 20 Nov 15 HG CCV003									
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		87.7	4.38	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 173 19:31:26 20 Nov 15 HG CCB003									
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.014	.199	ppb	.000 %				
*** Sample ID: QK13011018 112015C Seq: 174 19:33:50 20 Nov 15 HG									
				MBC791					
Hg	.478	ppb	.000 %	.478					
*** Sample ID: QK13011019 112015C Seq: 175 19:35:58 20 Nov 15 HG									
				MBC792					
Hg	1.44	ppb	.000 %	1.44					
*** Sample ID: QK13011020 112015C Seq: 176 19:38:22 20 Nov 15 HG									
				MBC793					
Hg	3.07	ppb	.000 %	3.07					
*** Check Standard: 4 Ck4CCV1512 Seq: 177 19:41:51 20 Nov 15 HG CCV004									
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		93.7	4.68	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1blank Seq: 178 19:44:07 20 Nov 15 HG CCB004									
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		.078	.199	ppb	.000 %				
*** Sample ID: QQ90139001 112015C Seq: 179 19:46:21 20 Nov 15 HG									
				PBS					
Hg	.034	ppb	.000 %	.034					
*** Sample ID: QK13012002 112015C Seq: 180 19:48:21 20 Nov 15 HG									
				MBC794					
Hg	.138	ppb	.000 %	.138					
*** Sample ID: QK13012003 112015C Seq: 181 19:50:22 20 Nov 15 HG									
				MBC795					
Hg	.701	ppb	.000 %	.701					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: QK13012004 112015C Seq: 182 19:52:32 20 Nov 15 HG								
				MBC796				
Hg	85.6	ppb	.000 %	85.6				
*** Sample ID: QK13012005 112015C Seq: 183 19:56:06 20 Nov 15 HG								
				MBC797				
Hg	.126	ppb	.000 %	.126				
*** Sample ID: QK13012006 112015C Seq: 184 19:58:32 20 Nov 15 HG								
				MBC798				
Hg	110.	ppb	.000 %	110.				
*** Sample ID: QK13012006 112015C Seq: 185 20:01:58 20 Nov 15 HG								
				MBC798S				
Hg	91.6	ppb	.000 %	91.6				
*** Check Standard: 4 Ck4CCV1512 Seq: 186 20:05:00 20 Nov 15 HG CCV005								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		91.1	4.56	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1blank Seq: 187 20:07:05 20 Nov 15 HG CCB005								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.017	.199	ppb	.000 %			
*** Sample ID: QK13012006 112015C Seq: 188 20:09:10 20 Nov 15 HG								
				MBC798D				
Hg	67.7	ppb	.000 %	67.7				
*** Sample ID: QK13012007 112015C Seq: 189 20:11:31 20 Nov 15 HG								
				MBC799				
Hg	9.22	ppb	.000 %	9.22				
*** Sample ID: QK13012008 112015C Seq: 190 20:15:29 20 Nov 15 HG								
				MBC7A0				
Hg	51.7	ppb	.000 %	51.7				
*** Sample ID: QK13012009 112015C Seq: 191 20:18:14 20 Nov 15 HG								
				MBC7A1				
Hg	36.5	ppb	.000 %	36.5				
*** Sample ID: QK13012010 112015C Seq: 192 20:20:55 20 Nov 15 HG								
				MBC7A2				
Hg	.519	ppb	.000 %	.519				
*** Sample ID: QK13012011 112015C Seq: 193 20:23:05 20 Nov 15 HG								
				MBC7A3				
Hg	3.61	ppb	.000 %	3.61				
*** Sample ID: QK13012012 112015C Seq: 194 20:25:04 20 Nov 15 HG								
				MBC7A4				
Hg	1.84	ppb	.000 %	1.84				

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: QK13012013 112015C Seq: 195 20:27:16 20 Nov 15 HG									
				MBC7H9					
Hg	.592	ppb	.000 %	.592					=
*** Sample ID: QK13012014 112015C Seq: 196 20:30:47 20 Nov 15 HG									
				MBC7A5					
Hg	.194	ppb	.000 %	.194					=
*** Sample ID: QK13012015 112015C Seq: 197 20:32:49 20 Nov 15 HG									
				MBC7A6					
Hg	.124	ppb	.000 %	.124					=
*** Check Standard: 4 Ck4CCV1512 Seq: 198 20:36:33 20 Nov 15 HG									CCV006
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		90.8	4.54	5.00	ppb	.000 %			=
*** Check Standard: 1 Ck1blank Seq: 199 20:38:32 20 Nov 15 HG									CCB006
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.132	.199	ppb	.000 %				=
*** Sample ID: QK13012016 112015C Seq: 200 20:41:53 20 Nov 15 HG									
				MBC7A7					
Hg	.085	ppb	.000 %	.085					=
*** Sample ID: QK13012017 112015C Seq: 201 20:43:58 20 Nov 15 HG									
				MBC7A8					
Hg	.416	ppb	.000 %	.416					=
*** Sample ID: QK13012018 112015C Seq: 202 20:46:24 20 Nov 15 HG									
				MBC7A9					
Hg	.536	ppb	.000 %	.536					=
*** Sample ID: QK13012019 112015C Seq: 203 20:49:16 20 Nov 15 HG									
				MBC7B0					
Hg	.642	ppb	.000 %	.642					=
*** Sample ID: QK13012020 112015C Seq: 204 20:51:42 20 Nov 15 HG									
				MBC7D0					
Hg	5.28	ppb	.000 %	5.28					=
*** Check Standard: 4 Ck4CCV1512 Seq: 205 20:54:18 20 Nov 15 HG									CCV007
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		87.5	4.38	5.00	ppb	.000 %			=
*** Check Standard: 1 Ck1blank Seq: 206 20:56:23 20 Nov 15 HG									CCB007
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		.098	.199	ppb	.000 %				=
*** Sample ID: QQ90140001 112015C Seq: 207 20:58:43 20 Nov 15 HG									
				PBS001					
Hg	.021	ppb	.000 %	.021					=
*** Sample ID: QK13013001 112015C Seq: 208 21:00:58 20 Nov 15 HG									
				MBC7C9					
Hg	1.85	ppb	.000 %	1.85					=

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QK13013001 112015C Seq: 209 21:03:03 20 Nov 15 HG
MBC7C9S

Hg	3.57	ppb	.000	%	3.57				=

*** Sample ID: QK13013001 112015C Seq: 210 21:05:18 20 Nov 15 HG
MBC7C9D

Hg	2.71	ppb	.000	%	2.71				=

==========

*** Sample ID: QK13013002 112015C Seq: 211 21:08:28 20 Nov 15 HG
MBC7D1

Hg	1.19	ppb	.000	%	1.19				=

*** Check Standard: 4 Ck4CCV1512 Seq: 212 21:10:53 20 Nov 15 HG CCV008

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		88.5	4.43	5.00	ppb	.000	% =

*** Check Standard: 1 Ck1blank Seq: 213 21:13:35 20 Nov 15 HG CCB008

Line	Flag	Found	Range(+/-)	Units	SD/RSD	
Hg		.109	.199	ppb	.000	% =

*** Sample ID: QK13013003 112015C Seq: 214 21:16:06 20 Nov 15 HG
MBC7B1

Hg	.212	ppb	.000	%	.212				=

==========

*** Sample ID: QK13013004 112015C Seq: 215 21:18:11 20 Nov 15 HG
MBC7B2

Hg	.011	ppb	.000	%	.011				=

==========

*** Sample ID: QK13013005 112015C Seq: 216 21:20:12 20 Nov 15 HG
MBC7B3

Hg	.279	ppb	.000	%	.279				=

==========

*** Sample ID: QK13013006 112015C Seq: 217 21:22:23 20 Nov 15 HG
MBC7B4

Hg	1.04	ppb	.000	%	1.04				=

==========

*** Sample ID: QK13013007 112015C Seq: 218 21:24:39 20 Nov 15 HG
MBC7B6

Hg	2.03	ppb	.000	%	2.03				=

==========

*** Sample ID: QK13013008 112015C Seq: 219 21:27:02 20 Nov 15 HG
MBC7H8

Hg	-.023	ppb	.000	%	-.023				=

==========

*** Sample ID: QK13013009 112015C Seq: 220 21:29:17 20 Nov 15 HG
MBC7B7

Hg	.302	ppb	.000	%	.302				=

==========

*** Sample ID: QK17017-009 112015C Seq: 221 21:31:31 20 Nov 15 HG
MBC7B9

Hg	.174	ppb	.000	%	.174				=

==========

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QK17017-010 112015C Seq: 222 21:33:35 20 Nov 15 HG
MBC7C0

Hg	.225	ppb	.000	%	.225				=

==========

*** Sample ID: QK17017011 112015C Seq: 223 21:35:39 20 Nov 15 HG
MBC7C1

Hg	.427	ppb	.000	%	.427				=

*** Check Standard: 4 Ck4CCV1512 Seq: 224 21:37:40 20 Nov 15 HG CCV009

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		90.2	4.51	5.00	ppb	.000	% =

*** Check Standard: 1 Ck1blank Seq: 225 21:41:00 20 Nov 15 HG CCB009

Line	Flag	Found	Range(+/-)	Units	SD/RSD	
Hg		-.052	.199	ppb	.000	% =

*** Sample ID: QK17017012 112015C Seq: 226 21:43:04 20 Nov 15 HG
MBC7C2

Hg	.232	ppb	.000	%	.232				=

==========

*** Sample ID: QK17017013 112015C Seq: 227 21:45:30 20 Nov 15 HG
MBC7C3

Hg	.384	ppb	.000	%	.384				=

==========

*** Sample ID: QK17017014 112015C Seq: 228 21:48:22 20 Nov 15 HG
MBC7C4

Hg	.252	ppb	.000	%	.252				=

==========

*** Sample ID: QK17017015 112015C Seq: 229 21:50:36 20 Nov 15 HG
MBC7C5

Hg	.125	ppb	.000	%	.125				=

==========

*** Sample ID: QK17017016 112015C Seq: 230 21:52:39 20 Nov 15 HG
MBC7C6

Hg	.110	ppb	.000	%	.110				=

==========

*** Sample ID: QK17017017 112015C Seq: 231 21:55:23 20 Nov 15 HG
MBC7C7

Hg	.004	ppb	.000	%	.004				=

==========

*** Sample ID: QK17017018 112015C Seq: 232 21:57:26 20 Nov 15 HG
MBC7C8

Hg	.020	ppb	.000	%	.020				=

==========

*** Sample ID: QK17017019 112015C Seq: 233 22:00:08 20 Nov 15 HG
MBC7D2

Hg	.123	ppb	.000	%	.123				=

*** Check Standard: 4 Ck4CCV1512 Seq: 234 22:02:15 20 Nov 15 HG CCV010

Line	Flag	%Rcv.	Found	True	Units	SD/RSD	
Hg		80.1	4.00	5.00	ppb	.000	% =

*** Check Standard: 1 Ck1blank Seq: 235 22:05:05 20 Nov 15 HG CCB010

Line	Flag	Found	Range(+/-)	Units	SD/RSD	
Hg		.040	.199	ppb	.000	% =

Mercury
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1	Sample ID: Std01Rep1	EPA Sample ID: S0				Date: 11/20/2015	18:05:04	Dilution:		1
2	Sample ID: Std02Rep1	EPA Sample ID: S01				Date: 11/20/2015	18:08:44	Dilution:		1
3	Sample ID: Std03Rep1	EPA Sample ID: S02				Date: 11/20/2015	18:10:55	Dilution:		1
4	Sample ID: Std04Rep1	EPA Sample ID: S03				Date: 11/20/2015	18:13:55	Dilution:		1
5	Sample ID: Std05Rep1	EPA Sample ID: S04				Date: 11/20/2015	18:17:01	Dilution:		1
6	Sample ID: Std06Rep1	EPA Sample ID: S05				Date: 11/20/2015	18:19:47	Dilution:		1
7	Sample ID: ICV1	EPA Sample ID: ICV001				Date: 11/20/2015	18:22:13	Dilution:		1
8	Sample ID: ICB1	EPA Sample ID: ICB001				Date: 11/20/2015	18:26:09	Dilution:		1
9	Sample ID: CCV1	EPA Sample ID: CCV001				Date: 11/20/2015	18:29:39	Dilution:		1
10	Sample ID: CCB1	EPA Sample ID: CCB001				Date: 11/20/2015	18:32:12	Dilution:		1
11	Sample ID: QQ90138-001	EPA Sample ID: QQ90138-001MB				Date: 11/20/2015	18:34:46	Dilution:		1
12	Sample ID: QK13011-001	EPA Sample ID: MBC775				Date: 11/20/2015	18:37:05	Dilution:		1
13	Sample ID: QK13011-001	EPA Sample ID: MBC775				Date: 11/20/2015	18:39:40	Dilution:		1
14	Sample ID: QK13011-001	EPA Sample ID: MBC775				Date: 11/20/2015	18:41:50	Dilution:		1
15	Sample ID: QK13011-002	EPA Sample ID: MBC776				Date: 11/20/2015	18:44:21	Dilution:		1
16	Sample ID: QK13011-003	EPA Sample ID: MBC777				Date: 11/20/2015	18:47:10	Dilution:		1
17	Sample ID: QK13011-004	EPA Sample ID: MBC778				Date: 11/20/2015	18:49:11	Dilution:		1
18	Sample ID: QK13011-005	EPA Sample ID: MBC779				Date: 11/20/2015	18:52:06	Dilution:		1
19	Sample ID: QK13011-006	EPA Sample ID: MBC780				Date: 11/20/2015	18:54:11	Dilution:		1
20	Sample ID: QK13011-007	EPA Sample ID: MBC781				Date: 11/20/2015	18:56:31	Dilution:		1
21	Sample ID: CCV2	EPA Sample ID: CCV002				Date: 11/20/2015	18:58:45	Dilution:		1
22	Sample ID: CCB2	EPA Sample ID: CCB002				Date: 11/20/2015	19:01:45	Dilution:		1
23	Sample ID: QK13011-008	EPA Sample ID: MBC782				Date: 11/20/2015	19:03:48	Dilution:		1
24	Sample ID: QK13011-009	EPA Sample ID: MBC783				Date: 11/20/2015	19:06:50	Dilution:		1
25	Sample ID: QK13011-010	EPA Sample ID: MBC784				Date: 11/20/2015	19:09:01	Dilution:		1
26	Sample ID: QK13011-011	EPA Sample ID: MBC785				Date: 11/20/2015	19:11:10	Dilution:		1
27	Sample ID: QK13011-012	EPA Sample ID: MBC786				Date: 11/20/2015	19:13:23	Dilution:		1
Hg	PARAMETER IS OVER RANGE			44.8000	10			0.00	0.00	0.10
28	Sample ID: QK13011-013	EPA Sample ID: MBC787				Date: 11/20/2015	19:16:44	Dilution:		1
29	Sample ID: QK13011-014	EPA Sample ID: MBC788				Date: 11/20/2015	19:18:46	Dilution:		1
30	Sample ID: QK13011-015	EPA Sample ID: MBC789				Date: 11/20/2015	19:20:50	Dilution:		1
31	Sample ID: QK13011-016	EPA Sample ID: MBC7H7				Date: 11/20/2015	19:24:10	Dilution:		1
32	Sample ID: QK13011-017	EPA Sample ID: MBC790				Date: 11/20/2015	19:26:14	Dilution:		1
Hg	PARAMETER IS OVER RANGE			16.0000	10			0.00	0.00	0.10
33	Sample ID: CCV3	EPA Sample ID: CCV003				Date: 11/20/2015	19:29:15	Dilution:		1
34	Sample ID: CCB3	EPA Sample ID: CCB003				Date: 11/20/2015	19:31:26	Dilution:		1
35	Sample ID: QK13011-018	EPA Sample ID: MBC791				Date: 11/20/2015	19:33:50	Dilution:		1
36	Sample ID: QK13011-019	EPA Sample ID: MBC792				Date: 11/20/2015	19:35:58	Dilution:		1
37	Sample ID: QK13011-020	EPA Sample ID: MBC793				Date: 11/20/2015	19:38:22	Dilution:		1
38	Sample ID: CCV4	EPA Sample ID: CCV4				Date: 11/20/2015	19:41:51	Dilution:		1
39	Sample ID: CCB4	EPA Sample ID: CCB4				Date: 11/20/2015	19:44:07	Dilution:		1

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
40. **Sample ID:** **QQ90139-001**	**EPA Sample ID:** **QQ90139-001MB**				**Date:** **11/20/2015**		**19:46:21**	**Dilution:**	**1**
41. **Sample ID:** **QK13012-002**	**EPA Sample ID:** **MBC794**				**Date:** **11/20/2015**		**19:48:21**	**Dilution:**	**1**
42. **Sample ID:** **QK13012-003**	**EPA Sample ID:** **MBC795**				**Date:** **11/20/2015**		**19:50:22**	**Dilution:**	**1**
43. **Sample ID:** **QK13012-004**	**EPA Sample ID:** **MBC796**				**Date:** **11/20/2015**		**19:52:32**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		85.6000	10			0.00	0.00	0.10
44. **Sample ID:** **QK13012-005**	**EPA Sample ID:** **MBC797**				**Date:** **11/20/2015**		**19:56:06**	**Dilution:**	**1**
45. **Sample ID:** **QK13012-006**	**EPA Sample ID:** **MBC798**				**Date:** **11/20/2015**		**19:58:32**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		110.0000	10			0.00	0.00	0.10
46. **Sample ID:** **QK13012-006**	**EPA Sample ID:** **MBC798**				**Date:** **11/20/2015**		**20:01:58**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		91.6000	10			0.00	0.00	0.10
47. **Sample ID:** **CCV5**	**EPA Sample ID:** **CCV005**				**Date:** **11/20/2015**		**20:05:00**	**Dilution:**	**1**
48. **Sample ID:** **CCB5**	**EPA Sample ID:** **CCB005**				**Date:** **11/20/2015**		**20:07:05**	**Dilution:**	**1**
49. **Sample ID:** **QK13012-006**	**EPA Sample ID:** **MBC798**				**Date:** **11/20/2015**		**20:09:10**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		67.7000	10			0.00	0.00	0.10
50. **Sample ID:** **QK13012-007**	**EPA Sample ID:** **MBC799**				**Date:** **11/20/2015**		**20:11:31**	**Dilution:**	**1**
51. **Sample ID:** **QK13012-008**	**EPA Sample ID:** **MBC7A0**				**Date:** **11/20/2015**		**20:15:29**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		51.7000	10			0.00	0.00	0.10
52. **Sample ID:** **QK13012-009**	**EPA Sample ID:** **MBC7A1**				**Date:** **11/20/2015**		**20:18:14**	**Dilution:**	**1**
53. **Sample ID:** **QK13012-010**	**EPA Sample ID:** **MBC7A2**				**Date:** **11/20/2015**		**20:23:05**	**Dilution:**	**1**
54. **Sample ID:** **QK13012-012**	**EPA Sample ID:** **MBC7A4**				**Date:** **11/20/2015**		**20:25:04**	**Dilution:**	**1**
55. **Sample ID:** **QK13012-013**	**EPA Sample ID:** **MBC7H9**				**Date:** **11/20/2015**		**20:27:16**	**Dilution:**	**1**
56. **Sample ID:** **QK13012-014**	**EPA Sample ID:** **MBC7A5**				**Date:** **11/20/2015**		**20:30:47**	**Dilution:**	**1**
57. **Sample ID:** **QK13012-015**	**EPA Sample ID:** **MBC7A6**				**Date:** **11/20/2015**		**20:32:49**	**Dilution:**	**1**
58. **Sample ID:** **CCV6**	**EPA Sample ID:** **CCV006**				**Date:** **11/20/2015**		**20:36:33**	**Dilution:**	**1**
59. **Sample ID:** **CCB6**	**EPA Sample ID:** **CCB006**				**Date:** **11/20/2015**		**20:38:32**	**Dilution:**	**1**
60. **Sample ID:** **QK13012-016**	**EPA Sample ID:** **MBC7A7**				**Date:** **11/20/2015**		**20:41:53**	**Dilution:**	**1**
61. **Sample ID:** **QK13012-017**	**EPA Sample ID:** **MBC7A8**				**Date:** **11/20/2015**		**20:43:58**	**Dilution:**	**1**
62. **Sample ID:** **QK13012-018**	**EPA Sample ID:** **MBC7A9**				**Date:** **11/20/2015**		**20:46:24**	**Dilution:**	**1**
63. **Sample ID:** **QK13012-019**	**EPA Sample ID:** **MBC7B0**				**Date:** **11/20/2015**		**20:49:16**	**Dilution:**	**1**
64. **Sample ID:** **QK13012-020**	**EPA Sample ID:** **MBC7D0**				**Date:** **11/20/2015**		**20:51:42**	**Dilution:**	**1**
65. **Sample ID:** **CCV7**	**EPA Sample ID:** **CCV007**				**Date:** **11/20/2015**		**20:54:18**	**Dilution:**	**1**
66. **Sample ID:** **CCB7**	**EPA Sample ID:** **CCB007**				**Date:** **11/20/2015**		**20:56:23**	**Dilution:**	**1**
67. **Sample ID:** **QQ90140-001**	**EPA Sample ID:** **PBS001**				**Date:** **11/20/2015**		**20:58:43**	**Dilution:**	**1**
68. **Sample ID:** **QK13013-001**	**EPA Sample ID:** **MBC7C9**				**Date:** **11/20/2015**		**21:00:58**	**Dilution:**	**1**
69. **Sample ID:** **QK13013-001MS**	**EPA Sample ID:** **MBC7C9S**				**Date:** **11/20/2015**		**21:03:03**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA		3.5700	10	3.0	48.0	0.00	0.00	0.10
70. **Sample ID:** **QK13013-001DU**	**EPA Sample ID:** **MBC7C9D**				**Date:** **11/20/2015**		**21:05:18**	**Dilution:**	**1**
71. **Sample ID:** **QK13013-002**	**EPA Sample ID:** **MBC7D1**				**Date:** **11/20/2015**		**21:08:28**	**Dilution:**	**1**
72. **Sample ID:** **CCV8**	**EPA Sample ID:** **CCV008**				**Date:** **11/20/2015**		**21:10:53**	**Dilution:**	**1**
73. **Sample ID:** **CCB8**	**EPA Sample ID:** **CCB008**				**Date:** **11/20/2015**		**21:13:35**	**Dilution:**	**1**
74. **Sample ID:** **QK13013-003**	**EPA Sample ID:** **MBC7B1**				**Date:** **11/20/2015**		**21:16:06**	**Dilution:**	**1**
75. **Sample ID:** **QK13013-004**	**EPA Sample ID:** **MBC7B2**				**Date:** **11/20/2015**		**21:18:11**	**Dilution:**	**1**

Analytical Review Report

Data File: ***HG3112015ISMA1***

Analyst: ***COH***

Hg3

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
76. Sample ID:	**QK13013-005**	**EPA Sample ID:**	**MBC7B3**		**Date:**	**11/20/2015**	**21:20:12**	**Dilution:**	**1**
77. Sample ID:	**QK13013-006**	**EPA Sample ID:**	**MBC7B4**		**Date:**	**11/20/2015**	**21:22:23**	**Dilution:**	**1**
78. Sample ID:	**QK13013-007**	**EPA Sample ID:**	**MBC7B6**		**Date:**	**11/20/2015**	**21:24:39**	**Dilution:**	**1**
79. Sample ID:	**QK13013-008**	**EPA Sample ID:**	**MBC7H8**		**Date:**	**11/20/2015**	**21:27:02**	**Dilution:**	**1**
80. Sample ID:	**QK13013-009**	**EPA Sample ID:**	**QK13013009**		**Date:**	**11/20/2015**	**21:29:17**	**Dilution:**	**1**
81. Sample ID:	**QK13013-010**	**EPA Sample ID:**	**QK13013010**		**Date:**	**11/20/2015**	**21:31:31**	**Dilution:**	**1**
82. Sample ID:	**QK13013-011**	**EPA Sample ID:**	**QK13013011**		**Date:**	**11/20/2015**	**21:33:35**	**Dilution:**	**1**
83. Sample ID:	**QK13013-012**	**EPA Sample ID:**	**QK13013012**		**Date:**	**11/20/2015**	**21:35:39**	**Dilution:**	**1**
84. Sample ID:	**CCV9**	**EPA Sample ID:**	**CCV009**		**Date:**	**11/20/2015**	**21:37:40**	**Dilution:**	**1**
85. Sample ID:	**CCB9**	**EPA Sample ID:**	**CCB009**		**Date:**	**11/20/2015**	**21:41:00**	**Dilution:**	**1**
86. Sample ID:	**QK13013-013**	**EPA Sample ID:**	**QK13013013**		**Date:**	**11/20/2015**	**21:43:04**	**Dilution:**	**1**
87. Sample ID:	**QK13013-014**	**EPA Sample ID:**	**QK13013014**		**Date:**	**11/20/2015**	**21:45:30**	**Dilution:**	**1**
88. Sample ID:	**QK13013-015**	**EPA Sample ID:**	**QK13013015**		**Date:**	**11/20/2015**	**21:48:22**	**Dilution:**	**1**
89. Sample ID:	**QK13013-016**	**EPA Sample ID:**	**QK13013016**		**Date:**	**11/20/2015**	**21:50:36**	**Dilution:**	**1**
90. Sample ID:	**QK13013-017**	**EPA Sample ID:**	**QK13013017**		**Date:**	**11/20/2015**	**21:52:39**	**Dilution:**	**1**
91. Sample ID:	**QK13013-018**	**EPA Sample ID:**	**QK13013018**		**Date:**	**11/20/2015**	**21:55:23**	**Dilution:**	**1**
92. Sample ID:	**QK13013-019**	**EPA Sample ID:**	**QK13013019**		**Date:**	**11/20/2015**	**21:57:26**	**Dilution:**	**1**
93. Sample ID:	**QK13013-020**	**EPA Sample ID:**	**QK13013020**		**Date:**	**11/20/2015**	**22:00:08**	**Dilution:**	**1**
94. Sample ID:	**CCV10**	**EPA Sample ID:**	**CCV010**		**Date:**	**11/20/2015**	**22:02:15**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA		4.0000	10	5.0	80.0	0.00	0.02	0.20
95. Sample ID:	**CCB10**	**EPA Sample ID:**	**CCB010**		**Date:**	**11/20/2015**	**22:05:05**	**Dilution:**	**1**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Prep Batch: 90140

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Printed: 11/30/15 1427

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Chem ID: IM6430-01)11/22/15) IM6215-01(**Balance ID:**Balance #9B15)
Hot Block ID: Hot Block #4
Filter Paper Lot Num: 50630759
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90140-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QK13013-001	Sample	MBC7C9	1	ISM02.2 HG	0.5130		0.0	50	12/08/2015 1530	11/17/2015	
QK13013-001MS	MS	MBC7C9S	1	ISM02.2 HG	0.5840	15HG1512(11	3.0	50			pipette:247
QK13013-001DU	Duplicate	MBC7C9D	1	ISM02.2 HG	0.5820		0.0	50			
QK13013-002	Sample	MBC7D1	1	ISM02.2 HG	0.5310		0.0	50	12/08/2015 1540	11/17/2015	
QK13013-003	Sample	MBC7B1	1	ISM02.2 HG	0.5640		0.0	50	12/09/2015 1145	11/17/2015	
QK13013-004	Sample	MBC7B2	1	ISM02.2 HG	0.5600		0.0	50	12/09/2015 1205	11/17/2015	
QK13013-005	Sample	MBC7B3	1	ISM02.2 HG	0.5950		0.0	50	12/09/2015 1155	11/17/2015	
QK13013-006	Sample	MBC7B4	1	ISM02.2 HG	0.5460		0.0	50	12/09/2015 1230	11/17/2015	
QK13013-007	Sample	MBC7B6	1	ISM02.2 HG	0.5360		0.0	50	12/09/2015 1230	11/17/2015	
QK13013-008	Sample	MBC7H8	1	ISM02.2 HG	0.5610		0.0	50	12/09/2015 1215	11/17/2015	
QQ90140-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ90140-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	10.0	50			S05
QQ90140-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	5.0	50			S04
QQ90140-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	1.0	50			S03
QQ90140-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	0.5	50			S02
QQ90140-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	0.2	50			S01
QQ90140-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ90140-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ90140-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ90140-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1512(11	5.0	50			CCV

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/30/15 1427

Prep Batch: 90140

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/20/2015 1526
End Date: 11/20/2015 1556
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0
Chem ID: IM6430-01)11/22/15) IM6215-01(**Balance ID:**Balance #9B15)
Hot Block ID: Hot Block #4
Filter Paper Lot Num: 50630759
Digestion Temperature (°C): 94

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QK17017-009	Sample	MBC7B9	1	ISM02.2 HG	0.5970		0.0	50	12/12/2015 1000	11/20/2015	
QK17017-010	Sample	MBC7C0	1	ISM02.2 HG	0.5820		0.0	50	12/12/2015 1030	11/20/2015	
QK17017-011	Sample	MBC7C1	1	ISM02.2 HG	0.5610		0.0	50	12/12/2015 1050	11/20/2015	
QK17017-012	Sample	MBC7C2	1	ISM02.2 HG	0.5140		0.0	50	12/12/2015 1040	11/20/2015	
QK17017-013	Sample	MBC7C3	1	ISM02.2 HG	0.5990		0.0	50	12/12/2015 1140	11/20/2015	
QK17017-014	Sample	MBC7C4	1	ISM02.2 HG	0.5960		0.0	50	12/12/2015 1200	11/20/2015	
QK17017-015	Sample	MBC7C5	1	ISM02.2 HG	0.5520		0.0	50	12/12/2015 1150	11/20/2015	
QK17017-016	Sample	MBC7C6	1	ISM02.2 HG	0.5920		0.0	50	12/12/2015 1215	11/20/2015	
QK17017-017	Sample	MBC7C7	1	ISM02.2 HG	0.5730		0.0	50	12/12/2015 1235	11/20/2015	
QK17017-018	Sample	MBC7C8	1	ISM02.2 HG	0.5350		0.0	50	12/12/2015 1225	11/20/2015	
QK17017-019	Sample	MBC7D2	1	ISM02.2 HG	0.5980		0.0	50	12/12/2015 1600	11/20/2015	

(end of report)

Total Samples: 19

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IM6366-01) (1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID	
11/17/15	KDB	ISHG1220	1000	8	100	80	15HG	1501
↓	↓	ISHG1500	100	2	↓	2	15HG	1502
11/18/15	KDB	15-138 (7/16)	1000 µg/mL	1	1000	1000	15HG	1503
↓	↓	15-134 (8/16)	1000 µg/mL	1	1000	1000	15HG	1504
11/18/15	KDB	ISHG1503	1000	20	100	200	15HG	1505
↓	↓	↓	~~15~~	15	↓	150	15HG	1506
↓	↓	↓	~~10~~	10	↓	100	15HG	1507
↓	↓	↓	~~5~~	5	↓	50	15HG	1508
↓	↓	↓	+	1	↓	10	15HG	1509
↓	↓	ISHG1504	1000	50	↓	500	15HG	1510
↓	↓	↓	↓	10	↓	100	15HG	1511
11/20/15	CEH	ISHG1503	1000	10	100	100	15HG	1512
11/20/15	CEH	ISHG1503	1000	10	100	100	15HG	1513
↓	↓	ISHG1513	100	10	↓	10	15HG	1514
↓	↓	↓	↓	5	↓	5	15HG	1515
↓	↓	↓	↓	1	↓	1	15HG	1516
↓	↓	↓	↓	0.5	↓	0.5	15HG	1517
↓	↓	↓	↓	0.2	↓	0.2	15HG	1518
↓	↓	ICV5-0508	400	1	↓	4	15HG	1519
11/24/15	KDB	ISHG1503	1000	10	100	100	15HG	1520

MISCELLANEOUS

Percent Solids Determination Log (if applicable)

Shipping Documents (Airbills –Original)

Sample Tags (if applicable)

Sample Log-in sheet (lab)

Internal Chain of Custody

Other Records

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89624

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:15:01 PM

Start Date: 11/13/2015 2219 **End Date:** 11/14/2015 1341 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ89624-001		MB	1	4.41	4.41	0.0000	4.41	0	0	0	0	0.000		
QK13011-001		Sample	1	4.47	12.9274	8.4574	10.377	0	0	0	69.8441	69.8		
QK13011-002		Sample	1	4.36	14.2251	9.8651	11.5421	0	0	0	72.8031	72.8		
QK13011-003		Sample	1	4.36	11.6914	7.3314	8.9735	0	0	0	62.9279	62.9		
QK13011-004		Sample	1	4.43	13.7712	9.3412	8.9079	0	0	0	47.937	47.9		
QK13011-005		Sample	1	4.42	13.1611	8.7411	9.1915	0	0	0	54.5869	54.6		
QK13011-005DU		Duplicate	1	4.4	13.2908	8.8908	9.3101	0	0	0	55.2267	55.2	1.17	
QK13011-006		Sample	1	4.45	13.9242	9.4742	9.4727	0	0	0	53.0145	53.0		
QK13011-007		Sample	1	4.39	13.162	8.7720	8.439	0	0	0	46.1582	46.2		
QK13011-008		Sample	1	4.42	13.7538	9.3338	8.8521	0	0	0	47.4844	47.5		
QK13011-009		Sample	1	4.37	12.7949	8.4249	8.6014	0	0	0	50.2249	50.2		
QK13011-010		Sample	1	4.35	9.9124	5.5624	6.1752	0	0	0	32.8131	32.8		
QK13011-011		Sample	1	4.41	14.0947	9.6847	10.4895	0	0	0	62.7742	62.8		
QK13011-012		Sample	1	4.5	13.455	8.9550	9.6801	0	0	0	57.8458	57.8		
QK13011-013		Sample	1	4.45	12.2852	7.8352	8.3801	0	0	0	50.1595	50.2		
QK13011-014		Sample	1	4.37	12.7764	8.4064	10.5087	0	0	0	73.0241	73.0		
QK13011-015		Sample	1	4.38	12.4001	8.0201	9.0833	0	0	0	58.6439	58.6		
QK13011-015DU		Duplicate	1	4.45	14.343	9.8930	9.995	0	0	0	56.0497	56.0	4.52	
QK13011-016		Sample	1	4.39	13.7319	9.3419	9.0053	0	0	0	49.4042	49.4		
QK13011-017		Sample	1	4.37	11.5344	7.1644	9.7396	0	0	0	74.9483	74.9		
QK13011-018		Sample	1	4.41	13.3416	8.9316	11.5371	0	0	0	79.7964	79.8		
QK13011-019		Sample	1	4.48	13.4482	8.9682	10.9916	0	0	0	72.6076	72.6		
QK13011-020		Sample	1	4.47	13.3241	8.8541	9.5476	0	0	0	57.3474	57.3		
QK13012-002		Sample	1	4.51	13.5961	9.0861	10.7308	0	0	0	68.465	68.5		
QK13012-003		Sample	1	4.45	14.1965	9.7465	12.3969	0	0	0	81.5359	81.5		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89624

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:15:01 PM

Start Date: 11/13/2015 2219 **End Date:** 11/14/2015 1341 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK13012-004		Sample	1	4.38	12.8388	8.4588	7.0849	0	0	0	31.9773	32.0		
QK13012-005		Sample	1	4.38	12.5807	8.2007	7.4697	0	0	0	37.676	37.7		
QK13012-006		Sample	1	4.48	12.4041	7.9241	7.6359	0	0	0	39.8266	39.8		
QK13012-006DU		Duplicate	1	4.45	9.6736	5.2236	6.4305	0	0	0	37.9144	37.9	4.92	
QK13012-007		Sample	1	4.39	12.9756	8.5856	7.2865	0	0	0	33.7367	33.7		
QK13012-008		Sample	1	4.38	12.0519	7.6719	7.1801	0	0	0	36.4981	36.5		
QK13012-009		Sample	1	4.44	12.633	8.1930	7.3536	0	0	0	35.562	35.6		
QK13012-010		Sample	1	4.46	13.5295	9.0695	6.5409	0	0	0	22.9439	22.9		
QK13012-011		Sample	1	4.47	13.7815	9.3115	8.5939	0	0	0	44.2882	44.3		
QK13012-012		Sample	1	4.36	13.5034	9.1434	7.3087	0	0	0	32.2494	32.2		
QK13012-013		Sample	1	4.39	12.6632	8.2732	10.9274	0	0	0	79.019	79.0		
QK13012-014		Sample	1	4.41	12.4145	8.0045	10.5471	0	0	0	76.6706	76.7		
QK13012-015		Sample	1	4.41	13.836	9.4260	12.5387	0	0	0	86.237	86.2		
QK13012-016		Sample	1	4.51	13.6369	9.1269	12.7118	0	0	0	89.864	89.9		
QK13012-016DU		Duplicate	1	4.46	14.4338	9.9738	13.3288	0	0	0	88.9209	88.9	1.05	
QK13012-017		Sample	1	4.45	14.0513	9.6013	10.9019	0	0	0	67.1981	67.2		
QK13012-018		Sample	1	4.41	12.0864	7.6764	9.0795	0	0	0	60.8292	60.8		
QK13012-019		Sample	1	4.49	11.7812	7.2912	9.0702	0	0	0	62.8181	62.8		
QK13012-020		Sample	1	4.4	11.5285	7.1285	9.9291	0	0	0	77.5633	77.6		
QK13013-001		Sample	1	4.46	11.121	6.6610	9.8436	0	0	0	80.8226	80.8		
QK13013-002		Sample	1	4.4	14.2943	9.8943	12.8962	0	0	0	85.8696	85.9		
QK13040-024		Sample	1	4.39	14.2779	9.8879	12.1781	0	0	0	78.7639	78.8		
QK13040-024DU		Duplicate	1	4.49	11.8548	7.3648	10.3095	0	0	0	79.0177	79.0	0.32	
QK13063-001		Sample	1	4.46	13.4403	8.9803	9.053	0	0	0	51.1452	51.1		

Total Items: 49 (23 samples)

(end of report)

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89640

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:14:17 PM

Start Date: 11/14/2015 1648 **End Date:** 11/15/2015 1733 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ89640-001		MB	1	4.39	4.39	0.0000	4.2817	0	0	0	0	0.000		
QK13013-003		Sample	1	4.39	14.3219	9.9319	12.4471	0	0	0	81.1234	81.1		
QK13013-004		Sample	1	4.44	12.8393	8.3993	11.3719	0	0	0	82.5294	82.5		
QK13013-005		Sample	1	4.49	14.207	9.7170	12.4467	0	0	0	81.8843	81.9		
QK13013-006		Sample	1	4.42	12.1389	7.7189	10.4659	0	0	0	78.3259	78.3		
QK13013-006DU		Duplicate	1	4.47	11.5991	7.1291	9.977	0	0	0	77.2467	77.2	1.39	
QK13013-007		Sample	1	4.41	13.3865	8.9765	11.0206	0	0	0	73.6434	73.6		
QK13013-008		Sample	1	4.49	12.2439	7.7539	10.83	0	0	0	81.7653	81.8		
QK12021-001		Sample	1	4.41	9.4115	5.0015	5.2307	0	0	0	16.409	16.4		
QK13001-001		Sample	1	4.49	14.4738	9.9838	12.4459	0	0	0	79.688	79.7		
QK13001-002		Sample	1	4.5	12.1987	7.6987	10.4256	0	0	0	76.9688	77.0		
QK13001-003		Sample	1	4.44	12.5539	8.1139	11.3624	0	0	0	85.3153	85.3		
QK13001-004		Sample	1	4.37	12.7599	8.3899	11.5974	0	0	0	86.144	86.1		
QK13001-005		Sample	1	4.44	13.6877	9.2477	11.3718	0	0	0	74.957	75.0		
QK13001-006		Sample	1	4.36	12.7302	8.3702	10.9441	0	0	0	78.6612	78.7		
QK13001-006DU		Duplicate	1	4.47	14.3058	9.8358	11.7383	0	0	0	73.8963	73.9	6.25	
QK13001-008		Sample	1	4.39	11.4706	7.0806	10.5662	0	0	0	87.227	87.2		
QK13001-009		Sample	1	4.45	12.611	8.1610	11.3003	0	0	0	83.9394	83.9		
QK13001-010		Sample	1	4.49	12.8895	8.3995	11.9312	0	0	0	88.5909	88.6		
QK13001-011		Sample	1	4.42	12.5177	8.0977	11.3259	0	0	0	85.2822	85.3		
QK13001-012		Sample	1	4.39	13.0388	8.6488	11.2541	0	0	0	79.3647	79.4		
QK13001-013		Sample	1	4.37	14.3355	9.9655	12.1918	0	0	0	78.4887	78.5		
QK13001-014		Sample	1	4.47	12.1074	7.6374	10.4491	0	0	0	78.2871	78.3		
QK13001-015		Sample	1	4.5	12.0152	7.5152	10.5611	0	0	0	80.6512	80.7		
QK13028-001		Sample	1	4.58	12.7159	8.1359	9.9459	0	0	0	65.9533	66.0		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89640

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:14:17 PM

Start Date: 11/14/2015 1648 **End Date:** 11/15/2015 1733 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK13028-002		Sample	1	4.44	14.1583	9.7183	11.3687	0	0	0	71.2953	71.3		
QK13028-003		Sample	1	4.39	12.2706	7.8806	9.7306	0	0	0	67.7689	67.8		
QK13028-004		Sample	1	4.46	10.2261	5.7661	8.3359	0	0	0	67.2187	67.2		
QK13028-005		Sample	1	4.4	9.4926	5.0926	8.1209	0	0	0	73.0648	73.1		
QK13028-006		Sample	1	4.43	14.2697	9.8397	11.0309	0	0	0	67.0843	67.1		
QK13002-001		Sample	1	4.38	13.5121	9.1321	11.7226	0	0	0	80.4042	80.4		
QK13002-002		Sample	1	4.36	14.3562	9.9962	12.7469	0	0	0	83.9008	83.9		
QK13002-002DU		Duplicate	1	4.44	11.2457	6.8057	10.0196	0	0	0	81.9842	82.0	2.31	
QK13002-003		Sample	1	4.44	13.5674	9.1274	12.02	0	0	0	83.0466	83.0		
QK13002-004		Sample	1	4.4	12.2688	7.8688	10.9003	0	0	0	82.6085	82.6		
QK13002-005		Sample	1	4.39	13.3742	8.9842	11.8313	0	0	0	82.8265	82.8		
QK13002-006		Sample	1	4.45	13.5733	9.1233	11.1668	0	0	0	73.6224	73.6		
QK13002-007		Sample	1	4.5	13.648	9.1480	12.0365	0	0	0	82.3841	82.4		
QK13002-008		Sample	1	4.38	9.5609	5.1809	8.5441	0	0	0	80.374	80.4		
QK13002-010		Sample	1	4.42	13.9943	9.5743	12.2704	0	0	0	81.9945	82.0		
QK13002-011		Sample	1	4.447	13.3561	8.9091	11.6842	0	0	0	81.2337	81.2		
QK13002-012		Sample	1	4.49	14.0536	9.5636	12.3664	0	0	0	82.3581	82.4		
QK13002-013		Sample	1	4.48	14.203	9.7230	12.6655	0	0	0	84.1869	84.2		
QK13002-013DU		Duplicate	1	4.41	14.2587	9.8487	12.593	0	0	0	83.0871	83.1	1.31	
QK13059-001		Sample	1	4.43	13.4408	9.0108	12.6901	0	0	0	91.6688	91.7		
QK13064-001		Sample	1	4.39	13.113	8.7230	12.4919	0	0	0	92.8797	92.9		
QK13064-002		Sample	1	4.42	12.7335	8.3135	12.1084	0	0	0	92.4809	92.5		
QK11014-002		Sample	1	4.46	13.9745	9.5145	13.3361	0	0	0	93.2902	93.3		
QK11014-003		Sample	1	4.45	13.53	9.0800	13.248	0	0	0	96.8942	96.9		
QK11014-004		Sample	1	4.47	13.7596	9.2896	13.5947	0	0	0	98.2248	98.2		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89640

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:14:17 PM

Start Date: 11/14/2015 1648 **End Date:** 11/15/2015 1733 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK11014-004DU		Duplicate	1	4.43	13.133	8.7030	12.977	0	0	0	98.2075	98.2	0.02	
QK11014-005		Sample	1	4.39	13.4106	9.0206	12.7487	0	0	0	92.6623	92.7		
QK12014-022		Sample	2	4.4	12.3952	7.9952	11.6642	0	0	0	90.857	90.9		
QK12015-013		Sample	1	4.36	13.0089	8.6489	11.9278	0	0	0	87.5001	87.5		
QK12015-014		Sample	1	4.49	13.0807	8.5907	12.5884	0	0	0	94.2693	94.3		
QK12015-015		Sample	1	4.43	13.5181	9.0881	13.1014	0	0	0	95.4148	95.4		
QK12015-016		Sample	1	4.49	12.8048	8.3148	11.7599	0	0	0	87.4332	87.4		
QK12015-016DU		Duplicate	1	4.39	12.5215	8.1315	11.4553	0	0	0	86.888	86.9	0.63	
QK12015-017		Sample	1	4.51	12.7679	8.2579	11.9956	0	0	0	90.6477	90.6		
QK12015-018		Sample	1	4.4	12.6799	8.2799	12.3755	0	0	0	96.3236	96.3		
QK12015-019		Sample	1	4.4	13.3102	8.9102	11.918	0	0	0	84.3752	84.4		
QK12015-020		Sample	1	4.4	12.4329	8.0329	11.9455	0	0	0	93.9324	93.9		
QK13004-008		Sample	1	4.46	13.9171	9.4571	11.1925	0	0	0	71.1898	71.2		
QK13004-009		Sample	1	4.45	12.3146	7.8646	10.8939	0	0	0	81.9355	81.9		
QK13004-010		Sample	1	4.37	13.9917	9.6217	11.6692	0	0	0	75.8618	75.9		
QK13004-011		Sample	1	4.38	13.0002	8.6202	11.5262	0	0	0	82.9006	82.9		
QK13004-013		Sample	1	4.44	12.3398	7.8998	10.923	0	0	0	82.0653	82.1		
QK13004-014		Sample	1	4.42	13.1529	8.7329	11.3098	0	0	0	78.8947	78.9		
QK13004-015		Sample	1	4.41	12.5491	8.1391	11.4384	0	0	0	86.3535	86.4		
QK13020-001		Sample	1	4.51	13.3466	8.8366	11.286	0	0	0	76.681	76.7		
QK13025-001		Sample	1	4.42	12.0957	7.6757	11.1062	0	0	0	87.1086	87.1		
QK13025-002		Sample	1	4.38	13.4828	9.1028	11.6544	0	0	0	79.9138	79.9		
QK13025-003		Sample	1	4.38	14.1074	9.7274	12.9461	0	0	0	88.0615	88.1		
QK13025-003DU		Duplicate	1	4.41	13.3005	8.8905	12.3165	0	0	0	88.932	88.9	0.98	
QK13025-004		Sample	1	4.45	12.9084	8.4584	11.9442	0	0	0	88.6006	88.6		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89640

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:14:17 PM

Start Date: 11/14/2015 1648 **End Date:** 11/15/2015 1733 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK13025-005		Sample	1	4.4	12.5026	8.1026	10.972	0	0	0	81.1097	81.1		
QK13025-006		Sample	1	4.4	14.2913	9.8913	12.9921	0	0	0	86.8652	86.9		
QK13025-007		Sample	1	4.44	12.9279	8.4879	12.4857	0	0	0	94.7902	94.8		
QK13025-008		Sample	1	4.43	12.7017	8.2717	12.1579	0	0	0	93.4257	93.4		
QK13025-009		Sample	1	4.38	13.6143	9.2343	12.9477	0	0	0	92.7812	92.8		
QK13025-010		Sample	1	4.45	13.6486	9.1986	12.8885	0	0	0	91.7367	91.7		
QK13025-011		Sample	1	4.45	11.995	7.5450	11.3382	0	0	0	91.2948	91.3		
QK13025-012		Sample	1	4.43	11.0227	6.5927	10.4805	0	0	0	91.7757	91.8		
QK13025-013		Sample	1	4.41	14.3916	9.9816	12.9586	0	0	0	85.6435	85.6		
QK13025-013DU		Duplicate	1	4.39	11.5926	7.2026	10.6113	0	0	0	86.3757	86.4	0.85	
QK13025-014		Sample	1	4.4	11.4331	7.0331	10.8006	0	0	0	91.0068	91.0		
QK13025-015		Sample	1	4.41	12.2744	7.8644	11.6136	0	0	0	91.5975	91.6		
QK14004-001		Sample	1	4.42	13.463	9.0430	13.0662	0	0	0	95.612	95.6		
QK13015-001		Sample	1	4.51	13.6136	9.1036	10.651	0	0	0	67.4568	67.5		
QK13015-002		Sample	1	4.47	11.0994	6.6294	7.1996	0	0	0	41.1741	41.2		
QK13015-003		Sample	1	4.38	10.9183	6.5383	10.5106	0	0	0	93.7644	93.8		
QK13015-004		Sample	1	4.45	12.51	8.0600	11.996	0	0	0	93.6228	93.6		
QK13015-004DU		Duplicate	1	4.46	13.7478	9.2878	13.1207	0	0	0	93.2481	93.2	0.40	
QK13015-005		Sample	1	4.39	12.8526	8.4626	10.6779	0	0	0	74.3022	74.3		
QK13015-006		Sample	1	4.37	12.957	8.5870	11.7929	0	0	0	86.4434	86.4		
QK13015-007		Sample	1	4.39	11.0169	6.6269	10.7591	0	0	0	96.1097	96.1		
QK13015-008		Sample	1	4.43	13.413	8.9830	13.0063	0	0	0	95.4725	95.5		
QK13015-009		Sample	1	4.47	11.8563	7.3863	11.2722	0	0	0	92.0921	92.1		
QK13015-010		Sample	1	4.43	13.5596	9.1296	12.8678	0	0	0	92.4224	92.4		
QK13015-011		Sample	1	4.46	11.9868	7.5268	11.3164	0	0	0	91.0931	91.1		

Analyst: EAW
Status: Open

Percent Solids Analytical Batch: 89640

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/30/2015 2:14:18 PM

Start Date: 11/14/2015 1648 **End Date:** 11/15/2015 1733 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QK13015-012		Sample	1	4.4	12.437	8.0370	12.0699	0	0	0	95.4323	95.4		
QK13015-013		Sample	1	4.49	12.6549	8.1649	7.8071	0	0	0	40.6263	40.6		
QK13015-015		Sample	1	4.39	13.8438	9.4538	12.9318	0	0	0	90.353	90.4		
QK13015-016		Sample	1	4.49	14.411	9.9210	10.8	0	0	0	63.6024	63.6		
QK13015-017		Sample	1	4.51	13.2531	8.7431	12.173	0	0	0	87.6462	87.6		
QK13015-018		Sample	1	4.43	13.3346	8.9046	12.84	0	0	0	94.4455	94.4		
QK13015-019		Sample	1	4.39	12.4611	8.0711	12.1063	0	0	0	95.604	95.6		
QK13015-020		Sample	1	4.5	13.4309	8.9309	11.9279	0	0	0	83.1707	83.2		
QK14002-001		Sample	1	4.5	12.842	8.3420	5.3392	0	0	0	10.0599	10.1		
QK14003-001		Sample	1	4.43	12.4186	7.9886	11.9852	0	0	0	94.5747	94.6		
QK14003-001DU		Duplicate	1	4.43	10.9991	6.5691	10.629	0	0	0	94.366	94.4	0.22	
QK14003-002		Sample	1	4.45	13.4033	8.9533	12.9259	0	0	0	94.6678	94.7		
QK14003-003		Sample	1	4.43	13.8385	9.4085	12.9721	0	0	0	90.7913	90.8		
QK14003-004		Sample	1	4.44	12.8053	8.3653	11.4728	0	0	0	84.0711	84.1		
QK14003-005		Sample	1	4.49	12.8735	8.3835	12.1046	0	0	0	90.8284	90.8		
QK14003-006		Sample	1	4.46	12.5665	8.1065	11.9798	0	0	0	92.7625	92.8		
QK14003-007		Sample	1	4.45	13.8595	9.4095	8.0868	0	0	0	38.6503	38.7		
QK14003-008		Sample	1	4.5	11.7744	7.2744	10.7864	0	0	0	86.4181	86.4		
QK11010-012		Sample	1	4.43	13.091	8.6610	12.2536	0	0	0	90.3313	90.3		
QK12045-004		Sample	1	4.39	13.2921	8.9021	12.2834	0	0	0	88.6689	88.7		

Total Items: 120 (91 samples)

(end of report)

UNITED STATES US

TO **BRAD B**
SHEALY ENVIRONMENTAL
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172

(803) 791-9700 REF:
INV:
PO: DEPT:

FedEx Express

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0200 8044 6775 2027

DSR
29172
CAE

XO USCA

SC-US

ORIGINAL DOCUMENTS INCLUDED IN CSR
COPY

ORIGIN ID:SWFA

UNITED STATES US

SHIP. DATE: 12NOV15
ACTWGT: 45.50 LB
CAD: /POS1621
DIMS: 22x14x14 IN

BILL THIRD PARTY

TO **BRAD BELDING**
SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172

(803) 791-9700 REF:
INV:
PO: DEPT:

FedEx Express

1 of 2

TRK# 0200 **8044 6775 2093**

FRI - 13 NOV 3:00P
STANDARD OVERNIGHT

MASTER

XH USCA

DSR
29172
SC-US **CAE**

11/13/15

Obtain recip.

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF

45.27
MK 2015

11/16/15

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monje		Log-in Date 11/13/15
Received By (Signature)		
Case Number 45717	SDG No. MBC763, MBC7C9	MA No. NA

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	804466775 2093
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	3.7
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/13/15
12. Time Received	0916

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7A5			QK13012 -014	OK
2	MBC7A6			-015	
3	MBC7A7			-016	
4	MBC7A8			-017	
5	MBC7A9			-018	
6	MBC7B0			-019	
7	MBC7C9 ~~MBC7D9~~		QK13013 -001	~~QK13012 -020~~	11/13/15
8	MBC0D0			QK13012 -020	
9	MBC0D1			QK13013 -002	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

mch 11/13/15

mch 11/13/15

mch 11/13/15

* Contact SMO and attach record of resolution

Reviewed By RS	Logbook No.
Date 11/16/15	Logbook Page No.

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name: Shealy Environmental		Page 1 of 1
Received By (Print Name): Lacey Goulding		Log-in Date: 11/14/15
Received By (Signature): Lacey Goulding		
Case Number: 45717	SDG No.: MBC7C9, MBC7F4	MA No.:

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8044 6775 2027
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	1.6 °C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/14/15
12. Time Received	0845

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7B1	NA	NA	QK13013-003	OK
2	MBC7B2			-004	
3	MBC7B3			-005	
4	MBC7B4			-006	
5	MBC7B6			-007	
6	MBC7G3	1.5		QK12004-010	
7	MBC7G4			-011	
8	MBC7G5			-012	
9	MBC7G6			-013	
10	MBC7H8	NA		QK13013-008	
11					
12					
13				11/14/15	
14				JDJ	
15					
16					
17					
18					
19					45717 MBC7F4
20					
21				11/16/15	
22					

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF

* Contact SMO and attach record of resolution

Reviewed By: MMN	Logbook No.: NK
Date: 11/16/15	Logbook Page No.: 100

Internal Chain-of-Custody Report

Printed: 11/27/2015 1859

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13013-006	% Solid Snaps	11/14/2015 14:12	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-008	% Solid Snaps	11/14/2015 14:12	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-007	% Solid Snaps	11/14/2015 14:12	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-003	% Solid Snaps	11/14/2015 14:12	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-001	% Solid Snaps	11/13/2015 20:44	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-006	% Solid Snaps	11/14/2015 14:12	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-002	% Solid Snaps	11/13/2015 20:44	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-004	% Solid Snaps	11/14/2015 14:12	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-005	% Solid Snaps	11/14/2015 14:13	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-003	% Solid Snaps	11/16/2015 15:12		Hazardous Solid	True	DMA
QK13013-006	% Solid Snaps	11/16/2015 15:17		Hazardous Solid	True	DMA
QK13013-001	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13013-004	% Solid Snaps	11/16/2015 15:15		Hazardous Solid	True	DMA
QK13013-005	% Solid Snaps	11/16/2015 15:18		Hazardous Solid	True	DMA
QK13013-008	% Solid Snaps	11/16/2015 15:12		Hazardous Solid	True	DMA
QK13013-006	% Solid Snaps	11/16/2015 15:17		Hazardous Solid	True	DMA
QK13013-002	% Solid Snaps	11/16/2015 15:09		Hazardous Solid	True	DMA
QK13013-007	% Solid Snaps	11/16/2015 15:16		Hazardous Solid	True	DMA
QK13013-002	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13013-006	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13013-007	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13013-008	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13013-001	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13013-001	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13013-008	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13013-007	9 oz G	11/17/2015 15:48	IM Prep	SR (WI # 1)	True	COH
QK13013-006	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13013-005	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13013-003	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13013-004	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13013-001	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13013-003	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13013-005	9 oz G	11/17/2015 14:25	SR (WI # 1)	IM Prep	True	COH
QK13013-001	9 oz G	11/17/2015 14:26	SR (WI # 1)	IM Prep	True	COH
QK13013-004	9 oz G	11/17/2015 15:48	IM Prep	SR (WI # 1)	True	COH
QK13013-002	9 oz G	11/17/2015 15:49	IM Prep	SR (WI # 1)	True	COH
QK13013-012	% Solid Snaps	11/17/2015 21:16	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-010	% Solid Snaps	11/17/2015 21:16	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-015	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-011	% Solid Snaps	11/17/2015 21:16	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-009	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-014	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-019	% Solid Snaps	11/17/2015 21:16	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-016	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-012	% Solid Snaps	11/17/2015 21:18	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-020	% Solid Snaps	11/17/2015 21:16	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-017	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-013	% Solid Snaps	11/17/2015 21:17	SR (WI # 1)	INM (WI # 2)	True	EAW
QK13013-017	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-011	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-003	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-001	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-006	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH

ICOC

Internal Chain-of-Custody Report

Printed: 11/27/2015 1859

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13013-018	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-010	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-020	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-007	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-014	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-015	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-009	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-001	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-005	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-016	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-019	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-012	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-013	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-002	9 oz G	11/20/2015 14:06	SR (WI # 1)	IM Prep	True	COH
QK13013-016	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-011	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-013	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-002	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13013-018	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13013-009	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-015	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-001	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-005	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13013-017	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13013-014	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-010	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-020	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-001	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13013-019	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13013-008	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13013-012	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-003	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-007	9 oz G	11/20/2015 14:47	IM Prep	SR (WI # 1)	True	COH
QK13013-006	9 oz G	11/20/2015 14:48	IM Prep	SR (WI # 1)	True	COH
QK13013-004	9 oz G	11/20/2015 14:51	SR (WI # 1)	IM Prep	True	COH
QK13013-008	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13013-004	9 oz G	11/20/2015 16:03	IM Prep	SR (WI # 1)	True	KDB
QK13013-012	% Solid Snaps	11/22/2015 20:27	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-010	% Solid Snaps	11/22/2015 20:30	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-013	% Solid Snaps	11/22/2015 20:32	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-010	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-017	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-009	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-017	% Solid Snaps	11/22/2015 20:27	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-015	% Solid Snaps	11/22/2015 20:30	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-014	% Solid Snaps	11/22/2015 20:32	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-020	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-013	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-018	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-016	% Solid Snaps	11/22/2015 20:27	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-020	% Solid Snaps	11/22/2015 20:30	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-019	% Solid Snaps	11/22/2015 20:30	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-009	% Solid Snaps	11/22/2015 20:32	SR (WI # 1)	INM (WI # 2)	True	DMA

Internal Chain-of-Custody Report

Printed: 11/27/2015 1859

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK13013-012	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-011	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-016	9 oz G	11/23/2015 09:46	SR (WI # 1)	IM Prep	True	COH
QK13013-012	% Solid Snaps	11/22/2015 20:27	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-018	% Solid Snaps	11/22/2015 20:30	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-011	% Solid Snaps	11/22/2015 20:31	SR (WI # 1)	INM (WI # 2)	True	DMA
QK13013-014	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-019	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH
QK13013-015	9 oz G	11/23/2015 09:25	SR (WI # 1)	IM Prep	True	COH

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealyenvironmental.com

REFERENCE 67

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

SDG Cover Page
Traffic Report/Chain of Custody
Sample Log-In Sheet (DC-1)
CSF Inventory Sheet (DC-2)
SDG Narrative

The following analysis are included in this package, if applicable:

ICP-AES Data
ICP-MS Data
Mercury Data
Cyanide Data
Miscellaneous Data

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: N/A SDG No.: MBC7E7

SOW No.: ISM02.2

Analysis Method

EPA Sample No.	Lab Sample ID	ICP-AES	ICP-MS	Mercury	Cyanide
MBC7E7	QJ31006-001	X		X	
MBC7E8	QJ31006-002	X		X	
MBC7F0	QJ31006-003	X		X	
MBC7F2	QJ31006-004	X		X	
MBC7F3	QJ31006-005	X		X	
MBC7H1	QJ31006-006	X		X	
MBC7H2	QJ31006-007	X		X	
MBC7H3	QJ31006-008	X		X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Robert Zhu

Date: 11/10/2015 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	MBC7E7	Case Number	45717	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	7 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	MBC7E7	Last Sample Received in SDG	MBC7H3
First Sample Receipt Date	10/31/2015	Last Sample Receipt Date	10/31/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

	CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	MBC7E7	Soil	ICP AES, Hg	N/A	N/A
2	MBC7E8	Soil	ICP AES, Hg	N/A	N/A
3	MBC7F0	Soil	ICP AES, Hg	N/A	N/A
4	MBC7F2	Soil	ICP AES, Hg	N/A	N/A
5	MBC7F3	Soil	ICP AES, Hg	N/A	N/A
6	MBC7H1	Soil	ICP AES, Hg	N/A	N/A
7	MBC7H2	Soil	ICP AES, Hg	N/A	N/A
8	MBC7H3	Soil	ICP AES, Hg	N/A	N/A
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature Lyndam Yates Date 11.04.15

MBC765, MBC7E7

USEPA CLP COC (LAB COPY)
Date Shipped: 10/30/2015
Carrier Name: FedEx
Airbill No: 8750 6337 1337

CHAIN OF CUSTODY RECORD

Case #: 45717
Cooler # 1 of 1

EPW14035

No: 2-103015-103522-0004
Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SS06B	MBC7E6	Soil/ Region 2 SAT	Grab	TAL(7)	1071 (4 C) (1)	0269-S06	10/30/2015 09:00	
0269-SS07A	MBC7E7	Soil/ Region 2 SAT	Grab	TAL(7)	1079 (4 C) (2)	0269-S07	10/29/2015 15:40	
0269-SS07B	MBC7E8	Soil/ Region 2 SAT	Grab	TAL(7)	1083 (4 C) (1)	0269-S07	10/29/2015 15:45	
0269-SS08B	MBC7F0	Soil/ Region 2 SAT	Grab	TAL(7)	1095 (4 C) (1)	0269-S08	10/29/2015 15:00	
0269-SS09B	MBC7F2	Soil/ Region 2 SAT	Grab	TAL(7)	1107 (4 C) (1)	0269-S09	10/29/2015 14:25	
0269-SS10A	MBC7F3	Soil/ Region 2 SAT	Grab	TAL(7)	1115 (4 C) (1)	0269-S10	10/30/2015 10:20	
0269-S11	MBC7H1	Soil/ Region 2 SAT	Grab	TAL(7)	1426 (4 C) (1)	0269-S10	10/30/2015 10:15	
0269-SS10B	MBC7H2	Soil/ Region 2 SAT	Grab	TAL(7)	1422 (4 C) (1)	0269-S10	10/30/2015 10:00	
0269-SS11A	MBC7H3	Soil/ Region 2 SAT	Grab	TAL(7)	1430 (4 C) (1)	0269-S10	10/30/2015 10:25	

COPY OF ORIGINAL DOCUMENT INCLUDED IN LOSF

Signature
Date 11-03-15

Sample(s) to be used for Lab QC: 0269-SS07A Tag 1079 - Special Instructions: MS/MSDs: BC765 and BC7E7

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TAL=TAL Inorganics (incl. Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	WESTON	10/30/15 1500	FedEx	10/30/15 1500	
			Laura Donkin	10/31/15 0830	OK

T = 2.3°C

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name: Shealy Environmental		Page 2 of 2
Received By (Print Name): Lacey Goulding		Log-in Date: 10/31/15
Received By (Signature): Lacey Goulding		
Case Number: 45717	SDG No.: MBC7E7	MA No.:

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8750 6337 1337
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.3
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	10/31/15
12. Time Received	0830

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7E8	NA	NA	QJ31006-002	OK
2	MBC7F0			-003	
3	MBC7F2			-004	
4	MBC7F3			-005	
5	MBC7H1			-006	
6	MBC7H2			-007	
7	MBC7H3			-008	
8					
9					
10					
11					
12					
13				JGB	
14				11/3/15	
15					
16					
17					
18					
19					
20					
21					
22					

* Contact SMO and attach record of resolution

Reviewed By:	Logbook No.:
Date: 11/3/15	Logbook Page No.:

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME Shealy Environmental Services, Inc.

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45717 SDG NO. MBC7E7

MA NO. NA

SOW NO. ISM02.2

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	SDG Cover Page	2	3		
2.	Traffic Report/Chain of Custody Record(s)	4	5		
3.	Sample Log-In Sheet (DC-1)	6	6		
4.	CSF Inventory Sheet (DC-2)	7	10		
5.	SDG Narrative	11	12		
Inorganic Analysis					
ICP-AES					
6.	Inorganic Analysis Data Sheet (Form 1-IN)	16	24	X	
7.	Initial and Continuing Calibration Verification (Form 2-IN)	26	28	X	
8.	Blanks (Form 3-IN)	29	30	X	
9.	ICP Interference Check Sample (Form 4-IN)	31	31	X	
10.	Matrix Spike Sample Recovery (Form 5A-IN)	32	32	X	
11.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	33	33	X	
12.	Duplicates (Form 6-IN)	34	34	X	
13.	Laboratory Control Sample (Form 7-IN)	35	35	X	
14.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	36	36	X	
15.	Method Detection Limit (Form 9-IN)	37	37	X	
16.	ICP-AES Interelement Correction Factors (Form 10A-IN)	38	38	X	
17.	ICP-AES Interelement Correction Factors (Form 10B-IN)	39	42	X	
18.	Analysis Log (Form 12-IN)	43	47	X	
19.	Initial Calibration (Form 15-IN)	48	51	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs.		CHECK	
	FROM	TO	LAB	REGION
20. Initial Calibration Summary (Form 16-IN)	52	52	X	
21. ICP-AES Raw Data	53	543	X	
22. ICP-AES Preparation Log Books, Preparation records, Analysis records, and PE Instructions	544	567	X	
ICP-MS				
23. Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
24. Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
25. Blanks (Form 3-IN)	N/A	N/A	X	
26. ICP Interference Check Sample (Form 4-IN)	N/A	N/A	X	
27. Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
28. Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
29. Duplicates (Form 6-IN)	N/A	N/A	X	
30. Laboratory Control Sample (Form 7-IN)	N/A	N/A	X	
31. ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	N/A	N/A	X	
32. Method Detection Limit (Form 9-IN)	N/A	N/A	X	
33. ICP-MS Internal Standard Association (Form 11-IN)	N/A	N/A	X	
34. Analysis Log (Form 12-IN)	N/A	N/A	X	
35. ICP-MS Tune (Form 13-IN)	N/A	N/A	X	
36. ICP-MS Internal Standards Relative Intensity Summary (Form 14-IN)	N/A	N/A	X	
37. Initial Calibration (Form 15-IN)	N/A	N/A	X	
38. Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
39. ICP-MS Raw Data	N/A	N/A	X	
40. ICP-MS Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Mercury	N/A	N/A	X	
41. Inorganic Analysis Data Sheet (Form 1-IN)	570	578	X	
42. Initial and Continuing Calibration Verification (Form 2-IN)	580	582	X	
43. Blanks (Form 3-IN)	583	584	X	
44. Matrix Spike Sample Recovery (Form 5A-IN)	585	585	X	
45. Duplicates (Form 6-IN)	586	586	X	
46. Method Detection Limit (Form 9-IN)	587	587	X	
47. Analysis Log (Form 12-IN)	588	592	X	
48. Initial Calibration (Form 15-IN)	591	592	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

49.	Initial Calibration Summary (Form 16-IN)	593	593	X	
50.	Mercury Raw Data	594	603	X	
51.	Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions	604	609	X	
Cyanide		N/A	N/A	X	
52.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
53.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
54.	Blanks (Form 3-IN)	N/A	N/A	X	
55.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
56.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
57.	Duplicates (Form 6-IN)	N/A	N/A	X	
58.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
59.	Analysis Log (Form 12-IN)	N/A	N/A	X	
60.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
61.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
62.	Cyanide Raw Data	N/A	N/A	X	
63.	Cyanide Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Additional		N/A	N/A	X	
64.	Percent Solids Determination Log	611	613	X	
65.	EPA Shipping/Receiving Documents	N/A	N/A		
	Airbill (No. of Shipments 1)	614	614	X	
	Sample Tags	N/A	N/A		
	Sample Log-In Sheet (Lab)	615	615	X	
66.	Misc. Shipping/Receiving Records (list all individual records) Communication Logs	N/A	N/A		
67.	Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	616	616	X	
68.	Other Records (describe or list)				
	Communication Logs	N/A	N/A		

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

69. Comments:

Completed by:
(CLP Lab) Robert Zhu, Technical Director 11/10/2015
(Signature) (Print Name & Title) (Date)

Audited by:
(EPA)
(Signature) (Print Name & Title) (Date)

Narrative

Shealy Environmental Services, Inc.

SDG Narrative
Date: 11/10/2015
Case 45717
SDG MBC7E7
SOW ISM02.2
Contract Number: EPA14035

ICP-AES Thermo Sci ICAP 7600 Software: iTEVA Version: 2.8.0.96 Operating System:Windows XP Professional Version: 5.1.2600 **MERCURY** Leeman Labs Hydra II Software: Envoy 2.0 Version: 6.1 Operating System: Windows 7 Professional	Water sample: Final concentration (ug/L) = C * DF Soil sample: Final concentration (mg/Kg) = $\frac{C * V * DF}{W * S}$ Where, C = the instrument readout in ug/L V = final sample volume in liter W = the wet sample weight (g) S = %solids/100 DF = Dilution Factor

Sample Receiving

The eight (8) soil samples in this SDG were received in a sealed shipping container on October 31, 2015 with a temperature of 2.3℃.

Target Analyte

Mercury is also required for this SDG. The target analytes for ICP-AES are listed below:

Target Analytes	ICP-AES
Aluminum	Yes
Antimony	Yes
Arsenic	Yes
Barium	Yes
Beryllium	Yes
Cadmium	Yes
Calcium	Yes
Chromium	Yes
Cobalt	Yes
Copper	Yes
Iron	Yes
Lead	Yes
Magnesium	Yes
Manganese	Yes
Nickel	Yes
Potassium	Yes
Selenium	Yes
Silver	Yes
Sodium	Yes

Thallium	Yes
Vanadium	Yes
Zinc	Yes

ICP-AES

IEC factors and background corrections were applied during the ICP-AES analyses. Raw data was not generated prior to the application of the background corrections.

Mercury

ICP-AES Metals

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
ICP Interference Check Sample (Form 4-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Post Digestion/Distillation Spike Sample Recovery (Form 5B-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)
Method Detection Limit (Form 9-IN)
ICP-AES Interelement Correction Factors (Form 10A-IN)
ICP-AES Interelement Correction Factors (Form 10B-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
ICP-AES Raw Data
ICP-AES Preparation Log Books, Preparation Records, Analysis Records

ICP-AES
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC7E7

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method: ICP-AES	ICP-MS	Mercury	Cyanide
MBC7E7	QJ31006-001	X			
MBC7E7D	QJ31006-001DU	X			
MBC7E7S	QJ31006-001MS	X			
MBC7E8	QJ31006-002	X			
MBC7F0	QJ31006-003	X			
MBC7F2	QJ31006-004	X			
MBC7F3	QJ31006-005	X			
MBC7H1	QJ31006-006	X			
MBC7H2	QJ31006-007	X			
MBC7H3	QJ31006-008	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Zhu Name: Robert Zhu

Date: 11/10/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-001

% Solids: 80.4 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	3280		*	11/09/2015	15:41:05
7440-36-0	Antimony	0.85		J*	11/09/2015	15:41:05
7440-38-2	Arsenic	6.3		*	11/09/2015	15:41:05
7440-39-3	Barium	30.4			11/09/2015	15:41:05
7440-41-7	Beryllium	0.22		J	11/09/2015	15:41:05
7440-43-9	Cadmium	0.075		J	11/09/2015	15:41:05
7440-70-2	Calcium	4350		*	11/09/2015	15:41:05
7440-47-3	Chromium	11.1		*	11/09/2015	15:41:05
7440-48-4	Cobalt	4.2		J	11/09/2015	15:41:05
7440-50-8	Copper	64.4		*	11/09/2015	15:41:05
7439-89-6	Iron	7600		*	11/09/2015	15:41:05
7439-92-1	Lead	238		*	11/09/2015	15:41:05
7439-95-4	Magnesium	1240			11/09/2015	15:41:05
7439-96-5	Manganese	162		*	11/09/2015	15:41:05
7440-02-0	Nickel	10.6			11/09/2015	15:41:05
7440-09-7	Potassium	508			11/09/2015	15:41:05
7782-49-2	Selenium	3.5		U	11/09/2015	15:41:05
7440-22-4	Silver	1.0		U	11/09/2015	15:41:05
7440-23-5	Sodium	84.0		J	11/09/2015	15:41:05
7440-28-0	Thallium	2.5		U	11/09/2015	15:41:05
7440-62-2	Vanadium	8.5			11/09/2015	15:41:05
7440-66-6	Zinc	46.4		*	11/09/2015	15:41:05

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-002

% Solids: 84.4 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7210		*	11/09/2015	16:05:08
7440-36-0	Antimony	11.6		U*D	11/09/2015	19:28:19
7440-38-2	Arsenic	12.1		*	11/09/2015	16:05:08
7440-39-3	Barium	28.1			11/09/2015	16:05:08
7440-41-7	Beryllium	0.37		J	11/09/2015	16:05:08
7440-43-9	Cadmium	0.096		JD	11/09/2015	19:28:19
7440-70-2	Calcium	1250		*	11/09/2015	16:05:08
7440-47-3	Chromium	23.7		*	11/09/2015	16:05:08
7440-48-4	Cobalt	5.4			11/09/2015	16:05:08
7440-50-8	Copper	42.4		*D	11/09/2015	19:28:19
7439-89-6	Iron	15600		*D	11/09/2015	19:28:19
7439-92-1	Lead	35.4		*D	11/09/2015	19:28:19
7439-95-4	Magnesium	3400			11/09/2015	16:05:08
7439-96-5	Manganese	249		*	11/09/2015	16:05:08
7440-02-0	Nickel	16.3		D	11/09/2015	19:28:19
7440-09-7	Potassium	776			11/09/2015	16:05:08
7782-49-2	Selenium	3.4		U	11/09/2015	16:05:08
7440-22-4	Silver	0.97		U	11/09/2015	16:05:08
7440-23-5	Sodium	63.0		J	11/09/2015	16:05:08
7440-28-0	Thallium	2.4		U	11/09/2015	16:05:08
7440-62-2	Vanadium	15.4			11/09/2015	16:05:08
7440-66-6	Zinc	71.8		*	11/09/2015	16:05:08

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-003

% Solids: 71.9 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	9770		*	11/09/2015	16:10:00
7440-36-0	Antimony	3.1		J*D	11/09/2015	19:33:06
7440-38-2	Arsenic	28.7		*	11/09/2015	16:10:00
7440-39-3	Barium	48.2			11/09/2015	16:10:00
7440-41-7	Beryllium	0.43		J	11/09/2015	16:10:00
7440-43-9	Cadmium	0.88		JD	11/09/2015	19:33:06
7440-70-2	Calcium	25300		*	11/09/2015	16:10:00
7440-47-3	Chromium	230		*	11/09/2015	16:10:00
7440-48-4	Cobalt	6.4			11/09/2015	16:10:00
7440-50-8	Copper	78.4		*D	11/09/2015	19:33:06
7439-89-6	Iron	20100		*D	11/09/2015	19:33:06
7439-92-1	Lead	245		*D	11/09/2015	19:33:06
7439-95-4	Magnesium	7550			11/09/2015	16:10:00
7439-96-5	Manganese	383		*	11/09/2015	16:10:00
7440-02-0	Nickel	15.3		D	11/09/2015	19:33:06
7440-09-7	Potassium	1080			11/09/2015	16:10:00
7782-49-2	Selenium	1.3		J	11/09/2015	16:10:00
7440-22-4	Silver	1.1		U	11/09/2015	16:10:00
7440-23-5	Sodium	357		J	11/09/2015	16:10:00
7440-28-0	Thallium	2.8		U	11/09/2015	16:10:00
7440-62-2	Vanadium	22.4			11/09/2015	16:10:00
7440-66-6	Zinc	132		*	11/09/2015	16:10:00

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-004

% Solids: 77.4 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	13000		*	11/09/2015	16:14:52
7440-36-0	Antimony	1.1		J*D	11/09/2015	19:37:49
7440-38-2	Arsenic	2.7		*	11/09/2015	16:14:52
7440-39-3	Barium	58.3			11/09/2015	16:14:52
7440-41-7	Beryllium	0.52		J	11/09/2015	16:14:52
7440-43-9	Cadmium	1.2		UD	11/09/2015	19:37:49
7440-70-2	Calcium	1220		*	11/09/2015	16:14:52
7440-47-3	Chromium	42.7		*	11/09/2015	16:14:52
7440-48-4	Cobalt	7.8			11/09/2015	16:14:52
7440-50-8	Copper	16.6		*D	11/09/2015	19:37:49
7439-89-6	Iron	24400		*D	11/09/2015	19:37:49
7439-92-1	Lead	12.5		*D	11/09/2015	19:37:49
7439-95-4	Magnesium	5570			11/09/2015	16:14:52
7439-96-5	Manganese	257		*	11/09/2015	16:14:52
7440-02-0	Nickel	21.9		D	11/09/2015	19:37:49
7440-09-7	Potassium	1100			11/09/2015	16:14:52
7782-49-2	Selenium	4.0		U	11/09/2015	16:14:52
7440-22-4	Silver	1.2		U	11/09/2015	16:14:52
7440-23-5	Sodium	53.9		J	11/09/2015	16:14:52
7440-28-0	Thallium	2.9		U	11/09/2015	16:14:52
7440-62-2	Vanadium	14.8			11/09/2015	16:14:52
7440-66-6	Zinc	56.4		*	11/09/2015	16:14:52

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-005

% Solids: 91.9 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	11300		*	11/09/2015	16:19:46
7440-36-0	Antimony	24.5		U*D	11/09/2015	19:42:34
7440-38-2	Arsenic	9.1		*	11/09/2015	16:19:46
7440-39-3	Barium	42.7			11/09/2015	16:19:46
7440-41-7	Beryllium	0.51			11/09/2015	16:19:46
7440-43-9	Cadmium	2.0		UD	11/09/2015	19:42:34
7440-70-2	Calcium	4150		*	11/09/2015	16:19:46
7440-47-3	Chromium	13.5		*	11/09/2015	16:19:46
7440-48-4	Cobalt	8.9			11/09/2015	16:19:46
7440-50-8	Copper	28.9		*D	11/09/2015	19:42:34
7439-89-6	Iron	25000		*D	11/09/2015	19:42:34
7439-92-1	Lead	19.1		*D	11/09/2015	19:42:34
7439-95-4	Magnesium	5660			11/09/2015	16:19:46
7439-96-5	Manganese	544		*	11/09/2015	16:19:46
7440-02-0	Nickel	21.0		D	11/09/2015	19:42:34
7440-09-7	Potassium	1250			11/09/2015	16:19:46
7782-49-2	Selenium	2.9		U	11/09/2015	16:19:46
7440-22-4	Silver	0.82		U	11/09/2015	16:19:46
7440-23-5	Sodium	31.6		J	11/09/2015	16:19:46
7440-28-0	Thallium	0.43		J	11/09/2015	16:19:46
7440-62-2	Vanadium	15.6			11/09/2015	16:19:46
7440-66-6	Zinc	68.7		*	11/09/2015	16:19:46

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-006

% Solids: 86.1 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	7540		*	11/09/2015	16:24:35
7440-36-0	Antimony	13.2		U*D	11/09/2015	19:47:22
7440-38-2	Arsenic	28.2		*	11/09/2015	16:24:35
7440-39-3	Barium	70.8			11/09/2015	16:24:35
7440-41-7	Beryllium	0.53		J	11/09/2015	16:24:35
7440-43-9	Cadmium	0.70		JD	11/09/2015	19:47:22
7440-70-2	Calcium	21900		*	11/09/2015	16:24:35
7440-47-3	Chromium	13.5		*	11/09/2015	16:24:35
7440-48-4	Cobalt	7.2			11/09/2015	16:24:35
7440-50-8	Copper	456		*D	11/09/2015	19:47:22
7439-89-6	Iron	18000		*D	11/09/2015	19:47:22
7439-92-1	Lead	70.4		*D	11/09/2015	19:47:22
7439-95-4	Magnesium	11300			11/09/2015	16:24:35
7439-96-5	Manganese	511		*	11/09/2015	16:24:35
7440-02-0	Nickel	18.2		D	11/09/2015	19:47:22
7440-09-7	Potassium	1020			11/09/2015	16:24:35
7782-49-2	Selenium	1.5		J	11/09/2015	16:24:35
7440-22-4	Silver	1.1		U	11/09/2015	16:24:35
7440-23-5	Sodium	72.3		J	11/09/2015	16:24:35
7440-28-0	Thallium	1.3		J	11/09/2015	16:24:35
7440-62-2	Vanadium	16.3			11/09/2015	16:24:35
7440-66-6	Zinc	105		*	11/09/2015	16:24:35

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-007

% Solids: 86.2 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	3920		*	11/09/2015	16:29:26
7440-36-0	Antimony	6.7		U*	11/09/2015	16:29:26
7440-38-2	Arsenic	22.1		*	11/09/2015	16:29:26
7440-39-3	Barium	111			11/09/2015	16:29:26
7440-41-7	Beryllium	0.53		J	11/09/2015	16:29:26
7440-43-9	Cadmium	0.052		J	11/09/2015	16:29:26
7440-70-2	Calcium	14400		*	11/09/2015	16:29:26
7440-47-3	Chromium	23.2		*	11/09/2015	16:29:26
7440-48-4	Cobalt	5.6		J	11/09/2015	16:29:26
7440-50-8	Copper	314		*	11/09/2015	16:29:26
7439-89-6	Iron	13100		*	11/09/2015	16:29:26
7439-92-1	Lead	153		*	11/09/2015	16:29:26
7439-95-4	Magnesium	2340			11/09/2015	16:29:26
7439-96-5	Manganese	186		*	11/09/2015	16:29:26
7440-02-0	Nickel	13.8			11/09/2015	16:29:26
7440-09-7	Potassium	574			11/09/2015	16:29:26
7782-49-2	Selenium	1.0		J	11/09/2015	16:29:26
7440-22-4	Silver	1.1		U	11/09/2015	16:29:26
7440-23-5	Sodium	93.6		J	11/09/2015	16:29:26
7440-28-0	Thallium	0.57		J	11/09/2015	16:29:26
7440-62-2	Vanadium	13.3			11/09/2015	16:29:26
7440-66-6	Zinc	45.5		*	11/09/2015	16:29:26

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-008

% Solids: 89.3 Date Received: 10/31/2015

Analytical Method: ICP-AES

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

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	12100		*	11/09/2015	16:34:09
7440-36-0	Antimony	26.3		U*D	11/09/2015	19:52:15
7440-38-2	Arsenic	8.4		*	11/09/2015	16:34:09
7440-39-3	Barium	43.6			11/09/2015	16:34:09
7440-41-7	Beryllium	0.49			11/09/2015	16:34:09
7440-43-9	Cadmium	2.2		UD	11/09/2015	19:52:15
7440-70-2	Calcium	4040		*	11/09/2015	16:34:09
7440-47-3	Chromium	13.4		*	11/09/2015	16:34:09
7440-48-4	Cobalt	10.0			11/09/2015	16:34:09
7440-50-8	Copper	28.6		*D	11/09/2015	19:52:15
7439-89-6	Iron	25500		*D	11/09/2015	19:52:15
7439-92-1	Lead	18.6		*D	11/09/2015	19:52:15
7439-95-4	Magnesium	5560			11/09/2015	16:34:09
7439-96-5	Manganese	654		*	11/09/2015	16:34:09
7440-02-0	Nickel	20.8		D	11/09/2015	19:52:15
7440-09-7	Potassium	1310			11/09/2015	16:34:09
7782-49-2	Selenium	0.62		J	11/09/2015	16:34:09
7440-22-4	Silver	0.88		U	11/09/2015	16:34:09
7440-23-5	Sodium	30.2		J	11/09/2015	16:34:09
7440-28-0	Thallium	0.67		J	11/09/2015	16:34:09
7440-62-2	Vanadium	15.7			11/09/2015	16:34:09
7440-66-6	Zinc	66.9		*	11/09/2015	16:34:09

NOTE: Hardness (total) is reported in mg/L

Comments:

ICP-AES
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5110915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2660	106	1	50000	49300	99	0	48200	96	1
Antimony	994	995	100	0	2500	2430	97	0	2420	97	0
Arsenic	999	1020	102	0	2500	2490	100	0	2460	98	0
Barium	497	514	103	1	10000	9870	99	0	9640	96	1
Beryllium	495	518	105	1	1000	1020	102	1	999	100	1
Cadmium	496	492	99	0	1000	984	98	0	983	98	0
Calcium	10000	10700	107	1	50000	50200	100	0	48700	97	1
Chromium	490	507	103	0	10000	10100	101	1	9970	100	1
Cobalt	499	497	100	0	5000	4810	96	0	4800	96	0
Copper	492	494	100	1	12500	12200	98	0	11600	93	3
Iron	5080	5300	104	1	25000	25200	101	0	24600	98	1
Lead	1000	960	96	0	10000	9420	94	0	9360	94	0
Magnesium	6070	6420	106	0	50000	50800	102	0	50400	101	1
Manganese	499	522	105	0	5000	4870	97	2	4870	97	2
Nickel	503	499	99	0	5000	4770	95	0	4710	94	0
Potassium	10000	10600	106	1	37500	37900	101	0	37300	99	2
Selenium	1030	1000	97	0	1250	1240	99	0	1220	98	0
Silver	501	508	101	0	750	752	100	1	745	99	1
Sodium	10100	11100	110	1	25000	26100	104	0	25900	104	1
Thallium	1030	1010	98	0	1000	930	93	0	935	94	0
Vanadium	501	509	102	0	2500	2510	100	1	2460	98	1
Zinc	1030	1020	100	0	5000	4920	98	0	4890	98	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5110915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	47700	95	2	48200	96	1
Antimony					2500	2420	97	0	2440	98	0
Arsenic					2500	2460	98	1	2490	100	0
Barium					10000	9720	97	2	10100	101	1
Beryllium					1000	996	100	1	1010	101	3
Cadmium					1000	985	99	0	991	99	0
Calcium					50000	48700	97	2	50000	100	1
Chromium					10000	10000	100	1	10100	101	2
Cobalt					5000	4810	96	0	4840	97	0
Copper					12500	11800	94	1	12000	96	2
Iron					25000	24400	98	2	24800	99	1
Lead					10000	9400	94	0	9480	95	0
Magnesium					50000	49900	100	2	50700	101	0
Manganese					5000	4830	97	1	4920	98	2
Nickel					5000	4740	95	1	4790	96	0
Potassium					37500	37600	100	2	39000	104	1
Selenium					1250	1220	98	1	1240	99	0
Silver					750	750	100	1	753	100	2
Sodium					25000	26000	104	2	27000	108	0
Thallium					1000	938	94	0	942	94	0
Vanadium					2500	2470	99	1	2490	100	2
Zinc					5000	4910	98	0	4950	99	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5110915A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	49000	98	1			
Antimony					2500	2510	100	0			
Arsenic					2500	2560	102	0			
Barium					10000	10200	102	1			
Beryllium					1000	1060	106	3			
Cadmium					1000	1020	102	0			
Calcium					50000	50400	101	1			
Chromium					10000	10600	106	2			
Cobalt					5000	4990	100	0			
Copper					12500	12500	100	2			
Iron					25000	24900	100	1			
Lead					10000	9760	98	0			
Magnesium					50000	51100	102	1			
Manganese					5000	5150	103	2			
Nickel					5000	4930	99	0			
Potassium					37500	39700	106	1			
Selenium					1250	1270	102	0			
Silver					750	788	105	2			
Sodium					25000	27500	110	1			
Thallium					1000	971	97	0			
Vanadium					2500	2610	104	2			
Zinc					5000	5100	102	0			

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Preparation Blank Matrix: SOIL

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

Analytical Method: ICP-AES Preparation Batch: 89048

Run Batch: I5110915A ISM Preparation Method 3050B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS	Q
Aluminum	200	U	200	U	200	U	200	U	20.0	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Barium	200	U	200	U	200	U	200	U	20.0	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.50	U
Calcium	5000	U	5000	U	5000	U	5000	U	10.7	J
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Cobalt	50.0	U	0.28	J	50.0	U	50.0	U	5.0	U
Copper	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Iron	100	U	100	U	100	U	100	U	10.0	U
Lead	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Magnesium	5000	U	5000	U	5000	U	5000	U	500	U
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	1.5	U
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	4.0	U
Potassium	148	J	123	J	5000	U	5000	U	500	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	3.5	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	500	U
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	2.5	U
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	5.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	6.0	U

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5110915A ISM Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID:	Q	ID:	Q
Aluminum			200	U	200	U				
Antimony			60.0	U	60.0	U				
Arsenic			10.0	U	10.0	U				
Barium			200	U	200	U				
Beryllium			5.0	U	0.064	J				
Cadmium			5.0	U	5.0	U				
Calcium			5000	U	5000	U				
Chromium			10.0	U	10.0	U				
Cobalt			50.0	U	50.0	U				
Copper			25.0	U	25.0	U				
Iron			20.6	J	100	U				
Lead			10.0	U	10.0	U				
Magnesium			5000	U	5000	U				
Manganese			15.0	U	15.0	U				
Nickel			40.0	U	40.0	U				
Potassium			5000	U	5000	U				
Selenium			35.0	U	35.0	U				
Silver			10.0	U	10.0	U				
Sodium			5000	U	5000	U				
Thallium			25.0	U	25.0	U				
Vanadium			50.0	U	50.0	U				
Zinc			60.0	U	60.0	U				

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5110915A ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	257000	101	256000	104
Antimony	0.00	618	1.2	0	598	97
Arsenic	0.00	104	-5.7	0	95.8	92
Barium	6.0	537	8.1	135	532	99
Beryllium	0.0000	495	0.23	0	552	112
Cadmium	1.0	972	1.1	110	1020	105
Calcium	245000	235000	255000	104	255000	109
Chromium	52.0	542	61.1	118	591	109
Cobalt	0.000	476	-0.29	0	475	100
Copper	2.0	511	2.0	100	516	101
Iron	101000	99300	102000	101	103000	104
Lead	0.00	49.0	4.5	0	48.4	99
Magnesium	255000	248000	269000	105	270000	109
Manganese	7.0	507	18.5	264	560	110
Nickel	2.0	954	3.0	150	947	99
Selenium	0.00	46.0	-1.1	0	51.3	112
Silver	0.00	201	0.12	0	220	109
Thallium	0.00	108	-2.2	0	91.5	85
Vanadium	0.00	491	1.9	0	527	107
Zinc	0.00	952	1.4	0	993	104

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7E7S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Analytical Method: ICP-AES

% Solids for Sample: 80.4

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Antimony	75 - 125	9.7		0.85	J	24.4	36	*
Arsenic	75 - 125	13.0		6.3		9.7	69	*
Barium	75 - 125	426		30.4		487	81	
Beryllium	75 - 125	10.5		0.22	J	12.2	84	
Cadmium	75 - 125	10.0		0.075	J	12.2	81	
Chromium	75 - 125	49.7		11.1		48.7	79	
Cobalt	75 - 125	102		4.2	J	122	80	
Copper	75 - 125	96.8		64.4		60.9	53	*
Lead		118		238		4.9	-2449	
Manganese	75 - 125	278		162		122	95	
Nickel	75 - 125	105		10.6		122	77	
Selenium	75 - 125	19.7		4.3	U	24.4	81	
Silver	75 - 125	10.7		1.2	U	12.2	88	
Thallium	75 - 125	10.1		3.0	U	12.2	83	
Vanadium	75 - 125	109		8.5		122	82	
Zinc	75 - 125	139		46.4		122	76	

FORM 5B-IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7E7A

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Analytical Method: ICP4 ISM02.2

% Solids:

Concentration Units: (ug/L, mg/L, or mg/Kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	Q	Sample Result (SR)	Q	Spike Added (SA)	%R	Q
Antimony		118		8.4	J	120	91	
Arsenic		79.7		62.6		20.0	86	
Copper		641		635		50.0	12	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7E7D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Analytical Method: ICP-AES

% Solids: 80.4

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		3280		2370		32	*
Antimony		0.85	J	6.9	U		
Arsenic	1.2	6.3		5.1		21	*
Barium	23.0	30.4		24.2		23	
Beryllium		0.22	J	0.16	J		
Cadmium		0.075	J	0.062	J		
Calcium	576	4350		2860		41	*
Chromium		11.1		7.8		35	*
Cobalt		4.2	J	3.2	J		
Copper		64.4		1660		185	*
Iron		7600		6000		24	*
Lead		238		107		76	*
Magnesium	576	1240		854		37	
Manganese		162		114		35	*
Nickel	4.6	10.6		7.8		30	
Potassium		508	J	331	J		
Selenium		4.0	U	4.0	U		
Silver		1.2	U	0.74	J		
Sodium		84.0	J	55.7	J		
Thallium		2.9	U	2.9	U		
Vanadium	5.8	8.5		6.8		22	
Zinc		46.4		112		83	*

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Preparation Method: 3050B

Analytical Method: ICP-AES Preparation Batch: 89048

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

Analyte	True	Found	%R
Aluminum	40.0	47.4	119
Antimony	12.0	10.8	90
Arsenic	2.0	1.7	85
Barium	40.0	38.1	95
Beryllium	1.0	0.95	95
Cadmium	1.0	0.89	89
Calcium	1000	986	99
Chromium	2.0	1.9	95
Cobalt	10.0	9.3	93
Copper	5.0	4.8	96
Iron	20.0	19.3	97
Lead	2.0	1.8	90
Magnesium	1000	993	99
Manganese	3.0	2.9	97
Nickel	8.0	7.3	91
Potassium	1000	978	98
Selenium	7.0	6.3	90
Silver	2.0	1.9	95
Sodium	1000	1040	104
Thallium	5.0	4.4	88
Vanadium	10.0	9.5	95
Zinc	12.0	11.3	94

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC7E7L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Analytical Method: ICP-AES

% Solids

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

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	32400		32500		0	
Antimony	8.4	J	300	U		
Arsenic	62.6		59.4		5	
Barium	300		287	J	4	
Beryllium	2.1	J	2.3	J	10	
Cadmium	0.74	J	25.0	U		
Calcium	42900		41700		3	
Chromium	109		108		1	
Cobalt	41.8	J	42.9	J	3	
Copper	635		617		3	
Iron	74900		73000		3	
Lead	2340		2340		0	
Magnesium	12300		12100	J	2	
Manganese	1600		1550		3	
Nickel	105		105	J	0	
Potassium	5020		4790	J	5	
Selenium	35.0	U	175	U		
Silver	10.0	U	50.0	U		
Sodium	829	J	25000	U		
Thallium	25.0	U	125	U		
Vanadium	83.8		81.5	J	3	
Zinc	458		446		3	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 3050B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	7.6	02/07/2015
Antimony	206.83	0.35	02/07/2015
Arsenic	189.04	0.39	02/07/2015
Barium	455.40	0.20	02/07/2015
Beryllium	313.04	0.0079	02/07/2015
Cadmium	228.80	0.040	02/07/2015
Calcium	422.67	6.9	02/07/2015
Chromium	267.72	0.012	02/07/2015
Cobalt	228.62	0.068	02/07/2015
Copper	327.40	0.24	02/07/2015
Iron	261.19	2.6	02/07/2015
Lead	220.35	0.28	02/07/2015
Magnesium	285.21	9.7	02/07/2015
Manganese	257.61	0.085	02/07/2015
Nickel	231.60	0.21	02/07/2015
Potassium	766.49	11.0	02/07/2015
Selenium	196.09	0.62	02/07/2015
Silver	328.07	0.19	02/07/2015
Sodium	589.59	4.9	02/07/2015
Thallium	190.86	0.36	02/07/2015
Vanadium	292.40	0.13	02/07/2015
Zinc	206.20	0.26	02/07/2015

FORM 10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	-0.000044	0	0.000024	0	0
Arsenic	189.00	0.000007(	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0.000003(	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0.000038	-0.000018	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0.00041	0	0.000035	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	-0.0005(	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0.000004(	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0.013	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0.00033
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0.00050
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0.0027
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Mo
Aluminum	308.215	0	0	0	0	0.012
Antimony	206.838	0.019	0	0	0	-0.0065
Arsenic	189.00	0.00079	0	0	-0.00042	0.00033
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0.00030	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00043	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	-0.0037
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00018	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	Tl	U	V	Zn
Aluminum	308.215	0	0	0	0.043	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0.00042	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0.0023	0	0	0	0
Copper	327.3	-0.00072	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	-0.012	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1152	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1157	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1201	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1206	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1211		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1217		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1222	X						X				X		X				X			X						
S07	1.0	1227	X						X				X		X													
S08	1.0	1232																	X			X						
S09	1.0	1236																				X						
S10	1.0	1241																	X									
ICV	1.0	1246	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.0	1251	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA	1.0	1256	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB	1.0	1300	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV001	1.0	1305	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB001	1.0	1310	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1315																										
ZZZZZZ	1.0	1320																										
ZZZZZZ	1.0	1325																										
ZZZZZZ	5.0	1329																										
ZZZZZZ	1.0	1334																										
ZZZZZZ	1.0	1339																										
ZZZZZZ	1.0	1344																										
ZZZZZZ	1.0	1349																										
ZZZZZZ	1.0	1354																										
ZZZZZZ	1.0	1359																										
ZZZZZZ	1.0	1404																										
ZZZZZZ	1.0	1408																										
ZZZZZZ	1.0	1413																										
ZZZZZZ	1.0	1418																										
ZZZZZZ	1.0	1423																										
ZZZZZZ	1.0	1428																										
ZZZZZZ	1.0	1433																										
ZZZZZZ	1.0	1438																										
ZZZZZZ	1.0	1442																										
ZZZZZZ	1.0	1447																										
ZZZZZZ	1.0	1452																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.0	1457																											
CCV002	1.0	1502	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB002	1.0	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.0	1512																											
ZZZZZZ	1.0	1517																											
ZZZZZZ	1.0	1521																											
ZZZZZZ	1.0	1526																											
PBS	1.0	1531	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
LCS	1.0	1536	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
MBC7E7	1.0	1541	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
MBC7E7L	5.0	1545	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
MBC7E7D	1.0	1550	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
MBC7E7S	1.0	1555		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X				
MBC7E7A	1.0	1600		X	X							X																	
MBC7E8	1.0	1605	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X				
MBC7F0	1.0	1610	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X				
MBC7F2	1.0	1614	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X				
MBC7F3	1.0	1619	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X				
MBC7H1	1.0	1624	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X				
MBC7H2	1.0	1629	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
MBC7H3	1.0	1634	X		X	X	X		X	X	X				X	X			X	X	X	X	X	X	X				
CCV003	1.0	1638	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB003	1.0	1644	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.0	1648																											
ZZZZZZ	1.0	1653																											
ZZZZZZ	1.0	1658																											
ZZZZZZ	5.0	1703																											
ZZZZZZ	1.0	1708																											
ZZZZZZ	1.0	1712																											
ZZZZZZ	1.0	1717																											
ZZZZZZ	2.0	1722																											
ZZZZZZ	10	1727																											
ZZZZZZ	2.0	1732																											
ZZZZZZ	2.0	1737																											
ZZZZZZ	2.0	1741																											
ZZZZZZ	2.0	1746																											
ZZZZZZ	5.0	1751																											
ZZZZZZ	2.0	1756																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	2.0	1801																										
ZZZZZZ	5.0	1806																										
ZZZZZZ	2.0	1811																										
ZZZZZZ	2.0	1815																										
ZZZZZZ	2.0	1820																										
CCV004	1.0	1825	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB004	1.0	1830	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	2.0	1835																										
ZZZZZZ	5.0	1840																										
ZZZZZZ	2.0	1844																										
ZZZZZZ	2.0	1849																										
ZZZZZZ	2.0	1854																										
ZZZZZZ	2.0	1859																										
ZZZZZZ	5.0	1904																										
ZZZZZZ	5.0	1908																										
ZZZZZZ	5.0	1913																										
ZZZZZZ	2.0	1918																										
ZZZZZZ	5.0	1923																										
MBC7E8	2.0	1928		X				X				X	X	X				X										
MBC7F0	2.0	1933		X				X				X	X	X				X										
MBC7F2	2.0	1937		X				X				X	X	X				X										
MBC7F3	5.0	1942		X				X				X	X	X				X										
MBC7H1	2.0	1947		X				X				X	X	X				X										
MBC7H3	5.0	1952		X				X				X	X	X				X										
CCV005	1.0	1957	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB005	1.0	2002	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	2006																										
ZZZZZZ	1.0	2011																										
ZZZZZZ	1.0	2016																										
ZZZZZZ	1.0	2021																										
ZZZZZZ	1.0	2026																										
ZZZZZZ	1.0	2030																										
ZZZZZZ	1.0	2035																										
ZZZZZZ	1.0	2040																										
ZZZZZZ	1.0	2045																										
ZZZZZZ	1.0	2050																										
ZZZZZZ	1.0	2055																										
ZZZZZZ	1.0	2100																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	2104																										
ZZZZZZ	1.0	2109																										
ZZZZZZ	1.0	2114																										
ZZZZZZ	1.0	2119																										
ZZZZZZ	1.0	2124																										
ZZZZZZ	1.0	2129																										
ZZZZZZ	1.0	2133																										
ZZZZZZ	1.0	2138																										
ZZZZZZ	1.0	2143																										
ZZZZZZ	1.0	2148																										
ZZZZZZ	1.0	2153																										
ZZZZZZ	1.0	2157																										
ZZZZZZ	1.0	2202																										
ZZZZZZ	1.0	2207																										
ZZZZZZ	1.0	2212																										
ZZZZZZ	1.0	2217																										
ZZZZZZ	1.0	2221																										
ZZZZZZ	1.0	2226																										
ZZZZZZ	1.0	2231																										
ZZZZZZ	1.0	2236																										
ZZZZZZ	1.0	2241																										
ZZZZZZ	1.0	2246																										
ZZZZZZ	1.0	2251																										
ZZZZZZ	1.0	2256																										
ZZZZZZ	1.0	2300																										
ZZZZZZ	1.0	2305																										
ZZZZZZ	1.0	2310																										
ZZZZZZ	1.0	2315																										
ZZZZZZ	1.0	2320																										
ZZZZZZ	1.0	2325																										
ZZZZZZ	1.0	2329																										
ZZZZZZ	1.0	2334																										
ZZZZZZ	1.0	2339																										
ZZZZZZ	1.0	2344																										
ZZZZZZ	1.0	2349																										
ZZZZZZ	1.0	2354																										
ZZZZZZ	1.0	2358																										
ZZZZZZ	1.0	0003																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/09/2015 End Date: 11/10/2015

Run Batch: I5110915A ISM

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	0008																										
ZZZZZZ	1.0	0013																										
ZZZZZZ	1.0	0018																										
ZZZZZZ	1.0	0023																										
ZZZZZZ	1.0	0027																										
ZZZZZZ	1.0	0032																										
ZZZZZZ	1.0	0037																										
ZZZZZZ	1.0	0042																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7E7

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.049	0	200	250	25	800	809	1
Antimony	0.00	0.0058	0	60.0	57	-5	240	233	-3
Arsenic	0.00	0.0012	0	10.0	8.9	-11	40.0	40	-1
Barium	0.00	-0.0018	0	200	204	2	800	798	0
Beryllium	0.00	-0.00044	0	5.00	5.3	5	20.0	20	2
Cadmium	0.00	0.00080	0	5.00	4.6	-7	20.0	19	-7
Calcium	0.00	-0.44	0	5000	5284	6	20000	20659	3
Chromium	0.00	-0.00085	0	10.0	11	6	40.0	41	3
Cobalt	0.00	0.0029	0	50.0	50	1	200	192	-4
Copper	0.00	0.00045	0	25.0	26	3	100	97	-3
Iron	0.00	-0.028	0	100	119	19	400	435	9
Lead	0.00	0.0022	0	10.0	8.5	-15	40.0	39	-3
Magnesium	0.00	-0.38	0	5000	5257	5	20000	20480	2
Manganese	0.00	-0.0015	0	15.0	16	8	60.0	61	2
Nickel	0.00	0.0024	0	40.0	40	0	160	155	-3
Potassium	0.00	-0.78	0	5000	5270	5	20000	20610	3
Selenium	0.00	0.00080	0	35.0	35	-1	140	139	0
Silver	0.00	0.00083	0	10.0	9.6	-4	40.0	38	-4
Sodium	0.00	-0.61	0	3000	3346	12	12000	12832	7
Thallium	0.00	0.0041	0	25.0	24	-5	100	92	-8
Vanadium	0.00	-0.0012	0	50.0	52	4	200	197	-2
Zinc	0.00	0.00067	0	60.0	61	2	240	237	-1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7E7

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	49215	-2			0			
Antimony	2500	2415	-3	3750	3672	-2	5000	5170	3
Arsenic	2500	2466	-1	3750	3671	-2	5000	5114	2
Barium	10000	9847	-2	15000	15041	0	20000	20110	1
Beryllium	1000	1041	4	1500	1470	-2	2000	1989	-1
Cadmium	1000	967	-3	1500	1523	2	2000	2123	6
Calcium	50000	50226	0			0			
Chromium	10000	10049	0	15000	14788	-1	20000	20162	1
Cobalt	5000	4737	-5	7500	7451	-1	10000	10320	3
Copper	12500	12109	-3	18750	18562	-1	25000	25582	2
Iron	25000	25145	1			0			
Lead	10000	9297	-7	15000	14957	0	20000	20751	4
Magnesium	50000	50310	1			0			
Manganese	5000	5006	0	7500	7468	0	10000	10024	0
Nickel	5000	4740	-5	7500	7447	-1	10000	10318	3
Potassium	37500	37790	1			0			
Selenium	1250	1231	-2	1875	1837	-2	2500	2559	2
Silver	750	748	0	1125	1109	-1	1500	1520	1
Sodium	25000	25930	4			0			
Thallium	1000	911	-9	1500	1511	1	2000	2088	4
Vanadium	2500	2513	1	3750	3693	-2	5000	5045	1
Zinc	5000	4865	-3	7500	7362	-2	10000	10275	3

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7E7

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	149240	-1	300000	301490	0			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	149330	0	300000	299500	0			
Chromium									
Cobalt									
Copper									
Iron	75000	74821	0	150000	149980	0			
Lead									
Magnesium	150000	149300	0	300000	299700	0			
Manganese									
Nickel									
Potassium	112500	111400	-1				56250	55290	-2
Selenium									
Silver									
Sodium	75000	74592	-1				37500	37790	1
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7E7

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10910	9			
Selenium									
Silver									
Sodium	100000	98010	-2						
Thallium									
Vanadium									
Zinc									

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

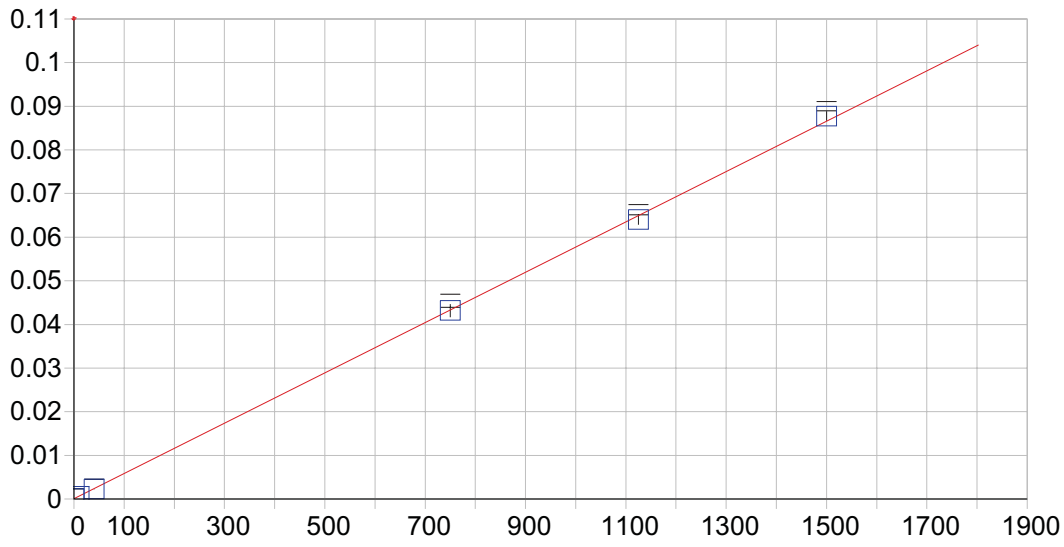
Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7E7

Instrument ID: ICP5 **Start Date:** 11/9/2015

Analytical Method: ICP-AES **Run Batch:** I5110915A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	1.00	0.00290	Lin. Req	Inverse Conc
Antimony	0.9994	1.01	-0.000271	Lin. Req	Inverse Conc
Arsenic	0.9997	1.01	-0.000114	Lin. Req	Inverse Conc
Barium	1.0000	1.00	-0.00187	Lin. Req	Inverse Conc
Beryllium	0.9998	0.995	0.000533	Lin. Req	Inverse Conc
Cadmium	0.9993	1.04	-0.000244	Lin. Req	Inverse Conc
Calcium	1.0000	0.998	0.00463	Lin. Req	Inverse Conc
Chromium	0.9999	1.00	0.000126	Lin. Req	Inverse Conc
Cobalt	0.9994	1.01	0.000214	Lin. Req	Inverse Conc
Copper	0.9997	1.01	0.000897	Lin. Req	Inverse Conc
Iron	1.0000	0.999	0.000396	Lin. Req	Inverse Conc
Lead	0.9991	1.01	-0.000126	Lin. Req	Inverse Conc
Magnesium	1.0000	0.998	-0.0000630	Lin. Req	Inverse Conc
Manganese	1.0000	1.00	0.0000140	Lin. Req	Inverse Conc
Nickel	0.9994	1.01	-0.000411	Lin. Req	Inverse Conc
Potassium	0.9999	0.988	-0.000756	Lin. Req	Inverse Conc
Selenium	0.9997	1.01	-0.000101	Lin. Req	Inverse Conc
Silver	0.9999	1.00	0.0000450	Lin. Req	Inverse Conc
Sodium	0.9999	0.985	0.00441	Lin. Req	Inverse Conc
Thallium	0.9987	1.02	-0.000150	Lin. Req	Inverse Conc
Vanadium	0.9999	1.00	0.0000380	Lin. Req	Inverse Conc
Zinc	0.9996	1.01	-0.0000730	Lin. Req	Inverse Conc

ICP-AES
Raw Data



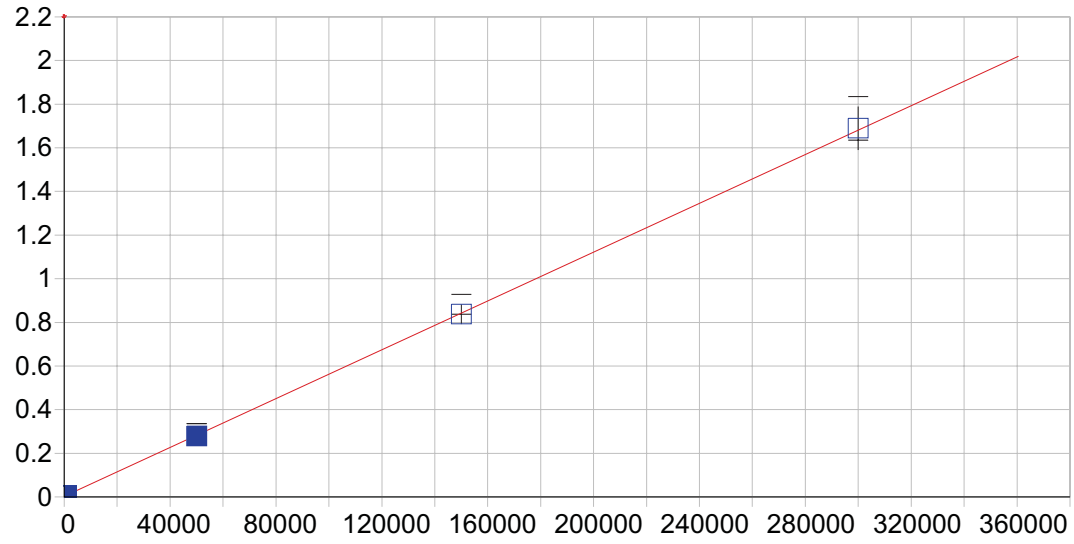
Ag 328.068 {103}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000045	Re-Slope:	1.000000
A1 (Gain):	0.000058	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999915	Status:	OK.
Std Error of Est:	0.000005		
Predicted MDL:	0.502436		
Predicted MQL:	1.674787		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00083	.001	.000	.00004	.000	1
S01 ISM-458	10.000	9.6202	-.380	-3.80	.00060	.000	1
S02 ISM-459	40.000	38.324	-1.68	-4.19	.00226	.000	1
S03 ISM-515	750.00	747.83	-2.17	-.290	.04319	.002	1
S04 ISM-461	1125.0	1109.2	-15.8	-1.41	.06403	.001	1
S05 ISM-462	1500.0	1520.1	20.1	1.34	.08773	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



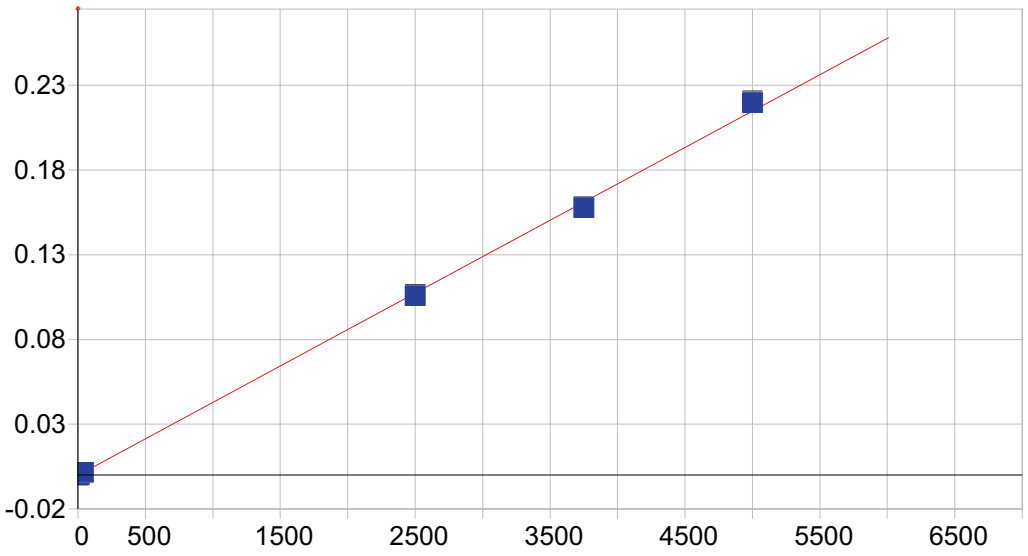
Al 308.215 {109}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002897	Re-Slope:	1.000000
A1 (Gain):	0.000006	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999964	Status:	OK.
Std Error of Est:	0.000018		
Predicted MDL:	81.915545		
Predicted MQL:	273.051815		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.04903	-.049	.000	.00290	.000	1
S01 ISM-458	200.00	250.06	50.1	25.0	.00431	.000	1
S02 ISM-459	800.00	808.52	8.52	1.07	.00748	.000	1
S03 ISM-515	50000.	49215.	-785.	-1.57	.27890	.012	1
S06 ISM-463	150000.	149240.	-765.	-.510	.83778	.046	1
S07 ISM-464	300000.	301490.	1490.	.497	1.6896	.100	1

PDF created with pdfFactory trial version www.pdffactory.com



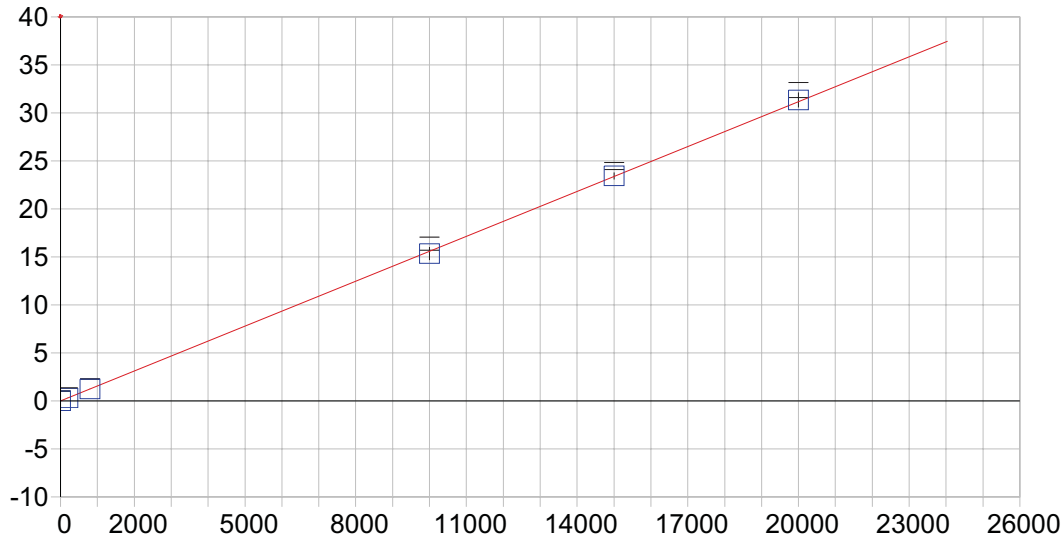
As 189.042 {478}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000114	Re-Slope:	1.000000
A1 (Gain):	0.000043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999786	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	1.311809		
Predicted MQL:	4.372695		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00125	.001	.000	-.00011	.000	1
S01 ISM-458	10.000	8.9385	-1.06	-10.6	.00027	.000	1
S02 ISM-459	40.000	39.733	-.267	-.666	.00160	.000	1
S03 ISM-515	2500.0	2465.6	-34.4	-1.37	.10612	.000	1
S04 ISM-461	3750.0	3671.2	-78.8	-2.10	.15805	.000	1
S05 ISM-462	5000.0	5114.5	114.	2.29	.22021	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



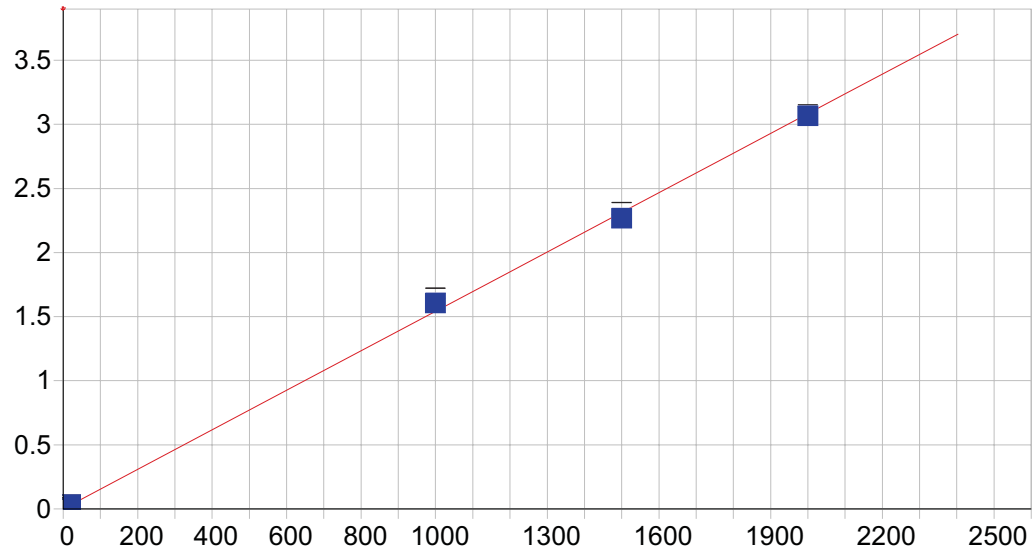
Ba 455.403 { 74}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001867	Re-Slope:	1.000000
A1 (Gain):	0.001559	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999966	Status:	OK.
Std Error of Est:	0.001511		
Predicted MDL:	0.787619		
Predicted MQL:	2.625397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00177	-.002	.000	-.00187	.001	1
S01 ISM-458	200.00	203.79	3.79	1.90	.31577	.001	1
S02 ISM-459	800.00	797.54	-2.46	-.307	1.2412	.010	1
S03 ISM-515	10000.	9847.2	-153.	-1.53	15.346	.684	1
S04 ISM-461	15000.	15041.	41.1	.274	23.442	.371	1
S05 ISM-462	20000.	20110.	110.	.552	31.343	.792	1

PDF created with pdfFactory trial version www.pdffactory.com



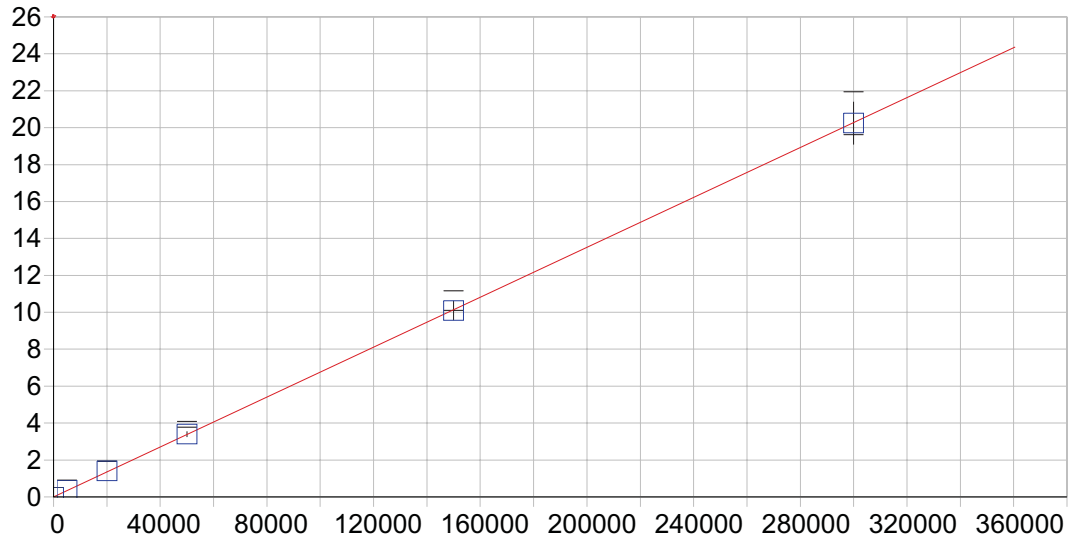
Be 313.042 {108}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000533	Re-Slope:	1.000000
A1 (Gain):	0.001542	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999738	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.015945		
Predicted MQL:	0.053149		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00044	-.000	.000	.00053	.000	1
S01 ISM-458	5.0000	5.2676	.268	5.35	.00869	.000	1
S02 ISM-459	20.000	20.396	.396	1.98	.03211	.000	1
S03 ISM-515	1000.0	1041.0	41.0	4.10	1.6070	.039	1
S04 ISM-461	1500.0	1469.6	-30.4	-2.02	2.2686	.046	1
S05 ISM-462	2000.0	1988.7	-11.3	-.564	3.0697	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



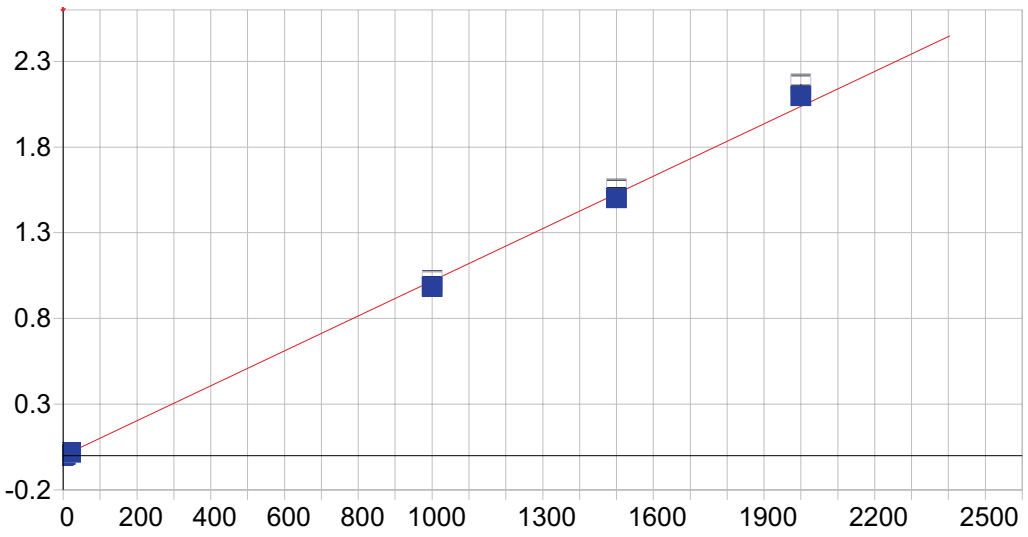
Ca 317.933 {106}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004626	Re-Slope:	1.000000
A1 (Gain):	0.000068	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999959	Status:	OK.
Std Error of Est:	0.001208		
Predicted MDL:	8.341386		
Predicted MQL:	27.804619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.44029	-.440	.000	.00460	.000	1
S01 ISM-458	5000.0	5283.7	284.	5.67	.36164	.003	1
S02 ISM-459	20000.	20659.	659.	3.29	1.4005	.009	1
S03 ISM-515	50000.	50226.	226.	.452	3.3984	.152	1
S06 ISM-463	150000.	149330.	-668.	-.445	10.095	.530	1
S07 ISM-464	300000.	299500.	-500.	-.167	20.242	1.16	1

PDF created with pdfFactory trial version www.pdffactory.com



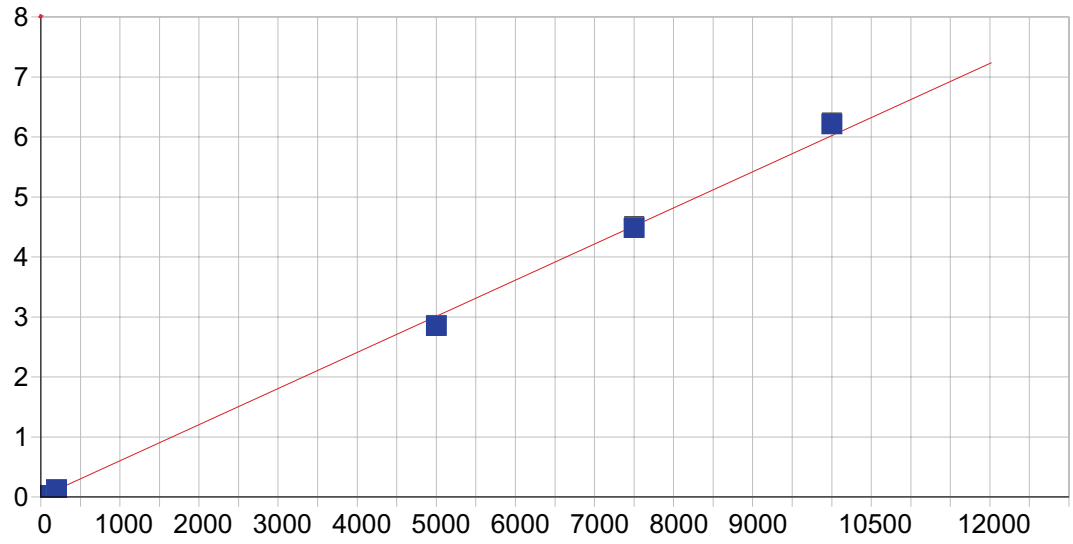
Cd 228.802 {447}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000244	Re-Slope:	1.000000
A1 (Gain):	0.001019	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999649	Status:	OK.
Std Error of Est:	0.000162		
Predicted MDL:	0.195378		
Predicted MQL:	0.651261		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00081	.001	.000	-.00024	.000	1
S01 ISM-458	5.0000	4.6265	-.373	-7.47	.00460	.000	1
S02 ISM-459	20.000	18.636	-1.36	-6.82	.01926	.000	1
S03 ISM-515	1000.0	966.97	-33.0	-3.30	1.0174	.003	1
S04 ISM-461	1500.0	1475.4	-24.6	-1.64	1.5514	.004	1
S05 ISM-462	2000.0	2059.4	59.4	2.97	2.1626	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



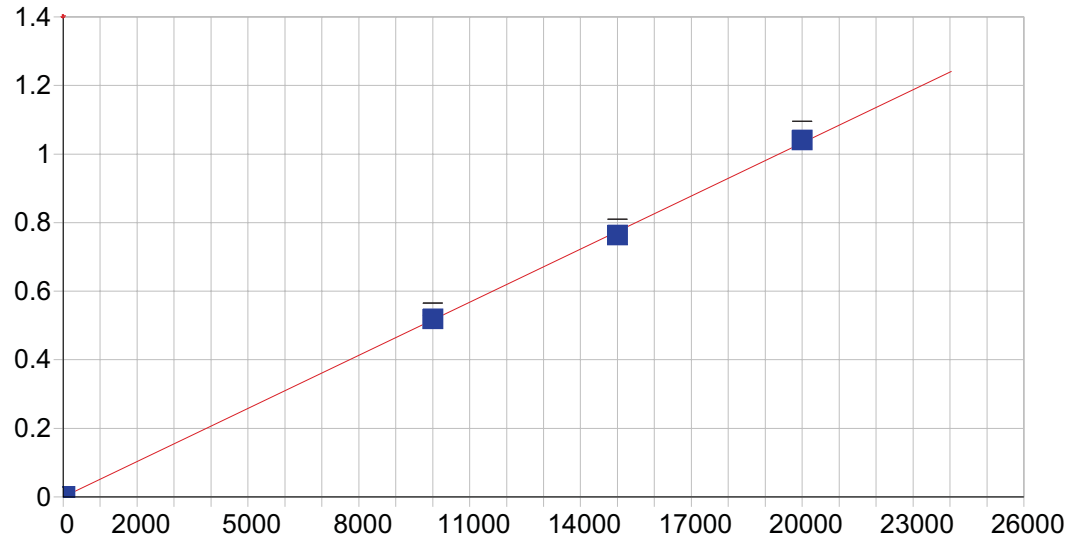
Co 228.616 {447}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000214	Re-Slope:	1.000000
A1 (Gain):	0.000602	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999459	Status:	OK.
Std Error of Est:	0.000818		
Predicted MDL:	0.193556		
Predicted MQL:	0.645186		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00293	.003	.000	.00022	.000	1
S01 ISM-458	50.000	50.346	.346	.692	.03059	.000	1
S02 ISM-459	200.00	192.35	-7.65	-3.83	.11615	.000	1
S03 ISM-515	5000.0	4737.0	-263.	-5.26	2.8534	.007	1
S04 ISM-461	7500.0	7450.6	-49.4	-.659	4.4877	.012	1
S05 ISM-462	10000.	10320.	320.	3.20	6.2157	.016	1

PDF created with pdfFactory trial version www.pdffactory.com



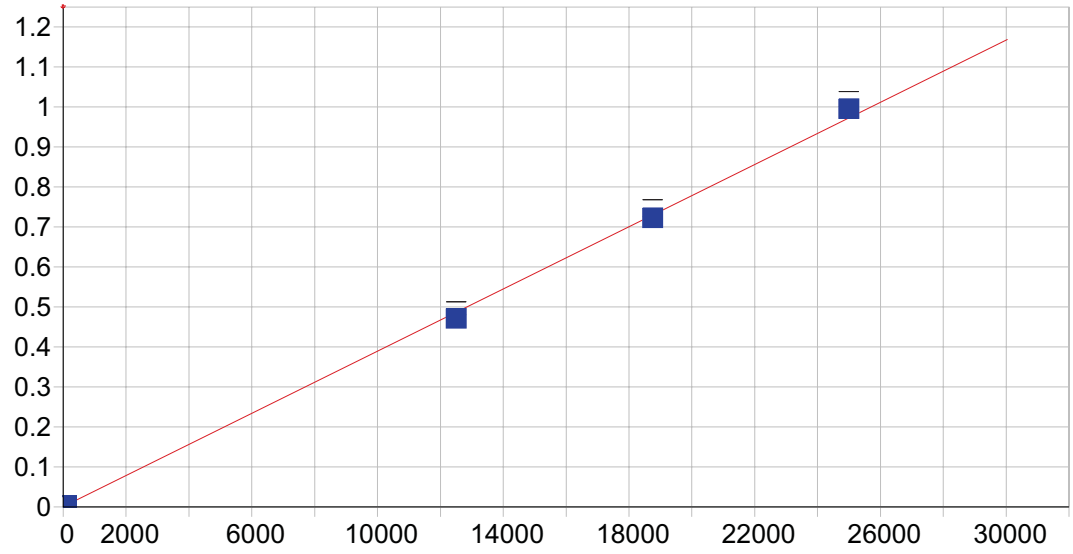
Cr 267.716 {126}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000126	Re-Slope:	1.000000
A1 (Gain):	0.000052	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.354982		
Predicted MQL:	1.183274		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00085	-.001	.000	.00013	.000	1
S01 ISM-458	10.000	10.584	.584	5.84	.00067	.000	1
S02 ISM-459	40.000	41.106	1.11	2.76	.00225	.000	1
S03 ISM-515	10000.	10049.	48.9	.489	.51888	.018	1
S04 ISM-461	15000.	14788.	-212.	-1.41	.76352	.018	1
S05 ISM-462	20000.	20162.	162.	.808	1.0409	.026	1

PDF created with pdfFactory trial version www.pdffactory.com



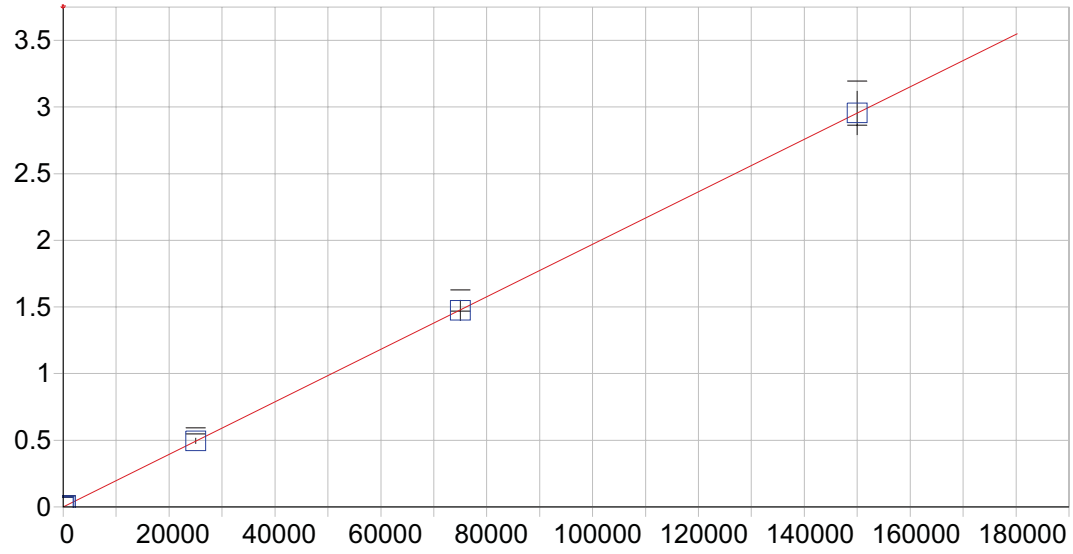
Cu 327.396 {103}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000897	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999753	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.756885		
Predicted MQL:	2.522951		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00044	.000	.000	.00090	.000	1
S01 ISM-458	25.000	25.797	.797	3.19	.00191	.000	1
S02 ISM-459	100.00	96.874	-3.13	-3.13	.00469	.000	1
S03 ISM-515	12500.	12108.	-392.	-3.13	.47168	.017	1
S04 ISM-461	18750.	18562.	-188.	-1.00	.72251	.021	1
S05 ISM-462	25000.	25582.	582.	2.33	.99541	.019	1

PDF created with pdfFactory trial version www.pdffactory.com



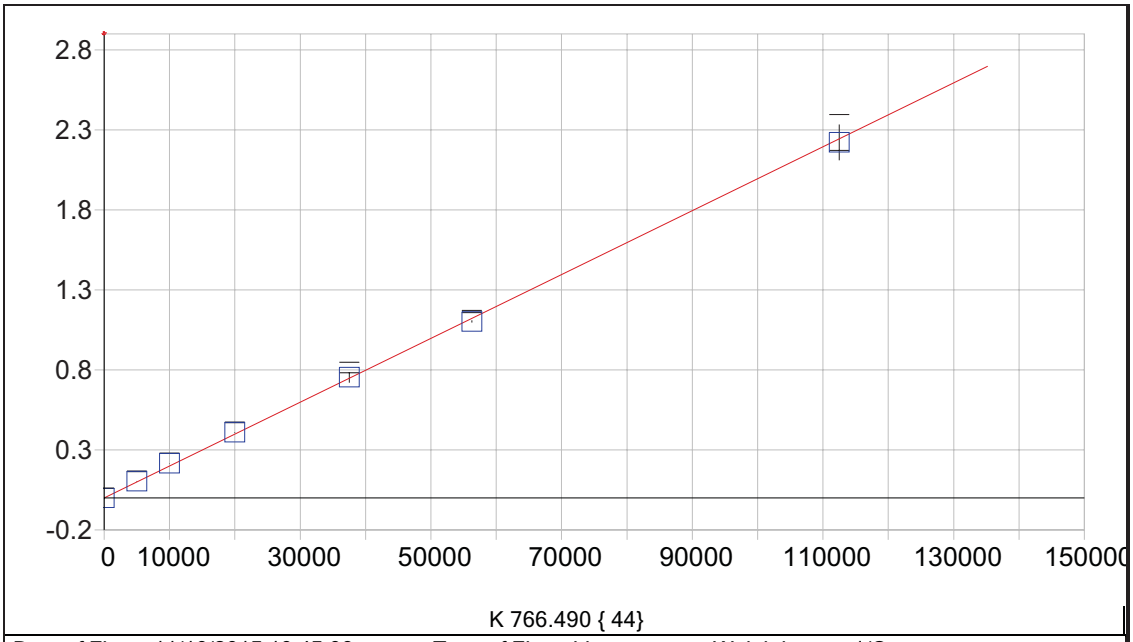
Fe 261.187 {129}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000396	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999984	Status:	OK.
Std Error of Est:	0.000021		
Predicted MDL:	16.552052		
Predicted MQL:	55.173507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02767	-.028	.000	.00040	.000	1
S01 ISM-458	100.00	118.61	18.6	18.6	.00273	.000	1
S02 ISM-459	400.00	434.92	34.9	8.73	.00896	.000	1
S03 ISM-515	25000.	25145.	145.	.581	.49572	.023	1
S06 ISM-463	75000.	74821.	-179.	-.238	1.4742	.080	1
S07 ISM-464	150000.	149980.	-20.2	-.013	2.9547	.165	1

PDF created with pdfFactory trial version www.pdffactory.com



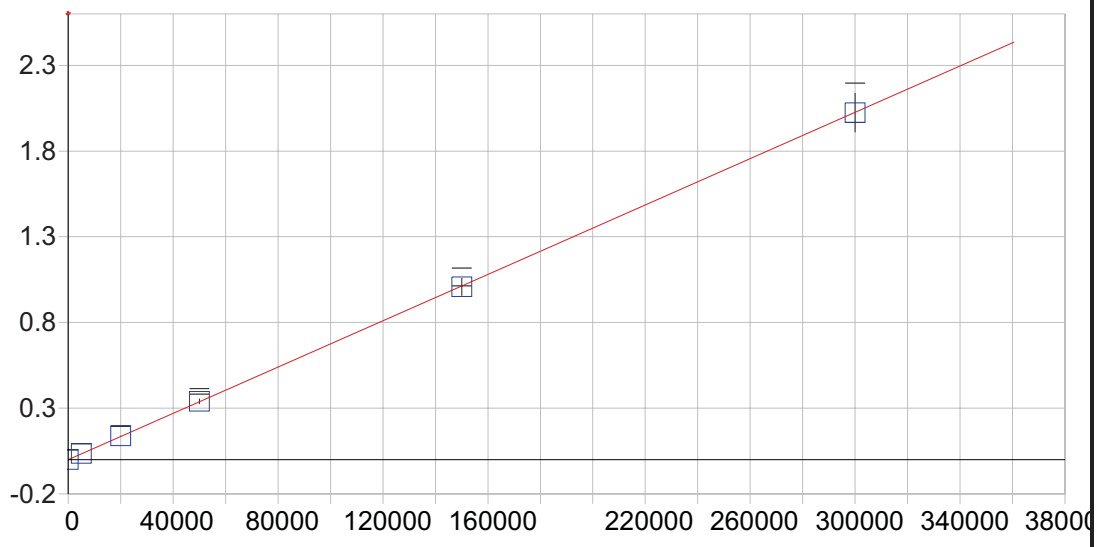
K 766.490 { 44}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000756	Re-Slope:	1.000000
A1 (Gain):	0.000020	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999698	Status:	OK.
Std Error of Est:	0.000637		
Predicted MDL:	74.813593		
Predicted MQL:	249.378643		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.78061	-.781	.000	-.00077	.001	1
S02 ISM-459	20000.	20609.	609.	3.04	.41054	.002	1
S01 ISM-458	5000.0	5270.0	270.	5.40	.10442	.002	1
S03 ISM-515	37500.	37788.	288.	.769	.75339	.033	1
S08 ISM-465	56250.	55286.	-964.	-1.71	1.1026	.008	1
S06 ISM-463	112500.	111390.	-1110.	-.990	2.2222	.112	1
S10 ISM-457	10000.	10910.	910.	9.10	.21698	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



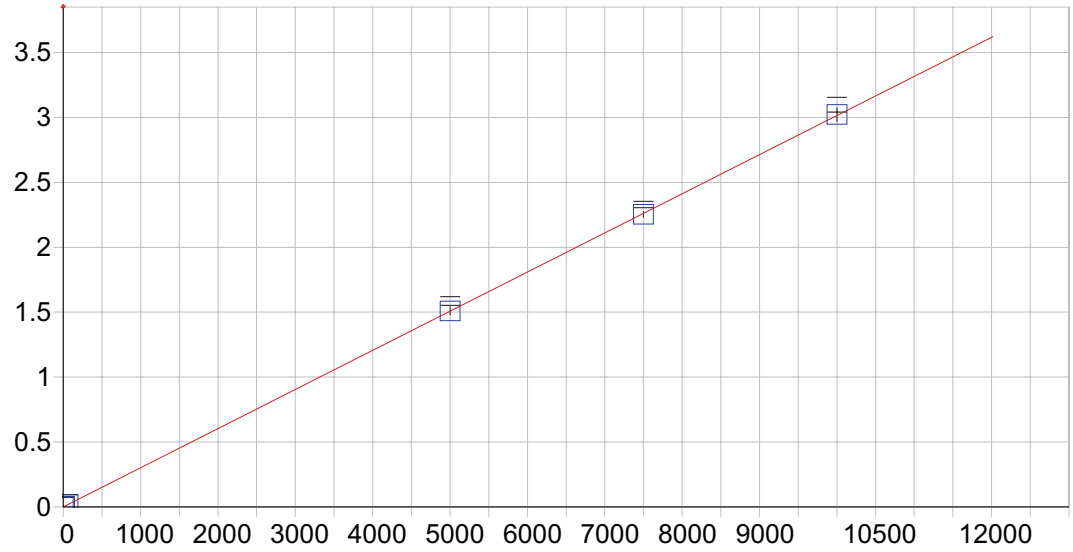
Mg 279.079 {121}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000063	Re-Slope:	1.000000
A1 (Gain):	0.000007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999971	Status:	OK.
Std Error of Est:	0.000102		
Predicted MDL:	43.409633		
Predicted MQL:	144.698776		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.37963	-.380	.000	-.00007	.000	1
S01 ISM-458	5000.0	5257.5	257.	5.15	.03544	.000	1
S02 ISM-459	20000.	20483.	483.	2.41	.13826	.001	1
S03 ISM-515	50000.	50307.	307.	.613	.33967	.016	1
S06 ISM-463	150000.	149290.	-708.	-.472	1.0082	.052	1
S07 ISM-464	300000.	299660.	-339.	-.113	2.0236	.115	1

PDF created with pdfFactory trial version www.pdffactory.com



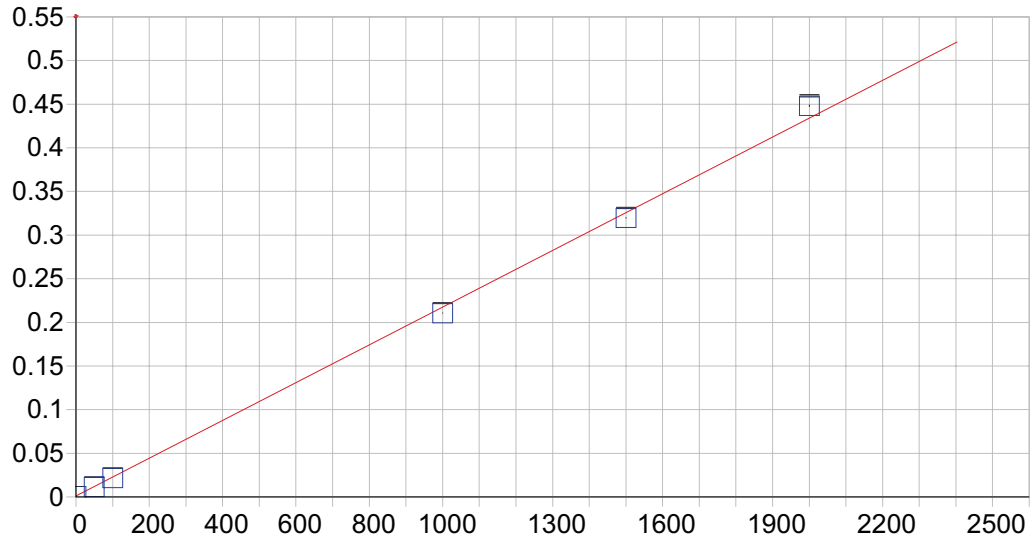
Mn 257.610 {131}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000014	Re-Slope:	1.000000
A1 (Gain):	0.000301	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999993	Status:	OK.
Std Error of Est:	0.000026		
Predicted MDL:	0.058550		
Predicted MQL:	0.195168		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00152	-.002	.000	.00001	.000	1
S01 ISM-458	15.000	16.247	1.25	8.31	.00491	.000	1
S02 ISM-459	60.000	61.150	1.15	1.92	.01845	.000	1
S03 ISM-515	5000.0	5005.8	5.76	.115	1.5092	.034	1
S04 ISM-461	7500.0	7468.3	-31.7	-.422	2.2517	.025	1
S05 ISM-462	10000.	10024.	23.5	.235	3.0221	.057	1

PDF created with pdfFactory trial version www.pdffactory.com



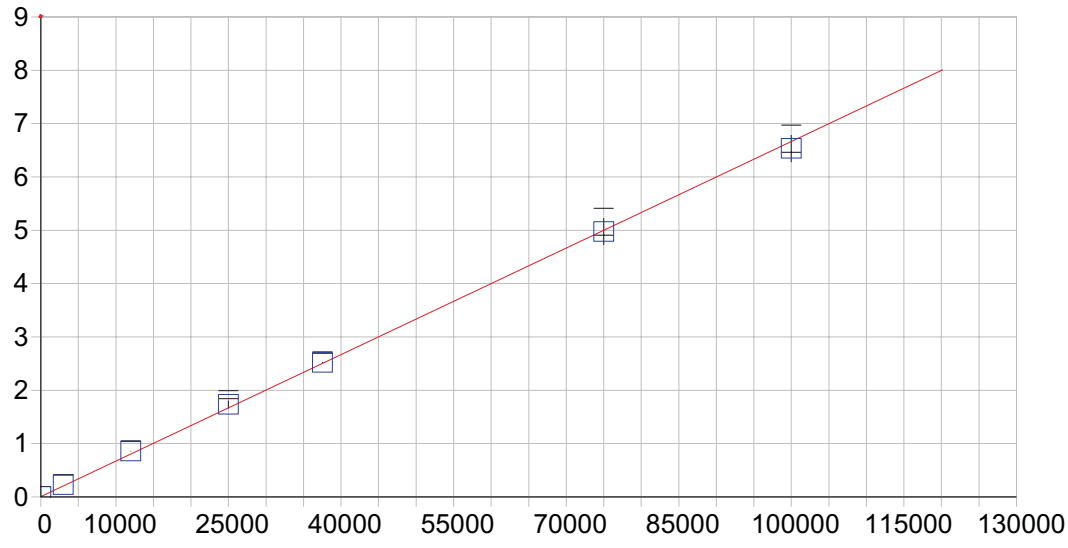
Mo 202.030 {467}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000929	Re-Slope:	1.000000
A1 (Gain):	0.000217	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999580	Status:	OK.
Std Error of Est:	0.000117		
Predicted MDL:	0.297983		
Predicted MQL:	0.993276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00508	.005	.000	.00093	.000	1
S01 ISM-458	50.000	47.873	-2.13	-4.25	.01130	.000	1
S02 ISM-459	100.00	95.824	-4.18	-4.18	.02168	.000	1
S03 ISM-515	1000.0	968.34	-31.7	-3.17	.21062	.001	1
S04 ISM-461	1500.0	1472.5	-27.5	-1.83	.31981	.001	1
S05 ISM-462	2000.0	2065.4	65.4	3.27	.44820	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



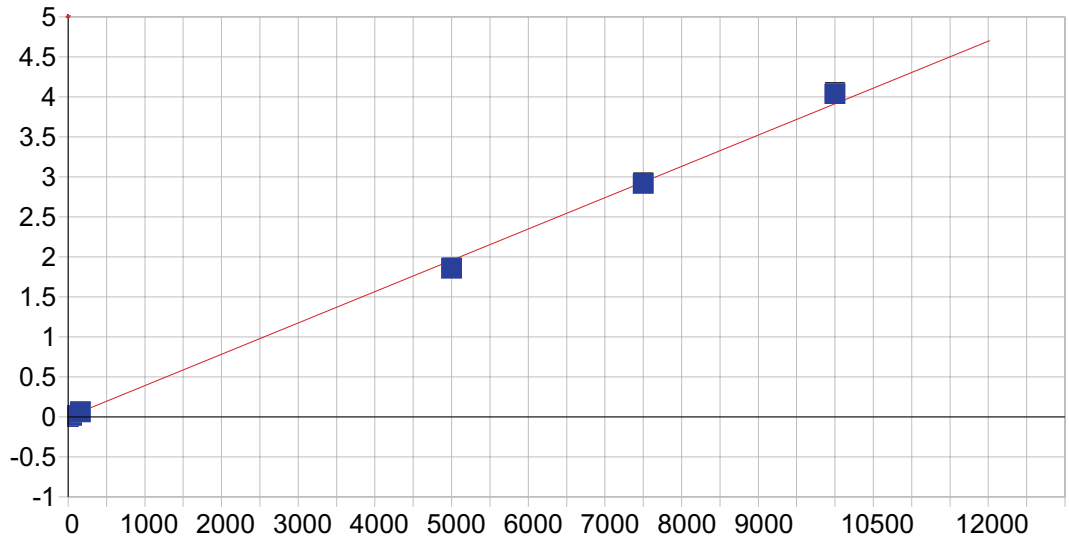
Na 589.592 { 57}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004415	Re-Slope:	1.000000
A1 (Gain):	0.000067	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999651	Status:	OK.
Std Error of Est:	0.001811		
Predicted MDL:	27.330920		
Predicted MQL:	91.103067		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.61297	-.613	.000	.00437	.001	1
S01 ISM-458	3000.0	3346.2	346.	11.5	.22728	.002	1
S02 ISM-459	12000.	12832.	832.	6.93	.85903	.005	1
S03 ISM-515	25000.	25930.	930.	3.72	1.7314	.075	1
S06 ISM-463	75000.	74592.	-408.	-.544	4.9723	.252	1
S08 ISM-465	37500.	37790.	290.	.774	2.5213	.014	1
S09 ISM-456	100000.	98010.	-1990.	-1.99	6.5319	.256	1

PDF created with pdfFactory trial version www.pdffactory.com



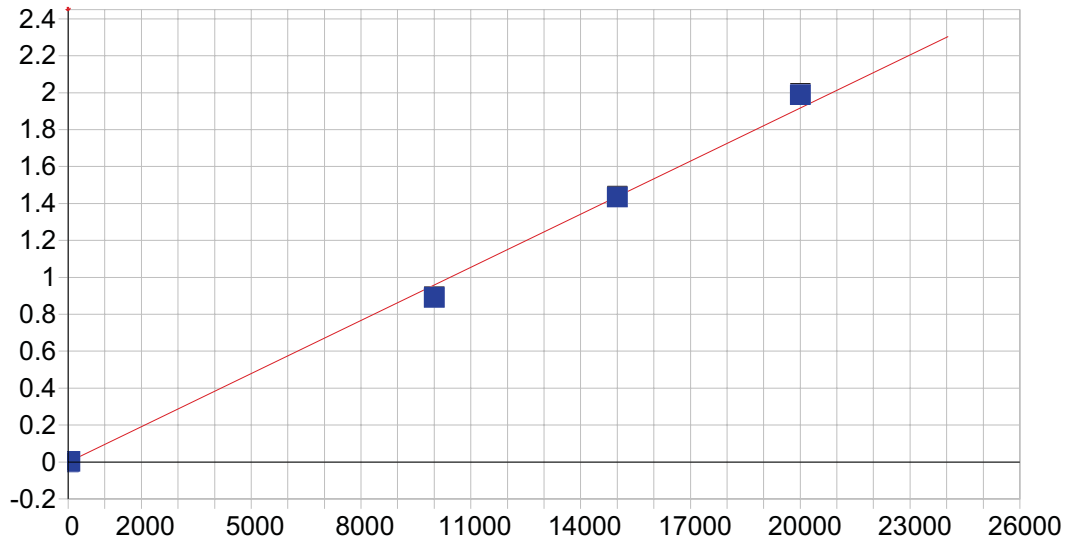
Ni 231.604 {445}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000411	Re-Slope:	1.000000
A1 (Gain):	0.000392	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999468	Status:	OK.
Std Error of Est:	0.000471		
Predicted MDL:	0.305954		
Predicted MQL:	1.019847		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00237	.002	.000	-.00041	.000	1
S01 ISM-458	40.000	40.059	.059	.147	.01528	.000	1
S02 ISM-459	160.00	154.64	-5.36	-3.35	.06017	.000	1
S03 ISM-515	5000.0	4740.0	-260.	-5.20	1.8561	.004	1
S04 ISM-461	7500.0	7447.2	-52.8	-.704	2.9170	.007	1
S05 ISM-462	10000.	10318.	318.	3.18	4.0415	.010	1

PDF created with pdfFactory trial version www.pdffactory.com



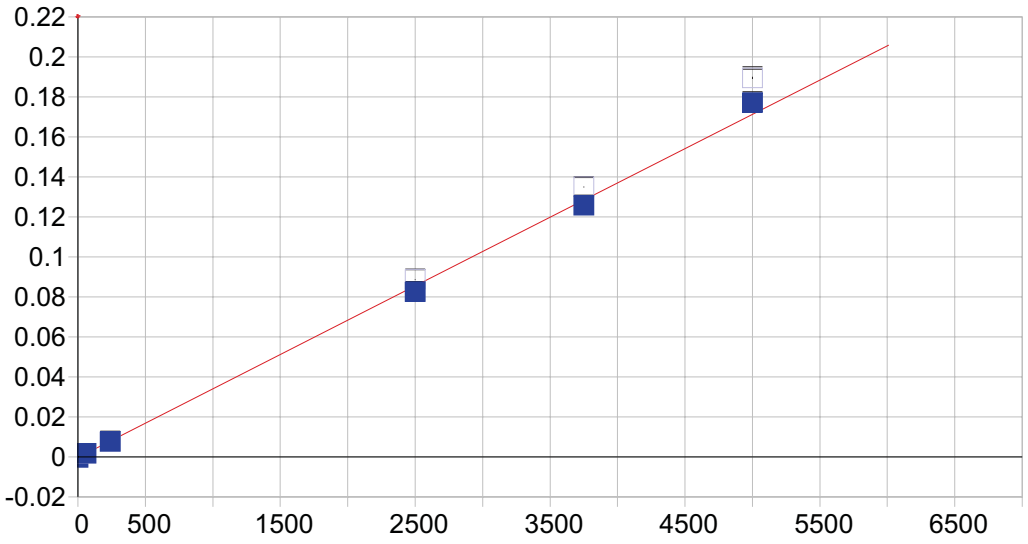
Pb 220.353 {453}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000126	Re-Slope:	1.000000
A1 (Gain):	0.000096	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999136	Status:	OK.
Std Error of Est:	0.000104		
Predicted MDL:	1.581061		
Predicted MQL:	5.270203		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00215	.002	.000	-.00013	.000	1
S01 ISM-458	10.000	8.5162	-1.48	-14.8	.00070	.000	1
S02 ISM-459	40.000	38.743	-1.26	-3.14	.00363	.000	1
S03 ISM-515	10000.	9296.1	-704.	-7.04	.89368	.002	1
S04 ISM-461	15000.	14957.	-42.8	-.285	1.4345	.004	1
S05 ISM-462	20000.	20751.	751.	3.75	1.9901	.006	1

PDF created with pdfFactory trial version www.pdffactory.com



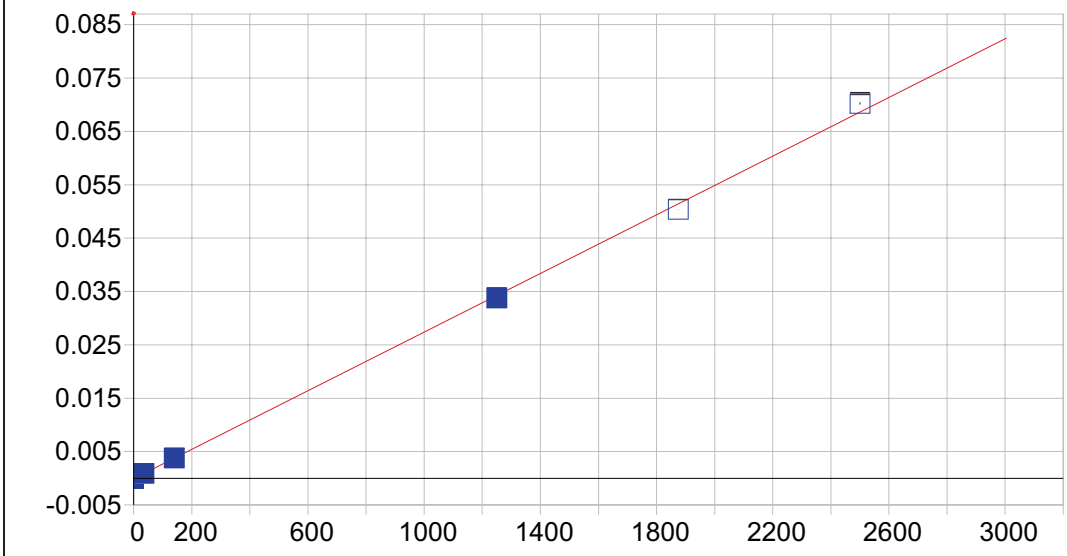
Sb 206.833 {463}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000271	Re-Slope:	1.000000
A1 (Gain):	0.000034	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999604	Status:	OK.
Std Error of Est:	0.000033		
Predicted MDL:	2.149645		
Predicted MQL:	7.165483		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00575	.006	.000	-.00027	.000	1
S01 ISM-458	60.000	57.128	-2.87	-4.79	.00168	.000	1
S02 ISM-459	240.00	233.31	-6.69	-2.79	.00774	.000	1
S03 ISM-515	2500.0	2416.6	-83.4	-3.34	.08878	.000	1
S04 ISM-461	3750.0	3672.4	-77.6	-2.07	.13501	.000	1
S05 ISM-462	5000.0	5169.9	170.	3.40	.18949	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



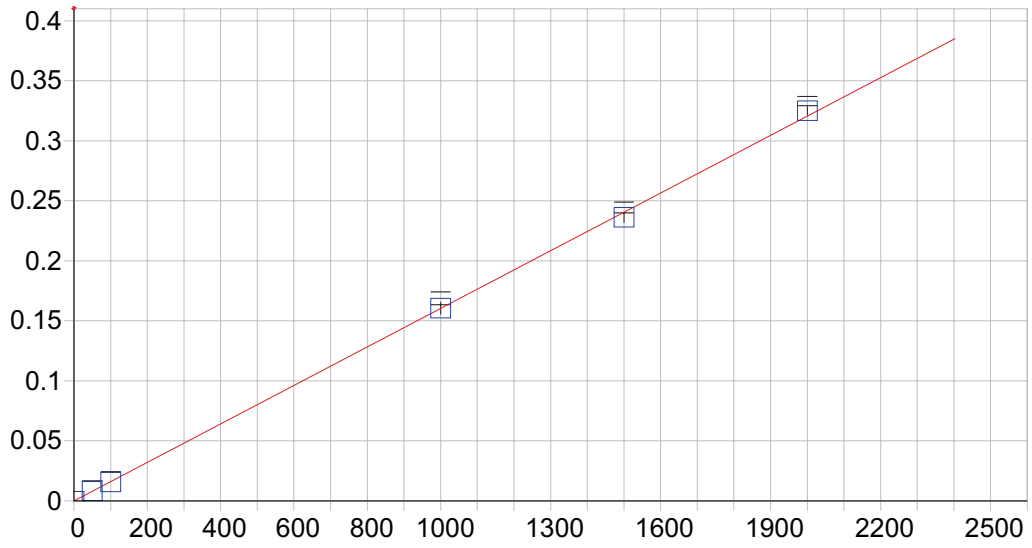
Se 196.090 {472}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear
Weighting:	1/Conc		

A0 (Offset):	-0.000101	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999788	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	2.192881		
Predicted MQL:	7.309603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00080	.001	.000	-.00010	.000	1
S01 ISM-458	35.000	34.779	-.221	-.630	.00085	.000	1
S02 ISM-459	140.00	139.45	-.553	-.395	.00373	.000	1
S03 ISM-515	1250.0	1230.5	-19.5	-1.56	.03373	.000	1
S04 ISM-461	1875.0	1836.7	-38.3	-2.04	.05038	.000	1
S05 ISM-462	2500.0	2558.6	58.6	2.34	.07022	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



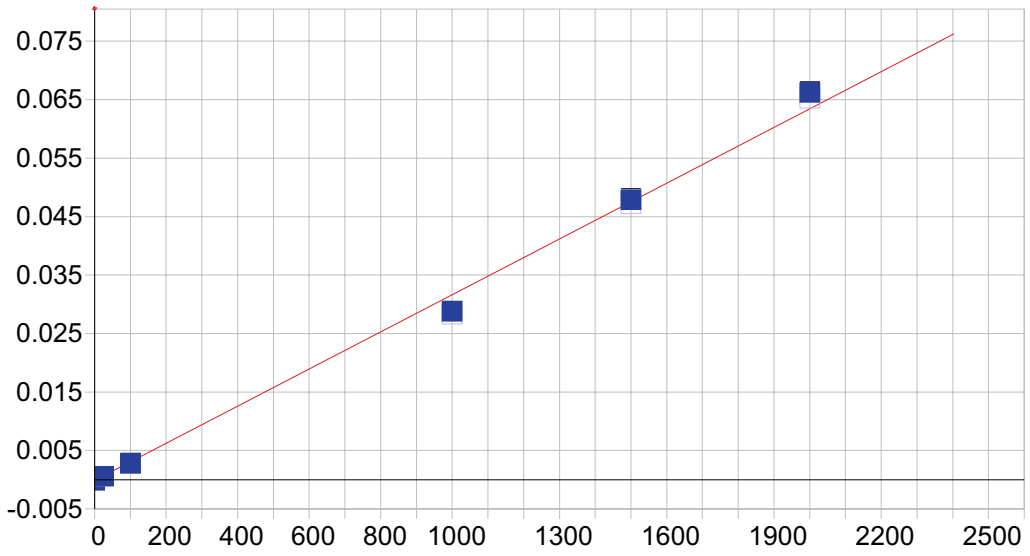
Ti 337.280 {100}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000064	Re-Slope:	1.000000
A1 (Gain):	0.000160	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999900	Status:	OK.
Std Error of Est:	0.000042		
Predicted MDL:	0.214765		
Predicted MQL:	0.715882		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00007	.000	.000	.00006	.000	1
S01 ISM-458	50.000	51.083	1.08	2.17	.00825	.000	1
S02 ISM-459	100.00	98.055	-1.94	-1.94	.01578	.000	1
S03 ISM-515	1000.0	1001.2	1.17	.117	.16051	.005	1
S04 ISM-461	1500.0	1472.6	-27.4	-1.82	.23606	.005	1
S05 ISM-462	2000.0	2027.1	27.1	1.35	.32491	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



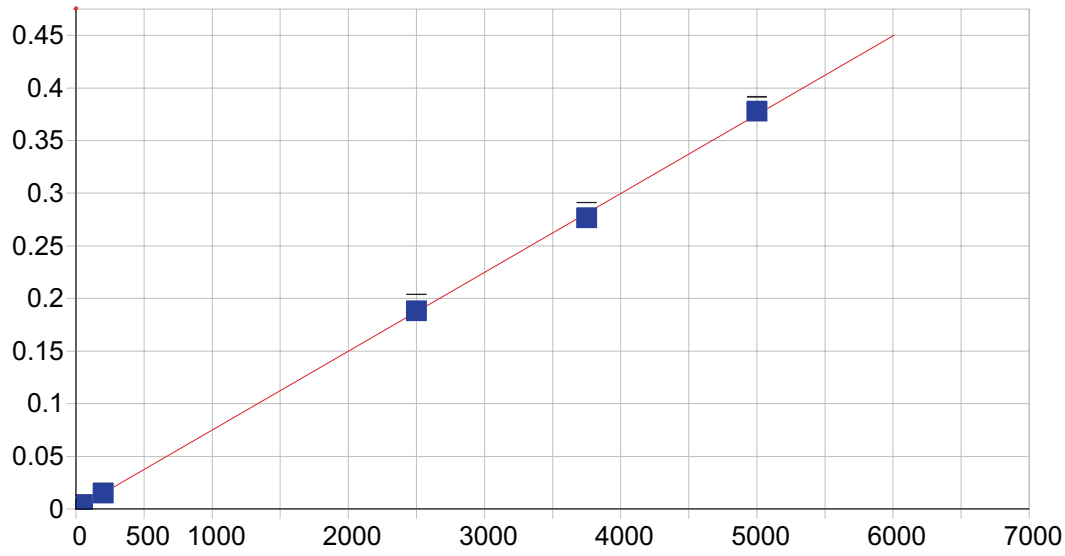
Tl 190.856 {477}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000150	Re-Slope:	1.000000
A1 (Gain):	0.000032	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998578	Status:	OK.
Std Error of Est:	0.000022		
Predicted MDL:	1.435083		
Predicted MQL:	4.783610		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00417	.004	.000	-.00015	.000	1
S01 ISM-458	25.000	23.785	-1.22	-4.86	.00059	.000	1
S02 ISM-459	100.00	92.034	-7.97	-7.97	.00272	.000	1
S03 ISM-515	1000.0	909.92	-90.1	-9.01	.02828	.000	1
S04 ISM-461	1500.0	1511.2	11.2	.747	.04715	.000	1
S05 ISM-462	2000.0	2088.0	88.0	4.40	.06524	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



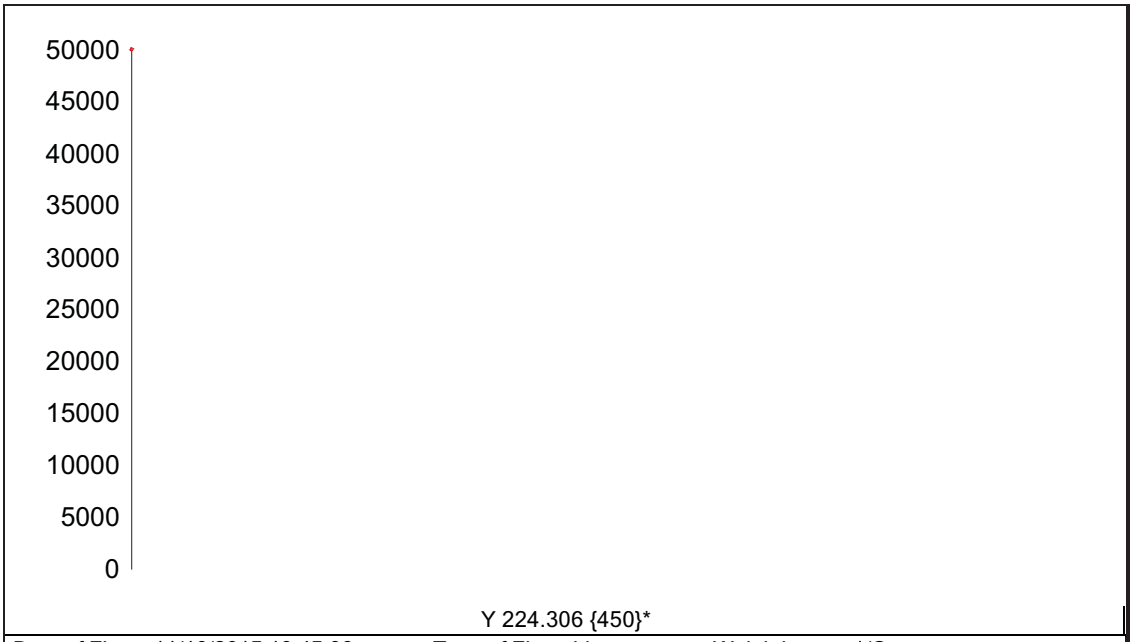
V 292.402 {115}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000038	Re-Slope:	1.000000
A1 (Gain):	0.000075	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999935	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.345185		
Predicted MQL:	1.150618		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00119	-.001	.000	.00004	.000	1
S01 ISM-458	50.000	52.018	2.02	4.04	.00392	.000	1
S02 ISM-459	200.00	196.87	-3.13	-1.57	.01476	.000	1
S03 ISM-515	2500.0	2513.2	13.2	.527	.18803	.006	1
S04 ISM-461	3750.0	3692.8	-57.2	-1.53	.27626	.005	1
S05 ISM-462	5000.0	5045.2	45.2	.903	.37743	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



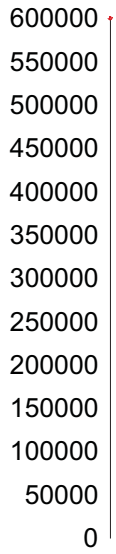
Date of Fit:	11/10/2015 10:45:06		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	38814.	47.4	1

PDF created with pdfFactory trial version www.pdffactory.com

Date of Fit:	11/10/2015 10:45:06		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	11802.	382.	1

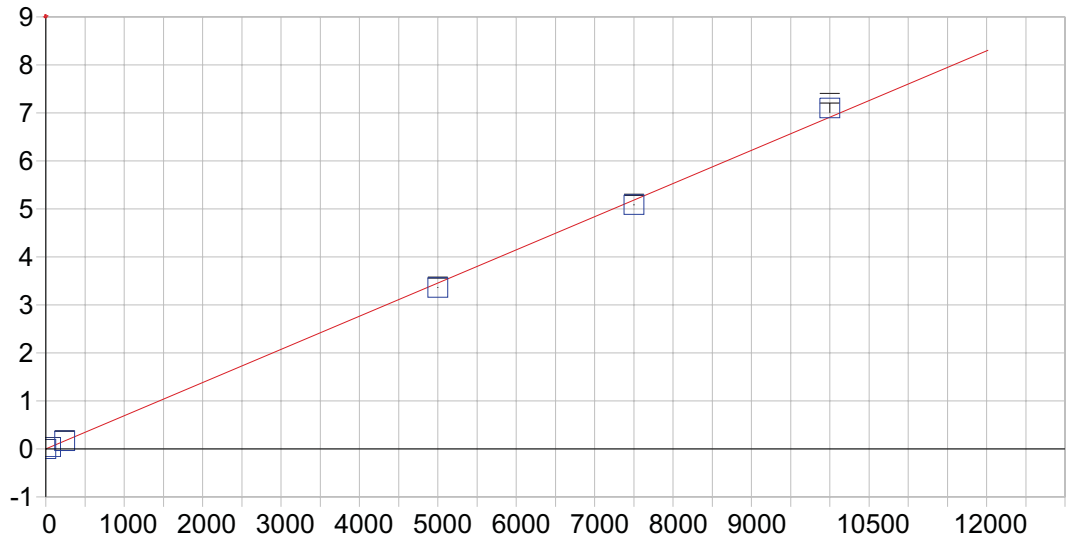


Y 371.030 { 91}2*

Date of Fit:	11/10/2015 10:45:06		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	557550.	8110.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/10/2015 10:45:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000073	Re-Slope:	1.000000
A1 (Gain):	0.000691	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999698	Status:	OK.
Std Error of Est:	0.000769		
Predicted MDL:	0.108667		
Predicted MQL:	0.362225		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00067	.001	.000	-.00007	.000	1
S01 ISM-458	60.000	61.129	1.13	1.88	.04217	.000	1
S02 ISM-459	240.00	237.12	-2.88	-1.20	.16379	.000	1
S03 ISM-515	5000.0	4865.0	-135.	-2.70	3.3620	.008	1
S04 ISM-461	7500.0	7362.1	-138.	-1.84	5.0877	.012	1
S05 ISM-462	10000.	10275.	275.	2.75	7.1004	.098	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/9/2015 11:52:21 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00004	.00290	-.00011	-.00187	.00053	.00460	-.0002
Stddev	.00000	.00023	.00004	.00057	.00001	.00042	.0001
%RSD	6.1155	7.8111	32.017	30.545	2.6715	9.1415	43.78
#1	.00004	.00264	-.00014	-.00173	.00053	.00506	-.0002
#2	.00005	.00299	-.00007	-.00138	.00052	.00448	-.0004
#3	.00004	.00306	-.00013	-.00250	.00055	.00424	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00022	.00013	.00090	.00040	-.0008	-.0001	.00001
Stddev	.00012	.00001	.00002	.00017	.0005	.0002	.00001
%RSD	57.594	5.5343	1.8886	42.630	66.74	248.7	67.896
#1	.00023	.00013	.00092	.00028	-.0004	-.0002	.00002
#2	.00009	.00012	.00089	.00059	-.0014	-.0000	.00000
#3	.00034	.00013	.00088	.00032	-.0006	.0001	.00002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00093	.00437	-.00041	-.00013	-.00027	-.00010	.0001
Stddev	.00005	.00054	.00011	.00014	.00012	.00006	.0000
%RSD	5.1007	12.419	26.767	111.43	44.106	60.158	5.425
#1	.00097	.00458	-.00032	-.00011	-.00040	-.00004	.0001
#2	.00094	.00376	-.00053	-.00028	-.00018	-.00016	.0001
#3	.00088	.00478	-.00038	.00000	-.00023	-.00010	.0001

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/9/2015 11:52:21 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00015	.00004	-.00007
Stddev	.00004	.00001	.00006
%RSD	23.892	30.580	76.472
#1	-.00012	.00003	-.00010
#2	-.00013	.00003	-.00011
#3	-.00019	.00005	-.00001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38814.	11802.	557550.
Stddev	47.	382.	8109.
%RSD	.12211	3.2385	1.4544
#1	38863.	11506.	549490.
#2	38808.	11667.	565710.
#3	38769.	12234.	557460.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-458 Acquired: 11/9/2015 11:57:07 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00060	.00431	.00027	.31577	.00869	.36164	.0046
Stddev	.00002	.00040	.00003	.00125	.00005	.00336	.0000
%RSD	2.7176	9.3737	12.012	.39669	.62734	.92797	.7761
#1	.00062	.00419	.00025	.31457	.00863	.35807	.0046
#2	.00060	.00476	.00026	.31707	.00868	.36213	.0046
#3	.00059	.00399	.00031	.31566	.00874	.36472	.0046

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03059	.00067	.00191	.00273	.1044	.0354	.00491
Stddev	.00009	.00002	.00004	.00002	.0017	.0002	.00003
%RSD	.28365	2.3862	1.9855	.76291	1.604	.6735	.54467
#1	.03067	.00069	.00191	.00271	.1037	.0352	.00491
#2	.03061	.00067	.00187	.00274	.1033	.0354	.00489
#3	.03050	.00066	.00194	.00275	.1063	.0357	.00494

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01130	.22728	.01528	.00070	.00168	.00085	.0083
Stddev	.00006	.00227	.00014	.00012	.00001	.00003	.0000
%RSD	.53526	1.0002	.88824	16.534	.70673	3.0968	.5638
#1	.01130	.22631	.01539	.00059	.00167	.00084	.0082
#2	.01135	.22564	.01533	.00068	.00168	.00088	.0083
#3	.01123	.22987	.01513	.00082	.00170	.00084	.0083

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-458 Acquired: 11/9/2015 11:57:07 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00059	.00392	.04217
Stddev	.00003	.00003	.00011
%RSD	5.1336	.67819	.26421
#1	.00057	.00391	.04230
#2	.00058	.00390	.04213
#3	.00063	.00395	.04209

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38075.	11306.	537880.
Stddev	182.	137.	7559.
%RSD	.47810	1.2138	1.4054
#1	38109.	11259.	537180.
#2	37878.	11461.	545760.
#3	38238.	11199.	530690.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-459 Acquired: 11/9/2015 12:01:51 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00226	.00748	.00160	1.2412	.03211	1.4005	.0193
Stddev	.00005	.00024	.00001	.0096	.00043	.0095	.0002
%RSD	2.0522	3.2333	.75377	.76985	1.3397	.67765	1.254
#1	.00225	.00720	.00160	1.2496	.03217	1.4114	.0191
#2	.00221	.00765	.00161	1.2308	.03165	1.3937	.0191
#3	.00230	.00757	.00158	1.2432	.03250	1.3965	.0195

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.11615	.00225	.00469	.00896	.4105	.1383	.01845
Stddev	.00017	.00003	.00001	.00020	.0023	.0014	.00023
%RSD	.14269	1.1578	.13444	2.2104	.5657	1.035	1.2201
#1	.11633	.00226	.00470	.00901	.4131	.1399	.01850
#2	.11612	.00222	.00469	.00913	.4085	.1376	.01820
#3	.11600	.00226	.00469	.00875	.4101	.1373	.01865

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.02168	.85903	.06017	.00363	.00774	.00373	.0158
Stddev	.00007	.00451	.00015	.00004	.00005	.00003	.0002
%RSD	.30790	.52546	.24697	1.1100	.69171	.92426	1.150
#1	.02172	.86416	.06031	.00367	.00770	.00376	.0158
#2	.02160	.85565	.06019	.00359	.00780	.00369	.0156
#3	.02172	.85729	.06001	.00363	.00771	.00374	.0159

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S02 ISM-459 Acquired: 11/9/2015 12:01:51 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00272	.01476	.16379
Stddev	.00003	.00018	.00038
%RSD	1.2735	1.2365	.23492
#1	.00269	.01473	.16424
#2	.00271	.01459	.16355
#3	.00276	.01495	.16360

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37883.	11196.	538990.
Stddev	137.	82.	1772.
%RSD	.36245	.73461	.32879
#1	37756.	11225.	540650.
#2	38029.	11103.	539190.
#3	37864.	11260.	537120.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-515 Acquired: 11/9/2015 12:06:35 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04319	.27890	.10612	15.346	1.6070	3.3984	1.017
Stddev	.00150	.01216	.00046	.684	.0393	.1519	.003
%RSD	3.4826	4.3598	.43255	4.4571	2.4483	4.4682	.2812
#1	.04492	.26493	.10582	14.558	1.6523	3.2238	1.017
#2	.04228	.28709	.10590	15.779	1.5863	3.5000	1.015
#3	.04236	.28468	.10665	15.702	1.5823	3.4713	1.021

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.8534	.51888	.47168	.49572	.7534	.3397	1.5092
Stddev	.0069	.01769	.01656	.02336	.0330	.0158	.0336
%RSD	.24132	3.4096	3.5117	4.7119	4.378	4.666	2.2230
#1	2.8505	.53931	.49080	.46884	.7153	.3216	1.5467
#2	2.8484	.50855	.46199	.51110	.7733	.3510	1.4820
#3	2.8612	.50878	.46224	.50721	.7716	.3464	1.4990

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.21062	1.7314	1.8561	.89368	.08878	.03373	.1605
Stddev	.00062	.0748	.0043	.00213	.00014	.00008	.0053
%RSD	.29200	4.3197	.23166	.23782	.15571	.25178	3.303
#1	.21020	1.6456	1.8542	.89226	.08883	.03365	.1666
#2	.21034	1.7832	1.8531	.89265	.08862	.03371	.1573
#3	.21133	1.7653	1.8611	.89612	.08888	.03382	.1576

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S03 ISM-515 Acquired: 11/9/2015 12:06:35 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.02828	.18803	3.3620
Stddev	.00004	.00626	.0084
%RSD	.12454	3.3289	.25081
#1	.02831	.19526	3.3596
#2	.02824	.18434	3.3551
#3	.02830	.18449	3.3714

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36345.	11342.	518600.
Stddev	114.	386.	16534.
%RSD	.31347	3.4028	3.1883
#1	36476.	11786.	499760.
#2	36264.	11091.	530720.
#3	36296.	11148.	525300.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-461 Acquired: 11/9/2015 12:11:41 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06403	.15805	23.442	2.2686	1.551	4.4877	.76352
Stddev	.00118	.00032	.371	.0457	.004	.0121	.01764
%RSD	1.8440	.20546	1.5835	2.0156	.2424	.26882	2.3099
#1	.06450	.15768	23.018	2.2676	1.547	4.4743	.75387
#2	.06269	.15817	23.709	2.2234	1.554	4.4912	.75282
#3	.06491	.15830	23.598	2.3149	1.554	4.4977	.78388

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.72251	2.2517	.31981	2.9170	1.4345	.13501	.05038
Stddev	.02122	.0246	.00068	.0071	.0043	.00026	.00005
%RSD	2.9369	1.0945	.21328	.24199	.30107	.19081	.10561
#1	.71479	2.2652	.31903	2.9090	1.4297	.13472	.05034
#2	.70623	2.2233	.32008	2.9193	1.4358	.13517	.05036
#3	.74651	2.2667	.32031	2.9226	1.4380	.13515	.05044

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2361	.04715	.27626	5.0877
Stddev	.0045	.00020	.00535	.0123
%RSD	1.920	.42715	1.9378	.24228
#1	.2378	.04693	.27854	5.0735
#2	.2309	.04719	.27014	5.0937
#3	.2394	.04733	.28009	5.0959

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S04 ISM-461 Acquired: 11/9/2015 12:11:41 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37383.	11149.	551650.
Stddev	127.	119.	8810.
%RSD	.33865	1.0700	1.5971
#1	37524.	11206.	549760.
#2	37279.	11012.	561240.
#3	37347.	11229.	543930.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-462 Acquired: 11/9/2015 12:17:06 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.08773	.22021	31.343	3.0697	2.163	6.2157	1.0409
Stddev	.00106	.00061	.792	.0054	.005	.0157	.0258
%RSD	1.2087	.27782	2.5263	.17520	.2363	.25183	2.4779
#1	.08878	.21951	30.714	3.0759	2.158	6.2015	1.0683
#2	.08775	.22044	32.232	3.0671	2.163	6.2130	1.0373
#3	.08666	.22066	31.082	3.0661	2.168	6.2325	1.0172

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.99541	3.0221	.44820	4.0415	1.9901	.18949	.07022
Stddev	.01891	.0572	.00140	.0104	.0057	.00052	.00021
%RSD	1.8996	1.8940	.31131	.25815	.28425	.27416	.30359
#1	1.0170	3.0795	.44693	4.0324	1.9846	.18892	.07003
#2	.98732	3.0218	.44796	4.0394	1.9899	.18962	.07019
#3	.98190	2.9650	.44970	4.0529	1.9959	.18993	.07045

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3249	.06524	.37743	7.1004
Stddev	.0038	.00016	.00450	.0982
%RSD	1.184	.24746	1.1911	1.3824
#1	.3286	.06513	.38168	6.9924
#2	.3252	.06516	.37789	7.1248
#3	.3209	.06542	.37273	7.1841

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S05 ISM-462 Acquired: 11/9/2015 12:17:06 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36137.	11216.	542320.
Stddev	229.	156.	8011.
%RSD	.63254	1.3870	1.4771
#1	36339.	11198.	533610.
#2	36182.	11070.	544000.
#3	35889.	11380.	549360.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S06 ISM-463 Acquired: 11/9/2015 12:22:39 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.83778	10.095	1.4742	2.222	1.008	4.9723
Stddev	.04585	.530	.0796	.112	.052	.2520
%RSD	5.4727	5.2547	5.3997	5.042	5.188	5.0685
#1	.87113	10.457	1.5312	2.302	1.045	5.1462
#2	.78550	9.4860	1.3833	2.094	.9484	4.6833
#3	.85672	10.342	1.5082	2.270	1.031	5.0875

Int. Std.	Y_3710
Units	Cts/S
Avg	11247.
Stddev	571.
%RSD	5.0795
#1	10831.
#2	11898.
#3	11011.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S07 ISM-464 Acquired: 11/9/2015 12:27:24 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6896	20.242	2.9547	2.024
Stddev	.0997	1.162	.1653	.115
%RSD	5.8977	5.7381	5.5927	5.673
#1	1.6367	19.626	2.8718	1.966
#2	1.8045	21.581	3.1450	2.156
#3	1.6275	19.517	2.8474	1.949

Int. Std.	Y_3710
Units	Cts/S
Avg	10775.
Stddev	555.
%RSD	5.1489
#1	11144.
#2	10137.
#3	11043.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S08 ISM-465 Acquired: 11/9/2015 12:32:05 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.103	2.5213
Stddev	.008	.0137
%RSD	.6871	.54189
#1	1.095	2.5086
#2	1.103	2.5195
#3	1.110	2.5357

Int. Std.	Y_3710
Units	Cts/S
Avg	11221.
Stddev	77.
%RSD	.68572
#1	11241.
#2	11286.
#3	11136.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S09 ISM-456 Acquired: 11/9/2015 12:36:48 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	6.5319
Stddev	.2557
%RSD	3.9142
#1	6.3421
#2	6.4310
#3	6.8227

Int. Std.	Y_3710
Units	Cts/S
Avg	10881.
Stddev	359.
%RSD	3.2959
#1	11190.
#2	10965.
#3	10488.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S10 ISM-457 Acquired: 11/9/2015 12:41:35 Type: Cal
Method: CLP ISM Method ICP5 A(v12) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2170
Stddev	.0016
%RSD	.7454
#1	.2164
#2	.2157
#3	.2188

Int. Std.	Y_3710
Units	Cts/S
Avg	11058.
Stddev	5.
%RSD	.04603
#1	11057.
#2	11053.
#3	11063.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/9/2015 12:46:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	508.17	2663.2	1024.2	514.38	517.68	10691.	491.6
Stddev	2.44	35.1	2.2	4.23	7.43	91.	.6
%RSD	.48091	1.3163	.21937	.82316	1.4362	.85360	.1295
#1	508.77	2700.4	1021.6	509.51	516.01	10591.	492.3
#2	510.27	2630.7	1025.1	516.43	525.81	10714.	491.0
#3	505.49	2658.4	1025.9	517.20	511.22	10769.	491.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	497.18	507.10	494.09	5302.4	10630.	6419.	521.58
Stddev	.49	2.36	2.96	50.6	154.	26.	2.32
%RSD	.09799	.46593	.59882	.95419	1.451	.4106	.44415
#1	497.58	508.49	494.90	5254.1	10450.	6388.	521.66
#2	496.64	508.43	496.56	5298.3	10720.	6435.	523.85
#3	497.31	504.37	490.81	5355.0	10720.	6432.	519.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/9/2015 12:46:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5403	11081.	499.22	959.69	995.34	1004.0	.1685
Stddev	.3183	80.	.12	2.88	1.82	2.0	.0860
%RSD	12.530	.72548	.02371	.30014	.18253	.19824	51.07
#1	-2.7526	11006.	499.31	962.84	997.42	1003.7	.2594
#2	-2.6941	11166.	499.08	957.20	994.03	1002.2	.0883
#3	-2.1744	11071.	499.25	959.02	994.59	1006.1	.1578
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1014.3	508.68	1021.5
Stddev	4.8	1.84	.9
%RSD	.47518	.36096	.08969
#1	1013.7	509.44	1022.2
#2	1009.7	510.01	1020.5
#3	1019.3	506.59	1021.9
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICV ISM-514 Acquired: 11/9/2015 12:46:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37257.	11089.	535470.
Stddev	49.	93.	1564.
%RSD	.13168	.84057	.29206
#1	37261.	11176.	536550.
#2	37303.	11102.	533680.
#3	37205.	10991.	536190.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/9/2015 12:51:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18547	-3.5194	-.01814	-.25830	.02416	2.8207	-.0703
Stddev	.13102	35.028	1.1273	.32769	.01082	1.9890	.1443
%RSD	70.645	995.29	6213.6	126.86	44.768	70.516	205.3
#1	-.05845	4.4719	-1.1517	.09700	.01636	3.9469	.0592
#2	-.17780	-41.852	-.00566	-.54866	.01962	.52409	-.0442
#3	-.32016	26.822	1.1029	-.32324	.03651	3.9910	-.2259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02294	.45883	.55659	10.313	148.3	17.82	-.05984
Stddev	.14016	.19979	1.0954	12.574	67.1	63.30	.05366
%RSD	610.98	43.543	196.80	121.93	45.28	355.3	89.679
#1	-.01556	.62596	.86500	18.076	195.1	-36.97	-.10687
#2	-.16665	.23755	-.65990	17.057	71.37	87.12	-.00138
#3	.11339	.51298	1.4647	-4.1946	178.4	3.304	-.07126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/9/2015 12:51:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3483	24.931	-.13355	.00905	-.68864	-.09221	.4349
Stddev	.1892	10.344	.11573	.87033	1.0573	1.8824	.6236
%RSD	8.0563	41.490	86.656	9619.7	153.53	2041.3	143.4
#1	-2.1305	14.485	-.24550	-.36051	.39062	-.57982	-.0087
#2	-2.4723	25.139	-.14078	1.0032	-.73403	1.9860	1.148
#3	-2.4420	35.170	-.01438	-.61553	-1.7225	-1.6829	.1655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.01763	-.10245	-.25370
Stddev	.57867	.08697	.07422
%RSD	3282.3	84.884	29.256
#1	.17423	-.12569	-.18434
#2	.50188	-.00623	-.33198
#3	-.62322	-.17544	-.24478
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICB Acquired: 11/9/2015 12:51:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38064.	11267.	540720.
Stddev	71.	345.	15064.
%RSD	.18565	3.0623	2.7860
#1	37983.	10961.	543100.
#2	38110.	11200.	554450.
#3	38100.	11641.	524610.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-467 Acquired: 11/9/2015 12:56:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12048	257470.	-5.6677	8.0565	.22971	255200.	1.067
Stddev	.39186	1693.	.6528	.1249	.01235	2460.	.084
%RSD	325.24	.65743	11.517	1.5508	5.3752	.96412	7.903
#1	.37413	255790.	-5.3775	7.9125	.21546	253150.	1.162
#2	-.33084	257450.	-6.4152	8.1203	.23716	254520.	.9998
#3	.31816	259180.	-5.2104	8.1366	.23652	257930.	1.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29338	61.092	1.9983	102240.	246.5	269200.	18.486
Stddev	.07273	.753	.6956	931.	43.8	3385.	.214
%RSD	24.790	1.2326	34.811	.91102	17.78	1.258	1.1552
#1	-.37202	61.896	2.7328	101520.	261.4	266100.	18.733
#2	-.22854	60.978	1.9127	101900.	197.2	268500.	18.356
#3	-.27957	60.403	1.3495	103290.	281.0	272800.	18.371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-467 Acquired: 11/9/2015 12:56:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35681	70.036	2.9550	4.4526	1.2455	-1.1257	3.707
Stddev	.25539	17.127	.2007	.7587	2.0920	2.8209	.084
%RSD	71.577	24.455	6.7900	17.039	167.97	250.60	2.271
#1	-.06200	50.927	2.7824	4.1345	3.6210	-3.8896	3.748
#2	-.51069	84.004	3.1752	5.3186	.43794	1.7490	3.763
#3	-.49774	75.176	2.9075	3.9048	-.32239	-1.2364	3.610
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.2125	1.8512	1.3899
Stddev	1.3017	.5277	.0676
%RSD	58.836	28.508	4.8626
#1	-2.4186	1.6667	1.3200
#2	-.81998	1.4404	1.4549
#3	-3.3988	2.4464	1.3946
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSA ISM-467 Acquired: 11/9/2015 12:56:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	34445.	10727.	480390.
Stddev	145.	35.	4942.
%RSD	.42181	.32453	1.0288
#1	34369.	10712.	475030.
#2	34613.	10766.	481370.
#3	34354.	10701.	484770.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-468 Acquired: 11/9/2015 13:00:51 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	220.12	255530.	95.762	531.60	551.95	255330.	1024.
Stddev	8.84	12539.	.599	24.77	28.66	12131.	1.
%RSD	4.0174	4.9070	.62547	4.6604	5.1925	4.7510	.0718
#1	227.89	259610.	96.338	539.02	584.26	259850.	1023.
#2	210.50	265520.	95.806	551.82	529.60	264550.	1024.
#3	221.99	241460.	95.143	503.96	541.98	241590.	1024.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	475.30	590.58	515.55	102600.	134.5	269700.	560.02
Stddev	.50	24.41	23.59	4985.	72.7	12950.	22.44
%RSD	.10547	4.1337	4.5748	4.8590	54.06	4.804	4.0075
#1	474.97	612.47	535.95	104540.	160.1	274800.	580.48
#2	475.05	564.25	489.72	106320.	190.9	279300.	536.02
#3	475.88	595.02	520.96	96933.	52.44	254900.	563.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-468 Acquired: 11/9/2015 13:00:51 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.97847	80.248	946.69	48.440	598.28	51.288	4.032
Stddev	.47100	19.907	1.45	7.672	2.16	3.891	.652
%RSD	48.137	24.806	.15295	15.838	.36064	7.5871	16.17
#1	-1.3845	103.01	945.34	43.247	598.40	47.359	4.783
#2	-.46210	71.676	946.50	44.821	600.38	55.140	3.619
#3	-1.0888	66.064	948.22	57.252	596.07	51.366	3.693
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	91.538	526.96	993.37
Stddev	1.119	20.95	1.46
%RSD	1.2225	3.9762	.14658
#1	90.291	545.86	992.69
#2	91.869	504.43	992.38
#3	92.454	530.59	995.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: ICSAB ISM-468 Acquired: 11/9/2015 13:00:51 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	34741.	10904.	477630.
Stddev	246.	432.	21548.
%RSD	.70813	3.9631	4.5114
#1	34562.	10637.	457620.
#2	35021.	10673.	500440.
#3	34639.	11403.	474810.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV001 Acquired: 11/9/2015 13:05:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV ISM-515

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	751.98	49306.	2486.5	9865.0	1017.7	50227.	984.1
Stddev	9.78	230.	3.6	43.9	10.5	183.	.4
%RSD	1.3011	.46686	.14604	.44525	1.0343	.36340	.0402
#1	746.68	49209.	2490.7	9816.0	1007.1	50060.	983.7
#2	763.28	49140.	2484.5	9878.3	1028.2	50200.	984.1
#3	746.00	49568.	2484.3	9900.8	1017.7	50422.	984.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4810.5	10093.	12200.	25152.	37870.	50760.	4866.4
Stddev	2.4	142.	8.	55.	117.	241.	79.4
%RSD	.05047	1.4053	.06401	.21949	.3085	.4746	1.6321
#1	4812.4	10007.	12194.	25092.	37750.	50680.	4873.0
#2	4807.8	10257.	12209.	25164.	37890.	50570.	4942.4
#3	4811.4	10016.	12196.	25201.	37980.	51030.	4783.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV001 Acquired: 11/9/2015 13:05:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV ISM-515

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	973.80	26125.	4769.0	9416.0	2434.1	1239.2	995.0
Stddev	.55	104.	3.3	11.6	4.9	2.9	14.3
%RSD	.05687	.39659	.06954	.12291	.20235	.23653	1.438
#1	974.27	26061.	4772.7	9429.4	2435.3	1242.0	987.7
#2	973.19	26070.	4766.3	9408.7	2428.7	1239.6	1011.
#3	973.94	26245.	4768.1	9410.0	2438.4	1236.2	985.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	930.12	2505.0	4921.0
Stddev	1.36	34.2	6.4
%RSD	.14609	1.3670	.12918
#1	928.71	2489.3	4928.3
#2	930.23	2544.3	4917.7
#3	931.42	2481.4	4917.0
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV001 Acquired: 11/9/2015 13:05:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV ISM-515

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36508.	11369.	524690.
Stddev	107.	100.	4343.
%RSD	.29436	.87590	.82774
#1	36394.	11315.	528880.
#2	36522.	11484.	520210.
#3	36608.	11307.	524990.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/9/2015 13:10:46 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32722	-5.7538	-.11571	.95655	.04800	27.868	-.0542
Stddev	.69847	96.755	.55623	.43543	.01836	6.033	.1082
%RSD	213.45	1681.6	480.70	45.521	38.257	21.648	199.5
#1	-.27443	-108.56	-.56673	1.3431	.05076	24.564	-.1767
#2	-1.0506	7.766	.50582	1.0417	.02841	34.831	-.0143
#3	.34336	83.530	-.28623	.48484	.06482	24.210	.0283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27959	.20509	.74421	15.742	122.7	4.813	.08680
Stddev	.06715	.48598	.62072	15.604	19.7	32.85	.07267
%RSD	24.016	236.96	83.408	99.121	16.04	682.7	83.720
#1	.20266	.75381	1.4581	33.633	142.8	-19.49	.14484
#2	.32641	.03252	.44223	8.6429	122.0	42.19	.11025
#3	.30969	-.17105	.33225	4.9504	103.5	-8.267	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/9/2015 13:10:46 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.46747	.64214	-.15398	-.41180	-1.8552	-.44707	.3465
Stddev	.34926	18.252	.18391	1.2229	.3542	1.7250	.0786
%RSD	74.713	2842.3	119.44	296.96	19.090	385.85	22.69
#1	-.11056	19.051	-.07664	-1.5195	-2.0440	.66611	.4082
#2	-.48330	-17.448	-.36392	.90046	-1.4466	-2.4341	.2580
#3	-.80854	.3229	-.02137	-.61639	-2.0749	.42684	.3734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.07778	.09037	-.07693
Stddev	.99886	.31021	.04866
%RSD	1284.3	343.25	63.252
#1	1.0418	-.06972	-.02305
#2	-.87752	.44792	-.09008
#3	-.39765	-.10708	-.11766
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/9/2015 13:10:46 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37978.	10980.	542060.
Stddev	52.	119.	6332.
%RSD	.13583	1.0847	1.1681
#1	37997.	11046.	535070.
#2	37920.	10842.	543680.
#3	38017.	11051.	547420.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89047-001 Acquired: 11/9/2015 13:15:33 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11469	64.627	-.67372	.42173	.01810	150.66	-.0774
Stddev	.08305	84.300	.27450	.55325	.00711	6.10	.1646
%RSD	72.409	130.44	40.743	131.19	39.289	4.0455	212.6
#1	-.07214	-10.896	-.50198	-.15103	.01642	151.74	-.2416
#2	-.21040	49.202	-.52889	.46307	.02590	144.10	-.0782
#3	-.06155	155.57	-.99030	.95315	.01198	156.14	.0876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00374	.38110	1.1567	27.422	80.11	-1.762	.08276
Stddev	.24896	.22459	.0531	8.095	47.86	31.51	.08382
%RSD	6650.6	58.933	4.5894	29.520	59.74	1788.	101.29
#1	.10441	.38183	1.1877	20.318	62.04	-36.18	.00471
#2	.18660	.60532	1.0954	25.713	43.92	25.68	.17135
#3	-.27978	.15614	1.1870	36.235	134.4	5.206	.07221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89047-001 Acquired: 11/9/2015 13:15:33 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7643	32.184	-.01538	.07861	-1.3004	1.0933	.6506
Stddev	.0944	14.483	.25615	.90618	.8599	1.1906	.2049
%RSD	5.3526	45.001	1666.0	1152.7	66.129	108.90	31.50
#1	-1.6583	37.790	.20924	.79999	-1.0347	.27994	.4156
#2	-1.7953	15.736	.03897	-.93849	-.60464	2.4599	.7922
#3	-1.8394	43.026	-.29434	.37434	-2.2618	.54007	.7439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.0844	.45013	1.2099
Stddev	1.7590	.06728	.0582
%RSD	162.21	14.946	4.8098
#1	-3.0226	.49787	1.1527
#2	.41087	.47934	1.2691
#3	-.64155	.37319	1.2079
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89047-001 Acquired: 11/9/2015 13:15:33 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38566.	11062.	546410.
Stddev	59.	89.	5104.
%RSD	.15367	.80259	.93412
#1	38506.	11127.	549940.
#2	38625.	10961.	548720.
#3	38568.	11099.	540560.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89047-002 Acquired: 11/9/2015 13:20:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.413	465.76	16.954	384.20	9.1715	10122.	8.595
Stddev	.404	62.76	.989	14.79	.1329	409.	.193
%RSD	2.1949	13.474	5.8362	3.8486	1.4492	4.0454	2.249
#1	18.559	444.22	15.981	368.87	9.3181	9718.9	8.480
#2	18.724	536.45	17.959	398.37	9.0588	10538.	8.487
#3	17.956	416.62	16.922	385.37	9.1378	10110.	8.818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	89.924	18.632	45.525	224.15	9862.	10220.	28.378
Stddev	.262	.348	.410	20.50	439.	428.	.381
%RSD	.29188	1.8699	.89970	9.1454	4.456	4.187	1.3423
#1	89.630	18.919	45.949	203.26	9396.	9780.	28.818
#2	90.135	18.733	45.495	244.23	10270.	10630.	28.151
#3	90.007	18.244	45.132	224.96	9920.	10260.	28.166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89047-002 Acquired: 11/9/2015 13:20:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1509	10535.	70.712	17.631	105.15	61.482	.3295
Stddev	.2179	413.	.182	.786	.76	.642	.0385
%RSD	10.130	3.9162	.25678	4.4560	.71830	1.0449	11.68
#1	-1.9223	10136.	70.883	17.414	104.54	61.564	.3044
#2	-2.1743	10960.	70.521	18.502	105.99	60.802	.3739
#3	-2.3562	10511.	70.732	16.976	104.90	62.079	.3104
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	41.753	91.120	111.17
Stddev	.492	1.190	.14
%RSD	1.1777	1.3061	.12698
#1	42.117	92.488	111.32
#2	41.948	90.551	111.15
#3	41.193	90.321	111.04
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89047-002 Acquired: 11/9/2015 13:20:20 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37794.	10607.	544880.
Stddev	208.	343.	4892.
%RSD	.54958	3.2380	.89775
#1	37648.	10866.	540230.
#2	37701.	10217.	544440.
#3	38032.	10737.	549980.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001 Acquired: 11/9/2015 13:25:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05173	130360.	57.754	617.80	5.5292	112150.
Stddev	.21776	687.	.717	4.24	.1193	640.
%RSD	420.93	.52681	1.2407	.68580	2.1579	.57038
#1	-.23430	129900.	57.694	615.02	5.5888	111740.
#2	.18929	131150.	58.498	622.67	5.6069	112880.
#3	-.11019	130040.	57.069	615.69	5.3918	111820.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.569	93.587	152.06	330.04	F 236580.	14280.
Stddev	.028	.137	3.54	7.01	1112.	76.
%RSD	.7816	.14621	2.3270	2.1241	.46992	.5291
#1	3.569	93.477	153.76	333.45	236060.	14190.
#2	3.597	93.543	154.43	334.70	237850.	14330.
#3	3.542	93.740	148.00	321.98	235820.	14310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001 Acquired: 11/9/2015 13:25:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	84130.	9118.0	1.8126	544.64	203.47	500.16
Stddev	677.	179.7	.2687	1.68	.14	.54
%RSD	.8041	1.9707	14.826	.30859	.06830	.10873
#1	83660.	9084.5	1.8594	544.24	203.55	499.82
#2	84910.	9312.0	1.5235	546.49	203.55	499.88
#3	83820.	8957.3	2.0549	543.20	203.31	500.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.81727	9.0390	446.6	6.6742	193.18	1156.1
Stddev	1.2922	.3748	10.3	1.3505	3.64	1.9
%RSD	158.12	4.1464	2.294	20.235	1.8842	.16295
#1	-.16900	9.4288	450.3	8.0972	194.68	1154.0
#2	2.2801	9.0070	454.5	5.4102	195.82	1156.6
#3	.34072	8.6812	435.0	6.5152	189.02	1157.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001 Acquired: 11/9/2015 13:25:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37884.	11465.	536630.
Stddev	321.	92.	9977.
%RSD	.84760	.79853	1.8592
#1	38232.	11534.	529790.
#2	37821.	11361.	532010.
#3	37599.	11500.	548070.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.605%	97.146%	96.247%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001L(5) Acquired: 11/9/2015 13:29:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03779	25559.	12.773	120.61	1.1318	22174.	.4201
Stddev	.48535	361.	.952	3.05	.0887	366.	.1865
%RSD	1284.2	1.4118	7.4554	2.5286	7.8375	1.6524	44.40
#1	-.55042	25232.	11.682	117.43	1.2334	21843.	.6271
#2	.41467	25499.	13.204	120.92	1.0698	22112.	.3678
#3	.02237	25946.	13.434	123.50	1.0923	22568.	.2653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.019	32.024	68.795	47054.	2804.	16860.	1920.9
Stddev	.213	1.757	3.892	775.	42.	269.	85.3
%RSD	1.0661	5.4874	5.6568	1.6472	1.504	1.594	4.4392
#1	19.781	34.050	73.286	46365.	2758.	16600.	1992.5
#2	20.193	31.113	66.409	46903.	2811.	16840.	1826.6
#3	20.084	30.909	66.690	47893.	2841.	17140.	1943.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001L(5) Acquired: 11/9/2015 13:29:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.6288	93.363	42.759	108.84	-1.8038	2.3524	93.20
Stddev	.0331	18.196	.382	1.64	1.5187	.7368	4.74
%RSD	2.0314	19.489	.89401	1.5072	84.191	31.322	5.086
#1	-1.5939	79.935	42.601	107.06	-3.3388	1.6958	98.67
#2	-1.6328	86.083	42.481	110.29	-1.7707	3.1493	90.58
#3	-1.6598	114.07	43.195	109.18	-.30198	2.2120	90.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1891	39.217	240.78
Stddev	.5412	2.098	1.27
%RSD	24.722	5.3490	.52770
#1	1.8253	41.638	239.63
#2	2.8110	38.079	240.58
#3	1.9310	37.934	242.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001L(5) Acquired: 11/9/2015 13:29:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38205.	11480.	542470.
Stddev	80.	69.	21000.
%RSD	.21030	.60026	3.8712
#1	38276.	11446.	519290.
#2	38220.	11559.	560220.
#3	38118.	11433.	547900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.431%	97.266%	97.295%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001DU Acquired: 11/9/2015 13:34:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28097	110330.	46.592	533.56	4.4203	97721.
Stddev	.35735	9014.	1.623	43.93	.1090	8185.
%RSD	127.18	8.1701	3.4839	8.2330	2.4650	8.3763
#1	.00011	105490.	45.973	509.84	4.5444	93137.
#2	-.68313	120730.	45.369	584.25	4.3761	107170.
#3	-.15990	104770.	48.434	506.60	4.3404	92854.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.665	69.206	126.94	289.50	F 202350.	13420.
Stddev	.105	.573	2.55	5.67	16681.	1106.
%RSD	3.956	.82809	2.0109	1.9602	8.2439	8.242
#1	2.588	68.547	129.88	296.01	193130.	12820.
#2	2.785	69.481	125.69	286.85	221600.	14700.
#3	2.622	69.590	125.26	285.63	192310.	12750.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001DU Acquired: 11/9/2015 13:34:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	78950.	4884.9	.93709	480.77	155.26	401.60
Stddev	6600.	118.4	.50127	56.27	1.37	5.50
%RSD	8.359	2.4243	53.493	11.704	.88169	1.3689
#1	75240.	5021.2	1.3346	434.37	153.74	398.47
#2	86570.	4806.8	1.1027	543.36	156.38	398.39
#3	75050.	4826.8	.37396	464.57	155.67	407.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.78163	6.8144	459.2	2.8321	156.86	929.66
Stddev	.36437	1.7000	9.8	.3592	3.48	6.75
%RSD	46.617	24.948	2.125	12.681	2.2190	.72619
#1	.45088	8.7587	470.4	3.1010	160.88	921.86
#2	1.1722	6.0767	454.9	2.9711	154.87	933.45
#3	.72180	5.6077	452.3	2.4243	154.83	933.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001DU Acquired: 11/9/2015 13:34:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37977.	10618.	529860.
Stddev	443.	805.	10424.
%RSD	1.1660	7.5836	1.9674
#1	38477.	11103.	518290.
#2	37820.	9688.3	538530.
#3	37634.	11062.	532770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.845%	89.964%	95.034%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001MS Acquired: 11/9/2015 13:39:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.892	101980.	116.87	4165.5	94.379	94761.
Stddev	3.582	5895.	1.93	242.0	4.135	5539.
%RSD	4.0757	5.7798	1.6479	5.8089	4.3818	5.8454
#1	85.387	108790.	118.28	4444.8	90.973	101160.
#2	86.294	98809.	114.67	4033.6	93.184	91701.
#3	91.995	98359.	117.65	4018.2	98.981	91428.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.10	899.27	470.92	710.86	F 182210.	12230.
Stddev	.82	12.34	21.37	31.78	10844.	705.
%RSD	.9367	1.3721	4.5388	4.4704	5.9514	5.761
#1	87.99	913.49	453.25	684.91	194720.	13050.
#2	86.94	891.37	464.83	701.36	176280.	11840.
#3	86.38	892.96	494.68	746.30	175610.	11810.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001MS Acquired: 11/9/2015 13:39:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72960.	5860.0	.58683	450.44	963.33	459.90
Stddev	4368.	221.1	.28479	50.96	13.01	4.19
%RSD	5.987	3.7732	48.530	11.313	1.3504	.91117
#1	78000.	5757.6	.80047	504.85	978.34	464.51
#2	70640.	5708.6	.69653	403.83	955.32	458.89
#3	70250.	6113.7	.26350	442.66	956.34	456.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.845	167.54	402.8	86.318	1018.1	1814.6
Stddev	.879	1.10	19.7	1.706	45.7	23.1
%RSD	1.7995	.65494	4.882	1.9770	4.4877	1.2703
#1	49.759	167.63	387.2	87.977	980.74	1841.0
#2	48.006	168.58	396.4	84.567	1004.4	1798.6
#3	48.770	166.39	424.9	86.412	1069.0	1804.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001MS Acquired: 11/9/2015 13:39:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37321.	11054.	530400.
Stddev	305.	506.	15876.
%RSD	.81713	4.5789	2.9932
#1	36971.	10478.	537990.
#2	37525.	11251.	541050.
#3	37468.	11431.	512150.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.155%	93.657%	95.130%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001A Acquired: 11/9/2015 13:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.394	128730.	103.03	1553.4	29.719	131560.
Stddev	.951	468.	.94	7.5	.437	717.
%RSD	1.9648	.36332	.90846	.48524	1.4718	.54500
#1	49.302	128250.	102.08	1544.7	30.219	130730.
#2	48.474	128750.	103.08	1557.8	29.531	131940.
#3	47.405	129180.	103.95	1557.7	29.407	132000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.65	309.40	202.61	441.16	F 228350.	40040.
Stddev	.14	.56	2.29	4.87	900.	270.
%RSD	.5323	.18038	1.1323	1.1045	.39397	.6736
#1	25.75	309.63	205.22	446.70	227310.	39740.
#2	25.50	308.76	201.67	439.21	228850.	40240.
#3	25.71	309.81	200.93	437.55	228890.	40150.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001A Acquired: 11/9/2015 13:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105100.	8794.7	1.5136	26007.	369.43	531.05
Stddev	657.	164.8	.3746	96.	.93	.08
%RSD	.6247	1.8744	24.749	.37097	.25073	.01484
#1	104400.	8985.0	1.6186	25902.	370.27	530.98
#2	105400.	8701.4	1.8244	26026.	368.44	531.03
#3	105600.	8697.6	1.0977	26092.	369.60	531.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	264.58	168.76	748.2	110.16	431.65	1418.3
Stddev	2.08	2.08	14.3	.81	5.62	.9
%RSD	.78661	1.2311	1.908	.73277	1.3027	.06612
#1	266.82	171.13	760.9	110.85	438.09	1419.1
#2	264.20	167.90	750.8	110.36	429.20	1417.3
#3	262.70	167.26	732.7	109.27	427.68	1418.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001A Acquired: 11/9/2015 13:44:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37175.	11390.	521750.
Stddev	134.	94.	8839.
%RSD	.36163	.82866	1.6941
#1	37202.	11315.	511570.
#2	37029.	11496.	526200.
#3	37293.	11359.	527480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.778%	96.508%	93.578%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-002 Acquired: 11/9/2015 13:49:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.52960	111710.	70.735	436.59	5.0809	F 422800.
Stddev	.44569	561.	.674	2.54	.0603	4388.
%RSD	84.156	.50200	.95244	.58271	1.1860	1.0378
#1	-.15265	111150.	71.040	433.76	5.1317	417760.
#2	-.41464	111690.	71.203	437.32	5.0143	424870.
#3	-1.0215	112270.	69.963	438.69	5.0968	425780.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						300000.
Low Limit						-10000.

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.116	82.658	151.53	292.04	F 242300.	15090.
Stddev	.058	.128	2.13	4.82	1357.	180.
%RSD	2.761	.15444	1.4028	1.6496	.55998	1.194
#1	2.121	82.754	153.59	296.90	241020.	14880.
#2	2.172	82.707	149.35	287.26	242170.	15170.
#3	2.056	82.513	151.67	291.96	243720.	15210.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-002 Acquired: 11/9/2015 13:49:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	263400.	7634.8	2.6726	1036.2	192.77	196.54
Stddev	1957.	95.3	.3457	10.7	.59	1.79
%RSD	.7432	1.2480	12.936	1.0312	.30469	.91302
#1	261600.	7690.5	3.0652	1035.7	192.12	195.55
#2	263000.	7524.8	2.5391	1047.1	193.26	198.61
#3	265500.	7689.1	2.4136	1025.8	192.93	195.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2163	5.3408	306.5	4.7926	162.09	752.56
Stddev	1.7430	1.3406	4.0	2.3061	2.22	1.12
%RSD	143.30	25.101	1.314	48.117	1.3673	.14824
#1	.22973	6.2706	310.3	3.1564	164.34	751.27
#2	-3.1517	5.9478	302.3	3.7913	159.91	753.17
#3	-.72699	3.8041	306.7	7.4301	162.01	753.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-002 Acquired: 11/9/2015 13:49:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35162.	11039.	496720.
Stddev	119.	106.	5502.
%RSD	.33910	.95755	1.1076
#1	35229.	11100.	490670.
#2	35025.	10917.	501420.
#3	35234.	11100.	498070.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	90.593%	93.530%	89.089%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-003 Acquired: 11/9/2015 13:54:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.57639	133100.	116.54	796.82	6.6170	111570.
Stddev	.30396	1605.	.69	8.18	.0959	1340.
%RSD	52.735	1.2060	.59035	1.0267	1.4501	1.2007
#1	.77365	131600.	117.27	789.81	6.5655	110210.
#2	.22635	132890.	115.90	794.83	6.7277	111620.
#3	.72915	134790.	116.47	805.81	6.5578	112890.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.924	101.34	249.06	687.74	F 290720.	15180.
Stddev	.114	.32	1.88	6.56	2999.	252.
%RSD	2.907	.31825	.75477	.95454	1.0317	1.660
#1	3.848	100.98	248.03	684.09	287740.	15010.
#2	3.869	101.43	251.23	695.32	290680.	15070.
#3	4.056	101.60	247.93	683.81	293730.	15470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-003 Acquired: 11/9/2015 13:54:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	78370.	7880.5	8.1849	918.69	249.41	1600.8
Stddev	1193.	179.1	.0610	2.10	.64	4.4
%RSD	1.522	2.2724	.74515	.22879	.25743	.27315
#1	77210.	7696.8	8.2232	916.34	248.95	1596.1
#2	78310.	8054.5	8.2169	919.35	249.14	1604.8
#3	79600.	7890.1	8.1146	920.39	250.14	1601.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.2330	12.141	554.5	7.6372	349.93	1663.1
Stddev	2.7080	.606	6.2	.6652	3.91	4.5
%RSD	121.27	4.9879	1.116	8.7100	1.1182	.26872
#1	4.9533	11.826	551.7	8.4020	347.88	1658.0
#2	2.2083	11.758	561.6	7.1929	354.44	1665.2
#3	-.46254	12.839	550.3	7.3168	347.47	1666.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-003 Acquired: 11/9/2015 13:54:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37434.	11196.	528550.
Stddev	184.	105.	3942.
%RSD	.49154	.94139	.74580
#1	37588.	11259.	531290.
#2	37230.	11254.	524030.
#3	37485.	11074.	530320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.447%	94.860%	94.798%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-004 Acquired: 11/9/2015 13:59:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15062	99560.	46.852	411.78	4.2322	128390.
Stddev	.29368	1295.	1.144	3.22	.0378	1390.
%RSD	194.98	1.3004	2.4407	.78162	.89383	1.0829
#1	.42205	101030.	45.910	415.49	4.2214	129990.
#2	-.16114	99047.	46.520	410.15	4.2010	127720.
#3	.19094	98600.	48.124	409.70	4.2743	127460.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.248	73.388	127.93	254.09	F 201440.	12120.
Stddev	.167	.372	1.27	2.53	2251.	103.
%RSD	7.410	.50687	.99234	.99430	1.1175	.8455
#1	2.076	73.792	128.02	254.00	204040.	12240.
#2	2.260	73.314	126.62	251.62	200150.	12080.
#3	2.408	73.059	129.16	256.67	200130.	12040.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-004 Acquired: 11/9/2015 13:59:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73660.	5740.5	.81507	599.72	169.41	296.62
Stddev	741.	72.8	.20639	31.71	.21	1.14
%RSD	1.006	1.2676	25.322	5.2872	.12234	.38514
#1	74500.	5656.7	.61707	564.36	169.63	296.11
#2	73120.	5777.8	1.0289	609.18	169.39	295.81
#3	73350.	5787.1	.79921	625.62	169.21	297.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05876	6.0224	355.6	3.0882	176.19	1017.1
Stddev	.97158	2.1076	2.8	.4673	1.73	3.2
%RSD	1653.5	34.996	.7758	15.133	.97996	.31030
#1	1.1351	5.6835	354.1	3.5687	176.44	1020.3
#2	-.20530	4.1048	354.0	2.6352	174.36	1016.9
#3	-.75349	8.2789	358.8	3.0607	177.79	1014.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-004 Acquired: 11/9/2015 13:59:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37439.	11414.	526300.
Stddev	156.	162.	3729.
%RSD	.41753	1.4228	.70856
#1	37399.	11230.	525570.
#2	37306.	11536.	530340.
#3	37611.	11476.	522990.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.458%	96.710%	94.394%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-005 Acquired: 11/9/2015 14:04:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17825	135190.	90.097	849.55	6.3819	32603.
Stddev	.28345	787.	.442	6.45	.0688	355.
%RSD	159.02	.58251	.49052	.75887	1.0778	1.0878
#1	-.00904	134520.	90.607	844.61	6.4261	32220.
#2	-.02023	134990.	89.831	847.19	6.3027	32667.
#3	-.50548	136060.	89.852	856.84	6.4170	32921.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.722	75.940	179.81	390.61	F 229130.	11750.
Stddev	.112	.183	2.05	4.46	2369.	127.
%RSD	1.953	.24056	1.1411	1.1415	1.0341	1.076
#1	5.748	76.088	181.48	394.34	226560.	11610.
#2	5.599	75.736	177.52	385.67	229580.	11840.
#3	5.818	75.997	180.43	391.82	231240.	11810.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-005 Acquired: 11/9/2015 14:04:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49430.	9645.4	4.2288	832.74	187.44	1317.5
Stddev	625.	70.4	.3515	27.07	.24	6.3
%RSD	1.265	.72960	8.3118	3.2510	.12804	.47693
#1	48750.	9689.6	4.1630	808.67	187.57	1324.8
#2	49580.	9564.2	3.9148	862.05	187.16	1314.5
#3	49970.	9682.3	4.6085	827.49	187.58	1313.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.9722	10.884	577.9	9.9543	202.26	1139.3
Stddev	2.2555	2.456	5.6	.9859	2.24	1.3
%RSD	45.362	22.561	.9686	9.9038	1.1073	.11823
#1	5.1502	13.668	582.4	8.8402	203.93	1140.3
#2	7.1334	9.9578	571.7	10.309	199.71	1139.8
#3	2.6329	9.0265	579.8	10.714	203.13	1137.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-005 Acquired: 11/9/2015 14:04:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38561.	11645.	537150.
Stddev	37.	115.	5335.
%RSD	.09614	.98636	.99322
#1	38571.	11653.	531800.
#2	38520.	11756.	542470.
#3	38592.	11527.	537180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.350%	98.669%	96.340%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-006 Acquired: 11/9/2015 14:08:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44105	134830.	218.06	887.53	6.7342	147280.
Stddev	.31216	906.	1.60	6.00	.0694	791.
%RSD	70.775	.67206	.73519	.67659	1.0306	.53675
#1	.53835	134260.	219.90	881.45	6.7431	146510.
#2	.09184	134350.	217.34	887.70	6.7987	147240.
#3	.69297	135870.	216.95	893.45	6.6608	148090.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.066	123.83	298.31	993.38	F 377080.	14190.
Stddev	.167	.22	3.05	10.17	2291.	69.
%RSD	3.298	.18003	1.0219	1.0235	.60744	.4863
#1	5.241	123.84	299.09	995.42	374960.	14150.
#2	4.909	123.61	300.89	1002.4	376760.	14150.
#3	5.047	124.06	294.95	982.34	379510.	14270.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-006 Acquired: 11/9/2015 14:08:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95070.	7795.4	7.1763	1558.0	290.39	3828.5
Stddev	685.	57.7	.2486	16.8	.98	11.0
%RSD	.7201	.74057	3.4643	1.0797	.33778	.28682
#1	94680.	7728.8	6.8908	1567.7	289.94	3815.8
#2	94670.	7825.5	7.3446	1538.6	289.72	3833.9
#3	95860.	7831.8	7.2935	1567.7	291.52	3835.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.229	9.4095	1074.	8.6404	296.36	5261.5
Stddev	1.224	2.6984	12.	1.6364	3.04	13.2
%RSD	9.2483	28.678	1.091	18.938	1.0255	.25170
#1	14.307	12.409	1078.	6.8785	296.49	5249.5
#2	13.480	8.6411	1084.	8.9305	299.34	5259.4
#3	11.899	7.1786	1061.	10.112	293.26	5275.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-006 Acquired: 11/9/2015 14:08:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37021.	11282.	523440.
Stddev	303.	157.	7316.
%RSD	.81846	1.3939	1.3977
#1	37325.	11181.	522900.
#2	37020.	11463.	516410.
#3	36719.	11202.	531010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.382%	95.593%	93.882%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-007 Acquired: 11/9/2015 14:13:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17689	86599.	1249.9	680.73	5.4327	202920.
Stddev	.17095	315.	1.3	2.27	.0266	596.
%RSD	96.647	.36328	.10010	.33283	.48867	.29352
#1	-.33360	86353.	1250.3	678.17	5.4138	202630.
#2	.00542	86490.	1248.5	681.54	5.4630	202530.
#3	-.20248	86953.	1250.9	682.47	5.4212	203610.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.940	68.962	427.85	754.47	F 232160.	9097.
Stddev	.075	.223	.61	1.41	736.	13.
%RSD	1.914	.32376	.14210	.18732	.31690	.1442
#1	-3.953	69.048	427.18	753.03	231620.	9098.
#2	-3.859	68.709	428.37	755.85	231860.	9084.
#3	-4.008	69.130	428.00	754.53	233000.	9110.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-007 Acquired: 11/9/2015 14:13:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37270.	2858.7	5.8603	3284.2	158.61	1915.2
Stddev	159.	46.6	.3072	35.7	.55	2.7
%RSD	.4271	1.6284	5.2419	1.0855	.34755	.13863
#1	37190.	2876.9	6.2120	3243.0	158.83	1914.3
#2	37170.	2805.8	5.7241	3303.8	159.02	1913.1
#3	37450.	2893.4	5.6447	3305.7	157.98	1918.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0178	9.2113	957.2	2.5402	149.08	732.93
Stddev	2.5223	1.8112	1.1	1.2239	.11	.26
%RSD	50.268	19.663	.1198	48.179	.07559	.03558
#1	2.1055	7.1908	957.1	2.9547	149.21	732.77
#2	6.5096	9.7540	958.4	3.5031	149.05	732.79
#3	6.4382	10.689	956.2	1.1630	148.99	733.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-007 Acquired: 11/9/2015 14:13:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36909.	11129.	520850.
Stddev	178.	85.	3017.
%RSD	.48183	.76246	.57922
#1	37101.	11032.	523870.
#2	36878.	11188.	520860.
#3	36749.	11168.	517830.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.094%	94.299%	93.418%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-008 Acquired: 11/9/2015 14:18:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55378	102220.	237.50	882.64	5.1566	100230.
Stddev	.03868	1294.	1.07	11.38	.0459	970.
%RSD	6.9852	1.2657	.44940	1.2890	.88912	.96793
#1	.50961	101580.	238.40	877.41	5.1803	99721.
#2	.57007	101370.	236.32	874.81	5.1037	99625.
#3	.58164	103710.	237.78	895.69	5.1857	101350.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.671	93.199	162.88	545.28	F 231940.	10510.
Stddev	.024	.252	1.12	4.81	2192.	175.
%RSD	.4230	.27019	.68754	.88242	.94502	1.659
#1	5.683	93.485	163.38	546.29	231140.	10390.
#2	5.687	93.011	161.60	540.05	230270.	10450.
#3	5.643	93.100	163.67	549.51	234420.	10710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-008 Acquired: 11/9/2015 14:18:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	75690.	7582.3	15.323	630.14	217.24	621.89
Stddev	683.	99.4	.375	10.17	.47	3.50
%RSD	.9021	1.3107	2.4489	1.6145	.21472	.56244
#1	75550.	7524.9	15.341	641.88	217.53	624.84
#2	75090.	7524.8	14.939	624.65	216.70	622.80
#3	76440.	7697.0	15.689	623.89	217.48	618.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.0026	16.155	1282.	17.124	199.96	1045.7
Stddev	2.7184	1.945	10.	1.948	2.02	1.1
%RSD	33.968	12.039	.7876	11.376	1.0115	.10095
#1	5.9063	13.910	1287.	17.971	201.24	1046.5
#2	11.074	17.319	1270.	14.896	197.63	1044.5
#3	7.0276	17.236	1289.	18.506	201.02	1046.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-008 Acquired: 11/9/2015 14:18:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37824.	11308.	528210.
Stddev	68.	115.	6831.
%RSD	.17898	1.0137	1.2933
#1	37900.	11222.	527310.
#2	37804.	11438.	535440.
#3	37769.	11263.	521870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.451%	95.811%	94.737%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-009 Acquired: 11/9/2015 14:23:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9792	148190.	45.025	617.29	5.3561	25143.
Stddev	.2988	733.	.217	3.77	.1054	115.
%RSD	15.097	.49486	.48136	.61069	1.9681	.45726
#1	-1.6375	147410.	45.209	616.07	5.2814	25061.
#2	-2.1087	148300.	44.786	614.28	5.3102	25093.
#3	-2.1914	148860.	45.080	621.52	5.4766	25274.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7702	86.674	150.66	228.60	F 214410.	13560.
Stddev	.0094	.349	2.01	3.03	1013.	99.
%RSD	1.217	.40302	1.3335	1.3244	.47263	.7273
#1	.7605	86.584	148.84	225.91	213810.	13500.
#2	.7792	86.378	150.33	228.01	213840.	13500.
#3	.7709	87.059	152.82	231.88	215580.	13670.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-009 Acquired: 11/9/2015 14:23:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53770.	2470.0	1.1070	550.77	181.93	171.01
Stddev	363.	38.0	.3435	25.89	.66	.53
%RSD	.6750	1.5386	31.030	4.7012	.36380	.30844
#1	53430.	2454.0	1.1794	542.79	181.80	171.61
#2	53730.	2442.6	1.4086	529.81	181.34	170.71
#3	54150.	2513.4	.73312	579.72	182.64	170.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7103	4.6048	539.9	-.52871	185.06	666.43
Stddev	2.1997	3.6920	7.1	.51257	2.75	1.74
%RSD	128.62	80.177	1.317	96.948	1.4849	.26164
#1	2.6302	.34356	534.2	.01369	183.05	665.57
#2	-.80004	6.6250	537.6	-1.0051	183.95	665.28
#3	3.3007	6.8458	547.9	-.59478	188.19	668.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-009 Acquired: 11/9/2015 14:23:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38751.	11662.	549110.
Stddev	51.	62.	4136.
%RSD	.13170	.52859	.75324
#1	38779.	11607.	551420.
#2	38781.	11729.	551580.
#3	38692.	11650.	544340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.838%	98.814%	98.486%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-010 Acquired: 11/9/2015 14:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0086	111140.	44.988	454.53	4.7916	15731.
Stddev	.3738	4701.	1.033	17.86	.0735	660.
%RSD	37.061	4.2296	2.2956	3.9296	1.5331	4.1962
#1	-1.4364	105720.	44.894	433.96	4.8754	14970.
#2	-.84450	113780.	46.064	463.60	4.7609	16146.
#3	-.74494	113940.	44.005	466.04	4.7385	16077.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5032	74.161	127.34	279.74	F 202370.	11550.
Stddev	.0293	.146	1.54	3.88	8736.	537.
%RSD	5.822	.19752	1.2093	1.3877	4.3170	4.646
#1	.5368	74.189	129.11	284.18	192280.	10940.
#2	.4897	74.002	126.32	276.98	207490.	11780.
#3	.4831	74.291	126.58	278.06	207320.	11940.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-010 Acquired: 11/9/2015 14:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40640.	2250.7	.53229	646.30	168.30	109.23
Stddev	1813.	10.3	.24750	55.49	.65	2.23
%RSD	4.461	.45615	46.497	8.5856	.38500	2.0393
#1	38550.	2262.2	.81135	588.12	167.56	111.09
#2	41690.	2247.5	.33938	698.64	168.57	109.84
#3	41680.	2242.4	.44614	652.14	168.78	106.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22166	4.1179	336.9	-.93014	148.36	618.52
Stddev	1.9395	.9687	4.3	.58702	2.06	.47
%RSD	875.01	23.524	1.270	63.111	1.3901	.07554
#1	.41968	4.2073	341.8	-1.6078	150.74	618.90
#2	-2.4006	3.1076	333.7	-.57950	147.03	618.00
#3	1.3160	5.0388	335.2	-.60308	147.32	618.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-010 Acquired: 11/9/2015 14:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38351.	11584.	545100.
Stddev	91.	414.	5873.
%RSD	.23644	3.5703	1.0773
#1	38383.	12046.	538370.
#2	38421.	11247.	547740.
#3	38248.	11459.	549190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.807%	98.151%	97.767%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-011 Acquired: 11/9/2015 14:33:10 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34633	110190.	52.928	398.58	4.8538	51661.
Stddev	.41452	10013.	2.290	35.84	.0866	4723.
%RSD	119.69	9.0875	4.3259	8.9914	1.7836	9.1429
#1	-.82365	98714.	54.481	357.41	4.9537	46242.
#2	-.13855	114680.	50.299	415.60	4.8070	53841.
#3	-.07679	117160.	54.006	422.74	4.8006	54901.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2927	73.280	151.13	253.28	F 236030.	11990.
Stddev	.2702	.221	3.06	4.35	21473.	1108.
%RSD	92.34	.30187	2.0251	1.7169	9.0974	9.242
#1	.2706	73.511	154.62	258.26	211410.	10710.
#2	.5733	73.260	149.88	251.35	245850.	12570.
#3	.0341	73.070	148.89	250.23	250850.	12680.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-011 Acquired: 11/9/2015 14:33:10 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68070.	7906.6	2.4336	645.52	190.65	140.33
Stddev	6309.	146.9	.2576	39.46	.60	5.18
%RSD	9.268	1.8584	10.584	6.1127	.31542	3.6890
#1	60840.	8055.9	2.1380	600.32	189.97	145.92
#2	70920.	7901.8	2.6101	663.14	191.12	139.35
#3	72460.	7762.1	2.5527	673.09	190.87	135.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16611	3.9607	280.4	6.4236	153.12	632.70
Stddev	3.9172	1.4232	4.4	.8763	2.71	.35
%RSD	2358.2	35.933	1.559	13.642	1.7673	.05553
#1	.36864	5.4451	285.4	5.7728	156.23	632.97
#2	-4.3233	2.6078	278.1	7.4200	151.82	632.30
#3	3.4563	3.8294	277.6	6.0779	151.31	632.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-011 Acquired: 11/9/2015 14:33:10 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37779.	11830.	532330.
Stddev	36.	880.	9472.
%RSD	.09604	7.4357	1.7794
#1	37739.	12838.	521730.
#2	37790.	11436.	535280.
#3	37810.	11216.	539970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.336%	100.23%	95.476%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-012 Acquired: 11/9/2015 14:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19503	127060.	57.427	371.37	5.3073	67775.
Stddev	.04407	941.	.457	4.09	.0754	578.
%RSD	22.596	.74042	.79587	1.1017	1.4215	.85335
#1	-.14849	126130.	56.909	366.75	5.3192	67258.
#2	-.23611	127030.	57.775	372.82	5.3760	67667.
#3	-.20049	128010.	57.597	374.54	5.2266	68400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0718	82.841	150.63	242.58	F 279540.	14220.
Stddev	.0886	.131	1.84	4.25	2180.	120.
%RSD	123.4	.15826	1.2218	1.7539	.77986	.8415
#1	-.1690	82.781	150.86	242.98	277740.	14100.
#2	.0044	82.750	152.34	246.63	278920.	14220.
#3	-.0507	82.991	148.68	238.14	281960.	14340.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-012 Acquired: 11/9/2015 14:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91870.	7353.9	.37136	718.14	214.69	112.53
Stddev	1164.	164.4	.02384	7.66	.05	1.00
%RSD	1.267	2.2361	6.4188	1.0663	.02485	.89196
#1	90860.	7513.4	.37945	710.17	214.65	113.14
#2	91610.	7184.9	.39009	718.78	214.67	111.37
#3	93150.	7363.2	.34453	725.45	214.75	113.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0978	5.0086	264.0	6.4071	158.34	655.75
Stddev	2.1994	2.8686	4.2	1.0103	2.42	.38
%RSD	200.34	57.273	1.584	15.768	1.5254	.05843
#1	.56230	2.5067	264.1	5.5042	158.83	655.34
#2	3.5155	8.1395	268.1	7.4983	160.47	656.09
#3	-.78434	4.3797	259.7	6.2187	155.72	655.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-012 Acquired: 11/9/2015 14:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37686.	11143.	529380.
Stddev	198.	35.	7268.
%RSD	.52408	.31419	1.3729
#1	37894.	11183.	525180.
#2	37501.	11124.	525180.
#3	37663.	11122.	537770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.095%	94.415%	94.947%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-013 Acquired: 11/9/2015 14:42:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47266	83123.	94.957	355.71	2.7907	31326.
Stddev	.43415	2162.	1.654	8.52	.0507	828.
%RSD	91.854	2.6013	1.7415	2.3956	1.8177	2.6447
#1	-.74810	84920.	94.317	361.59	2.7710	31938.
#2	.02782	80723.	93.720	345.94	2.7528	30383.
#3	-.69768	83725.	96.836	359.61	2.8484	31657.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5873	53.438	236.17	311.17	F 196550.	9573.
Stddev	.0907	.434	3.60	4.82	5416.	206.
%RSD	15.44	.81209	1.5246	1.5497	2.7554	2.155
#1	.5851	52.940	237.09	312.13	200520.	9633.
#2	.4977	53.639	232.20	305.94	190380.	9343.
#3	.6790	53.736	239.22	315.45	198750.	9742.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-013 Acquired: 11/9/2015 14:42:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44060.	2600.4	5.4076	570.61	152.49	391.24
Stddev	1231.	71.5	.2356	28.02	.17	3.12
%RSD	2.793	2.7482	4.3568	4.9105	.11398	.79743
#1	44860.	2632.1	5.6301	576.14	152.68	387.79
#2	42650.	2518.5	5.1608	540.23	152.42	392.07
#3	44680.	2650.5	5.4319	595.45	152.36	393.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14850	8.5499	325.6	.36008	145.30	581.98
Stddev	2.2204	.4105	5.8	.21284	2.94	1.42
%RSD	1495.2	4.8009	1.774	59.110	2.0205	.24426
#1	-1.5741	9.0033	327.2	.12662	145.70	581.08
#2	-1.2813	8.2037	319.2	.41028	142.18	581.24
#3	2.4098	8.4425	330.4	.54333	148.01	583.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-013 Acquired: 11/9/2015 14:42:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37530.	11335.	525090.
Stddev	240.	209.	6196.
%RSD	.63971	1.8467	1.1799
#1	37506.	11235.	520680.
#2	37781.	11575.	532170.
#3	37303.	11193.	522420.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.693%	96.038%	94.178%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-014 Acquired: 11/9/2015 14:47:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0608	122370.	49.686	356.07	6.5960	15282.
Stddev	.2572	8506.	.430	23.46	.1439	1015.
%RSD	24.249	6.9507	.86600	6.5883	2.1822	6.6396
#1	-1.0941	123840.	50.041	361.40	6.4520	15570.
#2	-.78851	113220.	49.809	330.40	6.5962	14155.
#3	-1.2997	130040.	49.207	376.39	6.7398	16123.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0474	76.141	141.85	501.54	F 255520.	10030.
Stddev	.1133	.215	2.26	8.30	17209.	604.
%RSD	238.7	.28230	1.5943	1.6558	6.7348	6.020
#1	-.1766	76.041	139.58	494.30	259490.	10200.
#2	.0350	75.995	141.87	499.72	236680.	9353.
#3	-.0008	76.388	144.11	510.61	270400.	10520.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-014 Acquired: 11/9/2015 14:47:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50530.	1868.8	-.71063	613.31	239.81	81.971
Stddev	3375.	14.2	.15094	58.29	.54	2.373
%RSD	6.679	.75758	21.240	9.5050	.22350	2.8953
#1	51260.	1860.3	-.56697	605.47	239.98	80.989
#2	46850.	1861.0	-.69699	559.33	239.22	84.677
#3	53470.	1885.1	-.86792	675.13	240.25	80.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47192	3.2235	229.0	.09389	124.64	715.33
Stddev	3.1664	.8552	3.5	.21703	2.54	.98
%RSD	670.96	26.532	1.539	231.15	2.0343	.13727
#1	2.8132	2.3439	225.9	-.11097	122.11	714.23
#2	-.72463	3.2744	228.4	.32132	124.64	715.66
#3	-3.5044	4.0521	232.8	.07133	127.18	716.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-014 Acquired: 11/9/2015 14:47:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37859.	11417.	534520.
Stddev	73.	567.	9684.
%RSD	.19333	4.9660	1.8118
#1	37936.	11224.	541450.
#2	37790.	12055.	538640.
#3	37853.	10972.	523450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.541%	96.734%	95.868%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-015 Acquired: 11/9/2015 14:52:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.90012	83187.	76.426	761.46	3.8471	117270.
Stddev	.19515	1207.	.131	13.55	.0600	1921.
%RSD	21.680	1.4512	.17151	1.7795	1.5600	1.6379
#1	.88723	84580.	76.557	777.02	3.9132	119450.
#2	.71173	82449.	76.427	752.24	3.8320	115830.
#3	1.1014	82532.	76.295	755.12	3.7960	116520.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.10	63.214	375.99	1634.0	F 151230.	10690.
Stddev	.04	.098	3.49	20.9	2438.	119.
%RSD	.2015	.15436	.92874	1.2777	1.6123	1.110
#1	19.11	63.237	379.99	1658.1	154000.	10800.
#2	19.13	63.298	374.42	1622.2	149400.	10560.
#3	19.06	63.107	373.56	1621.7	150290.	10710.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-015 Acquired: 11/9/2015 14:52:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49970.	4176.6	.83810	1534.7	154.17	1253.9
Stddev	738.	18.0	.19325	42.6	.29	2.0
%RSD	1.476	.43139	23.058	2.7770	.19042	.15677
#1	50800.	4156.7	.98832	1583.8	153.86	1256.1
#2	49410.	4181.4	.62009	1508.6	154.20	1252.8
#3	49690.	4191.7	.90589	1511.6	154.44	1252.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.9793	6.6405	471.8	3.5360	358.71	1909.7
Stddev	1.7408	.8751	4.8	.8909	4.44	5.1
%RSD	17.444	13.178	1.016	25.196	1.2377	.26619
#1	7.9702	5.6658	477.4	2.5094	363.84	1915.2
#2	10.930	6.8972	469.3	3.9906	356.22	1908.6
#3	11.038	7.3586	468.9	4.1079	356.08	1905.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-015 Acquired: 11/9/2015 14:52:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38190.	11300.	537070.
Stddev	97.	206.	1092.
%RSD	.25369	1.8214	.20340
#1	38201.	11072.	536130.
#2	38088.	11472.	538270.
#3	38281.	11356.	536810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.394%	95.746%	96.326%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-016 Acquired: 11/9/2015 14:57:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45290	136570.	59.365	396.05	6.2289	207430.
Stddev	.52193	1173.	.848	4.22	.0488	2430.
%RSD	115.24	.85899	1.4288	1.0650	.78359	1.1717
#1	-.97917	135470.	59.703	391.95	6.2852	204800.
#2	-.44410	136450.	58.400	395.82	6.2032	207890.
#3	.06458	137800.	59.993	400.38	6.1982	209590.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7493	95.340	235.81	278.23	F 304460.	15190.
Stddev	.0742	.200	1.01	1.56	3050.	100.
%RSD	9.900	.20951	.42891	.56203	1.0018	.6575
#1	.7969	95.202	236.97	279.98	301160.	15120.
#2	.7872	95.569	235.15	276.97	305070.	15140.
#3	.6638	95.249	235.30	277.73	307170.	15300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-016 Acquired: 11/9/2015 14:57:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104900.	7120.5	-.44028	666.85	243.35	193.93
Stddev	1129.	98.9	.38007	16.56	.46	1.42
%RSD	1.076	1.3894	86.324	2.4825	.19033	.73443
#1	103600.	7040.3	-.11170	652.74	243.81	195.49
#2	105300.	7090.1	-.35261	685.08	243.34	193.61
#3	105800.	7231.0	-.85652	662.73	242.89	192.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3920	6.4121	234.7	6.3039	205.21	762.96
Stddev	1.6765	1.2137	1.6	1.4531	1.48	.94
%RSD	120.44	18.928	.6604	23.051	.72096	.12365
#1	-3.2169	5.4574	236.4	7.8740	206.91	763.34
#2	.07999	6.0010	234.3	5.0064	204.30	763.66
#3	-1.0391	7.7780	233.4	6.0312	204.40	761.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-016 Acquired: 11/9/2015 14:57:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37228.	11258.	528130.
Stddev	140.	84.	1071.
%RSD	.37517	.74202	.20279
#1	37340.	11310.	527140.
#2	37071.	11302.	529270.
#3	37273.	11161.	527980.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.915%	95.388%	94.723%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/9/2015 15:02:16 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	745.07	48152.	2456.0	9642.2	999.01	48749.	982.5
Stddev	9.55	620.	2.6	133.3	10.27	533.	1.0
%RSD	1.2820	1.2883	.10702	1.3826	1.0278	1.0932	.1058
#1	742.34	47454.	2454.0	9488.5	998.47	48137.	983.3
#2	755.69	48362.	2455.0	9711.5	1009.5	48998.	981.3
#3	737.19	48640.	2459.0	9726.6	989.02	49112.	982.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4795.1	9968.1	11620.	24558.	37340.	50370.	4869.4
Stddev	4.2	123.0	394.	255.	641.	464.	116.1
%RSD	.08765	1.2336	3.3947	1.0400	1.717	.9205	2.3848
#1	4798.0	9932.7	11497.	24263.	36610.	49870.	4847.4
#2	4790.3	10105.	12062.	24693.	37620.	50460.	4994.9
#3	4797.0	9866.7	11303.	24717.	37800.	50780.	4765.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/9/2015 15:02:16 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	962.61	25873.	4714.0	9362.3	2417.4	1217.8	972.5
Stddev	.97	294.	3.3	12.2	3.5	3.3	12.2
%RSD	.10049	1.1355	.07044	.13052	.14442	.27193	1.252
#1	963.48	25552.	4715.5	9375.6	2419.9	1216.7	969.5
#2	961.57	25936.	4710.1	9351.6	2413.4	1215.2	985.9
#3	962.78	26130.	4716.2	9359.7	2419.0	1221.5	962.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	934.76	2460.2	4891.7
Stddev	2.78	30.0	4.5
%RSD	.29698	1.2201	.09163
#1	937.91	2452.9	4896.2
#2	932.69	2493.2	4887.2
#3	933.67	2434.5	4891.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV002 Acquired: 11/9/2015 15:02:16 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36205.	10821.	522480.
Stddev	262.	233.	7967.
%RSD	.72234	2.1511	1.5249
#1	35906.	11088.	523690.
#2	36324.	10660.	513970.
#3	36387.	10714.	529770.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/9/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33657	4.9274	-1.1771	.05272	.04099	.81680	-.1638
Stddev	.61305	46.245	.4201	.64909	.01094	9.4809	.0697
%RSD	182.15	938.53	35.691	1231.3	26.686	1160.7	42.52
#1	.09632	28.175	-1.1841	.11877	.03255	-.78457	-.1388
#2	-.06795	34.936	-1.5937	.66626	.05334	-7.7614	-.2425
#3	-1.0381	-48.329	-.75355	-.62688	.03706	10.996	-.1101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00535	.15346	1.6838	8.8702	60.29	-15.17	.01009
Stddev	.21248	.21030	.7087	6.4659	101.6	68.25	.00162
%RSD	3970.7	137.04	42.092	72.895	168.6	450.0	16.092
#1	.16872	.36588	2.4833	1.7202	147.2	-53.54	.01178
#2	-.24213	.14916	1.1326	10.583	-51.42	-55.59	.00996
#3	.05736	-.05466	1.4354	14.307	85.05	63.64	.00854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/9/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1181	-35.538	-.16330	-.56262	-1.0678	-1.3276	.2055
Stddev	.2207	14.695	.42085	.93150	2.1573	1.0366	.2585
%RSD	19.740	41.349	257.71	165.56	202.03	78.078	125.8
#1	-.89168	-24.658	-.20365	-1.4468	-3.2523	-.19108	.1229
#2	-1.1299	-52.254	.27627	-.65101	-1.0122	-1.5708	-.0016
#3	-1.3326	-29.701	-.56253	.40992	1.0612	-2.2210	.4952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.69008	.02926	-.24069
Stddev	.91293	.26301	.11879
%RSD	132.29	898.81	49.353
#1	.36341	.25658	-.10394
#2	-1.2494	-.25881	-.29982
#3	-1.1842	.09002	-.31831
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB002 Acquired: 11/9/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37768.	10858.	554200.
Stddev	819.	120.	10113.
%RSD	2.1688	1.1021	1.8248
#1	36830.	10996.	552890.
#2	38338.	10783.	544810.
#3	38137.	10796.	564910.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-017 Acquired: 11/9/2015 15:12:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.41453	211610.	615.03	959.91	10.864	108790.
Stddev	.56281	723.	1.56	3.25	.066	292.
%RSD	135.77	.34149	.25317	.33846	.60785	.26808
#1	-.34153	210840.	613.72	956.18	10.796	108480.
#2	-1.0103	211730.	614.62	962.12	10.928	108830.
#3	.10821	212270.	616.75	961.44	10.868	109060.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.245	142.52	320.74	875.90	F 426380.	20370.
Stddev	.063	.27	2.57	5.13	1037.	119.
%RSD	5.058	.19184	.80094	.58567	.24321	.5858
#1	-1.250	142.39	317.98	870.80	425370.	20240.
#2	-1.180	142.34	323.06	881.06	426320.	20390.
#3	-1.306	142.83	321.19	875.83	427440.	20470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-017 Acquired: 11/9/2015 15:12:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90290.	7368.7	11.714	1919.7	335.21	3002.3
Stddev	415.	117.0	.372	10.6	.34	4.3
%RSD	.4596	1.5874	3.1725	.55288	.10215	.14222
#1	89880.	7253.6	12.139	1908.7	335.38	3004.8
#2	90270.	7487.5	11.556	1920.5	334.82	2997.4
#3	90710.	7365.0	11.447	1929.8	335.44	3004.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.6818	9.9800	1304.	4.2843	319.06	1110.1
Stddev	2.1296	2.2694	7.	1.5973	2.59	.4
%RSD	57.842	22.739	.5668	37.282	.81036	.03671
#1	1.2919	10.689	1297.	5.2042	316.19	1110.1
#2	5.3783	7.4408	1311.	2.4399	321.22	1110.6
#3	4.3753	11.810	1305.	5.2087	319.78	1109.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-017 Acquired: 11/9/2015 15:12:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37961.	11370.	534420.
Stddev	171.	152.	6574.
%RSD	.44925	1.3336	1.2300
#1	37773.	11430.	540290.
#2	38004.	11197.	527320.
#3	38105.	11482.	535660.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.803%	96.337%	95.852%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-018 Acquired: 11/9/2015 15:17:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7113	238760.	77.342	529.82	6.8429	34207.
Stddev	.3808	2307.	.123	4.63	.1039	294.
%RSD	22.250	.96607	.15889	.87379	1.5180	.85924
#1	-1.6493	236200.	77.202	524.63	6.9582	33868.
#2	-2.1193	239400.	77.390	531.29	6.8139	34390.
#3	-1.3653	240680.	77.433	533.53	6.7566	34363.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3031	131.95	241.39	326.05	F 429420.	17240.
Stddev	.0263	.64	2.84	3.98	3840.	183.
%RSD	8.681	.48396	1.1750	1.2195	.89423	1.062
#1	.2728	131.43	244.45	330.61	424990.	17080.
#2	.3180	132.66	240.87	324.26	431710.	17220.
#3	.3186	131.76	238.85	323.29	431570.	17440.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-018 Acquired: 11/9/2015 15:17:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	111300.	8478.0	6.3770	1280.7	325.25	176.08
Stddev	1041.	69.3	.2543	13.5	.46	3.39
%RSD	.9347	.81711	3.9871	1.0543	.14210	1.9258
#1	110200.	8424.1	6.2210	1287.6	324.77	176.65
#2	111800.	8453.8	6.6704	1265.2	325.70	179.14
#3	112100.	8556.2	6.2396	1289.4	325.29	172.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.84088	4.8504	578.3	5.1263	272.65	958.34
Stddev	2.1342	1.0596	7.2	.3089	3.53	1.12
%RSD	253.81	21.845	1.243	6.0251	1.2952	.11669
#1	-.75555	4.0104	586.4	5.2361	276.68	957.09
#2	1.2494	6.0408	575.8	5.3653	271.19	958.70
#3	-3.0165	4.5000	572.7	4.7776	270.08	959.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-018 Acquired: 11/9/2015 15:17:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37591.	11223.	539200.
Stddev	100.	95.	4954.
%RSD	.26548	.84501	.91870
#1	37499.	11333.	533970.
#2	37697.	11170.	539810.
#3	37577.	11167.	543820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.850%	95.094%	96.709%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-019 Acquired: 11/9/2015 15:21:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.95549	180420.	714.17	555.32	20.342	37059.
Stddev	.36825	1378.	3.07	4.22	.212	290.
%RSD	38.540	.76394	.43022	.75945	1.0444	.78363
#1	-.56020	178890.	713.54	550.50	20.259	36759.
#2	-1.2888	180830.	711.46	557.14	20.184	37080.
#3	-1.0174	181550.	717.51	558.33	20.583	37339.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.920	406.99	481.08	2290.2	F 162100.	5709.
Stddev	.158	.50	4.76	20.9	1231.	123.
%RSD	4.038	.12390	.98914	.91247	.75943	2.155
#1	3.738	406.67	478.44	2280.3	160760.	5567.
#2	4.025	406.73	478.24	2276.0	162350.	5786.
#3	3.998	407.57	486.58	2314.2	163190.	5773.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-019 Acquired: 11/9/2015 15:21:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14710.	3728.1	10.693	2499.8	299.85	832.25
Stddev	91.	18.1	.315	31.4	.46	1.82
%RSD	.6189	.48590	2.9433	1.2573	.15495	.21907
#1	14630.	3726.5	11.039	2463.5	299.66	830.16
#2	14690.	3710.9	10.618	2518.3	299.51	833.03
#3	14810.	3747.0	10.423	2517.6	300.38	833.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.3113	11.338	916.3	-1.0222	250.52	1625.5
Stddev	2.0335	1.477	8.8	1.5820	2.24	2.2
%RSD	24.467	13.030	.9615	154.76	.89552	.13261
#1	7.8890	12.708	912.0	-2.8252	248.95	1625.1
#2	10.523	9.7731	910.4	-.37471	249.51	1623.5
#3	6.5221	11.533	926.4	.13334	253.09	1627.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-019 Acquired: 11/9/2015 15:21:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39750.	11399.	550880.
Stddev	178.	132.	2214.
%RSD	.44888	1.1582	.40182
#1	39597.	11278.	552190.
#2	39708.	11378.	552130.
#3	39946.	11540.	548320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.41%	96.581%	98.803%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-020 Acquired: 11/9/2015 15:26:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44169	234380.	288.44	642.48	13.594	285810.
Stddev	.51397	300.	.78	2.72	.055	822.
%RSD	116.37	.12807	.27076	.42257	.40229	.28759
#1	-.18499	234180.	288.21	639.36	13.647	284860.
#2	-.10662	234230.	287.81	643.89	13.596	286290.
#3	-1.0334	234730.	289.31	644.21	13.538	286270.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.018	293.43	485.52	1032.9	F 430460.	19010.
Stddev	.114	.43	2.24	4.2	1193.	22.
%RSD	5.627	.14600	.46105	.40889	.27720	.1178
#1	2.018	293.13	487.96	1037.7	429080.	19020.
#2	1.904	293.24	485.03	1029.9	431100.	19020.
#3	2.131	293.92	483.57	1031.1	431180.	18990.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-020 Acquired: 11/9/2015 15:26:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105400.	9106.6	8.8447	3457.8	424.09	586.85
Stddev	346.	153.0	.1395	2.0	.11	.41
%RSD	.3285	1.6806	1.5771	.05807	.02650	.07000
#1	105100.	9277.3	8.9202	3455.8	424.04	587.22
#2	105400.	9061.0	8.9302	3457.7	424.01	586.40
#3	105800.	8981.6	8.6837	3459.8	424.21	586.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.4941	10.681	938.4	6.1701	330.52	1552.0
Stddev	.4571	1.469	3.5	1.2817	1.53	.6
%RSD	8.3200	13.752	.3702	20.772	.46190	.04081
#1	4.9805	11.345	942.3	5.4184	332.18	1552.0
#2	5.6457	11.700	937.2	7.6500	330.22	1551.3
#3	5.8562	8.9971	935.7	5.4419	329.18	1552.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-020 Acquired: 11/9/2015 15:26:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38168.	11503.	549800.
Stddev	124.	273.	5498.
%RSD	.32478	2.3754	1.0001
#1	38032.	11198.	543620.
#2	38196.	11586.	551610.
#3	38275.	11725.	554160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.337%	97.463%	98.609%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89048-001 Acquired: 11/9/2015 15:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03624	-1.5661	-.04030	1.0061	.03458	106.69	-.0100
Stddev	.33766	21.404	1.0454	.6965	.01208	1.72	.0736
%RSD	931.85	1366.7	2593.8	69.228	34.928	1.6119	737.2
#1	-.42597	-26.102	1.0927	1.4023	.04468	104.73	-.0734
#2	.14869	8.1229	-.96733	1.4142	.03786	107.42	.0708
#3	.16857	13.280	-.24630	.20189	.02120	107.93	-.0273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13201	.31298	1.2180	19.163	32.14	3.154	.22317
Stddev	.03309	.10506	.5898	13.085	21.86	52.14	.07194
%RSD	25.064	33.568	48.424	68.285	68.01	1653.	32.235
#1	-.16717	.34122	.70797	12.056	57.37	-34.78	.28221
#2	-.10150	.19668	1.8639	11.169	19.45	62.62	.14304
#3	-.12735	.40103	1.0822	34.264	19.59	-18.38	.24425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89048-001 Acquired: 11/9/2015 15:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6340	-22.768	.07081	-.89758	-.93643	-.10551	1.221
Stddev	.1987	29.401	.22095	.44287	2.8009	.24645	.942
%RSD	7.5427	129.13	312.01	49.341	299.10	233.58	77.12
#1	-2.4654	-25.751	-.14984	-1.3216	-4.1587	.17904	.4832
#2	-2.8530	-50.564	.29205	-.43802	.43527	-.24476	2.282
#3	-2.5837	8.0104	.07022	-.93309	.91418	-.25082	.8987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.0060	.18695	1.1238
Stddev	.7018	.28657	.1404
%RSD	34.983	153.29	12.496
#1	-1.5228	.07921	1.0686
#2	-1.6844	.51178	1.0193
#3	-2.8110	-.03014	1.2834
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89048-001 Acquired: 11/9/2015 15:31:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39266.	11016.	560540.
Stddev	94.	112.	10692.
%RSD	.23882	1.0181	1.9075
#1	39331.	11145.	548770.
#2	39159.	10959.	563190.
#3	39309.	10943.	569650.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89048-002 Acquired: 11/9/2015 15:36:18 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.787	473.87	17.455	381.07	9.4784	9855.1	8.884
Stddev	.154	36.30	.451	1.65	.0162	64.2	.016
%RSD	.81953	7.6595	2.5817	.43224	.17040	.65145	.1828
#1	18.622	432.88	17.976	380.37	9.4965	9830.4	8.867
#2	18.927	501.93	17.182	379.88	9.4653	9807.0	8.886
#3	18.814	486.79	17.209	382.95	9.4735	9928.0	8.899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.547	19.156	48.051	192.75	9778.	9934.	29.257
Stddev	.073	.061	.843	21.53	90.	94.	.016
%RSD	.07883	.31850	1.7545	11.171	.9244	.9435	.05357
#1	92.618	19.226	48.759	192.00	9701.	9865.	29.275
#2	92.472	19.114	48.277	171.61	9755.	9897.	29.248
#3	92.551	19.129	47.118	214.65	9877.	10040.	29.248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89048-002 Acquired: 11/9/2015 15:36:18 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5280	10373.	72.781	17.644	107.82	63.176	.5890
Stddev	.1293	74.	.256	.724	.84	.912	.0995
%RSD	5.1156	.71562	.35151	4.1035	.77831	1.4439	16.89
#1	-2.5775	10339.	73.024	17.759	108.47	63.110	.7039
#2	-2.3812	10321.	72.805	16.869	106.87	64.120	.5326
#3	-2.6253	10458.	72.514	18.303	108.13	62.299	.5306
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	43.647	94.640	113.11
Stddev	.644	.350	.29
%RSD	1.4745	.37014	.26028
#1	42.954	94.987	113.33
#2	43.761	94.286	113.23
#3	44.226	94.647	112.78
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89048-002 Acquired: 11/9/2015 15:36:18 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38337.	10955.	549240.
Stddev	208.	97.	849.
%RSD	.54359	.88558	.15452
#1	38499.	10923.	548780.
#2	38102.	10878.	548730.
#3	38410.	11064.	550220.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001 Acquired: 11/9/2015 15:41:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1306	32414.	62.605	300.37	2.1265	42927.	.7369
Stddev	.2572	251.	1.761	2.68	.0063	259.	.1949
%RSD	22.750	.77308	2.8125	.89168	.29471	.60258	26.45
#1	1.3793	32144.	60.986	297.78	2.1297	42629.	.8527
#2	.86563	32458.	62.348	300.20	2.1307	43052.	.5119
#3	1.1469	32639.	64.480	303.13	2.1193	43099.	.8462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.780	109.21	635.40	74945.	5016.	12270.	1600.3
Stddev	.098	.54	5.56	493.	68.	71.	11.0
%RSD	.23447	.49162	.87430	.65736	1.351	.5821	.68561
#1	41.668	109.58	637.27	74398.	5061.	12200.	1606.1
#2	41.850	108.59	629.15	75085.	4938.	12270.	1587.6
#3	41.821	109.45	639.77	75353.	5049.	12340.	1607.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001 Acquired: 11/9/2015 15:41:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.1098	829.15	104.65	2344.9	8.3954	5.3891	851.6
Stddev	.3634	24.89	.12	1.8	1.4401	.9884	8.0
%RSD	7.1117	3.0022	.11785	.07564	17.153	18.340	.9429
#1	5.3840	812.60	104.58	2347.0	7.4273	5.2033	857.5
#2	5.2478	817.06	104.79	2344.0	10.050	6.4571	842.5
#3	4.6976	857.77	104.58	2343.8	7.7086	4.5067	854.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.35934	83.833	457.93
Stddev	.86142	.874	.33
%RSD	239.72	1.0422	.07308
#1	-1.1665	84.496	458.19
#2	-.45916	82.843	458.06
#3	.54764	84.159	457.55
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001 Acquired: 11/9/2015 15:41:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38319.	11060.	537860.
Stddev	67.	53.	3349.
%RSD	.17505	.48369	.62261
#1	38363.	11056.	535960.
#2	38242.	11115.	541720.
#3	38353.	11008.	535890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.727%	93.708%	96.468%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-00L(5) Acquired: 11/9/2015 15:45:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11967	6493.0	11.883	57.451	.45573	8338.6	-.0241
Stddev	.43412	18.3	.348	.914	.01308	32.5	.1302
%RSD	362.75	.28228	2.9278	1.5905	2.8711	.38969	539.9
#1	.35480	6500.2	12.272	57.322	.46281	8313.4	.0681
#2	-.49699	6506.7	11.772	58.422	.46375	8327.1	.0326
#3	-.21683	6472.2	11.603	56.608	.44063	8375.3	-.1730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.5748	21.581	123.42	14600.	958.5	2420.	310.60
Stddev	.0773	.125	1.55	22.	72.7	13.	2.23
%RSD	.90200	.57707	1.2532	.15331	7.583	.5342	.71800
#1	8.5490	21.669	125.16	14594.	994.8	2406.	312.60
#2	8.6617	21.635	122.89	14581.	874.8	2424.	310.99
#3	8.5136	21.439	122.20	14625.	1006.	2431.	308.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-00L(5) Acquired: 11/9/2015 15:45:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1838	123.11	20.998	467.77	.65933	3.4082	164.6
Stddev	.2448	20.73	.114	3.75	.71921	1.0598	1.9
%RSD	20.679	16.840	.54284	.80265	109.08	31.096	1.164
#1	-.90167	99.500	20.869	463.44	1.0448	3.1239	166.4
#2	-1.3096	138.35	21.038	470.13	1.1037	2.5195	164.9
#3	-1.3401	131.46	21.086	469.73	-.17045	4.5811	162.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.02843	16.309	89.261
Stddev	.87713	.466	.309
%RSD	3085.3	2.8593	.34672
#1	.11006	16.013	88.910
#2	.77122	16.846	89.378
#3	-.96657	16.066	89.494
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-00L(5) Acquired: 11/9/2015 15:45:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38907.	11105.	548400.
Stddev	154.	195.	7843.
%RSD	.39585	1.7547	1.4302
#1	39083.	10889.	540050.
#2	38801.	11268.	549530.
#3	38836.	11157.	555610.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.24%	94.093%	98.358%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001DU Acquired: 11/9/2015 15:50:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.4140	20583.	44.713	209.90	1.4000	24862.	.5411
Stddev	.5651	581.	1.441	4.43	.0129	657.	.0173
%RSD	8.8111	2.8251	3.2231	2.1106	.91818	2.6439	3.201
#1	6.2684	20122.	45.936	205.80	1.4103	24343.	.5219
#2	7.0377	20391.	45.080	209.30	1.4040	24643.	.5460
#3	5.9360	21236.	43.124	214.60	1.3856	25601.	.5555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.641	68.011	14438.	52084.	2871.	7415.	992.17
Stddev	.119	.941	285.	1464.	39.	190.	9.53
%RSD	.43090	1.3843	1.9706	2.8115	1.348	2.566	.96089
#1	27.513	68.292	14593.	50861.	2870.	7218.	996.90
#2	27.661	68.779	14611.	51685.	2832.	7429.	998.41
#3	27.748	66.960	14110.	53707.	2910.	7597.	981.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001DU Acquired: 11/9/2015 15:50:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3607	483.54	67.941	933.40	1.8468	2.7138	567.3
Stddev	.1434	23.31	.346	.81	1.5398	1.8803	4.9
%RSD	4.2682	4.8215	.50979	.08667	83.379	69.286	.8712
#1	3.4571	458.32	68.150	934.33	3.3162	.57857	569.5
#2	3.1958	504.30	67.541	932.88	1.9790	4.1221	570.7
#3	3.4291	488.01	68.132	932.99	.24511	3.4407	561.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.6563	58.880	971.77
Stddev	.7437	.588	.68
%RSD	44.901	.99854	.06964
#1	-2.5132	59.175	972.37
#2	-1.1798	59.263	971.91
#3	-1.2758	58.203	971.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001DU Acquired: 11/9/2015 15:50:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7E7D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38572.	11045.	548030.
Stddev	38.	173.	7322.
%RSD	.09935	1.5695	1.3360
#1	38535.	11212.	544660.
#2	38611.	11057.	543000.
#3	38572.	10866.	556430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.379%	93.584%	98.293%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001MS Acquired: 11/9/2015 15:55:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.769	21394.	106.59	3500.0	86.304	36711.	81.79
Stddev	1.864	282.	1.24	25.1	1.866	321.	.41
%RSD	2.1235	1.3163	1.1632	.71795	2.1616	.87544	.5010
#1	88.917	21230.	106.02	3475.7	87.717	36465.	81.45
#2	88.772	21232.	105.74	3498.3	87.007	36593.	81.67
#3	85.619	21719.	108.02	3525.9	84.190	37075.	82.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	840.11	408.40	794.95	50896.	3257.	8973.	2281.7
Stddev	3.87	8.27	17.18	480.	47.	62.	64.1
%RSD	.46035	2.0259	2.1606	.94381	1.439	.6934	2.8101
#1	836.76	414.13	807.29	50487.	3281.	8950.	2280.1
#2	839.24	412.15	802.21	50777.	3203.	8925.	2346.6
#3	844.34	398.91	775.33	51425.	3287.	9043.	2218.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001MS Acquired: 11/9/2015 15:55:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3539	550.85	859.70	971.09	79.734	162.09	868.4
Stddev	.1359	25.03	3.85	2.77	.880	2.20	17.5
%RSD	10.036	4.5437	.44767	.28550	1.1043	1.3567	2.016
#1	1.2590	522.57	856.52	970.31	80.723	163.12	881.1
#2	1.2931	559.81	858.61	968.80	79.446	163.59	875.7
#3	1.5096	570.16	863.98	974.17	79.034	159.57	848.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	83.212	897.34	1144.4
Stddev	.930	18.87	4.6
%RSD	1.1178	2.1026	.40591
#1	84.072	911.50	1140.8
#2	82.225	904.59	1142.8
#3	83.338	875.92	1149.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001MS Acquired: 11/9/2015 15:55:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38266.	11012.	546680.
Stddev	168.	46.	12480.
%RSD	.43894	.41991	2.2828
#1	38424.	10997.	538670.
#2	38285.	11063.	540310.
#3	38090.	10974.	561060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.590%	93.301%	98.049%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001A Acquired: 11/9/2015 16:00:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.946	31822.	79.735	673.40	11.965	50655.	9.658
Stddev	.087	135.	.925	4.93	.135	213.	.336
%RSD	.43469	.42415	1.1595	.73275	1.1308	.42054	3.475
#1	20.024	31737.	78.668	667.78	12.104	50419.	9.319
#2	19.853	31751.	80.292	675.39	11.833	50713.	9.991
#3	19.962	31977.	80.246	677.03	11.960	50833.	9.664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	133.11	123.80	640.50	71803.	14960.	21810.	1529.9
Stddev	.24	1.55	6.43	314.	74.	95.	16.2
%RSD	.17873	1.2533	1.0034	.43723	.4954	.4364	1.0615
#1	132.83	125.55	646.70	71455.	14870.	21830.	1546.4
#2	133.23	122.58	633.87	71889.	14990.	21710.	1513.9
#3	133.26	123.28	640.92	72064.	15010.	21900.	1529.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001A Acquired: 11/9/2015 16:00:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8491	11449.	173.27	2232.9	118.24	69.317	857.7
Stddev	.2464	32.	.44	1.7	.93	.675	5.4
%RSD	5.0813	.27674	.25389	.07720	.78620	.97423	.6312
#1	5.0973	11415.	173.09	2230.9	117.48	68.925	863.6
#2	4.8453	11454.	173.77	2234.0	119.28	70.097	853.0
#3	4.6046	11478.	172.96	2233.8	117.97	68.929	856.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	44.670	177.50	552.15
Stddev	.753	1.96	.61
%RSD	1.6861	1.1029	.11130
#1	44.508	179.33	551.52
#2	45.491	175.44	552.75
#3	44.012	177.74	552.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-001A Acquired: 11/9/2015 16:00:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E7A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38059.	11103.	538530.
Stddev	32.	51.	6348.
%RSD	.08514	.46115	1.1787
#1	38024.	11162.	531650.
#2	38089.	11075.	544160.
#3	38063.	11072.	539780.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.055%	94.078%	96.588%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-002 Acquired: 11/9/2015 16:05:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34063	74685.	124.85	290.87	3.8180	12962.
Stddev	.40385	464.	1.90	2.33	.0303	75.
%RSD	118.56	.62141	1.5222	.80162	.79483	.57534
#1	-.05671	74216.	122.95	290.34	3.8526	12894.
#2	.32791	74695.	124.86	288.85	3.8060	12951.
#3	.75069	75144.	126.75	293.42	3.7956	13042.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.337	56.145	245.95	436.97	F 161800.	8037.
Stddev	.180	.275	1.32	2.38	697.	123.
%RSD	13.49	.48965	.53800	.54508	.43103	1.530
#1	1.518	56.072	247.32	439.72	161430.	7948.
#2	1.336	56.449	245.86	435.55	161360.	7987.
#3	1.157	55.914	244.68	435.64	162600.	8178.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-002 Acquired: 11/9/2015 16:05:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35260.	2583.5	2.6503	652.07	163.92	353.25
Stddev	349.	8.9	.1012	10.63	.68	2.27
%RSD	.9883	.34525	3.8200	1.6307	.41612	.64343
#1	35080.	2580.4	2.7596	647.04	163.63	352.68
#2	35040.	2576.6	2.6316	664.28	164.70	355.75
#3	35660.	2593.6	2.5597	644.88	163.43	351.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9184	3.9467	1125.	.88891	159.60	744.13
Stddev	.8683	3.1244	6.	1.0297	1.15	2.45
%RSD	45.262	79.165	.5172	115.84	.72363	.32967
#1	2.7977	3.2064	1132.	1.4789	160.91	744.80
#2	1.8958	1.2590	1122.	-.30007	158.73	746.19
#3	1.0616	7.3748	1122.	1.4879	159.16	741.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-002 Acquired: 11/9/2015 16:05:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38063.	10997.	533250.
Stddev	286.	88.	3521.
%RSD	.75022	.79914	.66024
#1	37842.	10968.	529680.
#2	37961.	11095.	533340.
#3	38385.	10927.	536720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.066%	93.175%	95.641%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-003 Acquired: 11/9/2015 16:10:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12758	87857.	258.26	433.32	3.8594	227940.
Stddev	.49186	2398.	.97	9.82	.0627	5624.
%RSD	385.52	2.7294	.37725	2.2665	1.6255	2.4675
#1	-.52157	87001.	257.44	430.79	3.7923	225960.
#2	.42368	86005.	258.00	425.01	3.9166	223570.
#3	-.28486	90566.	259.33	444.15	3.8693	234280.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.870	57.895	2067.5	680.30	F 177150.	9713.
Stddev	.210	.113	34.6	12.09	4369.	224.
%RSD	2.664	.19482	1.6714	1.7778	2.4659	2.307
#1	8.085	58.003	2027.9	666.51	175460.	9589.
#2	7.666	57.905	2091.4	689.10	173890.	9578.
#3	7.858	57.778	2083.2	685.29	182120.	9971.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-003 Acquired: 11/9/2015 16:10:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67930.	3441.9	7.0773	3208.6	132.35	2086.0
Stddev	1754.	118.9	.3275	85.9	.23	2.0
%RSD	2.582	3.4556	4.6270	2.6780	.17256	.09613
#1	67260.	3309.3	6.7293	3193.0	132.22	2083.8
#2	66600.	3539.3	7.1231	3131.5	132.22	2086.3
#3	69920.	3477.0	7.3794	3301.2	132.61	2087.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.375	11.685	1485.	1.7610	201.07	1184.4
Stddev	.354	.854	25.	1.0052	2.97	.8
%RSD	1.3416	7.3099	1.717	57.084	1.4779	.06947
#1	26.504	11.728	1456.	2.9215	197.80	1184.2
#2	25.975	10.810	1504.	1.1606	203.60	1183.7
#3	26.646	12.516	1495.	1.2009	201.80	1185.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-003 Acquired: 11/9/2015 16:10:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37144.	10993.	531540.
Stddev	55.	180.	9209.
%RSD	.14768	1.6354	1.7325
#1	37096.	11002.	542150.
#2	37133.	11168.	526850.
#3	37204.	10809.	525620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.699%	93.141%	95.334%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-004 Acquired: 11/9/2015 16:14:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2329	112330.	23.028	505.55	4.5082	10613.
Stddev	.3187	4683.	.981	22.02	.0408	450.
%RSD	25.855	4.1691	4.2588	4.3551	.90532	4.2440
#1	-.91955	117550.	22.229	530.14	4.5153	11117.
#2	-1.2222	110960.	24.123	498.83	4.5450	10471.
#3	-1.5568	108490.	22.734	487.67	4.4643	10251.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0823	67.425	370.49	138.23	F 214130.	9580.
Stddev	.2136	.280	1.25	1.48	8782.	322.
%RSD	259.6	.41554	.33692	1.0677	4.1013	3.365
#1	-.1046	67.406	370.24	137.25	223970.	9930.
#2	.3152	67.154	371.84	139.93	211330.	9512.
#3	.0363	67.714	369.38	137.52	207090.	9296.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-004 Acquired: 11/9/2015 16:14:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48330.	2231.7	-.96684	467.80	159.77	100.23
Stddev	1833.	42.1	.07659	35.86	.22	4.53
%RSD	3.792	1.8877	7.9214	7.6655	.13719	4.5201
#1	50410.	2273.3	-1.0086	496.56	159.68	95.157
#2	47590.	2232.9	-1.0135	479.21	159.61	101.66
#3	46970.	2189.0	-.87845	427.62	160.02	103.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.2425	2.1530	275.1	-.30804	128.35	489.00
Stddev	1.3001	1.0117	.6	1.3092	.25	.67
%RSD	17.951	46.991	.2021	425.02	.19235	.13641
#1	8.2942	1.2320	275.6	.45090	128.36	488.67
#2	5.7890	1.9911	275.1	.44479	128.59	488.56
#3	7.6444	3.2360	274.5	-1.8198	128.09	489.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-004 Acquired: 11/9/2015 16:14:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38270.	10829.	543630.
Stddev	80.	524.	2319.
%RSD	.20883	4.8397	.42652
#1	38187.	10239.	541920.
#2	38278.	11007.	542700.
#3	38346.	11241.	546270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.600%	91.751%	97.503%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-005 Acquired: 11/9/2015 16:19:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.81528	138360.	111.09	524.23	6.2093	50955.
Stddev	.38110	10558.	1.46	39.82	.0604	3889.
%RSD	46.745	7.6304	1.3132	7.5963	.97341	7.6331
#1	-1.0699	144310.	109.45	546.03	6.2621	53141.
#2	-.37714	144610.	112.23	548.38	6.2223	53259.
#3	-.99882	126170.	111.60	478.26	6.1434	46464.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3898	108.73	165.09	328.13	F 280600.	15290.
Stddev	.0936	.07	1.61	4.13	21745.	1024.
%RSD	24.01	.06622	.97361	1.2600	7.7492	6.701
#1	.2823	108.66	166.76	331.83	293050.	15870.
#2	.4343	108.71	164.96	328.89	293270.	15890.
#3	.4529	108.80	163.55	323.67	255500.	14100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-005 Acquired: 11/9/2015 16:19:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69470.	6672.0	4.2779	387.38	241.32	216.68
Stddev	5253.	18.8	.1896	27.97	.45	4.10
%RSD	7.561	.28106	4.4316	7.2212	.18599	1.8928
#1	72430.	6693.7	4.1906	398.25	241.54	216.13
#2	72580.	6660.9	4.1477	408.28	241.63	212.88
#3	63410.	6661.5	4.4954	355.60	240.81	221.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22943	6.0030	375.7	5.3040	191.29	842.58
Stddev	.62629	1.9019	4.8	1.1569	1.91	.29
%RSD	272.97	31.683	1.273	21.812	.99648	.03480
#1	-.41423	6.2008	380.3	4.6968	193.30	842.61
#2	.83676	7.7982	376.2	6.6381	191.06	842.27
#3	.26577	4.0098	370.7	4.5770	189.51	842.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-005 Acquired: 11/9/2015 16:19:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38239.	11650.	545170.
Stddev	148.	767.	3374.
%RSD	.38732	6.5870	.61890
#1	38140.	11313.	541300.
#2	38409.	11109.	546720.
#3	38168.	12528.	547490.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.520%	98.712%	97.779%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-006 Acquired: 11/9/2015 16:24:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34834	68271.	255.16	641.21	4.7696	198500.
Stddev	.24550	1125.	.59	9.03	.0725	2834.
%RSD	70.478	1.6483	.23222	1.4085	1.5207	1.4279
#1	.18420	66972.	255.81	630.79	4.8532	195270.
#2	.23026	68948.	254.65	646.04	4.7236	199670.
#3	.63058	68892.	255.03	646.80	4.7320	200560.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.655	65.324	122.75	4013.7	F 157430.	9201.
Stddev	.146	.089	1.22	34.4	2244.	168.
%RSD	2.202	.13625	.99535	.85754	1.4256	1.828
#1	6.487	65.233	124.16	4053.4	154880.	9007.
#2	6.719	65.411	122.03	3994.5	158280.	9293.
#3	6.759	65.327	122.07	3993.1	159120.	9303.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-006 Acquired: 11/9/2015 16:24:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102500.	4633.1	15.786	655.41	157.68	597.79
Stddev	1360.	70.0	.155	4.02	.48	.47
%RSD	1.327	1.5119	.98081	.61388	.30383	.07833
#1	101000.	4712.3	15.965	654.43	158.20	598.24
#2	102800.	4607.9	15.708	651.96	157.58	597.30
#3	103700.	4579.1	15.686	659.83	157.25	597.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.6222	13.951	798.5	11.649	147.65	951.37
Stddev	2.4253	1.965	6.5	1.901	1.19	1.79
%RSD	43.138	14.082	.8125	16.319	.80811	.18810
#1	6.1244	14.174	806.0	12.201	148.94	953.38
#2	7.7572	15.794	794.2	13.214	146.58	950.77
#3	2.9851	11.884	795.3	9.5336	147.45	949.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-006 Acquired: 11/9/2015 16:24:35 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37053.	10921.	520350.
Stddev	29.	117.	2673.
%RSD	.07933	1.0683	.51376
#1	37021.	10897.	517260.
#2	37079.	10818.	522050.
#3	37060.	11048.	521720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.465%	92.534%	93.327%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-007 Acquired: 11/9/2015 16:29:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.98074	34965.	197.55	987.67	4.7721	128810.	.4655
Stddev	.22656	612.	1.60	17.69	.0459	2061.	.1526
%RSD	23.101	1.7509	.81032	1.7908	.96297	1.5997	32.77
#1	1.2103	34264.	198.78	967.58	4.7222	126460.	.3713
#2	.97461	35242.	195.74	994.53	4.8126	129680.	.6416
#3	.75731	35391.	198.13	1000.9	4.7815	130290.	.3838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.770	207.32	2801.3	117200.	5122.	20870.	1660.0
Stddev	.155	2.43	30.2	1767.	97.	319.	16.6
%RSD	.31070	1.1731	1.0768	1.5073	1.896	1.530	1.0006
#1	49.927	204.55	2767.5	115190.	5011.	20510.	1641.1
#2	49.618	208.35	2810.8	117900.	5163.	20950.	1666.7
#3	49.765	209.08	2825.5	118510.	5191.	21140.	1672.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-007 Acquired: 11/9/2015 16:29:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.968	835.63	123.27	1368.2	.47013	9.0518	1425.
Stddev	.299	10.70	.44	2.4	.66607	.5001	14.
%RSD	1.0325	1.2805	.35631	.17828	141.68	5.5252	.9790
#1	29.271	834.69	123.53	1371.0	-.20694	8.8070	1409.
#2	28.673	846.76	123.51	1366.9	1.1246	9.6271	1431.
#3	28.959	825.42	122.76	1366.6	.49271	8.7212	1435.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	5.0894	119.03	405.89
Stddev	.5229	.91	1.33
%RSD	10.275	.76841	.32679
#1	5.1906	117.98	407.42
#2	4.5233	119.44	405.27
#3	5.5543	119.67	404.99
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-007 Acquired: 11/9/2015 16:29:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38169.	11132.	540050.
Stddev	82.	265.	5497.
%RSD	.21516	2.3834	1.0179
#1	38212.	11439.	546290.
#2	38220.	10983.	537930.
#3	38074.	10975.	535920.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.338%	94.324%	96.860%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-008 Acquired: 11/9/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2897	137720.	96.413	498.36	5.5820	46186.
Stddev	.3337	1011.	1.398	4.74	.0734	393.
%RSD	25.875	.73433	1.4497	.95136	1.3142	.85073
#1	-1.0714	137300.	95.343	497.06	5.4973	46137.
#2	-1.6739	136970.	97.995	494.40	5.6260	45820.
#3	-1.1240	138870.	95.902	503.61	5.6227	46602.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5093	114.35	153.58	301.27	F 272460.	14980.
Stddev	.0446	.12	1.33	2.27	2205.	147.
%RSD	8.754	.10792	.86322	.75414	.80911	.9827
#1	.4659	114.48	152.06	298.94	272060.	14830.
#2	.5069	114.23	154.52	301.38	270480.	15010.
#3	.5550	114.33	154.15	303.49	274830.	15120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-008 Acquired: 11/9/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63480.	7468.7	4.2996	345.52	223.90	195.54
Stddev	484.	97.9	.2912	5.11	.24	1.57
%RSD	.7628	1.3106	6.7729	1.4792	.10760	.80202
#1	63300.	7372.4	4.5749	344.59	224.13	195.00
#2	63100.	7568.1	4.3292	351.04	223.93	197.31
#3	64020.	7465.6	3.9948	340.95	223.65	194.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5078	7.1004	390.5	7.7102	179.26	764.45
Stddev	2.3172	1.3002	3.6	.2541	1.81	.55
%RSD	153.68	18.312	.9333	3.2963	1.0077	.07188
#1	3.3816	8.2163	386.4	7.4288	177.17	764.64
#2	-1.0832	7.4122	391.8	7.7786	180.33	764.89
#3	2.2250	5.6726	393.3	7.9231	180.27	763.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-008 Acquired: 11/9/2015 16:34:09 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38392.	11258.	546840.
Stddev	57.	57.	438.
%RSD	.14829	.50530	.08015
#1	38339.	11293.	546470.
#2	38452.	11192.	547320.
#3	38385.	11288.	546720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.914%	95.387%	98.079%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV003 Acquired: 11/9/2015 16:38:59 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	749.68	47694.	2461.2	9720.0	996.42	48691.	985.2
Stddev	4.88	1017.	12.9	217.5	14.48	1101.	3.9
%RSD	.65044	2.1322	.52530	2.2378	1.4530	2.2606	.3987
#1	744.10	47146.	2446.7	9545.1	997.33	47828.	980.7
#2	751.81	47068.	2465.2	9651.4	1010.4	48315.	986.9
#3	753.12	48867.	2471.6	9963.5	981.51	49931.	988.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4808.5	10042.	11782.	24365.	37620.	49860.	4833.8
Stddev	20.0	85.	69.	496.	859.	1041.	30.6
%RSD	.41648	.84779	.58375	2.0350	2.282	2.087	.63359
#1	4786.7	9945.7	11851.	23978.	36950.	49220.	4828.2
#2	4812.8	10074.	11780.	24195.	37320.	49300.	4806.4
#3	4826.1	10107.	11714.	24924.	38590.	51060.	4866.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV003 Acquired: 11/9/2015 16:38:59 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	967.04	26042.	4735.5	9400.2	2423.6	1223.0	980.6
Stddev	4.09	564.	24.1	41.2	11.5	6.6	7.7
%RSD	.42283	2.1648	.50846	.43798	.47610	.53747	.7832
#1	962.33	25617.	4708.8	9357.1	2410.4	1215.7	971.9
#2	969.26	25827.	4741.9	9404.4	2431.7	1224.9	983.3
#3	969.55	26681.	4755.7	9439.1	2428.8	1228.4	986.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	937.98	2473.1	4905.6
Stddev	3.42	19.2	22.9
%RSD	.36490	.77484	.46749
#1	934.27	2451.3	4881.1
#2	938.67	2480.7	4909.0
#3	941.01	2487.3	4926.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV003 Acquired: 11/9/2015 16:38:59 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35876.	10498.	519750.
Stddev	275.	60.	2251.
%RSD	.76520	.57524	.43315
#1	36136.	10545.	522250.
#2	35903.	10517.	519130.
#3	35589.	10430.	517880.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB003 Acquired: 11/9/2015 16:44:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08247	-3.3005	-.57806	.68827	.04176	-9.9966	-.3134
Stddev	.16660	125.60	1.0754	.77071	.00928	5.0450	.0536
%RSD	202.02	3805.4	186.04	111.98	22.220	50.467	17.11
#1	-.10536	-125.62	-1.8194	-.10891	.05229	-15.800	-.3449
#2	.14036	125.34	.07168	.74427	.03476	-6.6547	-.2515
#3	.21240	-9.616	.01352	1.4295	.03824	-7.5353	-.3438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.14879	.20947	1.6040	11.047	76.67	-1.674	-.02301
Stddev	.20395	.23056	1.1655	6.555	69.66	6.023	.02785
%RSD	137.07	110.07	72.663	59.339	90.86	359.7	121.05
#1	.37703	.03378	2.8608	4.2780	11.09	5.170	.00831
#2	.08493	.47054	.55875	17.365	149.8	-6.166	-.04499
#3	-.01559	.12408	1.3924	11.498	69.11	-4.028	-.03234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB003 Acquired: 11/9/2015 16:44:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5568	-39.380	-.30456	-.42374	.40650	.38951	.0933
Stddev	.2619	11.752	.01730	.17783	1.0920	.79541	.1228
%RSD	16.822	29.843	5.6794	41.966	268.64	204.21	131.7
#1	-1.4178	-49.914	-.31520	-.55097	-.82972	.78386	.2313
#2	-1.3937	-41.522	-.31387	-.22055	.80934	.91069	.0527
#3	-1.8589	-26.704	-.28460	-.49970	1.2399	-.52602	-.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.41837	.27629	-.14526
Stddev	1.2769	.23385	.07170
%RSD	305.20	84.638	49.364
#1	-.98653	.48759	-.08712
#2	-1.3126	.02504	-.22538
#3	1.0440	.31624	-.12327
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB003 Acquired: 11/9/2015 16:44:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39205.	10664.	551020.
Stddev	1078.	101.	1579.
%RSD	2.7500	.94635	.28656
#1	38369.	10655.	550080.
#2	38825.	10569.	552840.
#3	40422.	10770.	550140.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89046-001 Acquired: 11/9/2015 16:48:53 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09633	28.757	-.00011	.22211	.04928	-30.009	-.3520
Stddev	.20717	83.231	1.4273	.09252	.01637	2.659	.1233
%RSD	215.06	289.43	1294800.	41.656	33.222	8.8609	35.03
#1	-.13010	-37.140	-.37725	.23880	.04992	-32.591	-.4872
#2	.14271	1.1192	-1.2010	.30516	.06533	-27.279	-.2456
#3	.27639	122.29	1.5779	.12238	.03260	-30.156	-.3233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19769	-.21525	.26014	6.8390	11.40	2.573	-.00858
Stddev	.14099	.33647	.69957	14.859	36.98	27.52	.04553
%RSD	71.319	156.32	268.92	217.26	324.4	1070.	530.40
#1	.03501	.06595	.04854	-4.7152	-17.13	24.04	.00910
#2	.27345	-.12367	1.0411	1.6318	-1.852	12.13	.02545
#3	.28459	-.58803	-.30921	23.600	53.18	-28.45	-.06031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89046-001 Acquired: 11/9/2015 16:48:53 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5618	-49.579	-.17589	-.49594	-.98038	1.4530	.0677
Stddev	.0732	11.819	.09824	1.4070	1.8235	.6606	.1950
%RSD	2.8578	23.839	55.853	283.69	186.00	45.468	287.9
#1	-2.5749	-36.873	-.28587	-1.3076	.99017	2.1820	.1766
#2	-2.6275	-51.617	-.09683	1.1287	-2.6081	.89379	.1841
#3	-2.4829	-60.246	-.14496	-1.3089	-1.3232	1.2832	-.1574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.58239	.06059	.35574
Stddev	.30772	.11628	.11205
%RSD	52.838	191.93	31.499
#1	-.93707	.12179	.48348
#2	-.42363	.13349	.27402
#3	-.38647	-.07352	.30973
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89046-001 Acquired: 11/9/2015 16:48:53 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39455.	10995.	569930.
Stddev	125.	299.	10103.
%RSD	.31649	2.7213	1.7727
#1	39369.	10868.	563610.
#2	39598.	11336.	564590.
#3	39398.	10780.	581580.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89046-002 Acquired: 11/9/2015 16:53:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.796	401.85	20.639	404.43	10.245	10364.	9.820
Stddev	.410	57.72	.540	5.73	.124	164.	.172
%RSD	1.9721	14.365	2.6170	1.4158	1.2091	1.5799	1.754
#1	20.436	338.86	21.001	398.47	10.180	10190.	9.691
#2	20.709	452.23	20.018	409.89	10.167	10516.	9.753
#3	21.243	414.45	20.898	404.92	10.388	10385.	10.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101.04	20.921	50.181	208.27	10510.	10610.	31.515
Stddev	.46	.425	.726	12.37	60.	183.	.355
%RSD	.45304	2.0294	1.4474	5.9411	.5736	1.727	1.1274
#1	100.71	20.660	50.687	195.78	10450.	10420.	31.443
#2	100.84	20.691	49.349	208.51	10560.	10780.	31.201
#3	101.56	21.410	50.507	220.53	10530.	10620.	31.900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89046-002 Acquired: 11/9/2015 16:53:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5952	11150.	79.125	19.547	122.66	73.027	.3749
Stddev	.1579	136.	.634	2.234	1.59	2.014	.1013
%RSD	6.0835	1.2219	.80111	11.427	1.2946	2.7580	27.02
#1	-2.5867	11023.	78.822	20.306	124.34	73.235	.2915
#2	-2.4417	11294.	78.700	17.033	122.45	70.917	.3456
#3	-2.7571	11133.	79.854	21.303	121.19	74.929	.4876
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	50.355	100.72	123.35
Stddev	1.494	1.20	.66
%RSD	2.9666	1.1956	.53778
#1	49.259	100.67	122.85
#2	49.749	99.551	123.11
#3	52.056	101.96	124.11
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ89046-002 Acquired: 11/9/2015 16:53:40 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37589.	10754.	538470.
Stddev	289.	106.	6214.
%RSD	.76808	.98942	1.1539
#1	37803.	10871.	539850.
#2	37703.	10727.	543880.
#3	37260.	10663.	531680.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001 Acquired: 11/9/2015 16:58:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.35745	-23.980	-1.5093	-.15910	.03796	-26.237	-.2378
Stddev	.16028	54.516	.9953	.17342	.01247	1.787	.1460
%RSD	44.841	227.34	65.947	109.00	32.847	6.8100	61.40
#1	-.50210	-86.476	-2.5563	.04115	.02603	-26.644	-.3160
#2	-.38512	13.801	-.57521	-.25911	.03693	-27.785	-.3281
#3	-.18513	.7339	-1.3964	-.25933	.05091	-24.282	-.0693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15707	.02594	2.3458	21.022	-45.73	-16.53	2.3513
Stddev	.04474	.11163	1.0584	9.570	43.37	39.03	.0725
%RSD	28.482	430.32	45.119	45.524	94.84	236.2	3.0849
#1	.10546	-.10188	3.3112	26.824	4.068	-7.131	2.3729
#2	.18110	.07547	1.2141	9.9762	-66.04	-59.40	2.2704
#3	.18467	.10423	2.5119	26.266	-75.21	16.95	2.4105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001 Acquired: 11/9/2015 16:58:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5692	-47.925	-.08450	.22463	.90433	-.95940	.2644
Stddev	.1272	13.814	.27536	1.1195	1.1181	.37167	.0422
%RSD	4.9509	28.823	325.89	498.38	123.64	38.740	15.97
#1	-2.6868	-54.443	.20063	1.1706	2.1948	-.56365	.2807
#2	-2.4342	-57.273	-.10520	.51465	.22673	-1.0135	.2165
#3	-2.5866	-32.058	-.34892	-1.0113	.29142	-1.3011	.2961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.54064	.15309	.40824
Stddev	.84039	.08801	.06642
%RSD	155.44	57.489	16.269
#1	1.5108	.05862	.37905
#2	.03883	.16790	.36142
#3	.07224	.23276	.48425
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001 Acquired: 11/9/2015 16:58:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39187.	10829.	557080.
Stddev	130.	358.	7345.
%RSD	.33207	3.3054	1.3184
#1	39067.	10702.	552580.
#2	39325.	10551.	565550.
#3	39169.	11233.	553100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.96%	91.751%	99.915%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001L(5) Acquired: 11/9/2015 17:03:16 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03454	-24.222	-.62143	.72830	.02897	8.6978	-.0466
Stddev	.46286	42.075	.92516	.20584	.00451	3.5620	.2004
%RSD	1340.2	173.71	148.87	28.263	15.575	40.953	430.1
#1	.49731	23.576	-.77961	.59899	.03007	11.094	-.0739
#2	-.34626	-40.583	-1.4573	.96566	.03283	4.6046	.1661
#3	-.25465	-55.659	.37261	.62024	.02401	10.395	-.2320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10691	-.31811	.83674	7.4754	-58.91	5.236	.40828
Stddev	.17301	.28010	1.5980	3.7860	48.86	18.37	.02787
%RSD	161.82	88.054	190.98	50.647	82.95	350.8	6.8261
#1	.14932	-.06052	.84669	4.1525	-106.6	8.852	.41952
#2	-.08335	-.27750	2.4297	6.6766	-8.962	21.52	.42877
#3	.25477	-.61630	-.76621	11.597	-61.14	-14.67	.37654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001L(5) Acquired: 11/9/2015 17:03:16 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6107	-32.241	-.07413	.51635	-1.2351	.39457	1.010
Stddev	.1371	20.154	.26889	1.3560	1.6192	1.4030	.594
%RSD	5.2511	62.510	362.72	262.61	131.10	355.58	58.77
#1	-2.4739	-9.8131	.23389	-.07745	-2.7138	-1.1481	.3251
#2	-2.6100	-48.832	-.26194	2.0680	-1.4866	.73741	1.331
#3	-2.7481	-38.077	-.19434	-.44146	.49518	1.5944	1.374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.4232	.18806	.04033
Stddev	.7241	.24241	.08100
%RSD	29.884	128.90	200.85
#1	-3.1479	-.00047	.08569
#2	-2.4221	.10313	-.05319
#3	-1.6996	.46150	.08847
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001L(5) Acquired: 11/9/2015 17:03:16 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38899.	10890.	557640.
Stddev	46.	126.	10253.
%RSD	.11866	1.1544	1.8387
#1	38933.	10849.	552680.
#2	38919.	11031.	550810.
#3	38847.	10789.	569430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.22%	92.267%	100.02%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001DU Acquired: 11/9/2015 17:08:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12763	47.112	.07776	.01408	.05951	-17.916	-.2107
Stddev	.07922	69.403	.59741	.69479	.01174	.913	.0744
%RSD	62.067	147.32	768.31	4932.9	19.734	5.0963	35.33
#1	-.06901	4.3259	-.09785	-.52976	.06169	-17.170	-.1298
#2	-.09613	9.8208	-.41217	.79681	.04683	-17.644	-.2258
#3	-.21775	127.19	.74328	-.22480	.07001	-18.934	-.2764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.26988	.03616	3.6108	18.191	-16.58	24.89	2.3419
Stddev	.09674	.33287	1.1874	7.530	18.82	59.02	.0565
%RSD	35.847	920.58	32.885	41.392	113.5	237.1	2.4143
#1	.30733	.17747	4.1111	24.117	-29.37	-34.36	2.4034
#2	.34229	.27506	2.2551	9.7181	-25.40	83.67	2.3301
#3	.16001	-.34405	4.4662	20.738	5.037	25.37	2.2921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001DU Acquired: 11/9/2015 17:08:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.7007	-25.801	.13406	.10516	-2.1926	-.64733	.1124
Stddev	.1814	5.167	.10727	.77671	.2186	2.0133	.1886
%RSD	6.7149	20.027	80.013	738.57	9.9699	311.02	167.8
#1	-2.5947	-29.526	.01348	-.17075	-1.9840	.28650	.1732
#2	-2.5973	-27.974	.21887	.98217	-2.1739	.72951	.2632
#3	-2.9101	-19.902	.16984	-.49592	-2.4200	-2.9580	-.0991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.9910	-.00729	.73413
Stddev	1.0910	.52169	.10398
%RSD	54.795	7154.8	14.164
#1	-1.7991	.54527	.61686
#2	-1.0087	-.49133	.77046
#3	-3.1651	-.07581	.81508
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001DU Acquired: 11/9/2015 17:08:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38768.	10804.	549560.
Stddev	56.	109.	9291.
%RSD	.14346	1.0114	1.6906
#1	38821.	10860.	539520.
#2	38710.	10678.	557860.
#3	38773.	10873.	551290.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.882%	91.539%	98.566%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001MS Acquired: 11/9/2015 17:12:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.992	2124.1	40.083	1997.3	50.823	-17.589	49.64
Stddev	1.109	26.1	.323	34.8	.501	4.157	.17
%RSD	2.0545	1.2310	.80587	1.7424	.98609	23.636	.3487
#1	55.145	2094.2	40.409	1958.6	51.289	-20.629	49.77
#2	52.933	2142.3	40.077	2007.3	50.293	-19.287	49.71
#3	53.897	2135.9	39.763	2026.0	50.885	-12.852	49.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	510.11	210.03	255.82	1047.2	-55.39	6.438	538.62
Stddev	.63	2.33	3.13	23.1	82.04	16.21	6.33
%RSD	.12421	1.1092	1.2248	2.2020	148.1	251.8	1.1752
#1	509.70	212.55	258.35	1021.5	-140.3	24.88	544.68
#2	509.79	207.95	252.32	1054.1	23.44	-5.547	532.05
#3	510.84	209.59	256.79	1066.0	-49.30	-.0244	539.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001MS Acquired: 11/9/2015 17:12:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.9335	-69.754	504.75	19.716	101.53	103.22	.2119
Stddev	.2009	25.484	.43	1.756	.43	1.73	.0772
%RSD	6.8501	36.534	.08484	8.9074	.42706	1.6780	36.42
#1	-2.7066	-60.657	505.10	21.607	101.06	102.36	.1229
#2	-3.0050	-50.068	504.27	19.403	101.62	105.21	.2604
#3	-3.0889	-98.538	504.89	18.137	101.91	102.08	.2525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	53.886	503.30	510.24
Stddev	1.145	5.97	.47
%RSD	2.1256	1.1860	.09190
#1	55.191	508.80	510.03
#2	53.049	496.95	509.92
#3	53.417	504.15	510.78
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001MS Acquired: 11/9/2015 17:12:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC761S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38848.	11111.	549880.
Stddev	80.	65.	7522.
%RSD	.20697	.58387	1.3680
#1	38939.	11166.	542740.
#2	38816.	11127.	557740.
#3	38788.	11039.	549160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.09%	94.140%	98.624%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001A Acquired: 11/9/2015 17:17:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.957	412.17	19.326	386.02	10.140	9954.4	9.461
Stddev	.930	47.22	.927	6.00	.387	182.5	.102
%RSD	4.4386	11.457	4.7971	1.5547	3.8208	1.8332	1.080
#1	20.877	357.69	19.177	379.50	10.169	9775.6	9.376
#2	21.924	441.37	20.318	387.22	10.513	9947.2	9.575
#3	20.069	437.45	18.482	391.32	9.7395	10140.	9.434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	98.515	20.811	51.362	224.28	10140.	10260.	33.228
Stddev	.346	1.255	3.207	7.18	196.	143.	1.299
%RSD	.35108	6.0294	6.2431	3.1992	1.927	1.397	3.9094
#1	98.909	21.162	51.448	216.43	9974.	10120.	33.379
#2	98.377	21.853	54.525	230.51	10100.	10270.	34.445
#3	98.260	19.418	48.113	225.89	10360.	10400.	31.860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001A Acquired: 11/9/2015 17:17:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6405	10684.	77.355	18.323	113.62	71.422	.2135
Stddev	.1842	191.	.377	.647	.75	.657	.2016
%RSD	6.9740	1.7884	.48726	3.5284	.66067	.91937	94.43
#1	-2.8008	10498.	77.517	17.816	114.12	72.019	-.0122
#2	-2.4394	10675.	77.624	19.051	113.97	71.530	.2770
#3	-2.6814	10880.	76.924	18.102	112.75	70.719	.3758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.517	99.433	120.52
Stddev	.736	3.250	.48
%RSD	1.4858	3.2685	.40188
#1	49.357	99.492	121.06
#2	48.875	102.65	120.39
#3	50.320	96.154	120.12
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31004-001A Acquired: 11/9/2015 17:17:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC761A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37733.	10914.	533070.
Stddev	347.	178.	23237.
%RSD	.92023	1.6278	4.3590
#1	37334.	11028.	533730.
#2	37902.	11005.	509520.
#3	37963.	10709.	555980.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.216%	92.475%	95.610%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001(2) Acquired: 11/9/2015 17:22:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55827	65729.	29.705	316.14	2.8808	56918.	1.930
Stddev	.15909	429.	1.232	1.75	.0643	307.	.033
%RSD	28.497	.65268	4.1484	.55398	2.2318	.53996	1.727
#1	-.74175	65322.	29.326	314.23	2.8072	56584.	1.962
#2	-.47427	65688.	28.706	316.50	2.9263	56983.	1.896
#3	-.45878	66177.	31.082	317.68	2.9089	57188.	1.931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.268	79.620	171.29	120230.	7257.	42880.	4865.7
Stddev	.110	1.999	4.61	545.	39.	167.	83.5
%RSD	.22362	2.5108	2.6906	.45321	.5324	.3893	1.7160
#1	49.395	77.321	166.04	119730.	7245.	42730.	4774.0
#2	49.220	80.948	174.70	120150.	7300.	42860.	4937.4
#3	49.191	80.591	173.12	120810.	7226.	43060.	4885.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001(2) Acquired: 11/9/2015 17:22:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.69812	230.10	105.29	264.83	.78043	5.5027	229.3
Stddev	.22068	20.98	.26	1.11	1.2045	1.5085	5.3
%RSD	31.610	9.1200	.24393	.41904	154.34	27.413	2.291
#1	-.58658	230.17	105.54	265.83	1.1317	7.1639	223.3
#2	-.95230	251.06	105.03	265.01	-.56067	5.1256	233.0
#3	-.55547	209.09	105.31	263.64	1.7702	4.2186	231.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	3.1580	100.29	603.59
Stddev	.6644	2.44	1.75
%RSD	21.039	2.4345	.28992
#1	3.5984	97.560	605.29
#2	2.3937	102.26	603.70
#3	3.4817	101.06	601.79
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001(2) Acquired: 11/9/2015 17:22:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37732.	10878.	533670.
Stddev	108.	115.	13058.
%RSD	.28647	1.0557	2.4469
#1	37700.	10778.	548750.
#2	37643.	10851.	525750.
#3	37852.	11003.	526520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.212%	92.167%	95.717%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001L(10) Acquired: 11/9/2015 17:27:20 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15650	13125.	4.5680	62.709	.58206	11471.	.1549
Stddev	.74692	100.	1.0529	.558	.02701	120.	.0855
%RSD	477.27	.76379	23.049	.88997	4.6398	1.0476	55.23
#1	-.43244	13010.	5.2415	62.174	.55423	11370.	.2345
#2	-.72619	13169.	3.3547	62.666	.60816	11438.	.0645
#3	.68913	13196.	5.1079	63.288	.58380	11604.	.1656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.386	16.313	35.397	24197.	1477.	8709.	982.49
Stddev	.174	.324	.365	227.	57.	80.	10.66
%RSD	1.6800	1.9868	1.0315	.93886	3.887	.9192	1.0847
#1	10.222	15.973	35.034	23964.	1501.	8629.	971.73
#2	10.367	16.618	35.394	24208.	1519.	8710.	993.04
#3	10.569	16.347	35.764	24418.	1412.	8789.	982.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001L(10) Acquired: 11/9/2015 17:27:20 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3399	8.2676	21.583	55.442	-1.4851	1.1246	46.99
Stddev	.2004	22.875	.191	1.310	.3153	.1915	.74
%RSD	8.5624	276.68	.88658	2.3626	21.229	17.029	1.580
#1	-2.4590	19.146	21.385	56.815	-1.3483	.98504	46.18
#2	-2.4521	-18.016	21.598	55.305	-1.8457	1.0457	47.62
#3	-2.1086	23.673	21.767	54.206	-1.2614	1.3429	47.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.46756	19.973	123.09
Stddev	.77863	.084	.46
%RSD	166.53	.42221	.37597
#1	-.53338	20.016	122.55
#2	.34188	20.027	123.33
#3	-1.2112	19.876	123.38
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001L(10) Acquired: 11/9/2015 17:27:20 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38086.	10747.	542550.
Stddev	77.	63.	7241.
%RSD	.20117	.58299	1.3346
#1	38123.	10815.	548310.
#2	37998.	10690.	534420.
#3	38138.	10737.	544920.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.127%	91.063%	97.309%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001DU(2) Acquired: 11/9/2015 17:32:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.32059	51418.	23.273	254.89	2.2368	45913.	1.484
Stddev	.78875	402.	.813	2.10	.0858	300.	.117
%RSD	246.03	.78206	3.4934	.82285	3.8346	.65441	7.892
#1	.39352	50992.	23.991	252.53	2.3130	45566.	1.356
#2	-.18810	51471.	23.439	255.60	2.2535	46074.	1.585
#3	-1.1672	51791.	22.390	256.53	2.1439	46098.	1.512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.953	65.073	147.55	94417.	6370.	37190.	2493.5
Stddev	.227	1.860	4.68	609.	97.	282.	52.0
%RSD	.63166	2.8582	3.1739	.64473	1.519	.7575	2.0850
#1	36.200	66.796	152.43	93723.	6265.	36890.	2531.8
#2	35.754	65.323	147.14	94673.	6455.	37220.	2514.3
#3	35.905	63.101	143.09	94857.	6390.	37450.	2434.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001DU(2) Acquired: 11/9/2015 17:32:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.70381	215.70	79.681	214.07	-.69821	5.3866	231.9
Stddev	.17325	14.97	.706	1.00	.36099	1.7630	7.4
%RSD	24.615	6.9378	.88664	.46945	51.703	32.729	3.182
#1	-.70490	231.43	80.436	215.07	-.59010	4.0391	239.6
#2	-.53002	201.64	79.570	214.06	-.40363	7.3818	231.4
#3	-.87651	214.03	79.036	213.06	-1.1009	4.7389	224.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.26742	79.511	481.07
Stddev	.92608	2.466	3.11
%RSD	346.30	3.1021	.64611
#1	.68601	81.957	484.33
#2	-1.1635	79.552	480.73
#3	-.32479	77.025	478.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001DU(2) Acquired: 11/9/2015 17:32:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC765D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37416.	10649.	530900.
Stddev	211.	84.	12852.
%RSD	.56509	.78522	2.4207
#1	37618.	10731.	518830.
#2	37433.	10653.	529480.
#3	37196.	10564.	544410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.398%	90.232%	95.221%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001MS(2) Acquired: 11/9/2015 17:37:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.576	48949.	57.952	2033.7	47.419	45574.	43.76
Stddev	1.257	459.	1.041	11.6	.407	294.	.13
%RSD	2.8209	.93848	1.7962	.56812	.85735	.64594	.2952
#1	45.998	48420.	58.472	2020.7	47.888	45266.	43.91
#2	44.122	49187.	56.753	2037.7	47.162	45605.	43.70
#3	43.609	49242.	58.631	2042.8	47.207	45852.	43.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	459.61	241.42	360.44	87192.	5960.	35240.	2999.9
Stddev	2.19	2.02	3.69	528.	115.	283.	44.5
%RSD	.47634	.83655	1.0235	.60538	1.921	.8017	1.4824
#1	461.87	243.74	364.58	86687.	5828.	34920.	3050.3
#2	459.46	240.07	359.23	87150.	6029.	35400.	2982.9
#3	457.50	240.46	357.51	87740.	6023.	35420.	2966.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001MS(2) Acquired: 11/9/2015 17:37:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.96097	170.00	491.30	239.08	22.551	82.914	203.3
Stddev	.00691	12.81	1.79	1.39	.219	2.447	1.6
%RSD	.71881	7.5386	.36466	.58018	.97288	2.9511	.7754
#1	-.96663	155.24	493.23	240.60	22.418	84.577	205.1
#2	-.95327	176.38	490.98	238.75	22.432	84.061	202.7
#3	-.96301	178.36	489.69	237.89	22.805	80.105	202.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	43.607	517.05	924.26
Stddev	.847	3.97	4.09
%RSD	1.9434	.76697	.44239
#1	43.718	521.60	928.34
#2	42.710	514.32	924.28
#3	44.394	515.23	920.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001MS(2) Acquired: 11/9/2015 17:37:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37291.	10675.	528700.
Stddev	82.	90.	4418.
%RSD	.22063	.84027	.83557
#1	37196.	10612.	523630.
#2	37333.	10635.	531700.
#3	37343.	10777.	530770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.076%	90.445%	94.826%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001A(2) Acquired: 11/9/2015 17:41:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.267	66610.	54.793	823.76	15.431	68998.	13.34
Stddev	.440	352.	.498	6.24	.154	495.	.03
%RSD	1.7412	.52795	.90835	.75757	.99671	.71735	.2405
#1	25.775	66292.	54.706	817.10	15.575	68500.	13.31
#2	24.996	66549.	55.328	824.72	15.269	69003.	13.38
#3	25.031	66988.	54.344	829.47	15.449	69490.	13.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	165.92	107.25	231.62	119180.	21390.	55280.	4831.9
Stddev	.56	.60	1.99	703.	282.	600.	54.8
%RSD	.33633	.55667	.86002	.58981	1.316	1.086	1.1341
#1	166.56	107.93	233.59	118490.	21090.	54690.	4893.0
#2	165.64	106.83	229.61	119150.	21440.	55270.	4787.1
#3	165.56	106.99	231.67	119900.	21650.	55890.	4815.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001A(2) Acquired: 11/9/2015 17:41:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45021	14061.	196.86	287.77	140.09	87.525	362.9
Stddev	.25133	154.	.48	2.04	1.21	1.327	3.3
%RSD	55.826	1.0986	.24494	.71012	.86297	1.5162	.9206
#1	-.71031	13905.	197.42	289.67	139.23	86.546	365.7
#2	-.20867	14066.	196.53	288.03	139.56	89.035	359.2
#3	-.43165	14213.	196.64	285.61	141.47	86.994	363.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	58.726	225.68	755.29
Stddev	.726	1.59	2.24
%RSD	1.2362	.70362	.29722
#1	58.700	227.22	757.86
#2	59.465	224.04	753.68
#3	58.014	225.79	754.35
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-001A(2) Acquired: 11/9/2015 17:41:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC765A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36823.	10406.	520390.
Stddev	99.	200.	3753.
%RSD	.26851	1.9238	.72126
#1	36743.	10631.	516270.
#2	36792.	10337.	523610.
#3	36933.	10249.	521300.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.871%	88.167%	93.335%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-002(2) Acquired: 11/9/2015 17:46:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.21863	57486.	33.741	232.36	2.5873	226990.	1.087
Stddev	.67510	42.	.807	.87	.0536	376.	.080
%RSD	308.78	.07234	2.3922	.37510	2.0714	.16568	7.324
#1	.52399	57461.	34.669	231.77	2.6166	226750.	1.109
#2	-.79522	57462.	33.353	231.96	2.6199	226780.	.9984
#3	-.38467	57534.	33.201	233.37	2.5255	227420.	1.153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.664	78.563	149.58	126040.	7751.	137300.	3937.8
Stddev	.129	1.354	3.33	424.	58.	261.	31.8
%RSD	.30301	1.7241	2.2288	.33646	.7509	.1899	.80861
#1	42.782	79.195	150.94	125670.	7685.	137000.	3974.3
#2	42.682	79.485	152.02	125950.	7795.	137500.	3922.6
#3	42.526	77.008	145.78	126500.	7772.	137400.	3916.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-002(2) Acquired: 11/9/2015 17:46:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12348	514.46	98.003	101.85	-1.8522	4.0646	156.1
Stddev	.09712	17.98	.517	1.52	3.9273	3.3956	2.3
%RSD	78.647	3.4953	.52766	1.4918	212.03	83.540	1.474
#1	-.23551	523.93	98.582	103.22	-5.7990	1.9106	157.1
#2	-.07185	525.73	97.839	102.12	-1.8130	7.9788	157.7
#3	-.06309	493.72	97.587	100.22	2.0554	2.3043	153.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.6962	82.593	384.42
Stddev	1.2261	1.113	2.48
%RSD	72.283	1.3481	.64398
#1	3.0150	82.961	387.06
#2	1.4828	83.476	384.04
#3	.59086	81.342	382.16
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-002(2) Acquired: 11/9/2015 17:46:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC766

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36040.	10311.	508500.
Stddev	162.	34.	6753.
%RSD	.45081	.33257	1.3280
#1	36172.	10344.	506440.
#2	35859.	10275.	503010.
#3	36090.	10312.	516040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	92.855%	87.361%	91.202%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-003(5) Acquired: 11/9/2015 17:51:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11028	27978.	23.338	169.26	1.3940	23557.	.6742
Stddev	.32062	244.	.604	1.99	.0273	112.	.1046
%RSD	290.74	.87308	2.5885	1.1778	1.9557	.47749	15.52
#1	.25230	27962.	24.022	168.00	1.4027	23524.	.6656
#2	-.22677	27743.	22.877	168.23	1.4159	23464.	.7829
#3	-.35637	28230.	23.116	171.56	1.3635	23682.	.5742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.211	52.269	142.53	60955.	3215.	16560.	1734.0
Stddev	.198	.464	.84	315.	42.	62.	14.3
%RSD	.89205	.88860	.59210	.51608	1.300	.3765	.82458
#1	22.196	51.754	141.80	60913.	3191.	16570.	1727.1
#2	22.416	52.656	143.45	60664.	3191.	16490.	1750.5
#3	22.021	52.398	142.34	61289.	3264.	16610.	1724.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-003(5) Acquired: 11/9/2015 17:51:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23870	161.22	53.676	355.40	-.10630	3.5211	114.2
Stddev	.13633	4.85	.384	1.44	.94188	1.2902	.7
%RSD	57.115	3.0085	.71548	.40556	886.03	36.642	.6307
#1	-.21713	155.86	53.685	356.92	.78205	3.0805	113.6
#2	-.11444	165.30	54.055	355.22	-1.0939	2.5088	115.0
#3	-.38452	162.51	53.288	354.05	-.00710	4.9738	113.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.79512	73.073	358.01
Stddev	1.8388	.282	1.44
%RSD	231.26	.38646	.40154
#1	-.75116	73.184	359.46
#2	2.8284	73.283	357.97
#3	.30813	72.752	356.59
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-003(5) Acquired: 11/9/2015 17:51:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC767

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37663.	10588.	541640.
Stddev	107.	29.	3861.
%RSD	.28280	.27740	.71275
#1	37594.	10594.	541240.
#2	37610.	10613.	538000.
#3	37786.	10556.	545690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.036%	89.709%	97.146%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-004(2) Acquired: 11/9/2015 17:56:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01718	51515.	23.121	216.33	2.2611	65980.	1.094
Stddev	.41017	738.	.234	2.98	.0261	1126.	.153
%RSD	2387.5	1.4319	1.0119	1.3783	1.1552	1.7063	13.99
#1	-.48738	50807.	23.112	213.74	2.2534	64802.	1.263
#2	.26712	51459.	22.892	215.65	2.2397	66093.	.9640
#3	.16872	52279.	23.360	219.59	2.2902	67045.	1.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.914	67.230	133.10	102310.	6292.	37520.	3047.7
Stddev	.207	1.147	1.44	1752.	50.	748.	28.3
%RSD	.53249	1.7056	1.0784	1.7125	.7989	1.993	.92980
#1	39.063	66.905	132.58	100470.	6245.	36750.	3070.3
#2	38.677	66.282	132.00	102500.	6287.	37580.	3015.9
#3	39.001	68.505	134.72	103960.	6345.	38240.	3056.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-004(2) Acquired: 11/9/2015 17:56:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.79293	274.27	89.559	158.56	-.81466	.28616	185.2
Stddev	.42580	21.58	.258	1.42	1.6742	2.0681	2.6
%RSD	53.700	7.8666	.28786	.89760	205.51	722.70	1.404
#1	-1.1366	250.26	89.267	157.40	.53043	-1.7715	183.9
#2	-.92562	292.04	89.755	160.15	-2.6897	2.3645	183.6
#3	-.31657	280.50	89.655	158.14	-.28474	.26541	188.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.98367	93.213	536.30
Stddev	.95335	1.028	1.12
%RSD	96.917	1.1029	.20830
#1	.36335	93.214	537.46
#2	.50626	92.184	535.23
#3	2.0814	94.240	536.23
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-004(2) Acquired: 11/9/2015 17:56:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC768

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37419.	10498.	525880.
Stddev	242.	146.	6946.
%RSD	.64563	1.3945	1.3207
#1	37617.	10635.	523200.
#2	37490.	10515.	533770.
#3	37150.	10344.	520690.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.407%	88.951%	94.320%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-005(2) Acquired: 11/9/2015 18:01:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02311	71151.	46.347	455.99	3.3805	17093.	2.990
Stddev	.39189	526.	1.293	2.95	.0819	124.	.041
%RSD	1696.0	.73961	2.7908	.64776	2.4213	.72826	1.368
#1	.45735	70596.	47.282	452.59	3.4418	16963.	3.014
#2	-.30426	71212.	46.888	457.56	3.4122	17106.	3.013
#3	-.08377	71644.	44.871	457.83	3.2876	17211.	2.943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.885	92.723	202.28	118380.	6313.	25460.	5182.2
Stddev	.142	1.873	5.71	721.	19.	198.	103.8
%RSD	.35601	2.0204	2.8240	.60908	.3035	.7771	2.0035
#1	40.019	94.409	206.14	117720.	6328.	25300.	5247.9
#2	39.901	93.054	204.98	118260.	6321.	25390.	5236.2
#3	39.736	90.706	195.72	119150.	6291.	25680.	5062.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-005(2) Acquired: 11/9/2015 18:01:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60489	412.18	98.190	695.48	2.0060	5.5329	299.6
Stddev	.05395	22.32	.815	4.90	1.0155	2.3647	6.5
%RSD	8.9189	5.4163	.83022	.70463	50.622	42.739	2.176
#1	.54593	426.54	99.117	699.71	.84274	6.1014	305.3
#2	.61695	386.46	97.872	696.62	2.4600	7.5617	301.1
#3	.65179	423.54	97.582	690.11	2.7153	2.9358	292.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	4.2845	105.98	594.31
Stddev	.7337	2.35	3.61
%RSD	17.123	2.2183	.60780
#1	3.9573	107.96	597.84
#2	5.1249	106.60	594.47
#3	3.7715	103.38	590.62
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-005(2) Acquired: 11/9/2015 18:01:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC769

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38408.	10595.	537340.
Stddev	98.	140.	9691.
%RSD	.25451	1.3199	1.8034
#1	38474.	10687.	527960.
#2	38296.	10434.	536760.
#3	38455.	10664.	547310.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.956%	89.774%	96.375%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-006(5) Acquired: 11/9/2015 18:06:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38311	29461.	45.239	196.93	1.5209	32388.	.9325
Stddev	.45276	293.	1.113	1.55	.0533	244.	.1908
%RSD	118.18	.99617	2.4600	.78796	3.5034	.75250	20.46
#1	-.12185	29162.	44.293	195.22	1.5820	32115.	.7741
#2	-.12157	29473.	46.465	197.33	1.4966	32463.	.8790
#3	-.90592	29748.	44.957	198.25	1.4840	32584.	1.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27.654	65.334	215.91	82186.	3095.	20770.	1788.0
Stddev	.179	1.766	6.16	514.	52.	144.	47.1
%RSD	.64719	2.7026	2.8529	.62599	1.676	.6921	2.6360
#1	27.505	67.369	222.90	81625.	3073.	20610.	1841.9
#2	27.852	64.420	213.58	82297.	3154.	20840.	1767.3
#3	27.603	64.212	211.26	82636.	3058.	20870.	1754.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-006(5) Acquired: 11/9/2015 18:06:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48949	281.55	63.742	854.76	.62912	3.3686	234.0
Stddev	.09602	23.70	.846	3.21	1.4194	.7317	5.6
%RSD	19.616	8.4168	1.3268	.37536	225.62	21.722	2.382
#1	-.59790	257.45	64.610	858.30	-.73800	2.9587	240.4
#2	-.45544	304.82	63.695	853.93	.52972	2.9337	230.9
#3	-.41514	282.39	62.920	852.05	2.0956	4.2134	230.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.91692	65.376	1173.2
Stddev	.91250	1.940	3.7
%RSD	99.519	2.9680	.31191
#1	1.7300	67.608	1177.3
#2	1.0908	64.424	1172.2
#3	-.07001	64.095	1170.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-006(5) Acquired: 11/9/2015 18:06:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC770

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37878.	10583.	532680.
Stddev	172.	86.	10400.
%RSD	.45417	.81657	1.9525
#1	37906.	10493.	520670.
#2	38034.	10665.	538890.
#3	37693.	10591.	538470.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.589%	89.668%	95.539%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-007(2) Acquired: 11/9/2015 18:11:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18770	42482.	626.42	344.55	2.7405	100950.	-2.004
Stddev	.20827	279.	1.39	3.57	.0656	973.	.096
%RSD	110.96	.65607	.22173	1.0349	2.3947	.96417	4.799
#1	.02619	42167.	626.02	340.49	2.8049	99884.	-1.898
#2	.11414	42583.	625.28	346.01	2.6737	101190.	-2.029
#3	.42276	42696.	627.97	347.17	2.7429	101790.	-2.085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.419	217.06	381.60	114400.	4507.	18430.	1480.9
Stddev	.231	4.80	9.17	980.	98.	99.	32.3
%RSD	.65142	2.2132	2.4041	.85629	2.177	.5356	2.1797
#1	35.503	222.23	391.68	113310.	4394.	18340.	1516.5
#2	35.596	212.73	373.74	114710.	4565.	18410.	1453.5
#3	35.158	216.22	379.38	115190.	4563.	18530.	1472.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-007(2) Acquired: 11/9/2015 18:11:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.7941	1656.4	80.540	986.51	.56421	3.1485	481.9
Stddev	.2433	35.2	.265	2.42	1.0723	.3041	10.6
%RSD	13.563	2.1259	.32901	.24561	190.06	9.6587	2.206
#1	1.6709	1625.2	80.490	989.21	1.7996	3.4220	493.6
#2	2.0744	1649.3	80.303	985.79	.01928	3.2026	472.8
#3	1.6370	1694.6	80.826	984.53	-.12625	2.8210	479.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.81572	74.909	373.13
Stddev	.82086	1.469	.14
%RSD	100.63	1.9606	.03822
#1	.17733	76.477	373.17
#2	.52817	73.565	373.24
#3	1.7417	74.685	372.97
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-007(2) Acquired: 11/9/2015 18:11:02 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC771

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36869.	10359.	519800.
Stddev	79.	41.	8701.
%RSD	.21510	.39455	1.6739
#1	36960.	10391.	510290.
#2	36814.	10373.	527360.
#3	36832.	10313.	521760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.989%	87.771%	93.230%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-008(2) Acquired: 11/9/2015 18:15:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44187	53653.	125.43	476.97	2.7062	53344.	2.826
Stddev	.13431	594.	.61	5.00	.0134	641.	.054
%RSD	30.397	1.1069	.48578	1.0477	.49547	1.2007	1.912
#1	.55313	53145.	125.58	472.14	2.7147	52662.	2.888
#2	.47980	53509.	124.77	476.66	2.6907	53435.	2.786
#3	.29267	54306.	125.96	482.12	2.7131	53934.	2.806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.465	85.572	284.88	121690.	5642.	39710.	4092.7
Stddev	.096	.286	1.50	1310.	41.	377.	39.5
%RSD	.19111	.33380	.52811	1.0763	.7308	.9498	.96523
#1	50.479	85.667	285.25	120370.	5642.	39330.	4062.3
#2	50.553	85.798	286.17	121710.	5683.	39700.	4137.4
#3	50.362	85.251	283.23	122990.	5601.	40080.	4078.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-008(2) Acquired: 11/9/2015 18:15:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0400	285.56	116.73	338.72	2.6480	10.030	670.2
Stddev	.1004	32.50	.25	.77	1.3643	1.816	2.9
%RSD	1.4264	11.381	.21665	.22837	51.523	18.106	.4271
#1	7.0965	319.04	116.71	339.53	1.6643	11.896	670.6
#2	6.9241	283.49	117.00	337.99	4.2055	9.9263	672.9
#3	7.0995	254.15	116.50	338.62	2.0742	8.2683	667.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	8.6948	105.16	559.89
Stddev	1.4882	.05	.57
%RSD	17.115	.04344	.10268
#1	7.3010	105.19	560.28
#2	10.262	105.19	560.16
#3	8.5214	105.11	559.23
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-008(2) Acquired: 11/9/2015 18:15:46 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC774

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37266.	10486.	529430.
Stddev	97.	94.	1378.
%RSD	.26107	.89681	.26020
#1	37343.	10462.	528010.
#2	37299.	10590.	530760.
#3	37157.	10407.	529530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.014%	88.852%	94.957%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-009(2) Acquired: 11/9/2015 18:20:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1618	74959.	23.199	325.21	2.7890	12960.	.1913
Stddev	.7242	2012.	.870	9.09	.0589	403.	.1390
%RSD	62.338	2.6839	3.7483	2.7939	2.1134	3.1104	72.64
#1	-.79630	74889.	24.081	325.72	2.7243	12979.	.3398
#2	-1.9959	72983.	22.342	315.87	2.8397	12548.	.1699
#3	-.69312	77005.	23.174	334.02	2.8029	13353.	.0643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.283	78.217	118.99	108550.	7026.	27190.	1296.6
Stddev	.033	1.093	1.82	2948.	237.	920.	16.9
%RSD	.07551	1.3977	1.5286	2.7160	3.374	3.384	1.3046
#1	44.315	77.393	116.96	108620.	6984.	27190.	1280.0
#2	44.287	79.457	120.46	105560.	6814.	26280.	1313.8
#3	44.248	77.801	119.56	111460.	7282.	28120.	1296.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-009(2) Acquired: 11/9/2015 18:20:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.76746	252.12	93.349	90.534	1.3021	2.9495	277.5
Stddev	.36682	30.73	.378	.882	1.6225	.8410	3.8
%RSD	47.797	12.187	.40448	.97477	124.61	28.513	1.380
#1	-1.1470	222.72	93.784	90.145	1.9814	2.1504	273.8
#2	-.74054	249.62	93.147	89.913	2.4745	3.8269	281.5
#3	-.41485	284.02	93.115	91.544	-.54967	2.8711	277.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.77565	95.890	339.08
Stddev	1.0208	1.330	.56
%RSD	131.60	1.3869	.16425
#1	.25252	94.599	339.70
#2	-1.7889	97.255	338.91
#3	-.79059	95.817	338.63
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-009(2) Acquired: 11/9/2015 18:20:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38245.	10781.	535900.
Stddev	173.	281.	9397.
%RSD	.45124	2.6107	1.7535
#1	38334.	10796.	545360.
#2	38354.	11055.	526570.
#3	38046.	10492.	535760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.535%	91.348%	96.116%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV004 Acquired: 11/9/2015 18:25:23 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	753.13	48192.	2492.1	10089.	1010.1	50026.	990.6
Stddev	12.28	343.	3.2	61.	27.7	272.	3.0
%RSD	1.6298	.71272	.12897	.60925	2.7394	.54391	.3066
#1	757.28	48243.	2488.8	10105.	1008.5	50015.	989.6
#2	739.32	47826.	2492.3	10022.	983.34	49760.	988.1
#3	762.79	48507.	2495.3	10142.	1038.6	50304.	994.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4836.5	10127.	12038.	24763.	38990.	50660.	4916.3
Stddev	12.6	166.	191.	125.	202.	129.	96.6
%RSD	.26011	1.6402	1.5863	.50676	.5186	.2543	1.9644
#1	4829.7	10184.	12117.	24788.	38970.	50530.	4954.6
#2	4828.8	9939.5	11821.	24626.	38800.	50650.	4806.4
#3	4851.0	10256.	12177.	24874.	39200.	50790.	4987.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV004 Acquired: 11/9/2015 18:25:23 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	976.62	27011.	4787.6	9478.4	2440.4	1237.9	989.6
Stddev	2.73	113.	11.6	20.1	6.8	2.3	16.4
%RSD	.27936	.41848	.24165	.21201	.28042	.18426	1.657
#1	974.71	27009.	4782.9	9471.0	2434.0	1235.7	995.1
#2	975.41	26898.	4779.1	9463.1	2439.6	1237.6	971.1
#3	979.75	27125.	4800.8	9501.2	2447.7	1240.2	1003.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	941.90	2487.0	4945.9
Stddev	3.44	42.0	9.0
%RSD	.36484	1.6872	.18109
#1	940.39	2500.6	4943.3
#2	939.47	2439.9	4938.6
#3	945.83	2520.5	4955.9
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV004 Acquired: 11/9/2015 18:25:23 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35575.	10195.	517360.
Stddev	62.	124.	9396.
%RSD	.17308	1.2208	1.8161
#1	35513.	10064.	511460.
#2	35575.	10311.	528190.
#3	35636.	10209.	512420.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB004 Acquired: 11/9/2015 18:30:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19473	75.729	-1.3247	.95518	.03663	7.4603	-.1980
Stddev	.48493	78.830	.4253	.32470	.01475	5.2397	.0527
%RSD	249.03	104.10	32.106	33.994	40.270	70.235	26.62
#1	.30224	23.301	-1.7943	1.2953	.02713	11.468	-.1433
#2	-.66665	37.502	-.96533	.92179	.05362	1.5310	-.2024
#3	-.21978	166.38	-1.2145	.64847	.02913	9.3824	-.2484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04782	.00595	1.0100	20.623	63.71	11.84	-.01018
Stddev	.15464	.12674	1.1090	13.917	55.23	22.42	.03809
%RSD	323.39	2129.2	109.80	67.481	86.69	189.4	374.16
#1	-.06008	.06554	.14256	34.815	16.10	-12.91	-.02609
#2	-.02145	.09192	2.2596	6.9982	124.3	30.80	-.03773
#3	.22498	-.13960	.62792	20.057	50.76	17.62	.03328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB004 Acquired: 11/9/2015 18:30:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5539	-58.220	-.19780	.86375	-.32887	.89508	.0690
Stddev	.2962	15.527	.26284	.75392	1.7302	1.4852	.0676
%RSD	19.061	26.669	132.88	87.284	526.10	165.93	97.98
#1	-1.2750	-40.402	-.49721	1.5129	-.80490	-.79456	.0183
#2	-1.8647	-65.404	-.00503	1.0416	1.5895	1.9941	.1458
#3	-1.5219	-68.853	-.09117	.03682	-1.7712	1.4857	.0430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.55826	.09093	-.17063
Stddev	.82832	.12614	.03686
%RSD	148.37	138.72	21.603
#1	-.18263	.22214	-.20237
#2	.01570	.08009	-.17930
#3	-1.5078	-.02944	-.13020
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB004 Acquired: 11/9/2015 18:30:29 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37523.	10072.	533370.
Stddev	198.	178.	10987.
%RSD	.52779	1.7721	2.0598
#1	37408.	9884.8	540590.
#2	37752.	10090.	520730.
#3	37410.	10240.	538790.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-010(2) Acquired: 11/9/2015 18:35:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65437	56755.	22.151	236.85	2.4713	8092.2	.1706
Stddev	.55885	653.	1.356	2.76	.0418	75.5	.2202
%RSD	85.403	1.1507	6.1224	1.1654	1.6894	.93239	129.1
#1	-.01654	56119.	22.875	233.66	2.5066	8015.5	-.0010
#2	-.88847	56723.	22.992	238.50	2.4252	8094.8	.0939
#3	-1.0581	57424.	20.587	238.38	2.4819	8166.4	.4190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.653	65.052	144.63	102100.	5976.	20400.	1166.0
Stddev	.278	.540	2.20	955.	96.	221.	13.3
%RSD	.73749	.82939	1.5201	.93532	1.601	1.082	1.1437
#1	37.716	65.505	147.11	101100.	5940.	20180.	1179.3
#2	37.894	64.455	142.92	102190.	5904.	20410.	1152.6
#3	37.350	65.197	143.86	103010.	6085.	20620.	1165.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-010(2) Acquired: 11/9/2015 18:35:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.71416	295.69	85.059	54.812	-2.0492	1.9252	172.4
Stddev	.18495	7.39	.218	.536	1.4689	2.2029	1.9
%RSD	25.898	2.4978	.25643	.97784	71.682	114.42	1.116
#1	-.85224	287.69	85.244	55.232	-.41997	-.16160	174.2
#2	-.50403	297.12	85.115	54.209	-2.4552	1.7091	170.4
#3	-.78620	302.25	84.819	54.996	-3.2723	4.2282	172.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.00456	76.205	312.39
Stddev	1.4557	.925	1.03
%RSD	31938.	1.2134	.33041
#1	1.3405	77.172	313.50
#2	.19586	75.329	312.23
#3	-1.5500	76.114	311.45
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-010(2) Acquired: 11/9/2015 18:35:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37674.	10468.	528130.
Stddev	178.	111.	7890.
%RSD	.47366	1.0593	1.4940
#1	37636.	10458.	519020.
#2	37868.	10583.	532610.
#3	37518.	10362.	532760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.064%	88.692%	94.723%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-011(5) Acquired: 11/9/2015 18:40:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33307	22989.	9.8306	85.742	1.0010	11031.	-.0357
Stddev	.52270	43.	.2829	.954	.0246	68.	.0590
%RSD	156.93	.18809	2.8783	1.1131	2.4531	.61533	165.0
#1	-.20300	22946.	9.8952	85.623	1.0289	10954.	.0230
#2	-.90853	23032.	10.076	84.853	.99149	11057.	-.0950
#3	.11230	22990.	9.5209	86.751	.98264	11081.	-.0352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.232	30.747	51.958	49689.	2528.	14300.	1677.7
Stddev	.076	.119	.437	282.	64.	178.	16.8
%RSD	.50083	.38629	.84080	.56793	2.549	1.244	1.0024
#1	15.255	30.882	52.152	49366.	2455.	14090.	1697.0
#2	15.294	30.659	51.458	49817.	2578.	14410.	1665.8
#3	15.147	30.699	52.264	49885.	2550.	14400.	1670.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-011(5) Acquired: 11/9/2015 18:40:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5434	101.45	39.284	28.707	.30382	.89536	56.25
Stddev	.1019	15.66	.345	.383	1.9485	.81690	.61
%RSD	6.6028	15.433	.87905	1.3348	641.35	91.237	1.093
#1	-1.6578	117.85	39.173	28.548	-1.4686	1.8386	56.96
#2	-1.4622	99.826	39.007	28.428	-.01025	.42458	55.94
#3	-1.5102	86.668	39.671	29.144	2.3903	.42286	55.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.33854	30.771	129.83
Stddev	1.1249	.239	.14
%RSD	332.28	.77636	.10618
#1	.47977	31.037	129.89
#2	1.3862	30.575	129.67
#3	-.85033	30.701	129.92
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-011(5) Acquired: 11/9/2015 18:40:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37693.	10352.	536800.
Stddev	73.	92.	7735.
%RSD	.19487	.89344	1.4410
#1	37629.	10269.	527870.
#2	37678.	10336.	541290.
#3	37773.	10452.	541240.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.114%	87.716%	96.278%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-012(2) Acquired: 11/9/2015 18:44:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53228	62533.	28.542	187.59	2.6780	33911.	.1457
Stddev	.36327	694.	1.456	2.01	.0193	363.	.1744
%RSD	68.248	1.1104	5.1023	1.0731	.72180	1.0716	119.7
#1	-.67517	61828.	29.864	187.71	2.6789	33514.	.3361
#2	-.80239	62553.	26.981	185.52	2.6582	33990.	-.0062
#3	-.11929	63216.	28.780	189.54	2.6968	34228.	.1071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.666	76.172	121.85	138080.	7137.	45380.	3723.0
Stddev	.101	.690	.38	1329.	79.	454.	54.6
%RSD	.23733	.90637	.31392	.96231	1.105	1.000	1.4661
#1	42.720	76.193	122.21	136660.	7113.	44880.	3743.6
#2	42.550	75.471	121.45	138310.	7224.	45510.	3661.1
#3	42.730	76.852	121.88	139280.	7072.	45760.	3764.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-012(2) Acquired: 11/9/2015 18:44:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.81384	340.68	109.92	58.796	-.55537	2.4497	132.0
Stddev	.02898	2.95	.23	.899	1.3408	1.3481	.9
%RSD	3.5612	.86466	.20992	1.5286	241.42	55.032	.7195
#1	-.83855	339.91	109.70	59.831	.96567	1.7769	131.5
#2	-.78194	343.93	109.90	58.340	-1.5660	4.0017	131.4
#3	-.82103	338.19	110.16	58.216	-1.0657	1.5704	133.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9437	79.764	336.68
Stddev	.5715	.127	.37
%RSD	29.402	.15922	.11098
#1	1.2880	79.667	336.98
#2	2.3360	79.717	336.26
#3	2.2070	79.908	336.79
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-012(2) Acquired: 11/9/2015 18:44:50 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37009.	10384.	530650.
Stddev	123.	84.	3811.
%RSD	.33142	.80440	.71809
#1	37118.	10379.	526480.
#2	37033.	10303.	533950.
#3	36876.	10469.	531520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.350%	87.980%	95.175%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-013(2) Acquired: 11/9/2015 18:49:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09556	45095.	49.097	199.31	1.4784	17241.	.3570
Stddev	.44776	317.	1.274	2.07	.0092	88.	.0711
%RSD	468.57	.70311	2.5955	1.0400	.61876	.51144	19.91
#1	.40355	44756.	50.039	196.94	1.4716	17140.	.2839
#2	-.46196	45142.	47.647	200.19	1.4888	17286.	.3614
#3	-.22826	45385.	49.606	200.80	1.4749	17298.	.4259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.956	125.22	164.90	107050.	5356.	24000.	1413.8
Stddev	.250	1.70	1.34	638.	74.	190.	17.7
%RSD	.86213	1.3559	.81129	.59610	1.378	.7899	1.2553
#1	29.182	123.62	163.51	106320.	5416.	23780.	1399.5
#2	28.999	127.01	166.18	107320.	5273.	24090.	1433.7
#3	28.688	125.04	165.02	107500.	5378.	24130.	1408.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-013(2) Acquired: 11/9/2015 18:49:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6969	284.74	82.314	212.36	-1.5652	4.7687	172.6
Stddev	.0705	24.30	.801	1.65	1.8072	.8170	2.3
%RSD	4.1523	8.5320	.97312	.77626	115.46	17.133	1.332
#1	1.7776	310.31	83.225	212.67	-3.5808	5.7083	170.6
#2	1.6473	261.96	81.995	213.83	-.08940	4.3719	175.1
#3	1.6659	281.96	81.721	210.57	-1.0254	4.2258	172.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.32692	76.438	313.10
Stddev	.09101	1.004	1.72
%RSD	27.840	1.3136	.54837
#1	-.22395	76.183	315.01
#2	-.36023	77.545	312.61
#3	-.39660	75.586	311.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-013(2) Acquired: 11/9/2015 18:49:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7D9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37352.	10452.	533180.
Stddev	94.	25.	5833.
%RSD	.25069	.24051	1.0941
#1	37276.	10442.	536600.
#2	37323.	10481.	526450.
#3	37456.	10434.	536510.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.234%	88.563%	95.629%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-014(2) Acquired: 11/9/2015 18:54:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0263	63141.	24.163	189.56	3.3512	8010.4	-.0278
Stddev	.4278	423.	.284	.29	.0389	63.8	.0452
%RSD	41.677	.66981	1.1765	.15486	1.1614	.79597	162.5
#1	-.74080	62684.	23.835	189.36	3.3950	7944.9	-.0774
#2	-1.5181	63218.	24.342	189.90	3.3379	8014.1	-.0171
#3	-.82009	63519.	24.311	189.43	3.3207	8072.2	.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.152	72.668	257.08	132720.	5338.	26250.	973.61
Stddev	.257	.654	3.34	860.	50.	210.	9.54
%RSD	.65727	.89994	1.2981	.64762	.9333	.7989	.97981
#1	39.427	73.388	260.73	132000.	5283.	26060.	984.07
#2	39.112	72.507	256.33	132490.	5351.	26210.	971.35
#3	38.917	72.110	254.18	133670.	5381.	26480.	965.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-014(2) Acquired: 11/9/2015 18:54:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7823	295.46	122.23	41.170	-1.0648	1.6249	116.5
Stddev	.0501	26.76	.28	.464	1.7304	1.6331	1.1
%RSD	2.8123	9.0572	.23225	1.1262	162.52	100.51	.9151
#1	-1.8102	265.08	122.56	41.456	-1.8541	2.8457	117.6
#2	-1.8123	315.53	122.06	41.419	-2.2598	-.23020	116.4
#3	-1.7244	305.77	122.08	40.635	.91959	2.2592	115.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.4648	63.329	363.98
Stddev	.2308	.809	1.87
%RSD	15.756	1.2776	.51445
#1	-1.5661	64.195	366.11
#2	-1.2007	63.200	363.19
#3	-1.6277	62.593	362.63
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-014(2) Acquired: 11/9/2015 18:54:29 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37701.	10467.	531710.
Stddev	187.	68.	7330.
%RSD	.49709	.64880	1.3787
#1	37621.	10458.	523260.
#2	37567.	10539.	536410.
#3	37915.	10404.	535450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.133%	88.684%	95.365%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-015(2) Acquired: 11/9/2015 18:59:14 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12057	41216.	38.560	390.26	1.9830	59110.	9.714
Stddev	.24817	814.	.536	7.89	.0389	1172.	.207
%RSD	205.84	1.9742	1.3904	2.0227	1.9638	1.9829	2.126
#1	.08181	40519.	39.176	383.12	1.9579	58017.	9.797
#2	-.10595	42110.	38.303	398.74	2.0279	60348.	9.479
#3	.38584	41019.	38.201	388.93	1.9632	58965.	9.866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.800	193.96	836.27	75549.	5460.	25070.	2154.1
Stddev	.250	3.82	18.11	1327.	93.	471.	58.9
%RSD	.76279	1.9684	2.1649	1.7565	1.705	1.878	2.7362
#1	32.962	192.27	828.04	74415.	5401.	24700.	2121.6
#2	32.926	198.33	857.03	77008.	5567.	25600.	2222.1
#3	32.512	191.27	823.74	75222.	5411.	24910.	2118.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-015(2) Acquired: 11/9/2015 18:59:14 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.73410	752.64	79.862	657.07	3.5765	3.5057	241.4
Stddev	.29326	28.19	.172	1.25	1.3125	2.5551	4.9
%RSD	39.949	3.7454	.21549	.19027	36.698	72.884	2.038
#1	-1.0719	725.40	79.768	657.96	2.0633	1.1917	239.0
#2	-.58529	781.69	80.060	655.64	4.2594	3.0776	247.1
#3	-.54507	750.81	79.757	657.61	4.4067	6.2478	238.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3136	183.74	985.47
Stddev	1.0927	4.37	1.96
%RSD	83.186	2.3769	.19851
#1	.10387	181.95	987.66
#2	2.2291	188.72	984.81
#3	1.6079	180.55	983.92
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-015(2) Acquired: 11/9/2015 18:59:14 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38314.	10610.	537410.
Stddev	33.	64.	10049.
%RSD	.08729	.60627	1.8699
#1	38283.	10651.	541570.
#2	38310.	10536.	525950.
#3	38349.	10644.	544710.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.713%	89.901%	96.388%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-016(5) Acquired: 11/9/2015 19:04:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.15766	31184.	11.784	93.429	1.4315	48316.	.0926
Stddev	.27476	180.	1.478	.347	.0362	278.	.1635
%RSD	174.27	.57580	12.545	.37191	2.5325	.57516	176.6
#1	-.05570	30984.	10.845	93.513	1.4050	48002.	.1211
#2	.05154	31330.	13.488	93.048	1.4167	48531.	.2400
#3	-.46882	31239.	11.018	93.728	1.4728	48414.	-.0833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.160	54.471	65.089	70441.	3520.	24450.	1701.6
Stddev	.143	1.579	1.835	327.	51.	200.	38.5
%RSD	.64441	2.8986	2.8198	.46372	1.461	.8171	2.2615
#1	22.286	53.011	63.664	70064.	3470.	24220.	1670.6
#2	22.191	54.256	64.443	70629.	3573.	24540.	1689.4
#3	22.005	56.147	67.160	70630.	3519.	24580.	1744.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-016(5) Acquired: 11/9/2015 19:04:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.0969	128.14	55.784	47.179	-1.2818	1.8800	56.05
Stddev	.1630	22.42	.509	1.678	.9315	2.3257	1.20
%RSD	7.7723	17.495	.91179	3.5558	72.673	123.71	2.148
#1	-2.1867	114.02	56.271	49.059	-2.3182	-.60529	55.19
#2	-2.1952	153.99	55.825	45.833	-1.0133	4.0037	55.52
#3	-1.9088	116.41	55.257	46.647	-.51405	2.2415	57.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4727	46.506	177.23
Stddev	.7116	.904	1.23
%RSD	48.316	1.9442	.69390
#1	.78317	45.613	178.48
#2	2.2044	46.483	177.19
#3	1.4306	47.421	176.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-016(5) Acquired: 11/9/2015 19:04:07 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36855.	10209.	528180.
Stddev	69.	47.	12049.
%RSD	.18693	.46418	2.2812
#1	36793.	10197.	538310.
#2	36929.	10168.	531360.
#3	36844.	10261.	514850.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.955%	86.497%	94.731%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-017(5) Acquired: 11/9/2015 19:08:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38109	45326.	132.55	212.13	2.3262	23896.	-.4021
Stddev	.40898	178.	.34	.36	.0258	136.	.0798
%RSD	107.32	.39311	.25504	.16942	1.1088	.57056	19.84
#1	-.41754	45186.	132.39	212.20	2.3116	23794.	-.3108
#2	-.77063	45527.	132.32	212.45	2.3111	24051.	-.4375
#3	.04489	45266.	132.94	211.74	2.3560	23845.	-.4582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32.324	70.279	189.95	93010.	4478.	19750.	1654.1
Stddev	.269	.251	.42	533.	25.	146.	2.0
%RSD	.83361	.35753	.22035	.57299	.5626	.7376	.12323
#1	32.323	70.069	189.48	92579.	4495.	19700.	1652.5
#2	32.055	70.209	190.26	93606.	4490.	19910.	1653.4
#3	32.594	70.557	190.12	92846.	4449.	19630.	1656.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-017(5) Acquired: 11/9/2015 19:08:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27950	363.76	74.079	687.59	2.1722	2.2929	278.6
Stddev	.27926	8.11	.143	3.19	1.2502	1.9475	.2
%RSD	99.913	2.2299	.19361	.46368	57.555	84.939	.0657
#1	.58021	359.04	73.920	685.17	3.4908	1.6033	278.8
#2	.22998	359.11	74.198	686.41	1.0039	4.4913	278.4
#3	.02832	373.13	74.119	691.20	2.0220	.78393	278.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.25564	68.599	248.47
Stddev	.83079	.053	.56
%RSD	324.99	.07774	.22344
#1	.42351	68.659	247.85
#2	.98967	68.579	248.67
#3	-.64627	68.558	248.91
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-017(5) Acquired: 11/9/2015 19:08:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36969.	10171.	525150.
Stddev	112.	188.	2454.
%RSD	.30284	1.8518	.46735
#1	36874.	9963.9	527150.
#2	36941.	10215.	525890.
#3	37093.	10332.	522410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.249%	86.175%	94.188%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-018(5) Acquired: 11/9/2015 19:13:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36102	54830.	17.116	125.15	1.6222	8058.1	-.0591
Stddev	.24121	231.	1.209	.46	.0327	45.3	.1330
%RSD	66.815	.42133	7.0615	.36700	2.0139	.56199	224.9
#1	-.30262	55091.	18.308	125.68	1.5855	8033.9	-.1789
#2	-.15437	54651.	17.149	124.84	1.6330	8110.4	-.0823
#3	-.62607	54748.	15.892	124.93	1.6481	8030.1	.0839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.760	58.321	79.458	100230.	4008.	25930.	2144.4
Stddev	.032	.808	1.945	217.	41.	117.	52.3
%RSD	.10134	1.3860	2.4476	.21619	1.016	.4492	2.4406
#1	31.788	57.569	77.242	100280.	4047.	25960.	2107.4
#2	31.725	58.219	80.248	100410.	4012.	26030.	2121.5
#3	31.766	59.176	80.883	99986.	3966.	25800.	2204.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-018(5) Acquired: 11/9/2015 19:13:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58527	268.49	76.747	42.809	-.37207	1.4162	136.5
Stddev	.34468	20.15	.096	1.866	1.1011	.8384	2.2
%RSD	58.892	7.5033	.12502	4.3599	295.93	59.202	1.648
#1	-.75078	245.23	76.678	44.610	.65013	1.8397	134.1
#2	-.81598	280.46	76.857	42.932	-1.5379	.45049	136.7
#3	-.18906	279.79	76.707	40.884	-.22843	1.9583	138.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.38265	64.683	227.35
Stddev	1.6012	.736	.28
%RSD	418.44	1.1376	.12370
#1	.15938	63.849	227.44
#2	2.0837	64.961	227.57
#3	-1.0951	65.240	227.03
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-018(5) Acquired: 11/9/2015 19:13:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36977.	10231.	524730.
Stddev	70.	293.	8024.
%RSD	.18903	2.8614	1.5292
#1	36905.	9943.1	533620.
#2	36984.	10222.	522560.
#3	37044.	10528.	518020.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.270%	86.688%	94.114%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-019(2) Acquired: 11/9/2015 19:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20059	93707.	377.70	296.18	10.531	19485.	2.066
Stddev	.10679	744.	2.13	2.56	.256	225.	.146
%RSD	53.238	.79395	.56458	.86357	2.4283	1.1570	7.079
#1	.23129	92910.	376.07	293.59	10.639	19246.	1.917
#2	.08181	93829.	376.92	296.24	10.239	19514.	2.209
#3	.28867	94383.	380.12	298.71	10.714	19694.	2.071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	217.24	250.73	1190.8	84163.	2994.	7648.	1966.8
Stddev	.44	5.17	24.9	802.	55.	102.	11.1
%RSD	.20028	2.0621	2.0928	.95337	1.842	1.338	.56676
#1	217.05	253.28	1202.1	83354.	3052.	7536.	1969.9
#2	216.94	244.79	1162.3	84178.	2943.	7670.	1976.1
#3	217.74	254.14	1208.1	84959.	2987.	7737.	1954.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-019(2) Acquired: 11/9/2015 19:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.4622	1306.7	160.13	451.65	3.1889	9.4887	474.9
Stddev	.2170	17.7	.42	1.10	.7187	2.4073	10.5
%RSD	4.8632	1.3552	.25993	.24396	22.537	25.371	2.204
#1	4.4509	1290.6	159.65	452.86	3.3598	12.261	479.4
#2	4.6846	1304.0	160.37	450.69	2.4002	8.2747	462.9
#3	4.2511	1325.7	160.37	451.41	3.8068	7.9301	482.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.6949	129.92	861.15
Stddev	.6214	2.92	.33
%RSD	36.664	2.2464	.03855
#1	-1.6541	131.03	861.04
#2	-1.0949	126.61	860.89
#3	-2.3358	132.12	861.52
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-019(2) Acquired: 11/9/2015 19:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38703.	10479.	540130.
Stddev	107.	199.	7037.
%RSD	.27743	1.8957	1.3028
#1	38682.	10252.	534650.
#2	38607.	10618.	548070.
#3	38819.	10568.	537670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.715%	88.791%	96.876%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-020(5) Acquired: 11/9/2015 19:23:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10215	51204.	63.630	144.01	3.0450	64189.	.4128
Stddev	.18805	342.	1.219	.31	.0156	508.	.0328
%RSD	184.09	.66742	1.9156	.21416	.51082	.79127	7.953
#1	-.17035	50818.	65.007	144.08	3.0310	63681.	.4293
#2	.11048	51323.	62.690	143.67	3.0422	64188.	.3750
#3	-.24658	51470.	63.193	144.27	3.0617	64697.	.4342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68.285	112.26	234.36	96271.	4097.	23810.	2156.3
Stddev	.041	.93	2.35	681.	45.	289.	28.1
%RSD	.06031	.82678	1.0021	.70733	1.101	1.212	1.3050
#1	68.277	112.60	234.15	95594.	4074.	23530.	2132.4
#2	68.248	111.21	232.13	96263.	4068.	23800.	2149.2
#3	68.330	112.97	236.81	96956.	4149.	24110.	2187.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-020(5) Acquired: 11/9/2015 19:23:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23274	755.95	96.984	140.12	-1.5478	2.6763	210.9
Stddev	.17528	25.41	.198	.83	1.5365	.8856	2.1
%RSD	75.311	3.3616	.20445	.59069	99.270	33.089	.9860
#1	-.06101	767.66	97.209	140.23	-2.8588	1.6933	210.5
#2	-.22584	773.39	96.909	140.89	-1.9278	3.4117	209.1
#3	-.41136	726.79	96.834	139.24	.14302	2.9240	213.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.42542	74.824	357.34
Stddev	.59184	.876	.12
%RSD	139.12	1.1701	.03462
#1	.31933	74.483	357.46
#2	1.0631	74.170	357.35
#3	-.10620	75.818	357.22
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31005-020(5) Acquired: 11/9/2015 19:23:26 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37123.	10357.	528440.
Stddev	158.	41.	1589.
%RSD	.42608	.39637	.30071
#1	37067.	10357.	529170.
#2	37001.	10398.	529520.
#3	37302.	10316.	526610.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.645%	87.755%	94.778%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-002(2) Acquired: 11/9/2015 19:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34009	37227.	63.205	147.94	1.9058	6487.3	.4967
Stddev	.31506	1657.	1.492	6.22	.0231	276.2	.2285
%RSD	92.640	4.4496	2.3604	4.2060	1.2121	4.2581	46.00
#1	.58586	38603.	62.714	152.40	1.8808	6719.6	.2573
#2	-.01508	35388.	64.880	140.83	1.9103	6181.8	.5201
#3	.44949	37691.	62.020	150.59	1.9263	6560.4	.7125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.993	123.09	219.32	80541.	4015.	17520.	1318.7
Stddev	.149	1.59	2.95	3707.	100.	839.	15.9
%RSD	.51346	1.2922	1.3450	4.6029	2.479	4.790	1.2040
#1	28.846	121.28	215.93	83761.	4094.	18170.	1300.9
#2	28.989	123.71	220.72	76488.	3903.	16570.	1323.9
#3	29.144	124.27	221.31	81373.	4047.	17820.	1331.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-002(2) Acquired: 11/9/2015 19:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02269	309.35	84.168	183.17	1.6499	1.1659	558.2
Stddev	.21791	13.19	.329	2.15	1.5248	1.0677	6.9
%RSD	960.49	4.2644	.39103	1.1755	92.422	91.575	1.243
#1	.27109	324.56	84.037	180.72	2.6162	.04244	550.4
#2	-.13625	301.03	83.924	184.74	2.4413	1.2880	560.4
#3	-.06678	302.46	84.543	184.05	-.10796	2.1673	563.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.27459	79.186	382.54
Stddev	1.3651	1.045	1.22
%RSD	497.16	1.3190	.32004
#1	-1.8364	77.988	381.55
#2	.69098	79.662	382.15
#3	.32170	79.907	383.90
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-002(2) Acquired: 11/9/2015 19:28:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7E8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37534.	10518.	542770.
Stddev	77.	507.	4556.
%RSD	.20391	4.8227	.83934
#1	37614.	10042.	548000.
#2	37526.	11051.	540620.
#3	37462.	10462.	539680.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.703%	89.123%	97.348%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-003(2) Acquired: 11/9/2015 19:33:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04247	44289.	133.29	224.57	2.0032	117090.	3.944
Stddev	.43105	503.	.66	2.90	.0267	1124.	.131
%RSD	1015.0	1.1359	.49716	1.2893	1.3332	.95988	3.312
#1	-.37436	43767.	133.65	221.25	2.0330	115810.	3.966
#2	.44471	44329.	132.53	225.94	1.9952	117530.	4.062
#3	-.19776	44771.	133.71	226.53	1.9815	117930.	3.804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.509	1071.7	352.46	90334.	4976.	34930.	1832.0
Stddev	.115	21.6	6.33	795.	74.	435.	38.4
%RSD	.37702	2.0138	1.7967	.87968	1.481	1.244	2.0939
#1	30.450	1091.3	358.32	89427.	4926.	34450.	1865.9
#2	30.436	1075.4	353.32	90666.	4941.	35020.	1839.7
#3	30.642	1048.6	345.74	90909.	5060.	35310.	1790.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-003(2) Acquired: 11/9/2015 19:33:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.3599	1706.9	68.890	1101.1	14.153	5.8285	764.9
Stddev	.1521	23.6	.357	4.4	1.396	1.7601	16.3
%RSD	6.4436	1.3837	.51842	.40162	9.8641	30.199	2.129
#1	2.1922	1701.9	69.294	1104.8	12.548	7.2223	778.7
#2	2.3986	1732.5	68.762	1102.4	15.089	3.8506	769.1
#3	2.4888	1686.1	68.615	1096.2	14.821	6.4125	746.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.69149	103.67	619.21
Stddev	1.5749	2.03	2.05
%RSD	227.75	1.9584	.33064
#1	-1.1264	105.36	620.91
#2	1.6401	104.22	619.79
#3	1.5608	101.42	616.94
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-003(2) Acquired: 11/9/2015 19:33:06 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36552.	10373.	522880.
Stddev	59.	56.	8193.
%RSD	.16060	.54067	1.5668
#1	36603.	10406.	514710.
#2	36488.	10308.	522850.
#3	36564.	10405.	531090.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.172%	87.890%	93.782%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-004(2) Acquired: 11/9/2015 19:37:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.59224	55194.	11.783	254.80	2.3226	5291.3	.0083
Stddev	.09909	495.	1.153	1.81	.0347	32.4	.1459
%RSD	16.732	.89742	9.7816	.70960	1.4924	.61220	1749.
#1	-.60351	54622.	10.483	252.78	2.3526	5254.8	.0984
#2	-.68521	55476.	12.183	256.26	2.2847	5302.6	.0866
#3	-.48799	55484.	12.682	255.35	2.3304	5316.6	-.1600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.257	192.70	71.990	106010.	4849.	23950.	1165.6
Stddev	.162	1.26	1.148	782.	49.	251.	8.9
%RSD	.45824	.65571	1.5949	.73750	1.020	1.046	.76052
#1	35.353	192.12	72.218	105120.	4837.	23700.	1164.8
#2	35.071	191.84	70.744	106350.	4807.	23940.	1157.2
#3	35.348	194.15	73.006	106570.	4904.	24200.	1174.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-004(2) Acquired: 11/9/2015 19:37:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.0110	252.83	95.021	54.167	4.7991	2.3285	141.3
Stddev	.1758	13.58	.078	1.631	1.1659	1.0149	2.0
%RSD	8.7424	5.3705	.08175	3.0113	24.294	43.583	1.402
#1	-1.9550	259.99	94.984	54.239	5.4598	1.1793	140.6
#2	-2.2079	261.33	94.968	55.760	3.4529	3.1016	139.8
#3	-1.8699	237.17	95.110	52.501	5.4846	2.7047	143.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.4891	65.899	255.11
Stddev	1.1032	.490	.23
%RSD	74.085	.74397	.09148
#1	-2.6158	65.887	255.03
#2	-1.4405	65.414	254.94
#3	-.41098	66.394	255.38
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-004(2) Acquired: 11/9/2015 19:37:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37301.	10251.	533560.
Stddev	212.	96.	2818.
%RSD	.56912	.93836	.52822
#1	37253.	10273.	532720.
#2	37116.	10146.	536710.
#3	37533.	10334.	531260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.102%	86.856%	95.697%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-005(5) Acquired: 11/9/2015 19:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37846	29818.	22.406	114.51	1.3248	11210.	.1642
Stddev	.09011	685.	1.441	2.49	.0212	208.	.2654
%RSD	23.810	2.2985	6.4319	2.1780	1.6004	1.8560	161.6
#1	-.47896	29052.	20.830	111.97	1.3250	10980.	-.1372
#2	-.35157	30372.	22.733	116.95	1.3459	11385.	.2671
#3	-.30486	30031.	23.656	114.63	1.3035	11266.	.3627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.719	35.670	70.891	61366.	3257.	15250.	1471.8
Stddev	.144	.539	1.525	1178.	54.	301.	31.8
%RSD	.60666	1.5100	2.1512	1.9190	1.646	1.977	2.1607
#1	23.663	35.775	71.866	60067.	3210.	14910.	1481.1
#2	23.612	36.149	71.672	62364.	3244.	15500.	1497.9
#3	23.883	35.087	69.133	61668.	3315.	15330.	1436.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-005(5) Acquired: 11/9/2015 19:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1530	50.184	51.634	46.956	-.34283	.07309	77.39
Stddev	.2525	6.317	.303	2.000	.85584	.43164	1.88
%RSD	21.894	12.587	.58686	4.2587	249.64	590.55	2.426
#1	-.86365	56.286	51.843	48.972	-.69189	-.28710	78.08
#2	-1.3280	43.672	51.287	44.973	.63237	.55153	78.83
#3	-1.2675	50.592	51.773	46.924	-.96898	-.04516	75.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.08075	40.160	181.91
Stddev	.60041	.896	.60
%RSD	743.52	2.2311	.32754
#1	.59795	40.487	181.73
#2	-.29761	40.846	181.42
#3	-.54260	39.146	182.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-005(5) Acquired: 11/9/2015 19:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7F3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36893.	10161.	523870.
Stddev	171.	136.	7163.
%RSD	.46325	1.3381	1.3673
#1	37027.	10317.	523610.
#2	36951.	10076.	516830.
#3	36700.	10088.	531150.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.051%	86.091%	93.958%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-006(2) Acquired: 11/9/2015 19:47:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28351	34617.	129.64	336.35	2.4060	103320.	3.180
Stddev	.19651	177.	1.39	3.00	.0402	663.	.127
%RSD	69.312	.50988	1.0739	.89265	1.6706	.64210	3.996
#1	.11696	34641.	128.35	333.72	2.4391	102820.	3.244
#2	.23334	34429.	129.46	335.72	2.4177	103060.	3.034
#3	.50025	34780.	131.12	339.62	2.3613	104070.	3.262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34.367	63.517	2064.6	81694.	4665.	53510.	2407.5
Stddev	.076	.957	27.4	562.	48.	358.	41.9
%RSD	.22076	1.5060	1.3248	.68800	1.019	.6684	1.7414
#1	34.318	63.824	2079.4	81250.	4661.	53190.	2401.9
#2	34.328	64.282	2081.5	81507.	4620.	53450.	2451.9
#3	34.454	62.444	2033.1	82326.	4715.	53900.	2368.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-006(2) Acquired: 11/9/2015 19:47:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.9007	319.69	82.236	318.71	.78735	9.5100	403.4
Stddev	.3892	19.20	.596	2.86	.86139	.4358	5.3
%RSD	5.6403	6.0067	.72515	.89794	109.40	4.5822	1.322
#1	7.3050	333.23	82.713	321.65	.90745	10.001	405.8
#2	6.5286	297.71	82.427	318.54	-.12779	9.1705	407.2
#3	6.8683	328.13	81.568	315.94	1.5824	9.3580	397.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	4.7719	75.257	496.54
Stddev	1.0592	.994	2.43
%RSD	22.197	1.3203	.48856
#1	5.8864	75.932	499.24
#2	4.6510	75.722	495.84
#3	3.7783	74.116	494.54
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-006(2) Acquired: 11/9/2015 19:47:22 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36495.	10271.	516570.
Stddev	119.	213.	4456.
%RSD	.32593	2.0741	.86264
#1	36377.	10181.	515020.
#2	36615.	10514.	513100.
#3	36494.	10118.	521600.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.027%	87.025%	92.651%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-008(5) Acquired: 11/9/2015 19:52:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03688	28916.	19.656	106.59	1.1887	9906.4	-.0311
Stddev	.09242	103.	.694	.67	.0277	34.0	.1244
%RSD	250.56	.35535	3.5290	.62925	2.3268	.34273	400.3
#1	-.01116	28810.	19.735	107.21	1.1990	9868.1	-.1259
#2	.03994	29015.	18.926	106.70	1.1574	9918.4	-.0771
#3	-.13944	28924.	20.307	105.88	1.2098	9932.8	.1098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.649	33.172	65.308	58174.	3163.	13640.	1641.1
Stddev	.066	.614	1.377	146.	51.	172.	28.7
%RSD	.26871	1.8506	2.1085	.25175	1.612	1.257	1.7477
#1	24.688	33.211	65.750	58008.	3185.	13480.	1643.5
#2	24.572	32.539	63.764	58228.	3105.	13820.	1611.3
#3	24.686	33.765	66.409	58285.	3199.	13630.	1668.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-008(5) Acquired: 11/9/2015 19:52:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1432	36.577	47.476	42.461	-.50846	1.5829	81.08
Stddev	.3354	19.255	.107	.840	1.7865	1.7175	1.22
%RSD	29.342	52.643	.22516	1.9791	351.35	108.50	1.505
#1	-.83433	24.353	47.538	42.376	-1.7910	2.4601	81.43
#2	-1.0951	58.772	47.353	43.340	1.5320	-.39601	79.72
#3	-1.5000	26.605	47.537	41.666	-1.2665	2.6846	82.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.01192	37.964	163.11
Stddev	.17040	.763	.18
%RSD	1429.6	2.0097	.11236
#1	-.13808	37.667	162.93
#2	-.07960	37.394	163.11
#3	.18192	38.831	163.29
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ31006-008(5) Acquired: 11/9/2015 19:52:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC7H3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37187.	10010.	525790.
Stddev	168.	83.	10192.
%RSD	.45240	.82663	1.9384
#1	37193.	9918.9	526290.
#2	37016.	10080.	535720.
#3	37352.	10031.	515350.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.809%	84.815%	94.303%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV005 Acquired: 11/9/2015 19:57:01 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	787.92	48995.	2563.4	10207.	1064.0	50371.	1022.
Stddev	18.98	633.	3.7	93.	36.6	426.	2.
%RSD	2.4087	1.2911	.14407	.90802	3.4361	.84556	.2020
#1	809.72	48399.	2559.5	10112.	1102.1	49956.	1020.
#2	778.99	48926.	2563.8	10212.	1029.3	50351.	1021.
#3	775.06	49659.	2566.9	10297.	1060.5	50807.	1024.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4992.6	10606.	12480.	24886.	39690.	51050.	5154.7
Stddev	9.0	246.	294.	180.	390.	386.	78.2
%RSD	.18074	2.3175	2.3571	.72152	.9836	.7560	1.5169
#1	4987.8	10886.	12796.	24684.	39280.	50610.	5234.5
#2	4987.0	10509.	12430.	24948.	39730.	51230.	5151.4
#3	5003.0	10424.	12214.	25027.	40050.	51320.	5078.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV005 Acquired: 11/9/2015 19:57:01 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.6	27479.	4927.9	9764.6	2514.2	1270.5	1036.
Stddev	.7	165.	5.7	12.8	10.2	1.2	23.
%RSD	.06655	.60220	.11505	.13103	.40573	.09811	2.234
#1	1006.3	27297.	4926.8	9750.7	2503.5	1271.4	1062.
#2	1006.1	27516.	4922.9	9767.2	2515.3	1269.0	1026.
#3	1007.3	27622.	4934.1	9775.9	2523.8	1271.0	1019.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	971.24	2609.5	5101.8
Stddev	2.72	61.1	5.5
%RSD	.28014	2.3419	.10717
#1	970.13	2679.2	5096.4
#2	969.24	2584.3	5101.6
#3	974.34	2565.0	5107.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV005 Acquired: 11/9/2015 19:57:01 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	34738.	9792.2	492380.
Stddev	132.	56.5	11656.
%RSD	.37948	.57669	2.3674
#1	34875.	9855.9	479100.
#2	34612.	9772.5	500940.
#3	34728.	9748.3	497100.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB005 Acquired: 11/9/2015 20:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09401	30.065	-.86578	-.17706	.06349	-2.7223	-.0546
Stddev	.36693	24.016	.43513	.61348	.00572	8.0358	.0330
%RSD	390.33	79.880	50.259	346.48	9.0044	295.18	60.39
#1	-.35749	37.631	-1.0733	.00936	.06141	6.4829	-.0745
#2	-.24962	49.387	-.36573	.32159	.05910	-6.3139	-.0728
#3	.32509	3.1771	-1.1583	-.86213	.06995	-8.3359	-.0165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11294	.21485	1.5919	9.1026	65.26	-40.34	-.02972
Stddev	.19265	.29626	.6521	4.4560	26.60	43.19	.01995
%RSD	170.58	137.89	40.961	48.953	40.76	107.1	67.133
#1	.28638	.19639	.93116	5.9402	34.61	-58.05	-.02691
#2	.14684	-.07174	1.6096	14.199	82.33	-71.87	-.01132
#3	-.09441	.51991	2.2349	7.1687	78.84	8.885	-.05093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB005 Acquired: 11/9/2015 20:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5865	-27.441	-.44456	-.90336	-1.4324	.68630	.2579
Stddev	.2515	16.791	.13050	1.3019	3.2217	.76419	.0862
%RSD	15.852	61.190	29.354	144.11	224.91	111.35	33.43
#1	-1.4100	-26.537	-.41633	-1.7101	1.7335	.84798	.1722
#2	-1.4751	-11.120	-.58686	.59852	-4.7071	-.14579	.2568
#3	-1.8745	-44.665	-.33049	-1.5985	-1.3237	1.3567	.3446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.76560	.14826	-.20030
Stddev	.82597	.07552	.12885
%RSD	107.89	50.942	64.327
#1	-1.7103	.07303	-.34770
#2	-.40645	.22407	-.10907
#3	-.18000	.14766	-.14413
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB005 Acquired: 11/9/2015 20:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37296.	9849.5	528500.
Stddev	40.	71.4	6327.
%RSD	.10801	.72465	1.1971
#1	37342.	9930.2	533620.
#2	37266.	9794.6	530450.
#3	37280.	9823.7	521420.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-014 Acquired: 11/9/2015 20:06:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AX1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33560	74.297	3.9244	64.876	.11849	42424.	.2466
Stddev	.08668	37.645	.4620	.626	.01680	191.	.1213
%RSD	25.829	50.668	11.772	.96512	14.182	.45070	49.17
#1	-.40214	94.953	4.2641	65.477	.11150	42288.	.1175
#2	-.36708	30.846	4.1108	64.227	.13766	42341.	.3581
#3	-.23758	97.092	3.3983	64.922	.10630	42642.	.2641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5054	10.688	4.8589	21352.	5871.	7091.	182.57
Stddev	.1970	.261	.4031	65.	22.	34.	1.99
%RSD	13.087	2.4407	8.2963	.30500	.3814	.4788	1.0900
#1	1.2814	10.573	5.0655	21330.	5850.	7052.	180.65
#2	1.6517	10.986	5.1168	21302.	5894.	7109.	184.62
#3	1.5832	10.504	4.3944	21426.	5869.	7113.	182.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-014 Acquired: 11/9/2015 20:06:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AX1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.96559	24391.	12.548	.82352	-1.0115	-.14306	.1470
Stddev	.32405	176.	.220	.92462	.9049	.19040	.1524
%RSD	33.560	.72023	1.7533	112.28	89.468	133.09	103.6
#1	-1.1661	24204.	12.438	1.8843	-.02730	-.35647	.0890
#2	-1.1389	24416.	12.801	.39778	-1.8076	-.08213	.0322
#3	-.59174	24552.	12.405	.18846	-1.1995	.00941	.3199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.19380	1.3863	47.123
Stddev	1.3206	.3554	.076
%RSD	681.40	25.637	.16234
#1	-1.5849	1.7423	47.144
#2	-.03915	1.3850	47.039
#3	1.0426	1.0315	47.187
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-014 Acquired: 11/9/2015 20:06:57 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AX1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37237.	10328.	529190.
Stddev	84.	95.	3831.
%RSD	.22656	.92360	.72402
#1	37140.	10259.	530630.
#2	37294.	10288.	524850.
#3	37277.	10437.	532100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.938%	87.508%	94.913%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-015 Acquired: 11/9/2015 20:11:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.85233	503.79	.85091	144.68	.56572	1404.4	.1012
Stddev	.12550	68.07	.41014	1.82	.02936	13.7	.0477
%RSD	14.724	13.512	48.200	1.2582	5.1899	.97734	47.18
#1	-.96677	580.47	.38771	142.89	.54818	1390.3	.0681
#2	-.71812	480.41	.99710	144.60	.59961	1405.0	.0796
#3	-.87208	450.50	1.1679	146.53	.54937	1417.8	.1559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.633	1.1551	3.7179	1456.0	2441.	3162.	39.230
Stddev	.152	.5465	.1283	26.0	58.	26.	.551
%RSD	.42646	47.312	3.4516	1.7849	2.377	.8271	1.4039
#1	35.482	1.4866	3.7313	1429.0	2378.	3133.	39.032
#2	35.632	1.4543	3.8389	1458.3	2493.	3184.	39.852
#3	35.786	.52431	3.5833	1480.8	2450.	3169.	38.805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-015 Acquired: 11/9/2015 20:11:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4273	17815.	242.14	1.0068	-.39775	.16985	.6949
Stddev	.1628	155.	.34	.6032	1.3127	.96918	.1559
%RSD	6.7091	.86883	.13859	59.911	330.04	570.62	22.43
#1	-2.5965	17636.	242.03	1.2321	-1.9127	1.1381	.8199
#2	-2.4139	17904.	241.87	1.4648	.40429	-.80022	.7446
#3	-2.2716	17904.	242.52	.32337	.31515	.17163	.5203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.50504	.31341	15.165
Stddev	.72501	.11856	.056
%RSD	143.56	37.829	.37075
#1	-1.0798	.26420	15.150
#2	.30947	.44865	15.117
#3	-.74474	.22738	15.227
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-015 Acquired: 11/9/2015 20:11:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38014.	10377.	534360.
Stddev	124.	77.	5899.
%RSD	.32621	.74302	1.1040
#1	38146.	10351.	536480.
#2	37901.	10317.	527690.
#3	37996.	10464.	538900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.941%	87.927%	95.840%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-016 Acquired: 11/9/2015 20:16:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.30907	220.00	.98394	56.723	.36677	8297.7	-.1716
Stddev	.44170	63.97	.90328	1.074	.01497	54.5	.1550
%RSD	142.91	29.078	91.803	1.8932	4.0812	.65669	90.31
#1	.73751	265.50	-.05903	55.616	.36076	8235.3	-.3006
#2	-.14480	247.66	1.4966	56.792	.38380	8321.9	.0003
#3	.33450	146.86	1.5142	57.761	.35573	8335.8	-.2147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6669	1.4713	3.1344	1961.6	1801.	4180.	24.722
Stddev	.1298	.3133	.4663	12.9	50.	52.	.230
%RSD	7.7863	21.291	14.877	.66009	2.802	1.238	.93097
#1	1.5181	1.3979	3.0786	1973.5	1773.	4238.	24.540
#2	1.7258	1.8148	2.6985	1947.8	1859.	4139.	24.980
#3	1.7567	1.2013	3.6261	1963.3	1771.	4164.	24.645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-016 Acquired: 11/9/2015 20:16:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3862	3740.0	1.1371	-.00566	-.40457	.30654	.1108
Stddev	.0898	23.3	.0834	.70942	.55431	.71371	.1508
%RSD	3.7654	.62340	7.3375	12532.	137.01	232.83	136.1
#1	-2.4072	3716.7	1.1324	-.69781	.22581	1.0413	-.0633
#2	-2.2877	3740.1	1.0562	-.03903	-.81577	.26247	.2004
#3	-2.4637	3763.3	1.2228	.71986	-.62375	-.38412	.1954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.70467	.38125	6.0887
Stddev	.27137	.25508	.0535
%RSD	38.510	66.906	.87935
#1	-.48388	.15662	6.1156
#2	-.62252	.32857	6.0270
#3	-1.0076	.65856	6.1234
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-016 Acquired: 11/9/2015 20:16:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37460.	10209.	534970.
Stddev	74.	87.	4113.
%RSD	.19629	.85233	.76882
#1	37428.	10109.	536730.
#2	37544.	10255.	530260.
#3	37408.	10263.	537900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.512%	86.500%	95.949%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-017 Acquired: 11/9/2015 20:21:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12278	72.941	-.77389	141.47	.10108	442.80	-.1434
Stddev	.40018	29.395	1.4432	6.23	.00996	18.58	.2412
%RSD	325.92	40.299	186.49	4.4053	9.8577	4.1960	168.3
#1	-.52513	40.291	-2.4072	144.65	.09444	448.33	-.2389
#2	-.11842	81.233	.32948	134.29	.09626	422.08	.1310
#3	.27520	97.300	-.24399	145.48	.11253	457.98	-.3222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2847	31.965	1.6194	230.75	2695.	3222.	38.080
Stddev	.0882	.179	.2659	20.90	227.	143.	.393
%RSD	6.8685	.56103	16.420	9.0574	8.438	4.426	1.0317
#1	1.2202	32.045	1.5452	236.10	2856.	3252.	37.901
#2	1.3852	31.760	1.3986	207.70	2435.	3066.	37.809
#3	1.2486	32.090	1.9146	248.46	2795.	3346.	38.531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-017 Acquired: 11/9/2015 20:21:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1026	10671.	7.9304	-.13703	-2.0562	-.35292	1.726
Stddev	.1319	573.	.3424	.99798	1.2175	.87962	1.762
%RSD	11.963	5.3655	4.3179	728.28	59.211	249.24	102.1
#1	-1.0472	10934.	8.3179	-.90882	-.75024	-1.0189	3.761
#2	-1.2531	10014.	7.6686	-.49223	-3.1599	.64422	.6724
#3	-1.0074	11065.	7.8046	.98996	-2.2585	-.68409	.7450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.08714	.32670	2.5378
Stddev	.23637	.31635	.0656
%RSD	271.25	96.831	2.5856
#1	.03316	.05271	2.5924
#2	.34583	.67291	2.4650
#3	-.11757	.25448	2.5559
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-017 Acquired: 11/9/2015 20:21:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37964.	10791.	541800.
Stddev	187.	427.	3864.
%RSD	.49165	3.9591	.71311
#1	37763.	10583.	543860.
#2	38132.	11282.	544190.
#3	37997.	10507.	537340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.811%	91.430%	97.175%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-018 Acquired: 11/9/2015 20:26:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11918	-31.857	-.68352	141.36	.23446	13711.	-.3159
Stddev	.60403	92.800	1.6321	1.83	.02818	198.	.0776
%RSD	506.84	291.30	238.78	1.2933	12.021	1.4474	24.56
#1	-.81341	-115.89	-2.5576	139.90	.21260	13578.	-.4054
#2	.28608	-47.417	.08168	143.41	.26627	13939.	-.2741
#3	.16980	67.739	.42538	140.76	.22450	13616.	-.2681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8171	11.213	4.7271	1098.3	3464.	4740.	55.975
Stddev	.0927	.676	.9760	14.9	86.	56.	.974
%RSD	5.0997	6.0311	20.647	1.3523	2.490	1.186	1.7396
#1	1.8036	10.827	4.3201	1081.5	3372.	4721.	55.149
#2	1.7320	11.994	5.8407	1109.6	3543.	4804.	57.049
#3	1.9158	10.818	4.0205	1103.9	3477.	4697.	55.726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-018 Acquired: 11/9/2015 20:26:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.0795	23472.	9.6546	.27791	-1.3307	-.86469	.2839
Stddev	.1201	363.	.0801	.88055	.3003	2.5634	.3942
%RSD	11.124	1.5448	.82969	316.85	22.565	296.45	138.9
#1	-.95058	23197.	9.7390	.03193	-1.6719	-3.1904	-.1481
#2	-1.0996	23883.	9.6452	-.45350	-1.2139	1.8837	.6242
#3	-1.1882	23336.	9.5796	1.2553	-1.1064	-1.2874	.3755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.39832	.33973	24.942
Stddev	1.0545	.22512	.121
%RSD	264.74	66.266	.48529
#1	-.43671	.28163	25.006
#2	.67488	.14935	24.802
#3	-1.4331	.58821	25.018
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-018 Acquired: 11/9/2015 20:26:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AY7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36976.	10369.	530920.
Stddev	141.	199.	10059.
%RSD	.37996	1.9176	1.8946
#1	36816.	10420.	538960.
#2	37036.	10150.	519640.
#3	37077.	10538.	534160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.267%	87.859%	95.223%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-019 Acquired: 11/9/2015 20:30:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36113	71.110	32.192	51.758	.08109	2929.7	-.3741
Stddev	.42349	12.135	.659	1.012	.00245	21.8	.1156
%RSD	117.27	17.065	2.0480	1.9557	3.0250	.74504	30.91
#1	-.75071	68.467	31.495	51.312	.07830	2932.7	-.3001
#2	.08963	60.515	32.806	52.917	.08206	2906.6	-.3150
#3	-.42229	84.349	32.274	51.045	.08291	2949.9	-.5074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02971	1.7242	1.8544	32163.	2380.	3827.	61.893
Stddev	.11862	.1961	.3885	192.	32.	34.	.457
%RSD	399.25	11.372	20.952	.59729	1.353	.8756	.73870
#1	-.10538	1.8553	2.1284	32049.	2378.	3866.	62.421
#2	.11686	1.8185	1.4097	32056.	2413.	3803.	61.647
#3	.07766	1.4988	2.0249	32385.	2349.	3813.	61.612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-019 Acquired: 11/9/2015 20:30:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6355	8113.2	1.9628	.26224	-2.8916	-.36344	1.184
Stddev	.0574	33.2	.2992	.58916	1.3819	1.3606	.179
%RSD	2.1785	.40975	15.245	224.67	47.789	374.36	15.16
#1	-2.6992	8103.3	2.2286	.30947	-2.0841	1.0099	1.028
#2	-2.6194	8086.0	2.0212	-.34911	-4.4872	-.38932	1.380
#3	-2.5878	8150.2	1.6387	.82636	-2.1035	-1.7109	1.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.61755	.89353	11.415
Stddev	1.5832	.45563	.051
%RSD	256.37	50.992	.44927
#1	-.78476	1.3521	11.382
#2	-2.1106	.88764	11.389
#3	1.0427	.44087	11.474
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-019 Acquired: 11/9/2015 20:30:56 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37915.	10265.	540510.
Stddev	46.	152.	4888.
%RSD	.12212	1.4814	.90438
#1	37910.	10254.	538590.
#2	37964.	10422.	546070.
#3	37871.	10119.	536870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.685%	86.978%	96.943%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-020 Acquired: 11/9/2015 20:35:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02838	239.43	-.31010	468.99	.19245	2641.3	.0963
Stddev	.32234	47.24	1.0078	2.93	.00924	16.6	.0817
%RSD	1135.8	19.731	325.01	.62438	4.8035	.62804	84.91
#1	.23080	187.81	-1.1654	471.61	.19389	2654.0	.0360
#2	.07338	249.95	-.56585	465.83	.18256	2622.6	.0635
#3	-.38932	280.52	.80097	469.54	.20088	2647.5	.1893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.0720	5.1543	8.6873	136.98	4133.	9841.	86.600
Stddev	.3205	.2545	.6431	18.36	143.	71.	1.241
%RSD	7.8705	4.9372	7.4024	13.400	3.464	.7197	1.4326
#1	4.2321	5.4454	9.3655	129.73	4292.	9872.	88.021
#2	4.2808	4.9740	8.6101	157.85	4014.	9760.	85.728
#3	3.7030	5.0436	8.0863	123.36	4093.	9891.	86.052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-020 Acquired: 11/9/2015 20:35:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.8153	34523.	6.4083	.49450	-1.8941	1.2391	1.557
Stddev	.2032	244.	.2447	1.6300	2.1864	.8858	.259
%RSD	11.191	.70776	3.8191	329.63	115.43	71.485	16.66
#1	-1.9266	34728.	6.4384	1.4608	.16613	2.0884	1.260
#2	-1.5808	34253.	6.6366	-1.3875	-1.6606	.32095	1.669
#3	-1.9386	34588.	6.1499	1.4102	-4.1879	1.3078	1.742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.27572	.52382	24.712
Stddev	.68618	.08592	.083
%RSD	248.87	16.402	.33498
#1	-.51039	.48034	24.616
#2	-.81377	.46832	24.764
#3	.49701	.62278	24.755
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20013-020 Acquired: 11/9/2015 20:35:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MB0AQ2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37427.	10264.	540880.
Stddev	179.	160.	6285.
%RSD	.47949	1.5611	1.1620
#1	37571.	10181.	533630.
#2	37226.	10449.	544750.
#3	37485.	10163.	544260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.428%	86.971%	97.010%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV006 Acquired: 11/9/2015 20:40:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	784.26	49966.	2567.1	10203.	1071.8	50778.	1021.
Stddev	27.39	235.	.7	56.	31.0	335.	2.
%RSD	3.4927	.47120	.02772	.54641	2.8950	.65919	.1535
#1	777.32	49947.	2567.8	10158.	1082.9	50500.	1020.
#2	761.00	50210.	2566.4	10265.	1036.7	51150.	1020.
#3	814.45	49740.	2567.0	10184.	1095.7	50685.	1023.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5002.1	10496.	12440.	25314.	39330.	51720.	5092.0
Stddev	7.2	380.	570.	168.	438.	396.	165.9
%RSD	.14329	3.6244	4.5824	.66178	1.115	.7653	3.2588
#1	4997.5	10397.	12380.	25237.	39160.	51360.	4978.4
#2	4998.4	10176.	11902.	25506.	39830.	52140.	5015.1
#3	5010.3	10917.	13038.	25199.	39010.	51650.	5282.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV006 Acquired: 11/9/2015 20:40:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1006.3	27164.	4918.0	9748.6	2521.8	1278.1	1030.
Stddev	1.3	145.	7.4	17.2	6.0	3.9	38.
%RSD	.12713	.53237	.14989	.17606	.23952	.30812	3.677
#1	1005.3	27058.	4913.6	9740.4	2523.4	1276.2	1019.
#2	1005.7	27329.	4914.0	9737.1	2526.8	1275.4	999.3
#3	1007.7	27105.	4926.6	9768.3	2515.1	1282.6	1073.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	968.74	2608.3	5098.9
Stddev	3.28	96.8	7.1
%RSD	.33809	3.7113	.13840
#1	968.17	2579.9	5092.8
#2	965.78	2528.9	5097.2
#3	972.26	2716.1	5106.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV006 Acquired: 11/9/2015 20:40:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35041.	10029.	496610.
Stddev	54.	127.	16661.
%RSD	.15355	1.2669	3.3549
#1	35065.	10023.	500490.
#2	35077.	9905.6	510980.
#3	34979.	10159.	478350.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB006 Acquired: 11/9/2015 20:45:38 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07169	46.488	-.98135	.95067	.06455	-3.5587	-.1659
Stddev	.44107	82.891	.46891	.68946	.00688	6.6427	.0741
%RSD	615.25	178.31	47.782	72.524	10.660	186.66	44.65
#1	.08432	135.95	-1.5214	1.3718	.06317	3.9977	-.2341
#2	.50631	-27.702	-.74514	.15500	.05846	-6.1964	-.1765
#3	-.37556	31.210	-.67751	1.3252	.07201	-8.4774	-.0871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25299	.04210	1.8792	4.3202	121.4	36.18	.00001
Stddev	.11354	.19268	1.0876	6.9799	103.4	42.07	.03740
%RSD	44.881	457.70	57.874	161.56	85.18	116.3	424480.
#1	.23306	.09196	1.0002	12.295	81.99	32.76	-.04257
#2	.15074	-.17061	3.0954	1.3422	43.50	79.86	.01508
#3	.37519	.20494	1.5419	-.67673	238.7	-4.069	.02752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB006 Acquired: 11/9/2015 20:45:38 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3133	-11.843	-.22367	.53135	-1.7583	-.01699	.2774
Stddev	.1516	20.603	.21663	.87828	1.4509	1.4125	.0938
%RSD	11.543	173.96	96.853	165.29	82.519	8314.8	33.81
#1	-1.1666	-28.446	-.33538	1.3669	-1.7257	.53104	.3848
#2	-1.4693	-18.299	-.36164	.61140	-.32397	1.0393	.2365
#3	-1.3039	11.215	.02601	-.38422	-3.2253	-1.6213	.2111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.0381	.24097	-.21548
Stddev	.9946	.19803	.05785
%RSD	95.810	82.179	26.848
#1	-1.1284	.01305	-.19977
#2	-1.9845	.33898	-.16711
#3	-.00143	.37089	-.27957
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB006 Acquired: 11/9/2015 20:45:38 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37134.	10067.	524780.
Stddev	88.	268.	4777.
%RSD	.23734	2.6638	.91035
#1	37050.	10332.	530010.
#2	37226.	10073.	520640.
#3	37127.	9795.8	523700.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88725-001 Acquired: 11/9/2015 20:50:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.20401	30.072	-.10236	11.903	-.30509	266.94	-.1238
Stddev	.20928	72.267	1.0852	.271	.00979	2.30	.0632
%RSD	102.58	240.31	1060.1	2.2801	3.2092	.86169	51.07
#1	-.16276	27.482	.37985	12.053	-.31333	268.61	-.1142
#2	-.01843	103.60	.65817	12.066	-.30769	264.32	-.1914
#3	-.43084	-40.865	-1.3451	11.590	-.29427	267.89	-.0660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08052	.56479	2.1940	24.925	135.4	34.83	5.0061
Stddev	.14859	.33412	.2450	12.933	33.5	44.06	.0162
%RSD	184.54	59.157	11.166	51.888	24.77	126.5	.32344
#1	-.06032	.83123	2.1546	16.454	165.0	76.60	5.0215
#2	.06608	.67321	1.9712	18.510	99.00	39.10	4.9892
#3	.23581	.18993	2.4563	39.812	142.2	-11.22	5.0076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88725-001 Acquired: 11/9/2015 20:50:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.2780	1992.2	.88444	.50327	.28224	1.8823	603.2
Stddev	.1459	44.4	.21070	1.4000	2.0022	2.3376	8.2
%RSD	6.4068	2.2290	23.823	278.19	709.38	124.18	1.355
#1	-2.1596	1942.8	.94699	-.77486	2.4642	4.1987	612.6
#2	-2.2332	2005.1	.64954	1.9996	-.14705	1.9241	597.6
#3	-2.4410	2028.7	1.0568	.28510	-1.4705	-.47583	599.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.2378	.79105	330.84
Stddev	.1337	.10109	1.22
%RSD	3.1557	12.779	.36987
#1	-4.0976	.90732	332.01
#2	-4.3640	.74187	330.94
#3	-4.2516	.72396	329.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88725-001 Acquired: 11/9/2015 20:50:28 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38491.	10249.	562400.
Stddev	46.	18.	5478.
%RSD	.12000	.17399	.97408
#1	38504.	10247.	557070.
#2	38440.	10232.	568020.
#3	38530.	10268.	562120.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.170%	86.839%	100.87%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88725-002 Acquired: 11/9/2015 20:55:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.946	458.15	18.376	387.66	9.0768	9695.1	9.437
Stddev	.790	89.59	1.327	3.28	.1250	66.9	.206
%RSD	3.7696	19.555	7.2203	.84692	1.3766	.69024	2.188
#1	21.232	457.53	17.114	384.09	9.1357	9620.2	9.406
#2	20.054	548.05	19.759	388.34	8.9333	9716.1	9.247
#3	21.554	368.88	18.254	390.55	9.1614	9749.1	9.656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91.190	19.552	48.926	209.11	10070.	9585.	35.271
Stddev	.227	.420	.843	11.41	87.	110.	.450
%RSD	.24875	2.1500	1.7226	5.4555	.8658	1.152	1.2744
#1	91.448	19.754	49.657	197.87	9967.	9459.	35.498
#2	91.102	19.069	48.004	220.68	10120.	9631.	34.754
#3	91.021	19.833	49.115	208.78	10110.	9664.	35.562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88725-002 Acquired: 11/9/2015 20:55:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4152	12238.	71.886	18.707	104.63	65.363	634.9
Stddev	.1787	66.	.290	.941	2.43	1.954	11.7
%RSD	7.3993	.53883	.40288	5.0288	2.3245	2.9897	1.837
#1	-2.2094	12176.	71.940	18.101	104.02	64.380	642.6
#2	-2.5044	12230.	71.573	18.230	107.31	67.613	621.5
#3	-2.5317	12307.	72.144	19.791	102.56	64.095	640.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	43.517	94.413	404.12
Stddev	1.341	1.249	.72
%RSD	3.0819	1.3232	.17820
#1	44.904	95.322	404.93
#2	42.227	92.988	403.57
#3	43.420	94.929	403.84
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88725-002 Acquired: 11/9/2015 20:55:17 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37150.	10146.	532300.
Stddev	213.	53.	8941.
%RSD	.57303	.51956	1.6796
#1	37007.	10156.	532120.
#2	37395.	10192.	541330.
#3	37048.	10089.	523450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.714%	85.965%	95.471%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-001 Acquired: 11/9/2015 21:00:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03016	447.55	-.41554	31.622	-.18774	3040.4	.2420
Stddev	.36685	48.43	.86838	1.087	.01092	75.7	.0932
%RSD	1216.4	10.821	208.98	3.4361	5.8181	2.4912	38.51
#1	.31614	437.77	-1.3983	30.607	-.18062	2984.3	.1344
#2	-.38347	500.12	-.09676	31.493	-.18228	3010.4	.2952
#3	.15780	404.75	.24840	32.768	-.20031	3126.6	.2963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47776	1.7159	6.4597	413.55	1147.	374.0	18.416
Stddev	.06926	.0612	1.0053	10.43	20.	29.7	.024
%RSD	14.497	3.5635	15.562	2.5230	1.730	7.948	.12808
#1	.55773	1.6486	5.9796	413.76	1127.	368.7	18.418
#2	.43890	1.7311	7.6150	403.01	1149.	406.0	18.439
#3	.43666	1.7681	5.7845	423.87	1166.	347.3	18.392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-001 Acquired: 11/9/2015 21:00:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1455	8379.3	1.9234	23.020	-1.2027	1.8562	445.1
Stddev	.1839	186.4	.3198	.101	1.5420	2.7413	3.6
%RSD	8.5736	2.2248	16.626	.44034	128.21	147.68	.8192
#1	-2.0376	8238.1	1.6408	23.025	-.76747	-1.1933	443.0
#2	-2.3579	8309.3	2.2706	22.917	.07482	2.6462	449.3
#3	-2.0410	8590.6	1.8589	23.119	-2.9155	4.1158	443.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.4581	1.4342	301.07
Stddev	1.3613	.1003	1.02
%RSD	39.366	6.9936	.34029
#1	-3.2812	1.5215	302.24
#2	-4.8991	1.4566	300.64
#3	-2.1938	1.3247	300.33
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-001 Acquired: 11/9/2015 21:00:05 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37999.	10338.	553290.
Stddev	167.	147.	3993.
%RSD	.44032	1.4177	.72174
#1	37903.	10366.	556560.
#2	38192.	10469.	548840.
#3	37902.	10180.	554460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.902%	87.595%	99.236%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-002 Acquired: 11/9/2015 21:04:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09237	164.69	1.0407	20.839	.04544	3487.5	-.1594
Stddev	.32384	15.71	.5266	.292	.00626	27.4	.0964
%RSD	350.58	9.5361	50.602	1.3996	13.767	.78667	60.48
#1	-.27408	174.20	.49530	20.537	.04010	3457.0	-.0903
#2	.21112	146.57	1.0806	21.119	.04389	3495.5	-.2695
#3	.34008	173.32	1.5463	20.862	.05232	3510.1	-.1183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.28690	1.1211	2.5020	48.137	169.4	1107.	7.5789
Stddev	.02651	.2795	.7325	6.406	19.7	34.	.0775
%RSD	9.2394	24.928	29.278	13.307	11.60	3.071	1.0229
#1	.26291	.90322	1.9492	41.130	148.6	1084.	7.5064
#2	.31535	1.0240	3.3328	49.588	171.9	1091.	7.6606
#3	.28243	1.4362	2.2239	53.693	187.6	1146.	7.5696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-002 Acquired: 11/9/2015 21:04:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5006	16370.	.08537	294.63	-.91991	2.7627	3.918
Stddev	.1728	159.	.14692	.99	1.5617	.9434	.288
%RSD	6.9097	.96976	172.11	.33521	169.77	34.148	7.351
#1	-2.5150	16206.	-.07764	295.75	-.09904	2.5376	3.635
#2	-2.6657	16381.	.12616	293.86	.06017	1.9522	4.211
#3	-2.3211	16523.	.20758	294.30	-2.7208	3.7983	3.910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.6917	.53581	268.70
Stddev	.6291	.04441	.42
%RSD	23.371	8.2883	.15795
#1	-3.3717	.51174	268.51
#2	-2.1304	.58706	268.40
#3	-2.5731	.50864	269.18
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-002 Acquired: 11/9/2015 21:04:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37670.	10233.	547100.
Stddev	155.	57.	5559.
%RSD	.41176	.55623	1.0161
#1	37679.	10173.	550040.
#2	37820.	10239.	540690.
#3	37510.	10286.	550570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.053%	86.702%	98.126%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-003 Acquired: 11/9/2015 21:09:44 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04996	4885.2	10.486	117.32	-.35890	15162.	.3544
Stddev	.36677	59.1	.395	.57	.00837	41.	.0132
%RSD	734.08	1.2093	3.7663	.49001	2.3317	.26765	3.734
#1	-.44384	4952.5	10.543	117.75	-.36656	15190.	.3393
#2	.28174	4841.6	10.849	117.53	-.36018	15179.	.3639
#3	.01222	4861.6	10.066	116.66	-.34997	15115.	.3599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.5595	19.509	50.445	5578.1	3698.	2581.	186.13
Stddev	.1694	.478	1.419	33.0	34.	58.	2.10
%RSD	6.6201	2.4511	2.8126	.59115	.9063	2.252	1.1270
#1	2.5770	19.639	51.606	5548.5	3662.	2581.	187.37
#2	2.3820	19.909	50.865	5572.3	3729.	2523.	187.30
#3	2.7195	18.980	48.864	5613.7	3702.	2640.	183.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-003 Acquired: 11/9/2015 21:09:44 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.5227	16455.	10.326	41.937	2.9179	1.4542	1117.
Stddev	.1031	59.	.347	.682	2.6595	2.5557	11.
%RSD	6.7709	.36145	3.3590	1.6269	91.145	175.75	.9618
#1	-1.4244	16520.	10.317	41.844	5.5472	4.2558	1125.
#2	-1.6300	16444.	10.677	42.661	.22911	-.74965	1121.
#3	-1.5137	16402.	9.9833	41.306	2.9774	.85645	1105.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.6136	14.574	443.63
Stddev	1.2609	.222	.91
%RSD	27.329	1.5228	.20594
#1	-3.4703	14.827	444.54
#2	-4.4044	14.483	443.65
#3	-5.9659	14.412	442.71
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-003 Acquired: 11/9/2015 21:09:44 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36662.	9923.6	517330.
Stddev	120.	40.8	6680.
%RSD	.32742	.41074	1.2912
#1	36769.	9908.7	513240.
#2	36532.	9892.5	513720.
#3	36684.	9969.8	525040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.457%	84.083%	92.786%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-004 Acquired: 11/9/2015 21:14:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17692	848.98	-.35232	28.713	-.39146	4484.3	.0957
Stddev	.41860	132.43	.70438	.885	.01309	29.9	.1261
%RSD	236.60	15.598	199.93	3.0837	3.3433	.66648	131.8
#1	.00791	929.30	.25108	27.691	-.38632	4458.6	.2330
#2	-.65612	696.13	-1.1263	29.244	-.40634	4477.2	-.0151
#3	.11744	921.49	-.18171	29.203	-.38172	4517.1	.0693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44473	3.1153	10.604	810.14	1759.	640.6	43.477
Stddev	.11175	.1872	.722	26.59	23.	2.2	.182
%RSD	25.128	6.0083	6.8039	3.2825	1.289	.3369	.41770
#1	.56563	3.3252	9.7803	807.08	1735.	638.9	43.274
#2	.34522	2.9656	11.122	785.21	1760.	643.0	43.623
#3	.42333	3.0552	10.910	838.14	1781.	639.8	43.534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-004 Acquired: 11/9/2015 21:14:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1422	12669.	2.3794	6.1080	-.03584	-.13759	838.2
Stddev	.1806	92.	.3199	1.0681	1.5052	1.1859	11.1
%RSD	8.4293	.72757	13.445	17.486	4200.0	861.87	1.324
#1	-2.1917	12582.	2.0151	7.0643	-1.7511	.98183	828.4
#2	-1.9420	12660.	2.6148	6.3042	.57887	-.01434	850.3
#3	-2.2929	12765.	2.5082	4.9554	1.0647	-1.3803	836.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.8429	3.0387	322.86
Stddev	1.6945	.0867	.79
%RSD	44.094	2.8519	.24467
#1	-3.4051	3.1354	322.84
#2	-5.7134	3.0125	323.66
#3	-2.4103	2.9681	322.08
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-004 Acquired: 11/9/2015 21:14:34 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37833.	10249.	551070.
Stddev	144.	54.	3948.
%RSD	.38001	.52628	.71644
#1	37729.	10214.	553230.
#2	37772.	10311.	553470.
#3	37997.	10222.	546520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.473%	86.841%	98.838%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-005 Acquired: 11/9/2015 21:19:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23908	684.37	.10946	28.849	-.57270	3971.3	.0360
Stddev	.30242	49.78	2.1166	.128	.01216	22.4	.1697
%RSD	126.50	7.2742	1933.8	.44411	2.1228	.56463	472.0
#1	.09075	731.37	1.2669	28.784	-.56256	3949.0	-.1598
#2	-.50334	689.52	1.3949	28.766	-.58618	3993.9	.1429
#3	-.30464	632.21	-2.3335	28.996	-.56937	3971.1	.1247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.55880	2.9704	9.1506	580.02	1462.	725.2	27.634
Stddev	.13608	.1881	.8298	11.32	38.	8.3	.372
%RSD	24.352	6.3313	9.0680	1.9510	2.626	1.139	1.3454
#1	.40921	3.0279	9.9733	592.75	1432.	721.5	28.061
#2	.67524	3.1230	9.1646	571.10	1449.	719.5	27.386
#3	.59196	2.7603	8.3139	576.23	1506.	734.7	27.454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-005 Acquired: 11/9/2015 21:19:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3137	11719.	3.5466	6.1457	.11586	.92053	1165.
Stddev	.2268	9.	.1102	.5250	1.7570	.51458	17.
%RSD	9.8003	.08101	3.1066	8.5419	1516.5	55.901	1.439
#1	-2.4717	11710.	3.4313	5.7460	-1.7930	1.0534	1184.
#2	-2.4156	11729.	3.5577	5.9509	.47521	.35252	1161.
#3	-2.0539	11717.	3.6508	6.7402	1.6654	1.3556	1151.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.2363	2.7858	283.97
Stddev	1.1607	.0365	1.19
%RSD	27.399	1.3107	.41805
#1	-3.8831	2.8280	283.29
#2	-3.2933	2.7658	283.29
#3	-5.5326	2.7637	285.34
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-005 Acquired: 11/9/2015 21:19:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38062.	10304.	544530.
Stddev	164.	67.	5492.
%RSD	.43065	.64565	1.0086
#1	38008.	10282.	538850.
#2	37932.	10379.	544930.
#3	38246.	10251.	549810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.063%	87.305%	97.664%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-006 Acquired: 11/9/2015 21:24:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25526	2422.4	.27034	53.655	-.43716	106120.	.2808
Stddev	.62001	78.7	1.9919	.711	.02438	1180.	.0443
%RSD	242.89	3.2499	736.80	1.3248	5.5770	1.1124	15.79
#1	.41585	2332.5	2.5636	53.309	-.46267	104760.	.2423
#2	.77918	2455.8	-1.0287	53.182	-.43471	106910.	.3293
#3	-.42924	2478.9	-.72392	54.472	-.41409	106680.	.2709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.0027	26.787	118.83	1393.3	2158.	2700.	95.228
Stddev	.1603	.276	1.21	20.7	62.	50.	.615
%RSD	3.2034	1.0295	1.0153	1.4850	2.887	1.859	.64589
#1	5.0847	27.071	120.23	1378.0	2089.	2642.	95.899
#2	4.8181	26.520	118.14	1385.0	2177.	2731.	95.092
#3	5.1054	26.771	118.13	1416.8	2209.	2727.	94.692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-006 Acquired: 11/9/2015 21:24:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.8849	13351.	8.5086	19.394	-.84221	2.2888	1135.
Stddev	.2863	196.	.0213	.417	1.5192	1.1531	29.
%RSD	4.1584	1.4701	.25067	2.1518	180.38	50.381	2.530
#1	6.8104	13128.	8.5104	19.712	-1.6864	3.1919	1160.
#2	7.2011	13496.	8.5289	18.921	.91156	2.6844	1141.
#3	6.6432	13430.	8.4864	19.547	-1.7518	.98992	1103.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.4905	5.9026	608.02
Stddev	1.1147	.3495	.91
%RSD	24.824	5.9204	.15000
#1	-3.8131	5.5536	608.41
#2	-3.8813	5.9018	608.67
#3	-5.7770	6.2525	606.97
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-006 Acquired: 11/9/2015 21:24:12 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36296.	10065.	522130.
Stddev	38.	44.	3431.
%RSD	.10357	.44081	.65715
#1	36254.	10100.	518250.
#2	36307.	10015.	524750.
#3	36327.	10079.	523380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.514%	85.279%	93.647%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-007 Acquired: 11/9/2015 21:29:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16325	460.00	-1.1474	60.316	-.61724	2704.4	.0212
Stddev	.02837	35.17	1.1451	.609	.00799	16.8	.0241
%RSD	17.381	7.6465	99.797	1.0096	1.2945	.61941	113.4
#1	.16517	485.35	.08610	59.726	-.60838	2685.6	.0489
#2	.19062	474.81	-2.1765	60.280	-.62390	2717.8	.0053
#3	.13397	419.84	-1.3518	60.942	-.61944	2709.9	.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34261	2.2632	8.3857	407.77	569.1	302.2	27.910
Stddev	.17975	.1412	.3911	8.26	97.0	8.3	.244
%RSD	52.464	6.2389	4.6635	2.0265	17.04	2.741	.87362
#1	.37587	2.1547	7.9349	416.13	567.2	305.9	27.634
#2	.14856	2.2119	8.5880	399.61	667.0	292.7	27.998
#3	.50341	2.4228	8.6342	407.58	473.1	307.9	28.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-007 Acquired: 11/9/2015 21:29:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4725	10134.	2.3742	13.459	-.24175	2.2484	1211.
Stddev	.1728	70.	.1848	1.099	.66305	2.5603	6.
%RSD	6.9884	.69505	7.7839	8.1620	274.28	113.87	.5119
#1	-2.6665	10059.	2.1992	14.591	-.93016	.74168	1204.
#2	-2.4160	10145.	2.3558	12.397	.39264	5.2047	1217.
#3	-2.3350	10199.	2.5675	13.389	-.18772	.79899	1212.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.7263	2.4310	1422.6
Stddev	.8424	.1388	1.2
%RSD	17.823	5.7091	.08614
#1	-5.0586	2.5702	1421.3
#2	-3.7685	2.2926	1423.8
#3	-5.3518	2.4301	1422.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-007 Acquired: 11/9/2015 21:29:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37706.	10280.	541760.
Stddev	48.	61.	1648.
%RSD	.12711	.59662	.30425
#1	37756.	10326.	543570.
#2	37703.	10304.	541350.
#3	37660.	10211.	540350.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.147%	87.107%	97.167%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-008 Acquired: 11/9/2015 21:33:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22386	268.42	-.02359	23.313	-.17011	2386.8	-.0755
Stddev	.59313	88.58	.33267	.354	.01375	25.8	.0384
%RSD	264.95	32.999	1410.4	1.5203	8.0802	1.0798	50.83
#1	.36086	234.06	-.30677	23.721	-.17936	2360.9	-.1198
#2	-.82505	369.03	.34279	23.142	-.15432	2387.1	-.0523
#3	-.20740	202.17	-.10678	23.077	-.17666	2412.5	-.0544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29661	2.2236	6.6442	239.04	547.8	197.5	28.992
Stddev	.04016	.2936	.8946	11.95	95.4	15.1	.062
%RSD	13.541	13.202	13.464	4.9984	17.42	7.629	.21229
#1	.34239	2.1242	6.5567	232.96	438.1	203.7	28.998
#2	.28019	2.5540	5.7966	252.80	611.3	208.5	29.050
#3	.26726	1.9927	7.5793	231.35	594.0	180.3	28.927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-008 Acquired: 11/9/2015 21:33:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3803	8808.4	1.8688	10.958	1.3277	1.7575	437.3
Stddev	.1078	106.8	.3543	1.504	.8225	.7969	4.8
%RSD	4.5286	1.2120	18.960	13.729	61.949	45.343	1.092
#1	-2.5000	8689.9	1.4610	12.187	2.0594	1.4492	441.9
#2	-2.2908	8838.3	2.0437	11.408	.43748	2.6625	432.4
#3	-2.3501	8897.0	2.1016	9.2806	1.4861	1.1608	437.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.1306	1.0693	1113.8
Stddev	1.2006	.2268	4.0
%RSD	29.067	21.207	.36121
#1	-4.8407	.82617	1117.8
#2	-4.8067	1.1066	1113.6
#3	-2.7444	1.2751	1109.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-008 Acquired: 11/9/2015 21:33:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37180.	10057.	534090.
Stddev	180.	98.	4195.
%RSD	.48322	.97607	.78539
#1	37034.	10093.	529730.
#2	37126.	9946.2	534430.
#3	37381.	10133.	538100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.791%	85.214%	95.792%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-009 Acquired: 11/9/2015 21:38:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05720	354.38	.88375	20.770	-.38709	1940.8	.0691
Stddev	.16565	39.81	.45554	.784	.01412	32.7	.0436
%RSD	289.59	11.234	51.547	3.7745	3.6477	1.6839	63.15
#1	.09977	392.18	1.2425	19.870	-.37254	1903.1	.0412
#2	-.04104	312.82	1.0375	21.130	-.38798	1957.6	.1194
#3	-.23033	358.12	.37122	21.309	-.40074	1961.6	.0467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34329	2.7255	6.7481	198.76	490.6	245.9	16.212
Stddev	.09986	.3143	.2755	7.73	37.2	32.7	.207
%RSD	29.089	11.531	4.0823	3.8882	7.582	13.31	1.2797
#1	.25382	2.8431	6.7744	192.80	531.5	252.8	16.342
#2	.45103	2.9641	7.0095	196.00	458.8	210.3	16.322
#3	.32503	2.3694	6.4604	207.50	481.6	274.7	15.973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-009 Acquired: 11/9/2015 21:38:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4784	7991.0	2.8863	11.968	-1.3105	1.7863	793.5
Stddev	.1247	130.7	.1296	.544	.9099	.9055	11.1
%RSD	5.0311	1.6359	4.4914	4.5477	69.428	50.692	1.402
#1	-2.5679	7841.6	2.7946	11.743	-2.2234	1.6068	801.8
#2	-2.5314	8047.4	2.8298	12.589	-1.3046	2.7682	797.7
#3	-2.3360	8084.1	3.0346	11.572	-.40366	.98401	780.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.4533	1.2106	309.44
Stddev	1.1096	.2274	.28
%RSD	32.130	18.785	.09183
#1	-4.7305	1.4253	309.13
#2	-2.9022	1.2341	309.69
#3	-2.7272	.97231	309.50
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-009 Acquired: 11/9/2015 21:38:37 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AF9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38017.	10365.	546080.
Stddev	86.	133.	5611.
%RSD	.22670	1.2792	1.0275
#1	38102.	10483.	540800.
#2	37930.	10390.	545480.
#3	38019.	10221.	551970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.948%	87.821%	97.943%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-010 Acquired: 11/9/2015 21:43:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34247	1667.3	1.3765	328.96	-.82163	8102.0	7.300
Stddev	.14100	28.6	.5012	1.52	.01473	40.8	.241
%RSD	41.171	1.7140	36.413	.46147	1.7932	.50326	3.309
#1	.41138	1690.6	1.9495	328.40	-.83809	8094.0	7.339
#2	.43577	1635.4	1.1605	327.81	-.80969	8065.8	7.041
#3	.18027	1675.9	1.0194	330.68	-.81711	8146.2	7.519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.8811	7.6755	16.765	1531.9	526.7	929.0	56.134
Stddev	.1150	.2607	.787	16.8	27.5	11.9	.706
%RSD	3.9919	3.3969	4.6920	1.0936	5.212	1.277	1.2571
#1	3.0067	7.3866	17.075	1541.0	534.5	942.4	56.590
#2	2.8556	7.7468	15.870	1512.5	496.2	924.9	55.321
#3	2.7809	7.8932	17.348	1542.1	549.5	919.8	56.490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-010 Acquired: 11/9/2015 21:43:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1258	7830.5	4.0797	984.04	1.4417	2.1419	1638.
Stddev	.1486	75.3	.3523	5.58	.5545	1.8486	12.
%RSD	6.9890	.96120	8.6343	.56673	38.465	86.305	.7476
#1	-2.2963	7820.4	3.8967	990.40	1.9598	3.8813	1642.
#2	-2.0237	7760.8	3.8567	981.73	1.5086	.20071	1625.
#3	-2.0575	7910.3	4.4858	979.99	.85675	2.3437	1648.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.7428	5.1486	867.79
Stddev	.8862	.2771	3.93
%RSD	18.685	5.3828	.45331
#1	-4.1035	5.0040	872.16
#2	-4.3705	4.9736	866.66
#3	-5.7544	5.4681	864.54
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-010 Acquired: 11/9/2015 21:43:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37869.	10249.	538900.
Stddev	278.	57.	3442.
%RSD	.73314	.55390	.63867
#1	37751.	10209.	535820.
#2	37669.	10314.	542620.
#3	38186.	10225.	538260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.565%	86.843%	96.655%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-011 Acquired: 11/9/2015 21:48:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09053	3013.5	1.3735	95.300	-.19950	17274.	.5062
Stddev	.21082	188.0	.7944	6.661	.00935	1101.	.1730
%RSD	232.86	6.2378	57.839	6.9896	4.6853	6.3737	34.18
#1	-.11297	3226.0	.74931	102.98	-.20347	18545.	.3306
#2	.07660	2945.7	1.1035	91.082	-.18882	16632.	.5114
#3	.30797	2868.9	2.2678	91.838	-.20621	16644.	.6765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6822	12.031	35.106	3927.1	2480.	1817.	125.17
Stddev	.1515	.619	1.126	267.5	188.	102.	2.41
%RSD	9.0047	5.1411	3.2066	6.8109	7.572	5.629	1.9222
#1	1.5898	11.327	34.222	4234.5	2691.	1932.	122.52
#2	1.8571	12.275	34.723	3747.4	2417.	1783.	125.79
#3	1.5999	12.489	36.373	3799.3	2331.	1736.	127.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-011 Acquired: 11/9/2015 21:48:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.4995	8616.4	7.4183	22.211	-.38959	1.8917	640.5
Stddev	.2009	490.1	.1904	.803	1.5773	.3172	9.9
%RSD	13.397	5.6874	2.5671	3.6149	404.87	16.771	1.550
#1	-1.5672	9180.7	7.2937	22.239	.99632	2.2141	629.3
#2	-1.6579	8297.9	7.6375	21.395	-.05909	1.5799	648.1
#3	-1.2735	8370.6	7.3238	23.000	-2.1060	1.8810	644.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.4261	8.7252	467.38
Stddev	.6016	.2660	.86
%RSD	13.592	3.0483	.18336
#1	-4.1682	8.4218	468.21
#2	-3.9966	8.8358	466.50
#3	-5.1137	8.9180	467.42
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-011 Acquired: 11/9/2015 21:48:15 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37453.	9999.6	540630.
Stddev	124.	433.2	9062.
%RSD	.33105	4.3317	1.6762
#1	37310.	9504.8	551000.
#2	37538.	10310.	536630.
#3	37510.	10184.	534260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.493%	84.727%	96.965%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-012 Acquired: 11/9/2015 21:53:04 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53741	317.08	.12389	31.993	-.46917	2988.9	-.0929
Stddev	.24369	76.42	1.5321	.606	.00805	29.4	.0751
%RSD	45.345	24.101	1236.7	1.8935	1.7165	.98215	80.80
#1	-.72479	398.82	-.05936	31.418	-.46762	2964.3	-.1410
#2	-.62552	305.01	-1.3084	31.935	-.46201	2980.9	-.1313
#3	-.26192	247.41	1.7394	32.625	-.47789	3021.4	-.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.49933	1.9712	6.9819	247.49	1244.	229.8	19.615
Stddev	.08671	.4327	1.0005	13.61	49.	18.7	.311
%RSD	17.365	21.951	14.330	5.5002	3.926	8.139	1.5880
#1	.45090	1.4715	7.9586	247.84	1243.	213.9	19.964
#2	.44765	2.2235	5.9592	233.70	1294.	225.1	19.366
#3	.59943	2.2184	7.0278	260.92	1196.	250.4	19.515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-012 Acquired: 11/9/2015 21:53:04 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5407	6110.3	1.7775	1.9876	5.7027	2.0944	922.5
Stddev	.1745	48.0	.2677	.6281	.5774	1.8962	26.4
%RSD	6.8683	.78564	15.058	31.602	10.125	90.538	2.858
#1	-2.5279	6073.9	2.0858	1.5584	5.1354	1.7109	952.5
#2	-2.3730	6092.4	1.6416	1.6958	6.2898	4.1531	903.3
#3	-2.7213	6164.7	1.6050	2.7085	5.6829	.41926	911.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.1894	1.6286	342.40
Stddev	2.1468	.1787	.40
%RSD	51.242	10.969	.11674
#1	-4.5072	1.6875	342.86
#2	-1.9015	1.4280	342.15
#3	-6.1596	1.7704	342.18
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-012 Acquired: 11/9/2015 21:53:04 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37899.	10243.	546410.
Stddev	127.	20.	8995.
%RSD	.33505	.19988	1.6462
#1	37876.	10220.	536180.
#2	38037.	10248.	553090.
#3	37786.	10259.	549960.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.645%	86.785%	98.002%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-013 Acquired: 11/9/2015 21:57:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02936	577.82	.03576	32.153	-.35243	5609.0	.1463
Stddev	.10687	35.93	.81504	.114	.00992	43.6	.0909
%RSD	364.05	6.2182	2279.0	.35558	2.8145	.77644	62.18
#1	-.12112	557.76	.64878	32.262	-.34490	5560.0	.0717
#2	.08798	556.40	.34769	32.034	-.36367	5623.7	.2476
#3	-.05492	619.30	-.88917	32.162	-.34872	5643.3	.1195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44738	2.5011	16.225	527.59	1630.	459.3	32.161
Stddev	.10444	.2373	.393	13.65	68.	28.9	.231
%RSD	23.346	9.4878	2.4193	2.5863	4.151	6.289	.71725
#1	.49086	2.7372	16.061	531.59	1559.	489.3	32.427
#2	.32822	2.2626	15.940	512.39	1693.	431.7	32.022
#3	.52307	2.5035	16.672	538.79	1638.	456.8	32.034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-013 Acquired: 11/9/2015 21:57:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4111	8867.4	3.0442	6.1613	6.4559	4.3131	767.9
Stddev	.0987	57.0	.2318	.3681	.6441	1.3723	20.3
%RSD	4.0939	.64258	7.6160	5.9737	9.9772	31.817	2.641
#1	-2.3035	8802.2	3.2206	6.3986	7.0191	3.5831	787.8
#2	-2.4974	8892.5	2.7816	5.7373	6.5950	5.8961	768.5
#3	-2.4323	8907.7	3.1303	6.3480	5.7536	3.4600	747.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.9148	3.9175	392.93
Stddev	.9126	.2502	.59
%RSD	18.569	6.3859	.15131
#1	-5.1447	4.1690	393.61
#2	-5.6905	3.9147	392.62
#3	-3.9092	3.6687	392.55
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-013 Acquired: 11/9/2015 21:57:52 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37332.	10006.	539160.
Stddev	120.	50.	6479.
%RSD	.32260	.49791	1.2017
#1	37358.	9997.7	532710.
#2	37200.	9961.3	539110.
#3	37436.	10060.	545670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.182%	84.784%	96.702%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-014 Acquired: 11/9/2015 22:02:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.80110	7627.5	7.3733	227.76	-.64869	70510.	11.86
Stddev	.37527	188.7	.8833	1.19	.01852	278.	.09
%RSD	46.844	2.4739	11.979	.52067	2.8554	.39410	.7642
#1	.78902	7503.8	8.0241	226.49	-.63018	70216.	11.79
#2	1.1823	7844.7	6.3678	228.83	-.66723	70546.	11.96
#3	.43201	7534.0	7.7280	227.96	-.64867	70768.	11.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.0451	27.399	131.71	7370.4	4808.	4482.	223.21
Stddev	.0752	.463	2.17	21.0	86.	32.	3.19
%RSD	1.0673	1.6891	1.6503	.28465	1.781	.7223	1.4281
#1	7.1260	27.404	129.78	7346.5	4787.	4478.	220.85
#2	6.9774	27.859	134.07	7385.8	4902.	4516.	226.84
#3	7.0320	26.934	131.30	7379.0	4735.	4452.	221.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-014 Acquired: 11/9/2015 22:02:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5187	17895.	23.495	114.85	3.2923	2.8031	1645.
Stddev	.1921	71.	.370	.65	2.6712	.1588	23.
%RSD	12.650	.39881	1.5754	.56416	81.134	5.6668	1.417
#1	1.3005	17814.	23.894	114.12	3.4738	2.8138	1639.
#2	1.6624	17925.	23.429	115.33	.53503	2.9564	1671.
#3	1.5933	17946.	23.163	115.12	5.8681	2.6393	1625.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-6.7427	18.892	5951.2
Stddev	.8348	.283	8.6
%RSD	12.381	1.4991	.14518
#1	-7.0270	18.679	5959.9
#2	-5.8029	19.213	5951.2
#3	-7.3982	18.785	5942.6
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-014 Acquired: 11/9/2015 22:02:42 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36277.	10136.	520300.
Stddev	153.	46.	4569.
%RSD	.42054	.45207	.87811
#1	36425.	10128.	523390.
#2	36287.	10094.	515050.
#3	36120.	10185.	522460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	93.465%	85.880%	93.319%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-015 Acquired: 11/9/2015 22:07:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07204	299.05	1.2482	25.491	-.44901	3129.7	.1701
Stddev	.40976	58.41	1.1188	.886	.01497	44.4	.0432
%RSD	568.79	19.532	89.637	3.4769	3.3343	1.4187	25.41
#1	-.20156	271.12	2.5400	24.480	-.43183	3099.9	.2178
#2	-.12546	366.19	.60994	25.857	-.45926	3108.5	.1335
#3	.54314	259.85	.59451	26.135	-.45595	3180.7	.1590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1755	4.8231	11.558	295.85	1154.	304.4	21.913
Stddev	.0673	.1981	.679	9.11	53.	46.9	.378
%RSD	5.7214	4.1068	5.8712	3.0799	4.590	15.41	1.7266
#1	1.2368	4.8750	12.291	285.48	1183.	258.6	22.318
#2	1.1861	4.9900	10.951	299.51	1093.	352.4	21.852
#3	1.1035	4.6042	11.433	302.57	1185.	302.2	21.569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-015 Acquired: 11/9/2015 22:07:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4213	8904.7	2.1877	29.863	-2.1650	2.4974	906.8
Stddev	.3811	100.4	.1852	.890	.2255	1.4848	15.8
%RSD	15.740	1.1279	8.4646	2.9805	10.416	59.454	1.744
#1	-1.9916	8900.4	2.2724	30.374	-1.9385	4.1043	924.3
#2	-2.7186	8806.5	2.3154	28.835	-2.3895	2.2118	902.2
#3	-2.5535	9007.2	1.9754	30.379	-2.1669	1.1761	893.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-5.5164	1.3468	359.97
Stddev	1.2507	.1981	.74
%RSD	22.672	14.709	.20513
#1	-6.7329	1.1811	360.80
#2	-4.2342	1.5662	359.70
#3	-5.5820	1.2930	359.40
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-015 Acquired: 11/9/2015 22:07:31 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37328.	10069.	535760.
Stddev	71.	13.	7722.
%RSD	.18972	.13239	1.4412
#1	37279.	10058.	526930.
#2	37297.	10084.	539080.
#3	37410.	10065.	541270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.174%	85.317%	96.092%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-016 Acquired: 11/9/2015 22:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19910	318.59	.03696	24.745	-.23354	2520.9	.0571
Stddev	.13514	36.05	.53398	1.596	.01677	22.3	.0700
%RSD	67.876	11.315	1444.6	6.4497	7.1809	.88647	122.7
#1	.13371	288.54	-.38853	23.438	-.23596	2499.2	.0522
#2	.10909	358.56	.63617	26.523	-.24897	2519.5	-.0104
#3	.35450	308.67	-.13675	24.273	-.21569	2543.9	.1294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2600	2.1882	19.893	209.95	1206.	184.8	18.598
Stddev	.1069	.1712	.598	12.12	20.	19.6	.196
%RSD	8.4857	7.8232	3.0068	5.7747	1.619	10.62	1.0535
#1	1.1854	2.3766	19.821	199.65	1183.	165.0	18.678
#2	1.2121	2.0421	20.525	223.31	1217.	185.0	18.742
#3	1.3825	2.1460	19.335	206.88	1218.	204.3	18.375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-016 Acquired: 11/9/2015 22:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4184	8192.2	1.3850	16.496	.80019	1.9025	529.8
Stddev	.1749	76.5	.1196	1.099	.64029	.6047	12.8
%RSD	7.2300	.93334	8.6369	6.6606	80.017	31.786	2.421
#1	-2.2676	8124.8	1.4835	16.096	1.1176	2.2089	538.7
#2	-2.3775	8176.6	1.4198	17.739	1.2197	1.2059	535.6
#3	-2.6100	8275.3	1.2519	15.654	.06321	2.2928	515.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.4236	1.2454	314.35
Stddev	.8669	.1324	.61
%RSD	25.321	10.630	.19442
#1	-3.6114	1.3382	313.89
#2	-4.1812	1.3042	314.13
#3	-2.4782	1.0938	315.04
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-016 Acquired: 11/9/2015 22:12:19 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37250.	10130.	538670.
Stddev	88.	97.	3021.
%RSD	.23532	.95399	.56087
#1	37350.	10202.	536830.
#2	37216.	10169.	537030.
#3	37185.	10020.	542160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.972%	85.835%	96.613%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-017 Acquired: 11/9/2015 22:17:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6788	306.70	.54184	22.815	-.24089	2660.4	.1072
Stddev	.3056	100.46	.39381	.520	.00772	9.9	.1716
%RSD	18.201	32.755	72.679	2.2797	3.2037	.37314	160.1
#1	1.9606	387.34	.52734	22.295	-.24750	2651.5	.3052
#2	1.7218	194.17	.94270	22.814	-.23241	2658.6	.0015
#3	1.3541	338.59	.15549	23.335	-.24275	2671.1	.0149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1260	2.1436	7.2565	206.55	1236.	221.6	24.404
Stddev	.1287	.2799	1.2912	20.07	58.	19.7	.811
%RSD	11.428	13.059	17.794	9.7189	4.707	8.898	3.3229
#1	1.1645	1.8440	7.6700	183.79	1265.	228.0	24.216
#2	.98251	2.3985	8.2904	221.75	1275.	199.5	25.293
#3	1.2311	2.1884	5.8092	214.11	1169.	237.3	23.705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-017 Acquired: 11/9/2015 22:17:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3864	7565.2	1.8710	17.660	.01532	1.3020	546.9
Stddev	.3287	36.5	.2444	.890	2.6914	.7007	28.3
%RSD	13.775	.48249	13.061	5.0373	17567.	53.818	5.182
#1	-2.0631	7545.3	1.7685	16.743	3.0339	1.7980	534.8
#2	-2.7203	7543.0	2.1499	18.520	-2.1341	.50039	579.3
#3	-2.3759	7607.3	1.6946	17.718	-.85382	1.6077	526.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.9517	1.0722	331.41
Stddev	.3580	.4799	.88
%RSD	9.0599	44.763	.26648
#1	-4.3628	.87259	332.43
#2	-3.7082	.72425	330.88
#3	-3.7842	1.6197	330.92
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-017 Acquired: 11/9/2015 22:17:08 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37498.	10214.	536590.
Stddev	130.	90.	15301.
%RSD	.34611	.88435	2.8514
#1	37466.	10205.	535460.
#2	37641.	10128.	521890.
#3	37387.	10308.	552430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.611%	86.541%	96.241%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-018 Acquired: 11/9/2015 22:21:59 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.66929	3515.8	2.7900	163.80	-.31553	16130.	3.153
Stddev	.45527	30.8	1.2416	1.63	.00733	164.	.140
%RSD	68.023	.87544	44.502	.99204	2.3231	1.0170	4.452
#1	1.1860	3483.1	2.8089	162.28	-.30714	15942.	3.117
#2	.49476	3544.3	4.0221	163.62	-.31872	16203.	3.308
#3	.32710	3519.9	1.5391	165.51	-.32072	16245.	3.035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.3416	12.305	50.832	2221.5	1152.	1589.	64.352
Stddev	.2048	.158	.944	31.3	78.	28.	.299
%RSD	3.8348	1.2834	1.8573	1.4075	6.813	1.771	.46399
#1	5.3254	12.478	51.242	2192.0	1075.	1562.	64.070
#2	5.5541	12.269	49.752	2218.4	1147.	1618.	64.323
#3	5.1454	12.168	51.502	2254.3	1232.	1588.	64.665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-018 Acquired: 11/9/2015 22:21:59 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1051	8024.2	12.968	1036.2	58.373	2.2208	820.7
Stddev	.1380	98.0	.338	8.0	2.072	.4173	10.5
%RSD	6.5571	1.2212	2.6096	.77346	3.5498	18.789	1.284
#1	-1.9882	7915.0	13.326	1044.9	56.659	1.8827	808.6
#2	-2.2574	8053.4	12.923	1034.6	60.676	2.6871	828.1
#3	-2.0697	8104.3	12.654	1029.2	57.783	2.0926	825.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.6889	4.4091	1491.2
Stddev	.3545	.1352	7.9
%RSD	9.6110	3.0657	.53077
#1	-3.6499	4.3609	1499.0
#2	-4.0613	4.5618	1491.5
#3	-3.3555	4.3047	1483.2
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-018 Acquired: 11/9/2015 22:21:59 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37282.	10015.	524940.
Stddev	99.	102.	4001.
%RSD	.26597	1.0139	.76211
#1	37183.	9986.9	527260.
#2	37280.	9931.1	527240.
#3	37382.	10128.	520320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.054%	84.861%	94.151%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-019 Acquired: 11/9/2015 22:26:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24877	1547.7	.96933	55.867	-.15058	8955.1	.2736
Stddev	.35836	38.4	1.4261	.543	.00815	59.1	.1111
%RSD	144.05	2.4821	147.12	.97237	5.4139	.65951	40.59
#1	-.11923	1592.0	2.1424	55.710	-.14153	8902.2	.3519
#2	.59665	1523.3	1.3835	55.420	-.15733	8944.2	.1465
#3	.26891	1527.9	-.61798	56.472	-.15289	9018.8	.3224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1887	4.6396	25.618	1296.9	2669.	1009.	47.437
Stddev	.0401	.3092	.802	11.4	46.	33.	.561
%RSD	3.3726	6.6634	3.1291	.87527	1.730	3.224	1.1836
#1	1.1556	4.9476	26.378	1292.9	2628.	987.4	48.055
#2	1.2333	4.3293	25.694	1309.8	2719.	1047.	47.297
#3	1.1773	4.6420	24.781	1288.2	2658.	993.8	46.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-019 Acquired: 11/9/2015 22:26:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.7222	11002.	3.8453	64.532	-.69659	3.0078	468.2
Stddev	.1557	86.	.2564	.604	1.5250	.8574	6.3
%RSD	9.0388	.78249	6.6685	.93668	218.92	28.505	1.350
#1	-1.9018	10919.	3.7613	63.836	-2.2170	2.0569	475.4
#2	-1.6280	10997.	4.1332	64.835	-.70566	3.7218	463.6
#3	-1.6367	11091.	3.6415	64.924	.83290	3.2449	465.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.3096	3.6208	413.88
Stddev	.4726	.1274	.68
%RSD	14.280	3.5196	.16392
#1	-2.7766	3.5174	414.09
#2	-3.4744	3.5817	413.12
#3	-3.6777	3.7632	414.43
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-019 Acquired: 11/9/2015 22:26:48 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AG9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37581.	10155.	536170.
Stddev	15.	136.	8308.
%RSD	.03868	1.3364	1.5495
#1	37578.	10186.	526590.
#2	37568.	10272.	541260.
#3	37597.	10006.	540670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.825%	86.040%	96.166%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-020 Acquired: 11/9/2015 22:31:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09195	1093.5	.23511	70.516	-.66375	6972.8	.2441
Stddev	.41256	73.6	.49097	.588	.01546	75.4	.1190
%RSD	448.66	6.7332	208.83	.83426	2.3294	1.0815	48.75
#1	.37147	1034.8	.76234	69.934	-.68105	6911.1	.3794
#2	-.22811	1176.1	.15196	70.504	-.65889	6950.4	.1554
#3	-.41922	1069.6	-.20899	71.111	-.65130	7056.9	.1976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.65122	3.5430	19.316	1000.0	2468.	899.2	37.940
Stddev	.24689	.2544	1.216	23.3	67.	20.0	.486
%RSD	37.911	7.1812	6.2960	2.3278	2.700	2.221	1.2804
#1	.67779	3.2648	19.532	1014.8	2411.	885.7	38.336
#2	.88375	3.6005	20.410	973.19	2452.	889.6	38.087
#3	.39212	3.7638	18.007	1012.0	2542.	922.1	37.398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-020 Acquired: 11/9/2015 22:31:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.2351	14745.	3.5466	67.684	.36052	1.6180	1337.
Stddev	.1989	104.	.2718	.732	1.8495	1.1092	28.
%RSD	8.8974	.70812	7.6625	1.0809	513.02	68.554	2.125
#1	-2.2390	14640.	3.8597	66.845	-.15797	2.8004	1365.
#2	-2.4320	14745.	3.4084	68.020	2.4140	.60047	1339.
#3	-2.0343	14849.	3.3718	68.188	-1.1744	1.4530	1308.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-5.1567	3.7407	492.03
Stddev	1.8824	.2277	1.38
%RSD	36.504	6.0872	.27979
#1	-6.6814	3.6973	493.56
#2	-3.0528	3.9870	491.63
#3	-5.7361	3.5378	490.89
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-020 Acquired: 11/9/2015 22:31:38 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37302.	10104.	533580.
Stddev	138.	66.	5236.
%RSD	.36870	.65305	.98134
#1	37273.	10147.	529630.
#2	37181.	10136.	531600.
#3	37451.	10028.	539520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.105%	85.611%	95.701%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-021 Acquired: 11/9/2015 22:36:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12973	1012.9	1.0320	562.29	-.57122	10306.	5.386
Stddev	.25594	60.7	.6471	6.16	.00465	58.	.129
%RSD	197.29	5.9935	62.709	1.0956	.81430	.55970	2.397
#1	.28089	1025.7	1.5066	555.47	-.57150	10242.	5.391
#2	.27407	1066.1	.29482	563.96	-.57573	10321.	5.513
#3	-.16577	946.77	1.2945	567.45	-.56644	10355.	5.255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.3145	3.7908	29.999	1096.6	2096.	1300.	51.234
Stddev	.1152	.3567	.615	19.3	75.	29.	.756
%RSD	3.4763	9.4093	2.0497	1.7588	3.577	2.211	1.4758
#1	3.1914	4.1775	30.693	1078.1	2098.	1331.	52.014
#2	3.4197	3.7200	29.520	1116.6	2020.	1274.	51.184
#3	3.3325	3.4748	29.786	1095.1	2170.	1295.	50.504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-021 Acquired: 11/9/2015 22:36:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.0592	29811.	4.7947	124.11	.12201	1.6038	1159.
Stddev	.0731	154.	.1136	1.12	1.5639	.8295	26.
%RSD	3.5515	.51648	2.3690	.90273	1281.8	51.717	2.254
#1	-2.1423	29662.	4.6635	124.64	-1.6479	.64731	1179.
#2	-2.0306	29803.	4.8611	124.86	.69675	2.0398	1168.
#3	-2.0047	29969.	4.8594	122.82	1.3172	2.1244	1129.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-5.5122	4.4857	935.15
Stddev	.4666	.2078	2.29
%RSD	8.4654	4.6322	.24512
#1	-5.8361	4.5774	937.35
#2	-5.7231	4.2478	932.77
#3	-4.9773	4.6318	935.34
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ20027-021 Acquired: 11/9/2015 22:36:27 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AH2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36670.	10174.	534930.
Stddev	142.	100.	10513.
%RSD	.38849	.98075	1.9653
#1	36530.	10174.	523120.
#2	36815.	10075.	538430.
#3	36666.	10274.	543250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.478%	86.208%	95.943%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV007 Acquired: 11/9/2015 22:41:15 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -.07649	F -6.7788	F -.60344	F .32246	F .06679	F -6.1867	F -.0679
Stddev	.07358	65.863	1.2702	.61127	.00579	10.003	.1856
%RSD	96.192	971.60	210.49	189.56	8.6699	161.68	273.5
#1	-.15849	-43.112	-.18410	-.36513	.06411	-13.658	.0314
#2	-.01624	69.248	-2.0303	.80434	.06283	-10.080	.0470
#3	-.05473	-46.472	.40402	.52818	.07344	5.1773	-.2820
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	750.00	50000.	2500.0	10000.	1000.0	50000.	1000.
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -.00986	F -.19954	F -.50234	F 3.8565	F -10.96	F -24.03	F -.06373
Stddev	.12204	.19995	.29866	4.1931	35.18	24.41	.03327
%RSD	1238.2	100.21	59.455	108.73	321.0	101.6	52.198
#1	.00935	-.38386	-.20255	-.81982	-45.90	-38.03	-.04169
#2	.10144	-.22777	-.79987	5.1079	24.46	4.160	-.10200
#3	-.14036	.01303	-.50459	7.2813	-11.44	-38.22	-.04750
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	5000.0	10000.	12500.	25000.	37500.	50000.	5000.0
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%	-10.00%	-10.000%

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV007 Acquired: 11/9/2015 22:41:15 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -2.9556	F -20.403	F .07938	F -.08919	F -1.0972	F .53958	F .5637
Stddev	.1993	26.313	.25073	.93889	1.3575	.78421	.2332
%RSD	6.7419	128.97	315.87	1052.7	123.72	145.34	41.37
#1	-2.8057	-11.601	-.02513	-.81705	-2.5613	.98593	.7474
#2	-2.8795	.3818	-.10219	-.42109	-.85020	.99873	.6422
#3	-3.1818	-49.989	.36545	.97057	.11976	-.36591	.3013
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	1000.0	25000.	5000.0	10000.	2500.0	1250.0	1000.
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F -1.2309	F .16123	F -.19605
Stddev	1.1843	.22787	.06303
%RSD	96.216	141.33	32.149
#1	-.98475	.38563	-.12355
#2	-.18899	.16802	-.23779
#3	-2.5190	-.06996	-.22682
Check ?	Chk Fail	Chk Fail	Chk Fail
Value	1000.0	2500.0	5000.0
Range	-10.000%	-10.000%	-10.000%

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV007 Acquired: 11/9/2015 22:41:15 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	39477.	10623.	570400.
Stddev	70.	59.	3740.
%RSD	.17664	.55188	.65570
#1	39422.	10669.	569850.
#2	39454.	10557.	566960.
#3	39555.	10643.	574380.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB007 Acquired: 11/9/2015 22:46:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 778.57	F 49512.	F 2578.2	F 10206.	F 1043.9	F 50111.	F 1037.
Stddev	15.27	460.	6.3	58.	34.8	323.	1.
%RSD	1.9612	.92861	.24479	.57003	3.3313	.64392	.0768
#1	761.43	49581.	2571.1	10222.	1009.9	50264.	1037.
#2	790.72	49022.	2583.3	10142.	1079.4	49740.	1037.
#3	783.57	49933.	2580.2	10255.	1042.4	50328.	1038.
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	10.000	200.00	10.000	200.00	5.0000	5000.0	5.000
Low Limit	-10.000	-200.00	-10.000	-200.00	-5.0000	-5000.0	-5.000

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 5020.9	F 10236.	F 12302.	F 24844.	F 39580.	F 50940.	F 4966.5
Stddev	4.9	204.	371.	175.	221.	318.	56.2
%RSD	.09792	1.9917	3.0151	.70438	.5575	.6245	1.1308
#1	5016.8	10007.	11883.	24887.	39590.	51150.	4913.3
#2	5019.6	10396.	12587.	24651.	39350.	50570.	4961.1
#3	5026.4	10306.	12436.	24993.	39790.	51090.	5025.2
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	50.000	10.000	25.000	100.00	5000.	5000.	15.000
Low Limit	-50.000	-10.000	-25.000	-100.00	-5000.	-5000.	-15.000

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB007 Acquired: 11/9/2015 22:46:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1008.4	F 27580.	F 4922.4	F 9767.5	F 2569.7	F 1285.0	F 1010.
Stddev	.8	174.	7.7	17.8	1.1	4.2	20.
%RSD	.08021	.62917	.15706	.18245	.04261	.32989	1.988
#1	1007.9	27667.	4914.7	9747.8	2570.6	1282.6	987.1
#2	1008.0	27380.	4922.3	9772.1	2570.0	1282.5	1025.
#3	1009.3	27693.	4930.1	9782.6	2568.5	1289.9	1017.
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	50.000	3000.0	40.000	10.000	60.000	35.000	50.00
Low Limit	-50.000	-3000.0	-40.000	-10.000	-60.000	-35.000	-50.00

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	F 979.96	F 2556.7	F 5078.3
Stddev	5.47	51.7	12.1
%RSD	.55826	2.0217	.23815
#1	973.67	2498.1	5066.4
#2	982.60	2596.0	5077.7
#3	983.61	2575.9	5090.6
Check ?	Chk Fail	Chk Fail	Chk Fail
High Limit	25.000	50.000	60.000
Low Limit	-25.000	-50.000	-60.000

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB007 Acquired: 11/9/2015 22:46:05 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36042.	10392.	529570.
Stddev	244.	101.	9148.
%RSD	.67637	.97399	1.7274
#1	36314.	10299.	538830.
#2	35968.	10378.	520540.
#3	35843.	10500.	529350.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88726-001 Acquired: 11/9/2015 22:51:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09111	13.305	-.73230	12.007	.04167	138.03	-.1172
Stddev	.21006	100.60	1.1759	.866	.00425	6.47	.0772
%RSD	230.55	756.13	160.57	7.2137	10.192	4.6886	65.88
#1	.32987	-75.597	-.71610	11.061	.04271	137.80	-.2063
#2	-.06534	-6.9957	-1.9162	12.761	.04531	144.61	-.0741
#3	.00881	122.51	.43539	12.198	.03701	131.67	-.0711
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10932	.73600	2.2090	20.658	231.5	20.11	7.8146
Stddev	.10194	.19591	.3209	14.640	76.2	42.63	.1037
%RSD	93.248	26.618	14.528	70.867	32.91	212.0	1.3266
#1	.16721	.73379	2.2304	37.282	143.6	3.107	7.9340
#2	-.00838	.54121	2.5186	15.004	278.6	-11.40	7.7627
#3	.16913	.93301	1.8779	9.6888	272.4	68.62	7.7471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88726-001 Acquired: 11/9/2015 22:51:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2722	1943.8	.79182	-.61176	-1.3133	2.7053	96.17
Stddev	.2067	22.4	.26331	.18323	1.3354	.5550	1.45
%RSD	16.247	1.1506	33.254	29.951	101.68	20.517	1.509
#1	-1.0566	1925.9	1.0297	-.81330	-.00703	2.3178	97.68
#2	-1.4687	1968.9	.83689	-.56676	-1.2568	2.4569	96.03
#3	-1.2912	1936.6	.50888	-.45523	-2.6761	3.3411	94.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.3565	.44249	294.95
Stddev	1.4537	.18499	.42
%RSD	107.17	41.806	.14153
#1	-.00303	.25275	295.43
#2	-2.8932	.62233	294.72
#3	-1.1734	.45238	294.70
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88726-001 Acquired: 11/9/2015 22:51:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38353.	10275.	552550.
Stddev	19.	81.	10982.
%RSD	.04924	.78672	1.9875
#1	38333.	10323.	540020.
#2	38370.	10319.	560470.
#3	38355.	10181.	557170.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.812%	87.056%	99.104%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88726-002 Acquired: 11/9/2015 22:56:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.625	435.86	18.594	401.09	9.8376	9890.8	9.592
Stddev	.095	88.95	1.477	4.19	.1736	124.8	.159
%RSD	.45871	20.408	7.9407	1.0439	1.7641	1.2617	1.653
#1	20.568	481.88	19.988	396.30	9.6745	9748.2	9.744
#2	20.734	333.33	18.746	404.06	9.8183	9944.1	9.427
#3	20.574	492.36	17.047	402.91	10.020	9980.1	9.606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.993	20.260	49.973	204.61	10280.	9815.	39.608
Stddev	.399	.411	1.102	12.81	147.	121.	.596
%RSD	.41978	2.0302	2.2045	6.2590	1.425	1.235	1.5053
#1	95.426	19.800	49.554	207.32	10110.	9675.	39.102
#2	94.913	20.387	49.142	190.66	10380.	9883.	39.456
#3	94.640	20.593	51.222	215.84	10350.	9886.	40.265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88726-002 Acquired: 11/9/2015 22:56:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.2723	12702.	74.998	18.396	103.97	68.535	70.27
Stddev	.0421	125.	.626	.789	1.27	.653	1.35
%RSD	1.8511	.98170	.83477	4.2882	1.2182	.95209	1.927
#1	-2.2719	12558.	75.507	18.370	105.21	67.803	71.38
#2	-2.2304	12769.	74.299	19.198	102.68	69.055	68.76
#3	-2.3146	12779.	75.189	17.621	104.00	68.747	70.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	41.942	96.906	443.03
Stddev	1.461	1.777	1.23
%RSD	3.4842	1.8334	.27695
#1	42.280	95.260	444.20
#2	43.204	96.668	443.14
#3	40.341	98.790	441.75
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QQ88726-002 Acquired: 11/9/2015 22:56:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37479.	10159.	535160.
Stddev	117.	91.	7656.
%RSD	.31256	.89100	1.4306
#1	37584.	10135.	541110.
#2	37353.	10083.	537840.
#3	37501.	10259.	526520.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.562%	86.079%	95.984%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-001 Acquired: 11/9/2015 23:00:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09445	322.51	.83691	52.151	.03562	3263.3	.0531
Stddev	.19091	39.94	.30760	.293	.01587	9.1	.1348
%RSD	202.12	12.385	36.754	.56150	44.546	.27838	253.7
#1	.05230	361.47	1.1577	52.389	.03296	3262.3	-.0082
#2	-.31028	281.66	.54443	51.824	.05264	3254.7	-.0401
#3	-.02537	324.40	.80862	52.240	.02125	3272.8	.2076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.56400	7.5766	36.215	339.46	2413.	296.4	32.390
Stddev	.06809	.6293	.952	6.72	51.	19.6	.177
%RSD	12.073	8.3063	2.6289	1.9794	2.094	6.596	.54754
#1	.50441	7.1412	35.840	346.98	2453.	308.3	32.546
#2	.54938	8.2982	37.297	334.03	2430.	273.8	32.427
#3	.63822	7.2904	35.507	337.37	2356.	307.0	32.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-001 Acquired: 11/9/2015 23:00:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.9654	11255.	4.1360	14.684	1.2002	1.6999	89.75
Stddev	.0941	44.	.2152	.873	2.4675	1.0128	.23
%RSD	4.7874	.39346	5.2030	5.9418	205.60	59.579	.2571
#1	-1.9873	11262.	4.0131	13.680	-.99318	2.1064	89.50
#2	-2.0466	11207.	4.0104	15.118	3.8719	2.4464	89.81
#3	-1.8623	11295.	4.3844	15.255	.72187	.54704	89.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.8222	.74298	717.32
Stddev	.4511	.30312	18.58
%RSD	24.755	40.797	2.5905
#1	-2.0156	.46633	728.51
#2	-2.1443	1.0670	727.58
#3	-1.3066	.69562	695.87
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-001 Acquired: 11/9/2015 23:00:51 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38018.	10203.	539080.
Stddev	753.	40.	5561.
%RSD	1.9804	.39005	1.0316
#1	37717.	10246.	536180.
#2	37462.	10166.	535560.
#3	38875.	10198.	545490.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.950%	86.454%	96.686%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-002 Acquired: 11/9/2015 23:05:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03618	171.97	1.4755	19.575	.01598	1808.0	-.2045
Stddev	.13969	43.37	.7966	.368	.00601	18.7	.2583
%RSD	386.06	25.219	53.991	1.8799	37.591	1.0342	126.3
#1	-.18602	166.71	2.3813	19.822	.01724	1789.5	.0921
#2	.09045	217.73	.88371	19.152	.02125	1807.6	-.3262
#3	-.01298	131.47	1.1615	19.752	.00944	1826.9	-.3796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35654	1.8045	6.5033	160.47	1590.	239.2	20.513
Stddev	.14731	.0636	.3046	16.39	35.	22.9	.104
%RSD	41.315	3.5243	4.6833	10.215	2.177	9.552	.50524
#1	.18655	1.7774	6.7651	172.46	1601.	216.3	20.453
#2	.44680	1.8772	6.5758	167.16	1618.	262.0	20.633
#3	.43626	1.7590	6.1690	141.79	1551.	239.3	20.454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-002 Acquired: 11/9/2015 23:05:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3447	9626.9	1.2689	5.5351	.36435	1.8142	89.93
Stddev	.0179	128.4	.2326	.5776	1.6580	.5102	.50
%RSD	.76330	1.3337	18.330	10.434	455.05	28.124	.5594
#1	-2.3457	9479.9	1.0850	5.2672	2.2403	2.0568	89.56
#2	-2.3621	9684.1	1.1914	5.1401	-.90430	1.2280	90.50
#3	-2.3263	9716.9	1.5303	6.1979	-.24300	2.1580	89.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.6457	.71586	426.00
Stddev	.3909	.14888	.90
%RSD	10.722	20.797	.21195
#1	-3.5028	.58701	426.92
#2	-3.3464	.87883	425.97
#3	-4.0880	.68173	425.11
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-002 Acquired: 11/9/2015 23:05:41 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36938.	10039.	528360.
Stddev	93.	34.	1290.
%RSD	.25276	.34210	.24407
#1	36850.	10068.	529710.
#2	36928.	10001.	527140.
#3	37036.	10047.	528230.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.168%	85.059%	94.764%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-003 Acquired: 11/9/2015 23:10:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25758	146.76	.44212	12.924	.03550	1524.7	-.0262
Stddev	.48814	74.51	1.0073	.683	.00815	27.8	.0874
%RSD	189.51	50.768	227.82	5.2881	22.968	1.8249	333.6
#1	.29559	129.68	-.72003	13.203	.04426	1493.6	-.0870
#2	-.62787	82.274	1.0633	13.424	.02812	1533.4	-.0657
#3	-.44046	228.32	.98304	12.145	.03412	1547.2	.0740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13103	1.0421	24.551	94.874	1278.	127.2	9.0419
Stddev	.14177	.1136	1.347	19.641	7.	24.6	.1454
%RSD	108.20	10.898	5.4878	20.702	.5246	19.35	1.6077
#1	-.02025	1.0504	26.086	74.206	1271.	102.1	9.2055
#2	.26084	.92458	24.004	113.29	1277.	151.3	8.9275
#3	.15250	1.1513	23.564	97.121	1284.	128.1	8.9928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-003 Acquired: 11/9/2015 23:10:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5419	8571.5	1.3105	.79719	-.22687	.82023	65.22
Stddev	.2742	113.1	.2525	.49377	1.4090	2.1025	.90
%RSD	10.788	1.3191	19.265	61.939	621.05	256.33	1.376
#1	-2.8190	8452.8	1.5476	.23131	-.65780	1.8865	66.20
#2	-2.5361	8583.8	1.3390	1.0198	1.3472	-1.6018	64.44
#3	-2.2707	8678.0	1.0450	1.1405	-1.3700	2.1760	65.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.0986	.31416	464.32
Stddev	.5262	.05943	1.65
%RSD	16.983	18.918	.35500
#1	-2.7178	.37765	465.84
#2	-2.8789	.30497	464.54
#3	-3.6991	.25986	462.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-003 Acquired: 11/9/2015 23:10:32 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AP9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37715.	10275.	548210.
Stddev	220.	137.	4145.
%RSD	.58206	1.3301	.75614
#1	37536.	10308.	543420.
#2	37960.	10124.	550790.
#3	37649.	10391.	550400.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.170%	87.057%	98.324%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-004 Acquired: 11/9/2015 23:15:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00655	4792.2	2.8775	114.01	.14391	33149.	2.594
Stddev	.19985	233.5	.5990	5.19	.01384	1289.	.090
%RSD	3052.6	4.8717	20.815	4.5488	9.6200	3.8876	3.485
#1	-.21832	4700.4	2.5038	114.37	.14289	33108.	2.517
#2	.01995	4618.6	3.5684	108.65	.15824	31881.	2.573
#3	.17873	5057.6	2.5604	119.01	.13060	34458.	2.694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.896	16.027	55.909	6313.7	1877.	3835.	191.56
Stddev	.235	.217	2.003	247.0	42.	159.	4.56
%RSD	1.4800	1.3524	3.5829	3.9125	2.213	4.138	2.3782
#1	16.159	15.866	55.486	6330.7	1920.	3869.	190.25
#2	15.822	16.273	58.089	6058.7	1837.	3662.	196.63
#3	15.707	15.942	54.151	6551.8	1876.	3974.	187.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-004 Acquired: 11/9/2015 23:15:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.91060	9251.9	9.9763	95.277	.66546	1.3351	264.4
Stddev	.23626	366.9	.3869	.725	1.1689	1.9408	6.3
%RSD	25.945	3.9652	3.8781	.76065	175.65	145.36	2.401
#1	-1.1825	9216.5	10.423	95.486	1.9137	2.5008	263.3
#2	-.75535	8904.0	9.7486	95.873	-.40331	2.4099	271.2
#3	-.79395	9635.1	9.7573	94.470	.48598	-.90531	258.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.5237	13.684	2306.7
Stddev	.7975	.074	26.5
%RSD	22.633	.53987	1.1484
#1	-4.4437	13.764	2334.5
#2	-3.0278	13.668	2303.8
#3	-3.0996	13.619	2281.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-004 Acquired: 11/9/2015 23:15:21 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37172.	10273.	520300.
Stddev	237.	227.	8876.
%RSD	.63859	2.2075	1.7059
#1	36900.	10255.	523860.
#2	37278.	10508.	510200.
#3	37338.	10056.	526840.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.771%	87.043%	93.319%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-005 Acquired: 11/9/2015 23:20:11 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03862	445.95	-.53784	25.580	.05611	2918.2	.2438
Stddev	.31163	45.65	1.4070	.456	.01185	25.2	.0340
%RSD	806.83	10.237	261.61	1.7813	21.124	.86420	13.96
#1	-.17091	482.48	-1.3754	25.942	.06887	2909.6	.2695
#2	.39673	460.61	1.0866	25.068	.05400	2898.4	.2566
#3	-.10995	394.78	-1.3246	25.729	.04545	2946.6	.2052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.81162	1.5916	4.8735	354.77	805.9	306.6	30.819
Stddev	.07198	.2147	.8693	1.63	48.9	49.9	.609
%RSD	8.8691	13.486	17.837	.45852	6.066	16.27	1.9771
#1	.88440	1.5412	5.7618	353.73	839.6	274.3	30.778
#2	.80999	1.4067	4.0246	356.64	749.8	364.1	30.231
#3	.74047	1.8270	4.8342	353.93	828.2	281.4	31.447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-005 Acquired: 11/9/2015 23:20:11 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4273	7519.1	1.0744	12.753	-1.2870	-.09771	64.65
Stddev	.2348	67.0	.1917	1.328	1.7693	2.4287	.74
%RSD	9.6717	.89173	17.843	10.413	137.47	2485.7	1.147
#1	-2.2257	7455.9	1.0073	11.325	-3.1506	.19737	65.19
#2	-2.6850	7512.0	.92530	12.982	.36988	-2.6605	63.80
#3	-2.3710	7589.4	1.2907	13.952	-1.0803	2.1700	64.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.1077	.93590	351.41
Stddev	.1379	.04330	.49
%RSD	4.4387	4.6270	.13841
#1	-3.2052	.94347	351.96
#2	-3.1679	.88932	351.04
#3	-2.9499	.97493	351.24
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-005 Acquired: 11/9/2015 23:20:11 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37286.	10146.	533320.
Stddev	67.	37.	7884.
%RSD	.17841	.36604	1.4782
#1	37352.	10115.	535960.
#2	37287.	10187.	539560.
#3	37219.	10135.	524460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.064%	85.966%	95.655%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-006 Acquired: 11/9/2015 23:25:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17186	760.34	.46715	44.954	-.00314	3627.6	.1886
Stddev	.44486	40.45	.78481	.981	.00335	15.5	.0825
%RSD	258.85	5.3196	168.00	2.1813	106.72	.42683	43.74
#1	-.10387	747.98	1.2157	43.963	-.00489	3616.4	.2420
#2	-.06561	805.52	-.34946	44.976	.00072	3621.2	.0936
#3	.68506	727.51	.53518	45.923	-.00526	3645.3	.2303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3822	2.5296	6.4523	640.10	1224.	479.5	47.643
Stddev	.2490	.3437	.2419	14.37	42.	12.4	.219
%RSD	18.016	13.586	3.7487	2.2451	3.425	2.581	.45986
#1	1.6697	2.8809	6.7312	654.43	1176.	467.1	47.881
#2	1.2438	2.1942	6.3250	625.69	1239.	479.6	47.450
#3	1.2333	2.5137	6.3006	640.17	1255.	491.9	47.597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-006 Acquired: 11/9/2015 23:25:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3193	8551.9	2.0728	21.034	-.53116	-.15179	148.5
Stddev	.3455	26.7	.2796	1.117	3.3756	4.2090	2.9
%RSD	14.895	.31179	13.490	5.3122	635.51	2772.9	1.952
#1	-2.7169	8541.6	2.2625	22.183	-3.1930	-3.0048	150.4
#2	-2.1476	8532.0	2.2042	19.951	3.2656	4.6822	150.1
#3	-2.0932	8582.2	1.7517	20.969	-1.6660	-2.1327	145.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.7857	1.6831	359.84
Stddev	1.2070	.1178	1.16
%RSD	31.884	7.0001	.32136
#1	-3.1433	1.7591	361.15
#2	-3.0356	1.7428	359.40
#3	-5.1780	1.5474	358.97
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-006 Acquired: 11/9/2015 23:25:00 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37082.	10020.	545880.
Stddev	133.	57.	4045.
%RSD	.35965	.57280	.74099
#1	36972.	9958.2	542190.
#2	37230.	10031.	550210.
#3	37044.	10072.	545250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.539%	84.900%	97.907%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-007 Acquired: 11/9/2015 23:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31441	550.34	-.54100	48.796	.06138	3395.1	.2954
Stddev	.12183	43.58	1.0175	.514	.00463	25.3	.2737
%RSD	38.749	7.9183	188.08	1.0524	7.5385	.74405	92.65
#1	.45495	576.78	-1.2387	48.236	.05798	3381.9	.5420
#2	.24934	574.19	.62655	48.908	.06665	3379.2	.3432
#3	.23893	500.04	-1.0108	49.244	.05951	3424.2	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.58904	3.5257	7.3459	577.00	793.6	396.4	41.729
Stddev	.08679	.2425	.4405	2.28	47.9	19.9	.407
%RSD	14.735	6.8782	5.9970	.39525	6.035	5.031	.97610
#1	.49648	3.4137	7.5620	575.46	758.7	414.6	42.080
#2	.66860	3.3594	7.6366	579.62	773.9	375.1	41.825
#3	.60202	3.8040	6.8390	575.93	848.2	399.4	41.282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-007 Acquired: 11/9/2015 23:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5832	6978.7	2.1958	19.156	1.1522	.00309	69.63
Stddev	.1003	110.1	.1541	1.016	1.2300	1.7006	2.28
%RSD	3.8842	1.5775	7.0191	5.3059	106.75	55020.	3.280
#1	-2.5330	6859.2	2.0218	19.199	2.1503	-1.6517	72.21
#2	-2.5178	7001.0	2.3150	18.118	1.5282	-.08519	68.84
#3	-2.6987	7076.0	2.2507	20.150	-.22186	1.7461	67.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.9829	1.4235	385.43
Stddev	.5876	.2868	1.81
%RSD	29.634	20.150	.47056
#1	-2.5717	1.7251	387.20
#2	-1.9805	1.1542	385.52
#3	-1.3965	1.3911	383.58
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-007 Acquired: 11/9/2015 23:29:49 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37424.	10165.	543680.
Stddev	195.	83.	6323.
%RSD	.52074	.81622	1.1630
#1	37468.	10123.	538290.
#2	37211.	10260.	542120.
#3	37593.	10111.	550640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.420%	86.126%	97.513%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-008 Acquired: 11/9/2015 23:34:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1241	10578.	103.61	2835.5	.34755	88196.	135.9
Stddev	.3537	202.	1.65	20.3	.02240	633.	.2
%RSD	31.465	1.9078	1.5949	.71454	6.4450	.71790	.1114
#1	1.4096	10345.	102.84	2812.2	.33634	87481.	135.8
#2	1.2344	10700.	105.51	2845.3	.33297	88420.	135.8
#3	.72842	10689.	102.48	2849.0	.37334	88686.	136.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.961	183.46	142.32	26487.	4449.	8986.	465.04
Stddev	.180	4.83	3.67	197.	46.	124.	12.12
%RSD	.43848	2.6307	2.5752	.74239	1.031	1.384	2.6056
#1	40.777	181.70	142.41	26276.	4396.	8846.	461.81
#2	41.136	179.76	138.61	26519.	4474.	9081.	454.86
#3	40.970	188.92	145.94	26665.	4476.	9033.	478.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-008 Acquired: 11/9/2015 23:34:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4400	11462.	22.586	10336.	29.816	5.0830	431.4
Stddev	.0853	76.	.280	6.	.354	2.1760	11.9
%RSD	5.9268	.66580	1.2375	.05478	1.1864	42.810	2.755
#1	1.5054	11374.	22.873	10337.	30.161	6.6449	428.9
#2	1.3435	11501.	22.572	10330.	29.454	6.0066	421.0
#3	1.4712	11511.	22.314	10341.	29.832	2.5975	444.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.6712	29.991	F 24591.
Stddev	1.5368	1.048	130.
%RSD	57.531	3.4941	.53018
#1	-2.4882	29.764	24690.
#2	-4.2913	29.075	24640.
#3	-1.2341	31.133	24443.
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			10000.
Low Limit			-10000.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-008 Acquired: 11/9/2015 23:34:39 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	36029.	10052.	519710.
Stddev	107.	77.	11694.
%RSD	.29594	.76865	2.2501
#1	35915.	9972.2	526670.
#2	36126.	10057.	526260.
#3	36044.	10127.	506210.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	92.825%	85.169%	93.213%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-009 Acquired: 11/9/2015 23:39:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29312	259.16	-.09558	11.378	.00005	1735.6	-.0340
Stddev	.42794	94.81	1.1589	.988	.00600	13.6	.2504
%RSD	146.00	36.585	1212.5	8.6863	12584.	.78213	736.5
#1	-.77319	214.85	-.70858	12.428	-.00379	1722.7	.2455
#2	.04828	194.62	1.2411	10.466	.00696	1749.8	-.2380
#3	-.15444	368.02	-.81929	11.240	-.00302	1734.3	-.1096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17832	1.3020	5.4068	132.55	347.2	129.0	27.314
Stddev	.11367	.0863	.5549	4.70	42.6	19.2	.311
%RSD	63.745	6.6297	10.264	3.5456	12.26	14.86	1.1391
#1	.30945	1.2995	4.7661	131.92	370.3	145.2	27.363
#2	.10760	1.3895	5.7366	128.19	373.2	134.0	27.598
#3	.11792	1.2169	5.7176	137.53	298.1	107.8	26.981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-009 Acquired: 11/9/2015 23:39:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3739	6353.4	.68871	2.5222	1.1580	2.6000	116.9
Stddev	.0886	57.8	.10108	1.0076	.6577	1.6111	2.4
%RSD	3.7326	.90905	14.677	39.950	56.798	61.965	2.031
#1	-2.2717	6305.2	.67666	2.6149	.62562	2.2299	118.6
#2	-2.4280	6337.6	.79527	1.4714	1.8933	4.3640	118.0
#3	-2.4222	6417.4	.59418	3.4803	.95518	1.2062	114.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.1664	.71715	243.82
Stddev	1.5612	.47409	.79
%RSD	49.306	66.107	.32583
#1	-1.3850	.21788	244.59
#2	-4.2965	1.1612	243.88
#3	-3.8177	.77234	243.00
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-009 Acquired: 11/9/2015 23:39:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37411.	10004.	538670.
Stddev	99.	64.	8218.
%RSD	.26459	.64291	1.5257
#1	37404.	10057.	534870.
#2	37316.	10023.	533030.
#3	37514.	9932.8	548100.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.387%	84.768%	96.613%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-010 Acquired: 11/9/2015 23:44:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.40489	201.21	-.47796	13.210	.02769	1598.4	-.0374
Stddev	.15948	54.60	.83777	1.021	.00965	21.7	.1084
%RSD	39.388	27.134	175.28	7.7301	34.850	1.3568	289.6
#1	-.58878	141.18	-.42038	13.654	.01655	1579.9	.0796
#2	-.32142	247.90	-1.3430	12.042	.03339	1592.9	-.0574
#3	-.30447	214.56	.32953	13.934	.03314	1622.2	-.1345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11517	1.6370	5.0920	131.55	583.7	122.3	28.760
Stddev	.21496	.4377	.7730	7.67	83.1	28.3	.365
%RSD	186.64	26.741	15.181	5.8284	14.24	23.10	1.2681
#1	.28703	2.0447	5.0008	131.08	501.3	96.31	28.868
#2	.18434	1.6920	5.9065	124.13	582.2	152.4	29.058
#3	-.12586	1.1744	4.3686	139.45	667.5	118.3	28.353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-010 Acquired: 11/9/2015 23:44:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.5564	7188.4	1.1769	2.0469	.10828	.88206	94.19
Stddev	.3171	81.3	.2647	.3939	1.2086	.51498	.89
%RSD	12.406	1.1306	22.490	19.246	1116.2	58.383	.9452
#1	-2.3135	7139.4	.88805	2.3872	-1.2849	.33195	94.32
#2	-2.9152	7143.7	1.4078	2.1380	.73328	.96159	95.00
#3	-2.4404	7282.2	1.2349	1.6154	.87642	1.3527	93.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.5684	.50395	344.61
Stddev	.7708	.59823	2.52
%RSD	21.600	118.71	.73195
#1	-2.8257	.93705	347.48
#2	-3.5150	-.17865	343.62
#3	-4.3645	.75345	342.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-010 Acquired: 11/9/2015 23:44:23 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37880.	10080.	534300.
Stddev	139.	108.	5694.
%RSD	.36783	1.0714	1.0656
#1	37752.	10180.	533170.
#2	38028.	10095.	529260.
#3	37861.	9965.5	540480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.596%	85.409%	95.831%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-011 Acquired: 11/9/2015 23:49:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11136	94.063	-.19791	12.655	.03555	1748.4	-.0134
Stddev	.22899	81.136	.46654	.566	.00201	10.1	.1160
%RSD	205.62	86.257	235.73	4.4709	5.6574	.57667	863.7
#1	.35523	178.09	-.22096	12.091	.03435	1741.4	.0000
#2	-.09907	16.164	.27973	12.652	.03788	1743.8	-.1356
#3	.07794	87.935	-.65251	13.223	.03444	1759.9	.0953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25516	.95950	4.6484	111.72	620.0	141.4	24.086
Stddev	.09292	.15251	1.0275	5.35	44.5	5.4	.445
%RSD	36.418	15.895	22.105	4.7914	7.182	3.836	1.8463
#1	.35865	.85795	4.8913	109.35	579.4	139.3	24.586
#2	.22797	1.1349	5.5326	107.97	667.7	147.6	23.938
#3	.17887	.88568	3.5212	117.85	613.0	137.4	23.734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-011 Acquired: 11/9/2015 23:49:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6770	5570.4	.64630	2.3906	-1.5548	1.4878	73.11
Stddev	.2252	54.0	.09591	.3353	1.4205	1.7754	2.01
%RSD	8.4112	.97027	14.840	14.026	91.360	119.33	2.744
#1	-2.4171	5509.3	.55832	2.5846	-3.0935	3.4751	73.40
#2	-2.8131	5590.3	.63205	2.0034	-.29357	.93039	74.95
#3	-2.8008	5611.8	.74854	2.5837	-1.2773	.05796	70.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.8070	.51039	310.73
Stddev	.6489	.41679	3.76
%RSD	35.912	81.661	1.2089
#1	-1.3076	.27912	315.03
#2	-2.5405	.26051	308.09
#3	-1.5730	.99155	309.07
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-011 Acquired: 11/9/2015 23:49:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38117.	10266.	543020.
Stddev	527.	48.	10437.
%RSD	1.3834	.46790	1.9220
#1	37509.	10319.	536240.
#2	38391.	10256.	537780.
#3	38450.	10224.	555040.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.205%	86.988%	97.393%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-012 Acquired: 11/9/2015 23:54:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29714	2190.1	.89142	84.663	.10438	20622.	.1488
Stddev	.41442	23.5	.32378	1.060	.01543	246.	.0938
%RSD	139.47	1.0717	36.322	1.2520	14.779	1.1920	63.00
#1	.38440	2167.0	.62401	83.670	.09671	20354.	.0494
#2	.66099	2189.3	.79883	85.779	.09429	20673.	.1615
#3	-.15396	2213.9	1.2514	84.539	.12214	20838.	.2357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3712	7.9727	60.143	3286.8	1018.	2024.	103.55
Stddev	.1986	.3284	1.767	49.4	45.	39.	1.06
%RSD	14.487	4.1187	2.9373	1.5024	4.452	1.905	1.0278
#1	1.2539	8.3483	62.181	3238.8	968.2	1998.	104.76
#2	1.6005	7.7403	59.045	3284.4	1029.	2005.	102.79
#3	1.2590	7.8293	59.204	3337.4	1057.	2068.	103.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-012 Acquired: 11/9/2015 23:54:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.3061	8244.3	10.542	18.116	13.179	3.3756	138.2
Stddev	.1742	126.7	.340	.555	1.304	1.8167	2.0
%RSD	13.337	1.5372	3.2248	3.0645	9.8913	53.820	1.483
#1	-1.1253	8117.6	10.574	18.437	13.254	1.8137	140.6
#2	-1.3202	8244.2	10.186	18.436	14.444	2.9437	137.2
#3	-1.4729	8371.1	10.864	17.475	11.840	5.3694	136.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.0252	7.4894	1460.1
Stddev	1.0633	.3515	4.5
%RSD	35.150	4.6938	.30923
#1	-1.8002	7.7884	1464.7
#2	-3.7105	7.1021	1459.7
#3	-3.5648	7.5777	1455.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-012 Acquired: 11/9/2015 23:54:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37022.	10076.	536210.
Stddev	152.	42.	3844.
%RSD	.40984	.41970	.71695
#1	36861.	10124.	532260.
#2	37162.	10060.	539930.
#3	37044.	10044.	536440.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.385%	85.373%	96.172%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-013 Acquired: 11/9/2015 23:58:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.42558	606.25	.10399	60.118	.03340	3004.4	.0113
Stddev	.31720	75.73	.84599	5.576	.00680	261.8	.1318
%RSD	74.534	12.491	813.54	9.2755	20.351	8.7122	1163.
#1	-.26713	533.15	.10971	53.681	.03219	2702.6	.0414
#2	-.79079	684.36	-.74485	63.493	.04073	3140.9	.1255
#3	-.21882	601.23	.94710	63.178	.02730	3169.7	-.1329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.53281	1.7976	8.9829	568.73	854.5	306.6	47.552
Stddev	.12244	.1022	.1997	51.44	88.5	34.3	.256
%RSD	22.979	5.6826	2.2234	9.0447	10.35	11.18	.53873
#1	.39347	1.8990	9.2114	509.39	773.6	272.6	47.292
#2	.62318	1.7992	8.8414	596.25	840.9	306.1	47.560
#3	.58178	1.6947	8.8959	600.56	949.0	341.2	47.804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-013 Acquired: 11/9/2015 23:58:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.8604	7949.5	1.9816	9.0611	-.48178	2.5446	99.35
Stddev	.1190	706.0	.1318	1.2560	1.5545	2.2286	.42
%RSD	4.1619	8.8807	6.6500	13.861	322.66	87.578	.4195
#1	-2.9349	7137.8	1.9720	8.6448	1.2015	1.8351	99.01
#2	-2.7231	8289.9	2.1180	8.0661	-1.8634	.75729	99.82
#3	-2.9231	8420.8	1.8549	10.472	-.78347	5.0416	99.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.3021	1.6795	340.12
Stddev	.5671	.3139	2.15
%RSD	17.174	18.688	.63309
#1	-3.7912	1.4148	342.47
#2	-3.4345	1.5974	339.65
#3	-2.6805	2.0262	338.24
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-013 Acquired: 11/9/2015 23:58:53 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AQ9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37574.	10529.	544030.
Stddev	96.	742.	2704.
%RSD	.25487	7.0504	.49696
#1	37679.	11376.	546750.
#2	37491.	9990.7	544000.
#3	37552.	10221.	541340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.807%	89.214%	97.575%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-014 Acquired: 11/10/2015 0:03:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.48104	391.05	-.18833	35.628	.02688	1738.6	.0177
Stddev	.88342	97.59	.56089	.935	.01053	21.2	.0851
%RSD	183.65	24.956	297.82	2.6230	39.181	1.2169	481.3
#1	-.46544	278.48	-.11660	34.566	.01588	1715.0	.1150
#2	-1.3722	442.98	-.78163	36.324	.03686	1755.7	-.0431
#3	.39448	451.70	.33323	35.993	.02789	1745.2	-.0189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19403	1.7590	8.6734	354.76	929.6	210.5	44.145
Stddev	.07278	.1476	.3641	12.13	96.3	21.2	.278
%RSD	37.511	8.3930	4.1983	3.4180	10.36	10.08	.63059
#1	.25274	1.7197	8.2828	348.62	920.2	224.0	44.250
#2	.11260	1.6351	8.7337	368.73	838.3	221.4	44.355
#3	.21676	1.9224	9.0036	346.93	1030.	186.0	43.829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-014 Acquired: 11/10/2015 0:03:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4713	7401.5	1.9111	4.7304	-.14690	.94691	78.64
Stddev	.2395	92.9	.1699	.2376	2.0068	1.9021	.85
%RSD	9.6892	1.2558	8.8895	5.0223	1366.1	200.87	1.081
#1	-2.5956	7296.5	1.9873	4.9996	.86139	1.9061	79.22
#2	-2.1953	7435.1	1.7165	4.5503	1.1558	-1.2438	79.03
#3	-2.6231	7473.1	2.0296	4.6411	-2.4579	2.1784	77.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.4605	1.1788	295.60
Stddev	.4345	.1575	1.36
%RSD	9.7412	13.363	.46162
#1	-4.9473	1.0446	296.89
#2	-4.1121	1.1396	295.74
#3	-4.3220	1.3522	294.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-014 Acquired: 11/10/2015 0:03:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37320.	10095.	537380.
Stddev	66.	187.	2937.
%RSD	.17691	1.8497	.54662
#1	37392.	10276.	537550.
#2	37306.	10105.	534360.
#3	37262.	9902.6	540220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.152%	85.531%	96.381%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-015 Acquired: 11/10/2015 0:08:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23150	342.74	-.22446	24.635	.01169	1706.8	-.0385
Stddev	.28811	41.62	.65430	.338	.01589	19.9	.0794
%RSD	124.45	12.143	291.50	1.3719	135.95	1.1684	206.0
#1	.09747	334.16	.48530	24.332	.00587	1688.1	-.1246
#2	-.35311	306.07	-.80359	24.575	.02966	1704.4	-.0229
#3	-.43887	387.97	-.35508	24.999	-.00048	1727.8	.0319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.43113	1.6543	5.5982	408.87	805.4	243.0	31.056
Stddev	.15578	.3879	.2608	8.28	32.3	21.7	.376
%RSD	36.132	23.446	4.6590	2.0260	4.008	8.943	1.2092
#1	.37340	1.2101	5.4254	415.34	770.7	231.0	30.703
#2	.31246	1.9257	5.4708	411.74	810.9	268.0	31.015
#3	.60753	1.8271	5.8982	399.53	834.6	229.8	31.451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-015 Acquired: 11/10/2015 0:08:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6167	6376.8	1.9540	5.9271	-.07425	-1.1720	128.2
Stddev	.2719	68.6	.4161	1.0355	.57666	1.0597	3.5
%RSD	10.390	1.0757	21.297	17.471	776.62	90.418	2.728
#1	-2.4983	6301.4	1.7266	5.8601	-.60000	-1.9006	129.1
#2	-2.9278	6393.6	1.7010	4.9267	.54250	.04365	124.3
#3	-2.4242	6435.4	2.4343	6.9945	-.16527	-1.6589	131.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.2972	1.2837	361.00
Stddev	.9312	.1169	1.29
%RSD	28.242	9.1050	.35786
#1	-2.5367	1.2827	360.36
#2	-4.3357	1.1674	360.15
#3	-3.0192	1.4011	362.48
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-015 Acquired: 11/10/2015 0:08:33 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38150.	10402.	554400.
Stddev	198.	97.	4078.
%RSD	.51952	.92799	.73560
#1	37962.	10486.	558480.
#2	38357.	10424.	554420.
#3	38132.	10296.	550320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.291%	88.136%	99.436%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-016 Acquired: 11/10/2015 0:13:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32143	1739.9	.90020	132.57	.08641	9378.6	1.391
Stddev	.46382	19.2	1.1244	2.12	.00533	126.1	.093
%RSD	144.30	1.1053	124.91	1.6029	6.1693	1.3448	6.711
#1	.65092	1720.6	.17206	130.12	.08252	9243.0	1.495
#2	-.20897	1740.0	2.1953	133.86	.08422	9400.5	1.315
#3	.52233	1759.0	.33329	133.73	.09248	9492.4	1.361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.4061	6.5297	48.867	2259.9	1861.	941.4	90.410
Stddev	.1486	.3480	1.221	32.1	26.	5.8	1.132
%RSD	2.3198	5.3298	2.4982	1.4219	1.421	.6189	1.2522
#1	6.5773	6.8355	49.865	2236.5	1847.	934.7	91.487
#2	6.3309	6.1510	47.506	2246.8	1845.	944.1	89.230
#3	6.3102	6.6024	49.231	2296.6	1892.	945.3	90.513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-016 Acquired: 11/10/2015 0:13:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.1754	8595.0	11.024	111.99	.42184	.25806	114.4
Stddev	.2230	118.9	.203	1.28	.35360	.21668	1.4
%RSD	10.249	1.3833	1.8391	1.1465	83.822	83.965	1.198
#1	-2.1867	8463.0	10.821	110.55	.82677	.50174	115.2
#2	-2.3924	8628.4	11.227	113.03	.17403	.18537	112.8
#3	-1.9470	8693.7	11.024	112.38	.26473	.08707	115.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.9425	4.5853	604.85
Stddev	.8458	.4457	1.19
%RSD	21.454	9.7199	.19618
#1	-3.2344	5.0614	606.04
#2	-3.7140	4.1780	603.67
#3	-4.8791	4.5164	604.86
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-016 Acquired: 11/10/2015 0:13:24 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37528.	10186.	539130.
Stddev	90.	113.	9457.
%RSD	.23909	1.1094	1.7541
#1	37429.	10293.	529800.
#2	37550.	10196.	548710.
#3	37604.	10068.	538890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.687%	86.304%	96.696%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-017 Acquired: 11/10/2015 0:18:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07962	80.151	-.06410	13.880	.01658	1869.5	.0553
Stddev	.17029	42.636	.83375	.414	.00587	9.7	.2393
%RSD	213.89	53.194	1300.6	2.9823	35.392	.52138	432.9
#1	.27349	127.59	-.83036	13.919	.01077	1859.8	.1744
#2	-.04577	45.018	.82379	14.273	.01647	1869.3	-.2202
#3	.01113	67.850	-.18574	13.448	.02251	1879.3	.2116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21466	1.2172	4.4588	122.07	343.1	145.3	27.201
Stddev	.13215	.2823	1.0876	11.96	34.4	25.1	.304
%RSD	61.561	23.192	24.393	9.7977	10.02	17.28	1.1163
#1	.32851	1.5426	5.6941	118.73	307.7	154.0	27.426
#2	.06975	1.0710	4.0374	112.13	345.2	164.8	27.323
#3	.24573	1.0380	3.6450	135.34	376.3	116.9	26.856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-017 Acquired: 11/10/2015 0:18:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.3787	5629.8	.77327	3.1076	1.9389	2.4379	83.99
Stddev	.0870	11.7	.12515	1.1497	.7446	1.0848	1.13
%RSD	3.6568	.20706	16.185	36.997	38.402	44.498	1.343
#1	-2.3365	5616.3	.63403	1.8759	2.6125	3.3120	84.34
#2	-2.3209	5636.6	.80937	4.1525	2.0648	2.7780	84.89
#3	-2.4788	5636.4	.87641	3.2944	1.1394	1.2238	82.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-4.1300	.46416	323.86
Stddev	1.0429	.16445	.78
%RSD	25.252	35.430	.24004
#1	-3.8345	.50309	323.58
#2	-5.2887	.28374	323.26
#3	-3.2667	.60566	324.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-017 Acquired: 11/10/2015 0:18:13 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37239.	10010.	537630.
Stddev	84.	171.	11212.
%RSD	.22478	1.7109	2.0854
#1	37314.	9885.7	529560.
#2	37256.	10205.	532900.
#3	37149.	9938.6	550430.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.944%	84.814%	96.427%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-018 Acquired: 11/10/2015 0:23:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25659	133.10	-.03519	21.638	.00791	1312.8	-.1091
Stddev	.37379	124.72	.64905	3.813	.01985	221.8	.1198
%RSD	145.68	93.709	1844.3	17.623	250.78	16.892	109.8
#1	.11959	12.902	.65059	18.327	.00018	1082.0	-.0413
#2	-.02937	261.90	-.11627	25.808	-.00690	1524.2	-.2474
#3	.67955	124.49	-.63990	20.780	.03046	1332.1	-.0387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11394	1.4653	3.8714	89.257	320.3	153.1	24.488
Stddev	.19309	.1068	.2182	19.081	66.8	50.2	.213
%RSD	169.47	7.2872	5.6367	21.377	20.86	32.81	.87121
#1	.22524	1.3670	3.9068	68.259	260.1	98.64	24.697
#2	.22559	1.4500	3.6377	105.53	392.2	163.0	24.271
#3	-.10903	1.5789	4.0698	93.980	308.7	197.6	24.497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-018 Acquired: 11/10/2015 0:23:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6099	6050.0	1.1802	1.1662	-.46608	1.1150	106.7
Stddev	.1387	1009.3	.0882	1.8117	1.0970	1.3130	1.2
%RSD	5.3149	16.682	7.4717	155.35	235.37	117.76	1.155
#1	-2.5788	5022.3	1.1075	-.28602	-1.2608	.50512	105.9
#2	-2.7615	7039.8	1.1548	.58827	.78552	2.6221	106.0
#3	-2.4893	6087.8	1.2783	3.1963	-.92298	.21790	108.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.9022	.46367	355.33
Stddev	.6857	.30321	1.87
%RSD	17.571	65.394	.52559
#1	-4.2285	.21360	357.44
#2	-4.3639	.80093	354.65
#3	-3.1144	.37649	353.90
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-018 Acquired: 11/10/2015 0:23:03 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37621.	10025.	536080.
Stddev	137.	1418.	4788.
%RSD	.36359	14.148	.89308
#1	37465.	11500.	532680.
#2	37717.	8670.6	541550.
#3	37682.	9904.4	534010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.928%	84.941%	96.149%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-019 Acquired: 11/10/2015 0:27:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08213	296.24	-.70434	18.998	.01844	1987.4	.1109
Stddev	.26147	17.27	1.4351	.290	.00654	14.8	.0707
%RSD	318.35	5.8311	203.76	1.5286	35.484	.74310	63.75
#1	-.21948	305.51	.33135	19.169	.01272	1970.4	.1838
#2	.24479	276.31	-.10186	19.163	.01704	1996.8	.0426
#3	.22109	306.91	-2.3425	18.663	.02557	1995.0	.1064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34762	2.6579	5.7503	551.28	508.6	269.2	37.066
Stddev	.23818	.1374	.3802	8.88	93.9	35.3	.603
%RSD	68.519	5.1691	6.6111	1.6100	18.47	13.13	1.6259
#1	.07352	2.8114	5.3324	541.27	574.5	293.7	36.516
#2	.46501	2.5465	6.0757	558.20	550.2	285.2	36.972
#3	.50431	2.6158	5.8427	554.36	401.1	228.7	37.710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-019 Acquired: 11/10/2015 0:27:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.6343	5649.0	.93304	2.9909	-1.1898	1.5870	99.74
Stddev	.1764	28.8	.18344	1.5247	.1138	2.3345	1.36
%RSD	6.6942	.50996	19.661	50.978	9.5632	147.10	1.360
#1	-2.4307	5620.4	1.0714	1.8438	-1.2138	2.7988	98.90
#2	-2.7381	5648.6	.72496	2.4079	-1.2896	3.0664	99.02
#3	-2.7342	5678.0	1.0028	4.7211	-1.0659	-1.1042	101.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.0194	.63715	291.95
Stddev	.8439	.31802	1.94
%RSD	27.949	49.914	.66342
#1	-2.4210	.46998	294.06
#2	-3.9846	1.0039	291.53
#3	-2.6525	.43757	290.25
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-019 Acquired: 11/10/2015 0:27:54 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37537.	10286.	539690.
Stddev	243.	68.	7401.
%RSD	.64756	.66073	1.3713
#1	37360.	10209.	547400.
#2	37437.	10313.	539030.
#3	37814.	10337.	532640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.711%	87.154%	96.797%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-020 Acquired: 11/10/2015 0:32:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41533	658.04	1.2366	34.775	.06210	7534.2	1.848
Stddev	.37016	17.62	.9528	.507	.01457	43.1	.170
%RSD	89.123	2.6774	77.052	1.4576	23.465	.57170	9.180
#1	.21560	664.62	.21023	35.350	.05679	7484.5	1.666
#2	.18794	671.42	2.0930	34.392	.07858	7556.9	1.878
#3	.84246	638.08	1.4066	34.583	.05092	7561.2	2.001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.049	8.4282	17.143	948.94	1136.	2703.	53.791
Stddev	.028	.2894	.818	22.52	23.	64.	1.471
%RSD	.23434	3.4343	4.7724	2.3731	2.036	2.359	2.7339
#1	12.028	8.2664	17.169	944.88	1110.	2634.	53.216
#2	12.038	8.7624	17.948	973.21	1144.	2715.	55.462
#3	12.081	8.2559	16.312	928.73	1154.	2760.	52.694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-020 Acquired: 11/10/2015 0:32:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.4082	7956.2	4.2543	197.27	1.1661	2.0287	92.64
Stddev	.3071	60.9	.1997	1.10	1.1555	.0889	2.62
%RSD	12.752	.76531	4.6941	.55864	99.088	4.3842	2.824
#1	-2.1642	7889.2	4.0851	196.27	1.7975	2.1260	92.33
#2	-2.3074	7971.0	4.4746	197.09	-.16749	2.0087	95.40
#3	-2.7531	8008.3	4.2032	198.46	1.8684	1.9515	90.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.9727	1.7431	626.19
Stddev	.4212	.0981	.35
%RSD	14.168	5.6304	.05592
#1	-3.3123	1.7975	625.87
#2	-3.1045	1.6298	626.16
#3	-2.5014	1.8020	626.56
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK02005-020 Acquired: 11/10/2015 0:32:43 Type: Unk
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MG9AR6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	37570.	9979.1	532850.
Stddev	161.	108.1	13683.
%RSD	.42827	1.0828	2.5679
#1	37598.	9959.3	536020.
#2	37397.	9882.3	517860.
#3	37716.	10096.	544670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.797%	84.553%	95.570%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-515 Acquired: 11/10/2015 0:37:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	808.39	50839.	2645.1	10414.	1084.9	51055.	1064.
Stddev	26.61	456.	2.3	93.	42.0	449.	2.
%RSD	3.2911	.89732	.08535	.89174	3.8752	.87916	.1840
#1	799.54	50316.	2647.2	10312.	1053.6	50539.	1063.
#2	787.34	51043.	2642.7	10436.	1068.4	51360.	1063.
#3	838.29	51156.	2645.5	10494.	1132.7	51265.	1066.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5140.0	10538.	12887.	25238.	40560.	51600.	5161.3
Stddev	8.7	315.	457.	189.	338.	721.	259.7
%RSD	.16862	2.9900	3.5499	.74865	.8339	1.398	5.0324
#1	5133.8	10426.	12523.	25021.	40170.	50780.	5053.7
#2	5136.3	10293.	12737.	25359.	40710.	52140.	4972.7
#3	5149.9	10893.	13400.	25335.	40800.	51880.	5457.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-515 Acquired: 11/10/2015 0:37:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1036.0	F 28107.	5047.4	9993.2	2645.6	1322.5	1047.
Stddev	1.0	253.	5.7	17.6	6.8	.6	35.
%RSD	.09204	.89905	.11309	.17605	.25535	.04734	3.349
#1	1035.3	27823.	5044.9	9982.8	2644.4	1323.2	1035.
#2	1035.6	28192.	5043.3	9983.3	2652.9	1322.0	1020.
#3	1037.1	28306.	5053.9	10014.	2639.6	1322.2	1087.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25000.					
Range		10.000%					

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	995.20	2653.1	5164.7
Stddev	3.77	88.3	8.8
%RSD	.37894	3.3266	.17021
#1	991.79	2621.8	5159.4
#2	994.56	2584.8	5159.8
#3	999.25	2752.8	5174.8
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCV ISM-515 Acquired: 11/10/2015 0:37:31 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	35788.	10174.	518270.
Stddev	109.	116.	15564.
%RSD	.30429	1.1356	3.0031
#1	35871.	10291.	523360.
#2	35828.	10060.	530660.
#3	35664.	10169.	500800.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/10/2015 0:42:39 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54987	-10.007	-.80849	1.0242	.10025	22.789	-.1001
Stddev	.25461	9.536	.25780	.4609	.01092	4.452	.2034
%RSD	46.303	95.292	31.887	44.996	10.889	19.534	203.2
#1	-.34782	-16.780	-.79933	1.0166	.11270	26.070	.1133
#2	-.83584	.8979	-1.0707	.56723	.09232	24.575	-.2918
#3	-.46596	-14.138	-.55539	1.4889	.09573	17.722	-.1218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.20972	.42439	.75541	22.975	98.51	4.151	.27838
Stddev	.12352	.07792	.34559	4.868	79.19	37.39	.03586
%RSD	58.898	18.360	45.748	21.187	80.39	900.9	12.882
#1	.23960	.49803	1.1410	27.035	8.372	-34.75	.31065
#2	.07400	.43233	.65152	17.579	130.2	39.83	.28471
#3	.31555	.34280	.47369	24.312	156.9	7.373	.23977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/10/2015 0:42:39 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.2545	-4.1413	.04864	-.83120	-.59067	.01330	.5170
Stddev	.2444	35.860	.02867	.65629	1.6890	1.7089	.2132
%RSD	19.482	865.92	58.942	78.957	285.95	12850.	41.23
#1	-1.1169	-21.522	.07992	-.07392	-.60917	1.4098	.3418
#2	-1.1099	37.097	.02359	-1.1851	-2.2704	.52235	.4550
#3	-1.5367	-27.999	.04243	-1.2346	1.1075	-1.8923	.7543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6684	.19030	-.00960
Stddev	.3193	.30995	.02051
%RSD	11.967	162.88	213.67
#1	3.0366	-.16699	-.01621
#2	2.5013	.35080	.01340
#3	2.4673	.38708	-.02598
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/10/2015 0:42:39 Type: QC
Method: CLP ISM Method ICP5 A(v12) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	38579.	10491.	549560.
Stddev	145.	223.	1932.
%RSD	.37558	2.1290	.35153
#1	38466.	10239.	550240.
#2	38742.	10664.	547380.
#3	38528.	10571.	551060.

PDF created with pdfFactory trial version www.pdffactory.com

ICP-AES
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1· Sample ID:	**S0**	**EPA Sample ID:**	**S0**		**Date:**	**11/9/2015**	**11:52:21**	**Dilution:**	**1**
2· Sample ID:	**S01 ISM-458**	**EPA Sample ID:**	**S01**		**Date:**	**11/9/2015**	**11:57:07**	**Dilution:**	**1**
3· Sample ID:	**S02 ISM-459**	**EPA Sample ID:**	**S02**		**Date:**	**11/9/2015**	**12:01:51**	**Dilution:**	**1**
4· Sample ID:	**S03 ISM-515**	**EPA Sample ID:**	**S03**		**Date:**	**11/9/2015**	**12:06:35**	**Dilution:**	**1**
5· Sample ID:	**S04 ISM-461**	**EPA Sample ID:**	**S04**		**Date:**	**11/9/2015**	**12:11:41**	**Dilution:**	**1**
6· Sample ID:	**S05 ISM-462**	**EPA Sample ID:**	**S05**		**Date:**	**11/9/2015**	**12:17:06**	**Dilution:**	**1**
7· Sample ID:	**S06 ISM-463**	**EPA Sample ID:**	**S06**		**Date:**	**11/9/2015**	**12:22:39**	**Dilution:**	**1**
8· Sample ID:	**S07 ISM-464**	**EPA Sample ID:**	**S07**		**Date:**	**11/9/2015**	**12:27:24**	**Dilution:**	**1**
9· Sample ID:	**S08 ISM-465**	**EPA Sample ID:**	**S08**		**Date:**	**11/9/2015**	**12:32:05**	**Dilution:**	**1**
10· Sample ID:	**S09 ISM-456**	**EPA Sample ID:**	**S09**		**Date:**	**11/9/2015**	**12:36:48**	**Dilution:**	**1**
11· Sample ID:	**S10 ISM-457**	**EPA Sample ID:**	**S10**		**Date:**	**11/9/2015**	**12:41:35**	**Dilution:**	**1**
12· Sample ID:	**ICV1**	**EPA Sample ID:**	**ICV**		**Date:**	**11/9/2015**	**12:46:29**	**Dilution:**	**1**
13· Sample ID:	**ICB1**	**EPA Sample ID:**	**ICB**		**Date:**	**11/9/2015**	**12:51:20**	**Dilution:**	**1**
14· Sample ID:	**ICS-A1**	**EPA Sample ID:**	**ICSA**		**Date:**	**11/9/2015**	**12:56:07**	**Dilution:**	**1**
15· Sample ID:	**ICS-A2**	**EPA Sample ID:**	**ICSAB**		**Date:**	**11/9/2015**	**13:00:51**	**Dilution:**	**1**
16· Sample ID:	**CCV1**	**EPA Sample ID:**	**CCV001**		**Date:**	**11/9/2015**	**13:05:40**	**Dilution:**	**1**
17· Sample ID:	**CCB1**	**EPA Sample ID:**	**CCB001**		**Date:**	**11/9/2015**	**13:10:46**	**Dilution:**	**1**
18· Sample ID:	**QQ89047-001**	**EPA Sample ID:**	**QQ89047-001MB**		**Date:**	**11/9/2015**	**13:15:33**	**Dilution:**	**1**
Hardness	MB result is greater than High Det Lim		0.3689	1984500			0.00	0.00	3.10
19· Sample ID:	**QQ89047-002**	**EPA Sample ID:**	**LCS**		**Date:**	**11/9/2015**	**13:20:20**	**Dilution:**	**1**
20· Sample ID:	**QJ31005-001**	**EPA Sample ID:**	**MBC765**		**Date:**	**11/9/2015**	**13:25:06**	**Dilution:**	**1**
Cd2288			3.5690	2000			1.00	0.04	0.50
Cu3273			330.0400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		236580.0000	150000			0.00	2.60	10.00
Ni2316			203.4700	10000			0.00	0.21	4.00
Pb2203			500.1600	20000			0.00	0.28	1.00
21· Sample ID:	**QJ31005-001L**	**EPA Sample ID:**	**MBC765L**		**Date:**	**11/9/2015**	**13:29:57**	**Dilution:**	**5**
As1890	RPD IS OUT OF CRITERIA		12.7730	5000		11.0	7.00	0.39	1.00
Cd2288	RPD IS OUT OF CRITERIA		0.4201	2000		42.0	44.00	0.04	0.50
Na5895	RPD IS OUT OF CRITERIA		93.3630	100000		14.0	19.00	4.90	500.00
22· Sample ID:	**QJ31005-001DU**	**EPA Sample ID:**	**MBC765D**		**Date:**	**11/9/2015**	**13:34:50**	**Dilution:**	**1**
Cd2288			2.6650	2000		0.0	4.00	0.04	0.50
Cu3273			289.5000	25000		0.0	2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		202350.0000	150000		0.0	8.00	2.60	10.00
Mn2576	RPD IS OUT OF CRITERIA		4884.8999	10000		47.0	2.00	0.09	1.50
Ni2316			155.2600	10000		0.0	1.00	0.21	4.00
Pb2203			401.6000	20000		0.0	1.00	0.28	1.00
23· Sample ID:	**QJ31005-001MS**	**EPA Sample ID:**	**MBC765S**		**Date:**	**11/9/2015**	**13:39:42**	**Dilution:**	**1**
Cd2288			87.1000	2000	100.0		1.00	0.04	0.50
Cu3273			710.8600	25000	500.0		4.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE		182210.0000	150000			6.00	2.60	10.00
Ni2316			963.3300	10000	1000.0		1.00	0.21	4.00
Pb2203			459.9000	20000	40.0		1.00	0.28	1.00
24· Sample ID:	**QJ31005-001A**	**EPA Sample ID:**	**MBC765A**		**Date:**	**11/9/2015**	**13:44:32**	**Dilution:**	**1**

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
25 Sample ID: QJ31005-002	**EPA Sample ID: MBC766**			**Date: 11/9/2015**		**13:49:21**	**Dilution:**	**1**
Ca2179	PARAMETER IS OVER RANGE	422800.0000	300000			1.00	6.90	500.00
Cd2288		2.1160	2000			3.00	0.04	0.50
Cu3273		292.0400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	242300.0000	150000			1.00	2.60	10.00
Ni2316		192.7700	10000			0.00	0.21	4.00
Pb2203		196.5400	20000			1.00	0.28	1.00
26 Sample ID: QJ31005-003	**EPA Sample ID: MBC767**			**Date: 11/9/2015**		**13:54:21**	**Dilution:**	**1**
Cd2288		3.9240	2000			3.00	0.04	0.50
Cu3273		687.7400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	290720.0000	150000			1.00	2.60	10.00
Ni2316		249.4100	10000			0.00	0.21	4.00
Pb2203		1600.8000	20000			0.00	0.28	1.00
27 Sample ID: QJ31005-004	**EPA Sample ID: MBC768**			**Date: 11/9/2015**		**13:59:12**	**Dilution:**	**1**
Cd2288		2.2480	2000			7.00	0.04	0.50
Cu3273		254.0900	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	201440.0000	150000			1.00	2.60	10.00
Ni2316		169.4100	10000			0.00	0.21	4.00
Pb2203		296.6200	20000			0.00	0.28	1.00
28 Sample ID: QJ31005-005	**EPA Sample ID: MBC769**			**Date: 11/9/2015**		**14:04:05**	**Dilution:**	**1**
Cd2288		5.7220	2000			2.00	0.04	0.50
Cu3273		390.6100	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	229130.0000	150000			1.00	2.60	10.00
Ni2316		187.4400	10000			0.00	0.21	4.00
Pb2203		1317.5000	20000			0.00	0.28	1.00
29 Sample ID: QJ31005-006	**EPA Sample ID: MBC770**			**Date: 11/9/2015**		**14:08:56**	**Dilution:**	**1**
Cd2288		5.0660	2000			3.00	0.04	0.50
Cu3273		993.3800	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	377080.0000	150000			1.00	2.60	10.00
Ni2316		290.3900	10000			0.00	0.21	4.00
Pb2203		3828.5000	20000			0.00	0.28	1.00
30 Sample ID: QJ31005-007	**EPA Sample ID: MBC771**			**Date: 11/9/2015**		**14:13:46**	**Dilution:**	**1**
Cd2288		-3.9400	2000			2.00	0.04	0.50
Cu3273		754.4700	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	232160.0000	150000			0.00	2.60	10.00
Ni2316		158.6100	10000			0.00	0.21	4.00
Pb2203		1915.2000	20000			0.00	0.28	1.00
31 Sample ID: QJ31005-008	**EPA Sample ID: MBC774**			**Date: 11/9/2015**		**14:18:37**	**Dilution:**	**1**
Cd2288		5.6710	2000			0.00	0.04	0.50
Cu3273		545.2800	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	231940.0000	150000			1.00	2.60	10.00
Ni2316		217.2400	10000			0.00	0.21	4.00
Pb2203		621.8900	20000			1.00	0.28	1.00
32 Sample ID: QJ31005-009	**EPA Sample ID: MBC7D5**			**Date: 11/9/2015**		**14:23:28**	**Dilution:**	**1**
Cd2288		0.7702	2000			1.00	0.04	0.50
Cu3273		228.6000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	214410.0000	150000			0.00	2.60	10.00
Ni2316		181.9300	10000			0.00	0.21	4.00
Pb2203		171.0100	20000			0.00	0.28	1.00

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
33 Sample ID: QJ31005-010	**EPA Sample ID: MBC7D6**			**Date: 11/9/2015**		**14:28:19**	**Dilution:**	**1**
Cd2288		0.5032	2000			6.00	0.04	0.50
Cu3273		279.7400	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	202370.0000	150000			4.00	2.60	10.00
Ni2316		168.3000	10000			0.00	0.21	4.00
Pb2203		109.2300	20000			2.00	0.28	1.00
34 Sample ID: QJ31005-011	**EPA Sample ID: MBC7D7**			**Date: 11/9/2015**		**14:33:10**	**Dilution:**	**1**
Cd2288		0.2927	2000			92.00	0.04	0.50
Cu3273		253.2800	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	236030.0000	150000			9.00	2.60	10.00
Ni2316		190.6500	10000			0.00	0.21	4.00
Pb2203		140.3300	20000			4.00	0.28	1.00
35 Sample ID: QJ31005-012	**EPA Sample ID: MBC7D8**			**Date: 11/9/2015**		**14:38:01**	**Dilution:**	**1**
Cd2288		-0.0718	2000			123.00	0.04	0.50
Cu3273		242.5800	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	279540.0000	150000			1.00	2.60	10.00
Ni2316		214.6900	10000			0.00	0.21	4.00
Pb2203		112.5300	20000			1.00	0.28	1.00
36 Sample ID: QJ31005-013	**EPA Sample ID: MBC7D9**			**Date: 11/9/2015**		**14:42:51**	**Dilution:**	**1**
Cd2288		0.5873	2000			15.00	0.04	0.50
Cu3273		311.1700	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	196550.0000	150000			3.00	2.60	10.00
Ni2316		152.4900	10000			0.00	0.21	4.00
Pb2203		391.2400	20000			1.00	0.28	1.00
37 Sample ID: QJ31005-014	**EPA Sample ID: MBC7E0**			**Date: 11/9/2015**		**14:47:42**	**Dilution:**	**1**
Cd2288		-0.0474	2000			239.00	0.04	0.50
Cu3273		501.5400	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	255520.0000	150000			7.00	2.60	10.00
Ni2316		239.8100	10000			0.00	0.21	4.00
Pb2203		81.9710	20000			3.00	0.28	1.00
38 Sample ID: QJ31005-015	**EPA Sample ID: MBC7E1**			**Date: 11/9/2015**		**14:52:32**	**Dilution:**	**1**
Cd2288		19.1000	2000			0.00	0.04	0.50
Cu3273		1634.0000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	151230.0000	150000			2.00	2.60	10.00
Ni2316		154.1700	10000			0.00	0.21	4.00
Pb2203		1253.9000	20000			0.00	0.28	1.00
39 Sample ID: QJ31005-016	**EPA Sample ID: MBC7E2**			**Date: 11/9/2015**		**14:57:24**	**Dilution:**	**1**
Cd2288		0.7493	2000			10.00	0.04	0.50
Cu3273		278.2300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	304460.0000	150000			1.00	2.60	10.00
Ni2316		243.3500	10000			0.00	0.21	4.00
Pb2203		193.9300	20000			1.00	0.28	1.00
40 Sample ID: CCV2	**EPA Sample ID: CCV002**			**Date: 11/9/2015**		**15:02:16**	**Dilution:**	**1**
41 Sample ID: CCB2	**EPA Sample ID: CCB002**			**Date: 11/9/2015**		**15:07:21**	**Dilution:**	**1**
42 Sample ID: QJ31005-017	**EPA Sample ID: MBC7E3**			**Date: 11/9/2015**		**15:12:09**	**Dilution:**	**1**
Cd2288		-1.2450	2000			5.00	0.04	0.50
Cu3273		875.9000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	426380.0000	150000			0.00	2.60	10.00
Ni2316		335.2100	10000			0.00	0.21	4.00
Pb2203		3002.3000	20000			0.00	0.28	1.00

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
43 Sample ID: QJ31005-018	**EPA Sample ID: MBC7E4**			**Date: 11/9/2015**		**15:17:00**	**Dilution:**	**1**
Cd2288		0.3031	2000			9.00	0.04	0.50
Cu3273		326.0500	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	429420.0000	150000			1.00	2.60	10.00
Ni2316		325.2500	10000			0.00	0.21	4.00
Pb2203		176.0800	20000			2.00	0.28	1.00
44 Sample ID: QJ31005-019	**EPA Sample ID: MBC7E5**			**Date: 11/9/2015**		**15:21:49**	**Dilution:**	**1**
Cd2288		3.9200	2000			4.00	0.04	0.50
Cu3273		2290.2000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	162100.0000	150000			1.00	2.60	10.00
Ni2316		299.8500	10000			0.00	0.21	4.00
Pb2203		832.2500	20000			0.00	0.28	1.00
45 Sample ID: QJ31005-020	**EPA Sample ID: MBC7E6**			**Date: 11/9/2015**		**15:26:39**	**Dilution:**	**1**
Cd2288		2.0180	2000			6.00	0.04	0.50
Cu3273		1032.9000	25000			0.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	430460.0000	150000			0.00	2.60	10.00
Ni2316		424.0900	10000			0.00	0.21	4.00
Pb2203		586.8500	20000			0.00	0.28	1.00
46 Sample ID: QQ89048-001	**EPA Sample ID: PBS**			**Date: 11/9/2015**		**15:31:29**	**Dilution:**	**1**
47 Sample ID: QQ89048-002	**EPA Sample ID: LCS**			**Date: 11/9/2015**		**15:36:18**	**Dilution:**	**1**
48 Sample ID: QJ31006-001	**EPA Sample ID: MBC7E7**			**Date: 11/9/2015**		**15:41:05**	**Dilution:**	**1**
49 Sample ID: QJ31006-00L	**EPA Sample ID: MBC7E7L**			**Date: 11/9/2015**		**15:45:50**	**Dilution:**	**5**
50 Sample ID: QJ31006-001DU	**EPA Sample ID: MBC7E7D**			**Date: 11/9/2015**		**15:50:35**	**Dilution:**	**1**
Al3082	RPD IS OUT OF CRITERIA	20583.0000	300000		32.0	3.00	7.60	20.00
As1890	RPD IS OUT OF CRITERIA	44.7130	5000		21.0	3.00	0.39	1.00
Ca2179	RPD IS OUT OF CRITERIA	24862.0000	300000		41.0	3.00	6.90	500.00
Cr2677	RPD IS OUT OF CRITERIA	68.0110	20000		35.0	1.00	0.12	1.00
Cu3273	RPD IS OUT OF CRITERIA	14438.0000	25000		185.0	2.00	0.24	2.50
Fe2611	RPD IS OUT OF CRITERIA	52084.0000	150000		24.0	3.00	2.60	10.00
Mn2576	RPD IS OUT OF CRITERIA	992.1700	10000		35.0	1.00	0.09	1.50
Pb2203	RPD IS OUT OF CRITERIA	933.4000	20000		76.0	0.00	0.28	1.00
Zn2062	RPD IS OUT OF CRITERIA	971.7700	10000		83.0	0.00	0.26	6.00
51 Sample ID: QJ31006-001MS	**EPA Sample ID: MBC7E7S**			**Date: 11/9/2015**		**15:55:29**	**Dilution:**	**1**
As1890	RECOVERY IS OUT OF CRITERIA	106.5900	5000	80.0	69.0	1.00	0.39	1.00
Cu3273	RECOVERY IS OUT OF CRITERIA	794.9500	25000	500.0	53.0	2.00	0.24	2.50
Sb2068	RECOVERY IS OUT OF CRITERIA	79.7340	5000	200.0	36.0	1.00	0.35	6.00
52 Sample ID: QJ31006-001A	**EPA Sample ID: MBC7E7A**			**Date: 11/9/2015**		**16:00:22**	**Dilution:**	**1**
53 Sample ID: QJ31006-002	**EPA Sample ID: MBC7E8**			**Date: 11/9/2015**		**16:05:08**	**Dilution:**	**1**
Cd2288		1.3370	2000			13.00	0.04	0.50
Cu3273		436.9700	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	161800.0000	150000			0.00	2.60	10.00
Ni2316		163.9200	10000			0.00	0.21	4.00
Pb2203		353.2500	20000			1.00	0.28	1.00
54 Sample ID: QJ31006-003	**EPA Sample ID: MBC7F0**			**Date: 11/9/2015**		**16:10:00**	**Dilution:**	**1**
Cd2288		7.8700	2000			3.00	0.04	0.50
Cu3273		680.3000	25000			2.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	177150.0000	150000			2.00	2.60	10.00
Ni2316		132.3500	10000			0.00	0.21	4.00
Pb2203		2086.0000	20000			0.00	0.28	1.00

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
55 Sample ID:	**QJ31006-004** **EPA Sample ID:**	**MBC7F2**		**Date:**	**11/9/2015**	**16:14:52**	**Dilution:**	**1**
Cd2288		0.0823	2000			260.00	0.04	0.50
Cu3273		138.2300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	214130.0000	150000			4.00	2.60	10.00
Ni2316		159.7700	10000			0.00	0.21	4.00
Pb2203		100.2300	20000			5.00	0.28	1.00
56 Sample ID:	**QJ31006-005** **EPA Sample ID:**	**MBC7F3**		**Date:**	**11/9/2015**	**16:19:46**	**Dilution:**	**1**
Cd2288		0.3898	2000			24.00	0.04	0.50
Cu3273		328.1300	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	280600.0000	150000			8.00	2.60	10.00
Ni2316		241.3200	10000			0.00	0.21	4.00
Pb2203		216.6800	20000			2.00	0.28	1.00
57 Sample ID:	**QJ31006-006** **EPA Sample ID:**	**MBC7H1**		**Date:**	**11/9/2015**	**16:24:35**	**Dilution:**	**1**
Cd2288		6.6550	2000			2.00	0.04	0.50
Cu3273		4013.7000	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	157430.0000	150000			1.00	2.60	10.00
Ni2316		157.6800	10000			0.00	0.21	4.00
Pb2203		597.7900	20000			0.00	0.28	1.00
58 Sample ID:	**QJ31006-007** **EPA Sample ID:**	**MBC7H2**		**Date:**	**11/9/2015**	**16:29:26**	**Dilution:**	**1**
59 Sample ID:	**QJ31006-008** **EPA Sample ID:**	**MBC7H3**		**Date:**	**11/9/2015**	**16:34:09**	**Dilution:**	**1**
Cd2288		0.5093	2000			9.00	0.04	0.50
Cu3273		301.2700	25000			1.00	0.24	2.50
Fe2611	PARAMETER IS OVER RANGE	272460.0000	150000			1.00	2.60	10.00
Ni2316		223.9000	10000			0.00	0.21	4.00
Pb2203		195.5400	20000			1.00	0.28	1.00
60 Sample ID:	**CCV3** **EPA Sample ID:**	**CCV003**		**Date:**	**11/9/2015**	**16:38:59**	**Dilution:**	**1**
61 Sample ID:	**CCB3** **EPA Sample ID:**	**CCB003**		**Date:**	**11/9/2015**	**16:44:05**	**Dilution:**	**1**
62 Sample ID:	**QQ89046-001** **EPA Sample ID:**	**QQ89046-001**		**Date:**	**11/9/2015**	**16:48:53**	**Dilution:**	**1**
63 Sample ID:	**QQ89046-002** **EPA Sample ID:**	**QQ89046-002**		**Date:**	**11/9/2015**	**16:53:40**	**Dilution:**	**1**
64 Sample ID:	**QJ31004-001** **EPA Sample ID:**	**MBC761**		**Date:**	**11/9/2015**	**16:58:27**	**Dilution:**	**1**
65 Sample ID:	**QJ31004-001L** **EPA Sample ID:**	**MBC761L**		**Date:**	**11/9/2015**	**17:03:16**	**Dilution:**	**5**
66 Sample ID:	**QJ31004-001DU** **EPA Sample ID:**	**MBC761D**		**Date:**	**11/9/2015**	**17:08:05**	**Dilution:**	**1**
67 Sample ID:	**QJ31004-001MS** **EPA Sample ID:**	**MBC761S**		**Date:**	**11/9/2015**	**17:12:52**	**Dilution:**	**1**
Hardness	RECOVERY IS OUT OF CRITERIA	-0.0174	1984500	50.0	0.0	0.00	1463.50	33.10
68 Sample ID:	**QJ31004-001A** **EPA Sample ID:**	**MBC761A**		**Date:**	**11/9/2015**	**17:17:39**	**Dilution:**	**1**
69 Sample ID:	**QJ31005-001** **EPA Sample ID:**	**MBC765**		**Date:**	**11/9/2015**	**17:22:27**	**Dilution:**	**2**
70 Sample ID:	**QJ31005-001L** **EPA Sample ID:**	**MBC765L**		**Date:**	**11/9/2015**	**17:27:20**	**Dilution:**	**10**
As1890	RPD IS OUT OF CRITERIA	4.5680	5000		23.0	23.00	0.39	1.00
Cd2288	RPD IS OUT OF CRITERIA	0.1549	2000		62.0	55.00	0.04	0.50
Na5895	RPD IS OUT OF CRITERIA	8.2676	100000		82.0	277.00	4.90	500.00
71 Sample ID:	**QJ31005-001DU** **EPA Sample ID:**	**MBC765D**		**Date:**	**11/9/2015**	**17:32:07**	**Dilution:**	**2**
Mn2576	RPD IS OUT OF CRITERIA	2493.5000	10000		51.0	2.00	0.09	1.50
72 Sample ID:	**QJ31005-001MS** **EPA Sample ID:**	**MBC765S**		**Date:**	**11/9/2015**	**17:37:02**	**Dilution:**	**2**
Sb2068	RECOVERY IS OUT OF CRITERIA	22.5510	5000	200.0	22.0	1.00	0.35	6.00
73 Sample ID:	**QJ31005-001A** **EPA Sample ID:**	**MBC765A**		**Date:**	**11/9/2015**	**17:41:56**	**Dilution:**	**2**
74 Sample ID:	**QJ31005-002** **EPA Sample ID:**	**MBC766**		**Date:**	**11/9/2015**	**17:46:48**	**Dilution:**	**2**
75 Sample ID:	**QJ31005-003** **EPA Sample ID:**	**MBC767**		**Date:**	**11/9/2015**	**17:51:41**	**Dilution:**	**5**
76 Sample ID:	**QJ31005-004** **EPA Sample ID:**	**MBC768**		**Date:**	**11/9/2015**	**17:56:26**	**Dilution:**	**2**

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
77	Sample ID: QJ31005-005	EPA Sample ID: MBC769				Date: 11/9/2015	18:01:21	Dilution:		2
78	Sample ID: QJ31005-006	EPA Sample ID: MBC770				Date: 11/9/2015	18:06:15	Dilution:		5
79	Sample ID: QJ31005-007	EPA Sample ID: MBC771				Date: 11/9/2015	18:11:02	Dilution:		2
80	Sample ID: QJ31005-008	EPA Sample ID: MBC774				Date: 11/9/2015	18:15:46	Dilution:		2
81	Sample ID: QJ31005-009	EPA Sample ID: MBC7D5				Date: 11/9/2015	18:20:38	Dilution:		2
82	Sample ID: CCV4	EPA Sample ID: CCV004				Date: 11/9/2015	18:25:23	Dilution:		1
83	Sample ID: CCB4	EPA Sample ID: CCB004				Date: 11/9/2015	18:30:29	Dilution:		1
84	Sample ID: QJ31005-010	EPA Sample ID: MBC7D6				Date: 11/9/2015	18:35:17	Dilution:		2
85	Sample ID: QJ31005-011	EPA Sample ID: MBC7D7				Date: 11/9/2015	18:40:03	Dilution:		5
86	Sample ID: QJ31005-012	EPA Sample ID: MBC7D8				Date: 11/9/2015	18:44:50	Dilution:		2
87	Sample ID: QJ31005-013	EPA Sample ID: MBC7D9				Date: 11/9/2015	18:49:43	Dilution:		2
88	Sample ID: QJ31005-014	EPA Sample ID: MBC7E0				Date: 11/9/2015	18:54:29	Dilution:		2
89	Sample ID: QJ31005-015	EPA Sample ID: MBC7E1				Date: 11/9/2015	18:59:14	Dilution:		2
90	Sample ID: QJ31005-016	EPA Sample ID: MBC7E2				Date: 11/9/2015	19:04:07	Dilution:		5
91	Sample ID: QJ31005-017	EPA Sample ID: MBC7E3				Date: 11/9/2015	19:08:53	Dilution:		5
92	Sample ID: QJ31005-018	EPA Sample ID: MBC7E4				Date: 11/9/2015	19:13:39	Dilution:		5
93	Sample ID: QJ31005-019	EPA Sample ID: MBC7E5				Date: 11/9/2015	19:18:33	Dilution:		2
94	Sample ID: QJ31005-020	EPA Sample ID: MBC7E6				Date: 11/9/2015	19:23:26	Dilution:		5
95	Sample ID: QJ31006-002	EPA Sample ID: MBC7E8				Date: 11/9/2015	19:28:19	Dilution:		2
96	Sample ID: QJ31006-003	EPA Sample ID: MBC7F0				Date: 11/9/2015	19:33:06	Dilution:		2
97	Sample ID: QJ31006-004	EPA Sample ID: MBC7F2				Date: 11/9/2015	19:37:49	Dilution:		2
98	Sample ID: QJ31006-005	EPA Sample ID: MBC7F3				Date: 11/9/2015	19:42:34	Dilution:		5
99	Sample ID: QJ31006-006	EPA Sample ID: MBC7H1				Date: 11/9/2015	19:47:22	Dilution:		2
100	Sample ID: QJ31006-008	EPA Sample ID: MBC7H3				Date: 11/9/2015	19:52:15	Dilution:		5
101	Sample ID: CCV5	EPA Sample ID: CCV005				Date: 11/9/2015	19:57:01	Dilution:		1
102	Sample ID: CCB5	EPA Sample ID: CCB005				Date: 11/9/2015	20:02:07	Dilution:		1
103	Sample ID: QJ20013-014	EPA Sample ID: MB0AX1				Date: 11/9/2015	20:06:57	Dilution:		1
104	Sample ID: QJ20013-015	EPA Sample ID: MB0AY2				Date: 11/9/2015	20:11:43	Dilution:		1
105	Sample ID: QJ20013-016	EPA Sample ID: MB0AY5				Date: 11/9/2015	20:16:31	Dilution:		1
106	Sample ID: QJ20013-017	EPA Sample ID: MB0AY6				Date: 11/9/2015	20:21:19	Dilution:		1
107	Sample ID: QJ20013-018	EPA Sample ID: MB0AY7				Date: 11/9/2015	20:26:08	Dilution:		1
108	Sample ID: QJ20013-019	EPA Sample ID: MB0AQ1				Date: 11/9/2015	20:30:56	Dilution:		1
109	Sample ID: QJ20013-020	EPA Sample ID: MB0AQ2				Date: 11/9/2015	20:35:43	Dilution:		1
110	Sample ID: CCV6	EPA Sample ID: CCV006				Date: 11/9/2015	20:40:31	Dilution:		1
Hardness	RECOVERY IS OUT OF CRITERIA			339.7756	1984500	750.0	45.0	0.00	1463.50	33.10
111	Sample ID: CCB6	EPA Sample ID: CCB006				Date: 11/9/2015	20:45:38	Dilution:		1
112	Sample ID: QQ88725-001	EPA Sample ID: QQ88725-001				Date: 11/9/2015	20:50:28	Dilution:		1
113	Sample ID: QQ88725-002	EPA Sample ID: QQ88725-002				Date: 11/9/2015	20:55:17	Dilution:		1
114	Sample ID: QJ20027-001	EPA Sample ID: MG9AH1				Date: 11/9/2015	21:00:05	Dilution:		1
115	Sample ID: QJ20027-002	EPA Sample ID: MG9AF2				Date: 11/9/2015	21:04:54	Dilution:		1
116	Sample ID: QJ20027-003	EPA Sample ID: MG9AF3				Date: 11/9/2015	21:09:44	Dilution:		1
117	Sample ID: QJ20027-004	EPA Sample ID: MG9AF4				Date: 11/9/2015	21:14:34	Dilution:		1

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
118	Sample ID: QJ20027-005	EPA Sample ID: MG9AF5			Date: 11/9/2015	21:19:23	Dilution:		1
119	Sample ID: QJ20027-006	EPA Sample ID: MG9AF6			Date: 11/9/2015	21:24:12	Dilution:		1
120	Sample ID: QJ20027-007	EPA Sample ID: MG9AF7			Date: 11/9/2015	21:29:00	Dilution:		1
121	Sample ID: QJ20027-008	EPA Sample ID: MG9AF8			Date: 11/9/2015	21:33:49	Dilution:		1
122	Sample ID: QJ20027-009	EPA Sample ID: MG9AF9			Date: 11/9/2015	21:38:37	Dilution:		1
123	Sample ID: QJ20027-010	EPA Sample ID: MG9AG0			Date: 11/9/2015	21:43:27	Dilution:		1
124	Sample ID: QJ20027-011	EPA Sample ID: MG9AG1			Date: 11/9/2015	21:48:15	Dilution:		1
125	Sample ID: QJ20027-012	EPA Sample ID: MG9AG2			Date: 11/9/2015	21:53:04	Dilution:		1
126	Sample ID: QJ20027-013	EPA Sample ID: MG9AG3			Date: 11/9/2015	21:57:52	Dilution:		1
127	Sample ID: QJ20027-014	EPA Sample ID: MG9AG4			Date: 11/9/2015	22:02:42	Dilution:		1
128	Sample ID: QJ20027-015	EPA Sample ID: MG9AG5			Date: 11/9/2015	22:07:31	Dilution:		1
129	Sample ID: QJ20027-016	EPA Sample ID: MG9AG6			Date: 11/9/2015	22:12:19	Dilution:		1
130	Sample ID: QJ20027-017	EPA Sample ID: MG9AG7			Date: 11/9/2015	22:17:08	Dilution:		1
131	Sample ID: QJ20027-018	EPA Sample ID: MG9AG8			Date: 11/9/2015	22:21:59	Dilution:		1
132	Sample ID: QJ20027-019	EPA Sample ID: MG9AG9			Date: 11/9/2015	22:26:48	Dilution:		1
133	Sample ID: QJ20027-020	EPA Sample ID: MG9AH0			Date: 11/9/2015	22:31:38	Dilution:		1
134	Sample ID: QJ20027-021	EPA Sample ID: MG9AH2			Date: 11/9/2015	22:36:27	Dilution:		1
135	Sample ID: CCV7	EPA Sample ID: CCV007			Date: 11/9/2015	22:41:15	Dilution:		1
Ag3280	RECOVERY IS OUT OF CRITERIA		-0.0765	1500	750.0	0.0	96.00	1.60	10.00
Al3082	RECOVERY IS OUT OF CRITERIA		-6.7788	300000	50000.0	0.0	972.00	95.20	200.00
As1890	RECOVERY IS OUT OF CRITERIA		-0.6034	5000	2500.0	0.0	210.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA		0.3225	20000	10000.0	0.0	190.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA		0.0668	2000	1000.0	0.0	9.00	0.05	5.00
Ca2179	RECOVERY IS OUT OF CRITERIA		-6.1867	300000	50000.0	0.0	162.00	503.00	5000.00
Cd2288	RECOVERY IS OUT OF CRITERIA		-0.0679	2000	1000.0	0.0	274.00	0.60	5.00
Co2286	RECOVERY IS OUT OF CRITERIA		-0.0099	10000	5000.0	0.0	1238.00	0.25	50.00
Cr2677	RECOVERY IS OUT OF CRITERIA		-0.1995	20000	10000.0	0.0	100.00	1.80	10.00
Cu3273	RECOVERY IS OUT OF CRITERIA		-0.5023	25000	12500.0	0.0	59.00	5.00	25.00
Fe2611	RECOVERY IS OUT OF CRITERIA		3.8565	150000	25000.0	0.0	109.00	18.80	100.00
K_7664	RECOVERY IS OUT OF CRITERIA		-10.9600	112500	37500.0	0.0	321.00	90.50	5000.00
Mg2790	RECOVERY IS OUT OF CRITERIA		-24.0300	300000	50000.0	0.0	102.00	50.90	5000.00
Mn2576	RECOVERY IS OUT OF CRITERIA		-0.0637	10000	5000.0	0.0	52.00	0.43	15.00
Na5895	RECOVERY IS OUT OF CRITERIA		-20.4030	100000	25000.0	0.0	129.00	516.00	5000.00
Ni2316	RECOVERY IS OUT OF CRITERIA		0.0794	10000	5000.0	0.0	316.00	1.10	40.00
Pb2203	RECOVERY IS OUT OF CRITERIA		-0.0892	20000	10000.0	0.0	1053.00	3.50	10.00
Sb2068	RECOVERY IS OUT OF CRITERIA		-1.0972	5000	2500.0	0.0	124.00	7.80	60.00
Se1960	RECOVERY IS OUT OF CRITERIA		0.5396	2500	1250.0	0.0	145.00	5.50	35.00
Tl1908	RECOVERY IS OUT OF CRITERIA		-1.2309	2000	1000.0	0.0	96.00	3.80	25.00
V_2924	RECOVERY IS OUT OF CRITERIA		0.1612	5000	2500.0	0.0	141.00	1.10	50.00
Zn2062	RECOVERY IS OUT OF CRITERIA		-0.1961	10000	5000.0	0.0	32.00	6.60	60.00
Hardness	RECOVERY IS OUT OF CRITERIA		-0.1144	1984500	750.0	0.0	0.00	1463.50	33.10

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
136 Sample ID: CCB7	**EPA Sample ID: CCB007**			**Date: 11/9/2015**		**22:46:05**	**Dilution:**	**1**
Ag3280	MB result is greater than High Det Lim	778.5700	1500			2.00	1.60	10.00
Al3082	MB result is greater than High Det Lim	49512.0000	300000			1.00	95.20	200.00
As1890	MB result is greater than High Det Lim	2578.2000	5000			0.00	3.90	10.00
Ba4554	MB result is greater than High Det Lim	10206.0000	20000			1.00	19.10	200.00
Be3130	MB result is greater than High Det Lim	1043.9000	2000			3.00	0.05	5.00
Ca2179	MB result is greater than High Det Lim	50111.0000	300000			1.00	503.00	5000.00
Cd2288	MB result is greater than High Det Lim	1037.0000	2000			0.00	0.60	5.00
Co2286	MB result is greater than High Det Lim	5020.8999	10000			0.00	0.25	50.00
Cr2677	MB result is greater than High Det Lim	10236.0000	20000			2.00	1.80	10.00
Cu3273	MB result is greater than High Det Lim	12302.0000	25000			3.00	5.00	25.00
Fe2611	MB result is greater than High Det Lim	24844.0000	150000			1.00	18.80	100.00
K_7664	MB result is greater than High Det Lim	39580.0000	112500			1.00	90.50	5000.00
Mg2790	MB result is greater than High Det Lim	50940.0000	300000			1.00	50.90	5000.00
Mn2576	MB result is greater than High Det Lim	4966.5000	10000			1.00	0.43	15.00
Na5895	MB result is greater than High Det Lim	27580.0000	100000			1.00	516.00	5000.00
Ni2316	MB result is greater than High Det Lim	4922.3999	10000			0.00	1.10	40.00
Pb2203	MB result is greater than High Det Lim	9767.5000	20000			0.00	3.50	10.00
Sb2068	MB result is greater than High Det Lim	2569.7000	5000			0.00	7.80	60.00
Se1960	MB result is greater than High Det Lim	1285.0000	2500			0.00	5.50	35.00
Tl1908	MB result is greater than High Det Lim	979.9600	2000			1.00	3.80	25.00
V_2924	MB result is greater than High Det Lim	2556.7000	5000			2.00	1.10	50.00
Zn2062	MB result is greater than High Det Lim	5078.2998	10000			0.00	6.60	60.00
Hardness	MB result is greater than High Det Lim	334.8981	1984500			0.00	1463.50	33.10
137 Sample ID: QQ88726-001	**EPA Sample ID: QQ88726-001**			**Date: 11/9/2015**		**22:51:13**	**Dilution:**	**1**
138 Sample ID: QQ88726-002	**EPA Sample ID: QQ88726-002**			**Date: 11/9/2015**		**22:56:03**	**Dilution:**	**1**
139 Sample ID: QK02005-001	**EPA Sample ID: MG9AP7**			**Date: 11/9/2015**		**23:00:51**	**Dilution:**	**1**
140 Sample ID: QK02005-002	**EPA Sample ID: MG9AP8**			**Date: 11/9/2015**		**23:05:41**	**Dilution:**	**1**
141 Sample ID: QK02005-003	**EPA Sample ID: MG9AP9**			**Date: 11/9/2015**		**23:10:32**	**Dilution:**	**1**
142 Sample ID: QK02005-004	**EPA Sample ID: MG9AQ0**			**Date: 11/9/2015**		**23:15:21**	**Dilution:**	**1**
143 Sample ID: QK02005-005	**EPA Sample ID: MG9AQ1**			**Date: 11/9/2015**		**23:20:11**	**Dilution:**	**1**
144 Sample ID: QK02005-006	**EPA Sample ID: MG9AQ2**			**Date: 11/9/2015**		**23:25:00**	**Dilution:**	**1**
145 Sample ID: QK02005-007	**EPA Sample ID: MG9AQ3**			**Date: 11/9/2015**		**23:29:49**	**Dilution:**	**1**
146 Sample ID: QK02005-008	**EPA Sample ID: MG9AQ4**			**Date: 11/9/2015**		**23:34:39**	**Dilution:**	**1**
Zn2062	PARAMETER IS OVER RANGE	24591.0000	10000			1.00	6.60	60.00
147 Sample ID: QK02005-009	**EPA Sample ID: MG9AQ5**			**Date: 11/9/2015**		**23:39:33**	**Dilution:**	**1**
148 Sample ID: QK02005-010	**EPA Sample ID: MG9AQ6**			**Date: 11/9/2015**		**23:44:23**	**Dilution:**	**1**
149 Sample ID: QK02005-011	**EPA Sample ID: MG9AQ7**			**Date: 11/9/2015**		**23:49:13**	**Dilution:**	**1**
150 Sample ID: QK02005-012	**EPA Sample ID: MG9AQ8**			**Date: 11/9/2015**		**23:54:03**	**Dilution:**	**1**
151 Sample ID: QK02005-013	**EPA Sample ID: MG9AQ9**			**Date: 11/9/2015**		**23:58:53**	**Dilution:**	**1**
152 Sample ID: QK02005-014	**EPA Sample ID: MG9AR0**			**Date: 11/10/2015**		**00:03:43**	**Dilution:**	**1**
153 Sample ID: QK02005-015	**EPA Sample ID: MG9AR1**			**Date: 11/10/2015**		**00:08:33**	**Dilution:**	**1**
154 Sample ID: QK02005-016	**EPA Sample ID: MG9AR2**			**Date: 11/10/2015**		**00:13:24**	**Dilution:**	**1**
155 Sample ID: QK02005-017	**EPA Sample ID: MG9AR3**			**Date: 11/10/2015**		**00:18:13**	**Dilution:**	**1**
156 Sample ID: QK02005-018	**EPA Sample ID: MG9AR4**			**Date: 11/10/2015**		**00:23:03**	**Dilution:**	**1**
157 Sample ID: QK02005-019	**EPA Sample ID: MG9AR5**			**Date: 11/10/2015**		**00:27:54**	**Dilution:**	**1**
158 Sample ID: QK02005-020	**EPA Sample ID: MG9AR6**			**Date: 11/10/2015**		**00:32:43**	**Dilution:**	**1**

Analytical Review Report

Data File: ***I5110915A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
159· Sample ID:	**CCV8** **EPA Sample ID:**	**CCV ISM-515**		**Date:**	**11/10/2015**	**00:37:31**	**Dilution:**	**1**
Na5895	RECOVERY IS OUT OF CRITERIA	28107.0000	100000	25000.0	112.0	1.00	516.00	5000.00
Hardness	RECOVERY IS OUT OF CRITERIA	339.9731	1984500	750.0	45.0	0.00	1463.50	33.10
160· Sample ID:	**CCB8** **EPA Sample ID:**	**CCB**		**Date:**	**11/10/2015**	**00:42:39**	**Dilution:**	**1**

Analyst: KDB
Status: Level 2 review released
Matrix: Solid

Printed: 11/10/15 1457

Prep Batch: 89048

ISM02.2 S PREP 3050B: ICP-AES - ICP-AES digestion for solids

Start Date: 11/07/2015 1246
End Date: 11/07/2015 1747
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: 1:1 HNO3/HNO3/H2O2/HCl
Reagents Vol. (mL): 10.0/5.0/10.0/10.0
Filter Paper Lot Num: 56030758
Chem ID: IM6310-01(1/16)/15-1042(7/17)/Balance ID: Balance #3(8)
Hot Block ID: Hot Block #3
Digestion Temperature (C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89048-001	MB	PBS	1	ISM02.2 ICP	1.0000		0.0	100			
QQ89048-002	LCS	LCS	1	ISM02.2 ICP	1.0000	15-868-01(8/16)	2.0	100			PIPETTE #247
QJ31006-001	Sample	MBC7E7	2	ISM02.2 ICP	1.2270		0.0	100	04/26/2016 1540	11/04/2015	
QJ31006-001MS	MS	MBC7E7S	2	ISM02.2 ICP	1.0210	15-934(10/16)	1.0	100			PIPETTE #247
QJ31006-001DU	Duplicate	MBC7E7D	2	ISM02.2 ICP	1.0800		0.0	100			
QJ31006-002	Sample	MBC7E8	2	ISM02.2 ICP	1.2270		0.0	100	04/26/2016 1545	11/04/2015	
QJ31006-003	Sample	MBC7F0	2	ISM02.2 ICP	1.2500		0.0	100	04/26/2016 1500	11/04/2015	
QJ31006-004	Sample	MBC7F2	2	ISM02.2 ICP	1.1210		0.0	100	04/26/2016 1425	11/04/2015	
QJ31006-005	Sample	MBC7F3	2	ISM02.2 ICP	1.3340		0.0	100	04/27/2016 1020	11/04/2015	
QJ31006-006	Sample	MBC7H1	2	ISM02.2 ICP	1.0520		0.0	100	04/27/2016 1015	11/04/2015	
QJ31006-007	Sample	MBC7H2	2	ISM02.2 ICP	1.0350		0.0	100	04/27/2016 1000	11/04/2015	
QJ31006-008	Sample	MBC7H3	2	ISM02.2 ICP	1.2790		0.0	100	04/27/2016 1025	11/04/2015	

(end of report)

Total Samples: 8

ISM STANDARD LOG

Analyst: RKT	Working Standard No.: ISM-456
Date: 10-6-15	Solvent: 5% HCl (15-929) 5% HNO_3 (15-931)
Comments: 509 ICP	Expires ~~1-6-16~~ RKT 10-8-15 1-6-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel	Single Elements Std				
Potassium	14-955	10,000	2	200	100,000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	~~14-955~~ 15-407	10,000	2	200	100,000
Thallium					
Titanium					
Vanadium					
Zinc					

RKT 10-6-15

RKT 10-6-15

ISM STANDARD LOG

Analyst: RLG	Working Standard No.: ISM-457
Date: 10-8-15	Solvent: 5% HCl (15-929) 5% HNO3 (15-931)
Comments: S10 ICP	Expires 1-8-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	0.2	200	10,000
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

RLG 10-8-15

RLG 10-8-15

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-458 (EXP 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S01 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.2	200	200
Antimony	15-78	60			60
Arsenic	15-76	10			10
Barium		2000			2000
Beryllium		5			5
Cadmium		5			5
Calcium		5000			5000
Chromium		10			10
Cobalt		50			50
Copper		25			25
Iron		100			100
Lead		10			10
Magnesium		5000			5000
Manganese		15			15
Molybdenum	15-79	50			50
Nickel	15-76	40			40
Potassium		5000			5000
Selenium		35			35
Silver		10			10
Sodium		3000			3000
Thallium		25			25
Titanium	15-79	50			50
Vanadium	15-76	50			50
Zinc		60			60

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-459 (EXP 1114116)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: 802 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.8	200	800
Antimony	15-78	60			240
Arsenic	15-76	10			40
Barium		200			800
Beryllium		5			20
Cadmium		5			20
Calcium		5000			20000
Chromium		10			40
Cobalt		50			200
Copper		25			100
Iron		100			400
Lead		10			40
Magnesium		5000			20000
Manganese		15			60
Molybdenum	15-79	50	0.4		100
Nickel	15-76	40	0.8		160
Potassium		5000			20000
Selenium		35			140
Silver		10			40
Sodium		3000			12000
Thallium		25			100
Titanium	15-79	50	0.4		100
Vanadium	15-76	50	0.8		200
Zinc		60			240

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-461 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S04 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	NA	NA	NA	NA	NA
Antimony	15-77	500	1.5	200	3750
Arsenic	15-81	500	↓	↓	3750
Barium	↓	2000	↓	↓	150000 ECS 10/14/15
Beryllium	↓	200	↓	↓	1500
Cadmium	↓	200	↓	↓	1500
Calcium	NA	NA	NA	NA	NA
Chromium	15-81	2000	1.5	200	15000
Cobalt	↓	1000	↓	↓	7500
Copper	↓	2500	↓	↓	18750
Iron	NA	NA	NA	NA	NA
Lead	15-81	2000	1.5	200	15000
Magnesium	NA	NA	NA	NA	NA
Manganese	15-81	1000	1.5	200	7500
Molybdenum	15-80	200	↓	↓	1500
Nickel	15-81	1000	↓	↓	7500
Potassium	NA	NA	NA	NA	NA
Selenium	15-81	250	1.5	200	1875
Silver	↓	150	↓	↓	1125
Sodium	NA	NA	NA	NA	NA
Thallium	15-81	200	1.5	200	1500
Titanium	15-80	200	↓	↓	1500
Vanadium	15-81	500	↓	↓	3750
Zinc	↓	1000	↓	↓	7500

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-462 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S05 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	NA	NA	NA	NA	NA
Antimony	15-77	500	2	200	5000
Arsenic	15-81	500	↓	↓	5000
Barium	↓	2000	↓	↓	20000
Beryllium	↓	200	↓	↓	2000
Cadmium	↓	200	↓	↓	2000
Calcium	NA	NA	NA	NA	NA
Chromium	15-81	2000	2	200	20000
Cobalt	↓	1000	↓	↓	10000
Copper	↓	2500	↓	↓	25000
Iron	NA	NA	NA	NA	NA
Lead	15-81	2000	2	200	20000
Magnesium	NA	NA	NA	NA	NA
Manganese	15-81	1000	2	200	10000
Molybdenum	15-80	200	↓	↓	2000
Nickel	15-81	1000	↓	↓	10000
Potassium	NA	NA	NA	NA	NA
Selenium	15-81	250	2	200	2500
Silver	↓	150	↓	↓	1500
Sodium	NA	NA	NA	NA	NA
Thallium	15-81	200	2	200	2000
Titanium	15-80	200	↓	↓	2000
Vanadium	15-81	500	↓	↓	5000
Zinc	↓	1000	↓	↓	10000

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-463 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: 5060 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	3	200	150000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	3	200	150000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	3	200	75000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	3	200	150000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	3	200	112500
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	3	200	75000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-464 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042) ECS 10/14/15
Comments: 507 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	6	200	300000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium					
Beryllium					
Cadmium					
Calcium	15-82	10000	6	200	300000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper					
Iron	15-82	5000	6	200	150000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	6	200	300000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	ECS 10/14/15 NA	↓	↓
Nickel			NA		
Potassium	15-82	7500	6	200	225000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	6	200	150000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-465 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: 508 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	1.5	200	75000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	1.5	200	75000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	1.5	200	37500
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	1.5	200	75000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	1.5	200	56250
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	1.5	200	37500
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-467 (EXP 11/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICSA ICP	* Provided by the EPA. No true value given by the EPA.

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1033	*	10	100	254900
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium					
Beryllium					
Cadmium					
Calcium	14-1033	*	10	100	244500
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper					
Iron	14-1033	*	10	100	100700
Lead	NA	NA	NA	NA	NA
Magnesium	14-1033	*	10	100	255400
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-468 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICSAB ICP	*Provided by the EPA. No true value given by the EPA.

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1034 +14-1033	*	10/10	100	246800
Antimony	↓	↓	10	↓	618
Arsenic			↓		104
Barium					537
Beryllium					495
Cadmium			↓		972
Calcium	+14-1033		10/10		234900
Chromium			10		542
Cobalt			↓		476
Copper			↓		571
Iron	+14-1033		10/10		99320
Lead			10		49
Magnesium	+14-1033		10/10		248000
Manganese	↓	↓	10	↓	507
Molybdenum	NA	NA	NA	NA	NA
Nickel	14-1034	*	10	100	954
Potassium	NA	NA	NA	NA	NA
Selenium	14-1034	*	10	100	46
Silver	↓	↓	↓	↓	201
Sodium	NA	NA	NA	NA	NA
Thallium	14-1034	*	10	100	108
Titanium	NA	NA	NA	NA	NA
Vanadium	14-1034	*	10	100	491
Zinc	↓	↓	↓	↓	952

ISM STANDARD LOG

Analyst: NUM	Working Standard No.: ISM-514
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-135	*	20	200	2521
Antimony	"	"	"	"	994
Arsenic	"	"	"	"	999
Barium	"	"	"	"	497
Beryllium	"	"	"	"	495
Cadmium	"	"	"	"	496
Calcium	"	"	"	"	10026
Chromium	"	"	"	"	490
Cobalt	"	"	"	"	499
Copper	"	"	"	"	492
Iron	"	"	"	"	5082
Lead	"	"	"	"	1002
Magnesium	"	"	"	"	6074
Manganese	"	"	"	"	499
Molybdenum	NA	NA	"	NA	NA
Nickel	15-135	*	"	200	503
Potassium	"	"	"	"	1002
Selenium	"	"	"	"	1029
Silver	"	"	"	"	501
Sodium	"	"	"	"	10097
Thallium	"	"	"	"	1028
Titanium	NA	NA	"	NA	NA
Vanadium	15-135	*	"	200	501
Zinc	"	"	"	"	1025

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-515
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S03/CCV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-377	10000	2.5	500	50000
Antimony	15-77	500	"	"	2500
Arsenic	15-81	500	"	"	2500
Barium	"	2000	"	"	10000
Beryllium	"	200	"	"	1000
Cadmium	"	200	"	"	1000
Calcium	15-377	10000	"	"	50000
Chromium	15-81	2000	"	"	10000
Cobalt	"	1000	"	"	5000
Copper	"	2500	"	"	12500
Iron	15-377	5000	"	"	25000
Lead	15-81	2000	"	"	10000
Magnesium	15-377	10000	"	"	50000
Manganese	15-81	1000	"	"	5000
Molybdenum	15-80	200	"	"	1000
Nickel	15-81	1000	"	"	5000
Potassium	15-377	7500	"	"	37500
Selenium	15-81	250	"	"	1250
Silver	"	150	"	"	750
Sodium	15-377	5000	"	"	25000
Thallium	15-81	200	"	"	1000
Titanium	15-80	200	"	"	1000
Vanadium	15-81	500	"	"	2500
Zinc	"	1000	"	"	5000

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

MERCURY

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
Method Detection Limit (Form 9-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
Mercury Raw Data
Mercury Preparation Log Books, Preparation Records, Analysis Records

Mercury
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No: 45717 MA No.: SDG No: MBC7E7

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method: ICP-AES	ICP-MS	Mercury	Cyanide
MBC7E7	QJ31006-001			X	
MBC7E7D	QJ31006-001DU			X	
MBC7E7S	QJ31006-001MS			X	
MBC7E8	QJ31006-002			X	
MBC7F0	QJ31006-003			X	
MBC7F2	QJ31006-004			X	
MBC7F3	QJ31006-005			X	
MBC7H1	QJ31006-006			X	
MBC7H2	QJ31006-007			X	
MBC7H3	QJ31006-008			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Robert Zhu

Date: 11/10/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-001

% Solids: 80.4 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.16		11/05/2015	16:09:35

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7E8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-002

% Solids: 84.4 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.071	J	11/05/2015	16:15:59

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-003

% Solids: 71.9 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.40		11/05/2015	16:18:00

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-004

% Solids: 77.4 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.15	U	11/05/2015	16:20:22

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-005

% Solids: 91.9 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.095	J	11/05/2015	16:27:16

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-006

% Solids: 86.1 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.27		11/05/2015	16:29:41

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-007

% Solids: 86.2 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	2.0	D	11/05/2015	16:37:36

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7H3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Lab Sample ID: QJ31006-008

% Solids: 89.3 Date Received: 10/31/2015

Analytical Method: CVAA

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	U	11/05/2015	16:33:47

NOTE: Hardness (total) is reported in mg/L

Comments:

Mercury
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3110515B - Copy Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.3	108		5.0	5.1	102		5.1	102	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3110515B - Copy Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	5.2	104		5.1	102	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG3110515B - Copy Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	5.0	100				

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Preparation Blank Matrix: SOIL

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

Analytical Method: CVAA Preparation Batch: 88502

Run Batch: HG3110515B - Copy Preparation Method 7471B

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBS	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.011	J

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG3110515B - Copy Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID:	Q	ID:	Q
Mercury			0.20	U	0.20	U				

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7E7S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Analytical Method: CVAA

% Solids for Sample: 80.4

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	75 - 125	1.0		0.16		0.73	115	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7E7D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Matrix: SOIL Analytical Method: CVAA

% Solids: 80.4

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

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury	0.13	0.16		0.14		13	

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Analytical Method: CVAA Instrument ID: Hg3

Preparation Method: 7471B

Concentration Units (ug/L, ug, mg/kg): MG/KG

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.0039	03/25/2015

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/05/2015 End Date: 11/05/2015

Run Batch: HG3110515B - Copy

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S01	1.0	1442															X												
S02	1.0	1444															X												
S03	1.0	1447															X												
S04	1.0	1449															X												
S05	1.0	1451															X												
S06	1.0	1453															X												
ICV001	1.0	1456															X												
ICB001	1.0	1458															X												
CCV001	1.0	1502															X												
CCB001	1.0	1504															X												
ZZZZZZ	1.0	1506																											
ZZZZZZ	1.0	1508																											
ZZZZZZ	1.0	1510																											
ZZZZZZ	1.0	1513																											
ZZZZZZ	1.0	1515																											
ZZZZZZ	1.0	1517																											
ZZZZZZ	1.0	1519																											
ZZZZZZ	1.0	1521																											
ZZZZZZ	1.0	1523																											
ZZZZZZ	1.0	1525																											
CCV002	1.0	1527															X												
CCB002	1.0	1529															X												
ZZZZZZ	1.0	1531																											
ZZZZZZ	1.0	1534																											
ZZZZZZ	1.0	1536																											
ZZZZZZ	1.0	1538																											
ZZZZZZ	1.0	1540																											
ZZZZZZ	1.0	1543																											
ZZZZZZ	1.0	1545																											
ZZZZZZ	1.0	1548																											
ZZZZZZ	1.0	1551																											
ZZZZZZ	1.0	1553																											
CCV003	1.0	1555															X												
CCB003	1.0	1557															X												
ZZZZZZ	1.0	1600																											
ZZZZZZ	1.0	1602																											
ZZZZZZ	1.0	1604																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/05/2015 End Date: 11/05/2015

Run Batch: HG3110515B - Copy

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
PBS	1.0	1607															X												
MBC7E7	1.0	1609															X												
MBC7E7S	1.0	1611															X												
MBC7E7D	1.0	1613															X												
MBC7E8	1.0	1615															X												
MBC7F0	1.0	1618															X												
MBC7F2	1.0	1620															X												
CCV004	1.0	1622															X												
CCB004	1.0	1625															X												
MBC7F3	1.0	1627															X												
MBC7H1	1.0	1629															X												
MBC7H2	1.0	1631																											
MBC7H3	1.0	1633															X												
MBC7H2	5.0	1637															X												
CCV005	1.0	1639															X												
CCB005	1.0	1641															X												
ZZZZZZ	1.0	1644																											
ZZZZZZ	1.0	1646																											
ZZZZZZ	1.0	1649																											
ZZZZZZ	1.0	1651																											
ZZZZZZ	1.0	1653																											
ZZZZZZ	1.0	1655																											
ZZZZZZ	1.0	1657																											
ZZZZZZ	1.0	1700																											
ZZZZZZ	1.0	1702																											
ZZZZZZ	1.0	1704																											
ZZZZZZ	1.0	1706																											
ZZZZZZ	1.0	1708																											
ZZZZZZ	1.0	1710																											
ZZZZZZ	1.0	1712																											
ZZZZZZ	1.0	1714																											
ZZZZZZ	1.0	1716																											
ZZZZZZ	1.0	1719																											
ZZZZZZ	1.0	1721																											
ZZZZZZ	1.0	1723																											
ZZZZZZ	10	1725																											
ZZZZZZ	1.0	1728																											

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7E7

Instrument ID: Hg3 Analytical Method: CVAA

Start Date: 11/05/2015 End Date: 11/05/2015

Run Batch: HG3110515B - Copy

EPA Sample NO.	D/F	Time	Analytes																										
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1730																										
ZZZZZZ	1.0	1732																										
ZZZZZZ	1.0	1735																										
ZZZZZZ	1.0	1737																										
ZZZZZZ	1.0	1740																										
ZZZZZZ	1.0	1742																										
ZZZZZZ	1.0	1744																										
ZZZZZZ	1.0	1746																										
ZZZZZZ	1.0	1748																										
ZZZZZZ	1.0	1750																										
ZZZZZZ	1.0	1752																										
ZZZZZZ	1.0	1754																										
ZZZZZZ	1.0	1757																										
ZZZZZZ	1.0	1759																										
ZZZZZZ	1.0	1801																										
ZZZZZZ	1.0	1803																										
ZZZZZZ	1.0	1805																										
ZZZZZZ	1.0	1807																										
ZZZZZZ	34	1809																										
ZZZZZZ	1.0	1811																										
ZZZZZZ	1.0	1813																										
ZZZZZZ	1.0	1816																										
ZZZZZZ	1.0	1818																										
ZZZZZZ	1.0	1820																										
ZZZZZZ	1.0	1822																										
ZZZZZZ	1.0	1825																										
ZZZZZZ	1.0	1827																										
ZZZZZZ	1.0	1829																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1833																										
ZZZZZZ	1.0	1836																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** **SDG No.:** MBC7E7

Instrument ID: Hg3 **Start Date:** 11/5/2015

Analytical Method: CVAA **Run Batch:** HG3110515B - Copy

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	-0.014	0	0.200	0.18	-10	0.500	0.49	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7E7

Instrument ID: Hg3 **Start Date:** 11/5/2015

Analytical Method: CVAA **Run Batch:** HG3110515B - Copy

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	1.0	3	5.00	5.0	1	10.0	10.0	0

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7E7

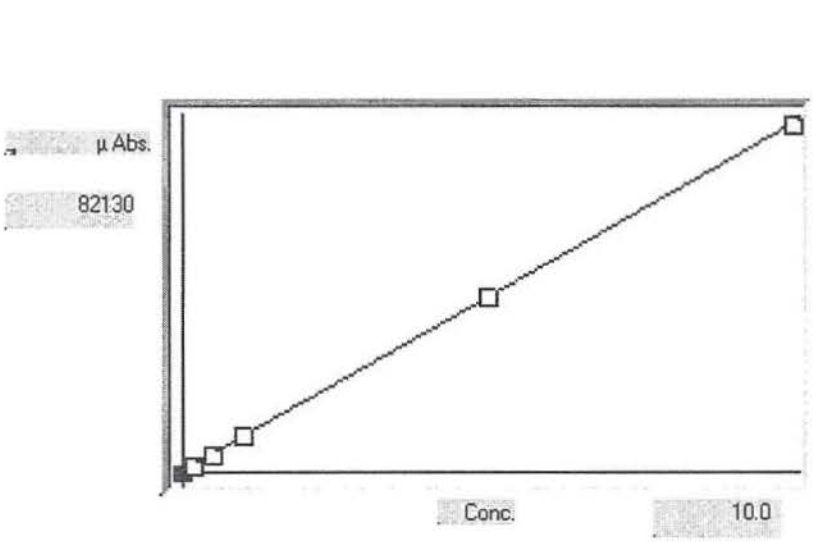
Instrument ID: Hg3 **Start Date:** 11/5/2015

Analytical Method: CVAA **Run Batch:** HG3110515B - Copy

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	1.0000	1.00	-0.0235	Lin. Req	None

Mercury
Raw Data

Protocol: HG3ISMS



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.014	-.014	81	0	80				
02	.20000	.181	-.019	1679	0%	1678				
03	.50000	.488	-.012	4203	0%	4202				
04	1.0000	1.03	.026	8619	0%	8619				
05	5.0000	5.04	.042	41600	0%	41600				
06	10.000	9.98	-.023	82131	0%	82130				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 S0 Seq: 21 14:42:51 05 Nov 15 HG

Hg .000 ppb 80

*** Standard: 2 Rep: 1 S01 Seq: 22 14:44:51 05 Nov 15 HG

Hg .200 ppb 1678

*** Standard: 3 Rep: 1 Seq: 23 14:47:02 05 Nov 15 HG

Hg .500 ppb 4202 S02

*** Standard: 4 Rep: 1 Seq: 24 14:49:32 05 Nov 15 HG

Hg 1.00 ppb 8619 S03

*** Standard: 5 Rep: 1 Seq: 25 14:51:32 05 Nov 15 HG

Hg 5.00 ppb 41600 S04

*** Standard: 6 Rep: 1 Seq: 26 14:53:42 05 Nov 15 HG

Hg 10.0 ppb 82130 S05

*** Check Standard: 3 Ck3ICV Seq: 27 14:56:10 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.	4.26	4.00	ppb	.000 %

*** Check Standard: 1 Ck1blank ICB Seq: 28 14:58:20 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.011	.199	ppb	.000 %

*** Check Standard: 4 Ck4CCV CCV001 Seq: 29 15:02:04 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	5.11	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank CCB001 Seq: 30 15:04:18 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.092	.199	ppb	.000 %

*** Sample ID: QQ88496001 110515C Seq: 31 15:06:17 05 Nov 15 HG
PBS

Hg -.084 ppb .000 % -.084

==========

*** Sample ID: QJ31005001 110515C Seq: 32 15:08:41 05 Nov 15 HG
MBC765

Hg .530 ppb .000 % .530

*** Sample ID: QJ31005001 110515C Seq: 33 15:10:50 05 Nov 15 HG
MBC765S

Hg 3.63 ppb .000 % 3.63

*** Sample ID: QJ31005001 110515C Seq: 34 15:13:22 05 Nov 15 HG
MBC765D

Hg .854 ppb .000 % .854

==========

*** Sample ID: QJ31005002 110515C Seq: 35 15:15:23 05 Nov 15 HG
MBC766

Hg .327 ppb .000 % .327

==========

11/10/15

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QJ31005003 110515C Seq: 36 15:17:23 05 Nov 15 HG
MBC767

Hg	4.00	ppb	.000	%	4.00

*** Sample ID: QJ31005004 110515C Seq: 37 15:19:23 05 Nov 15 HG
MBC768

Hg	.350	ppb	.000	%	.350

*** Sample ID: QJ31005005 110515C Seq: 38 15:21:29 05 Nov 15 HG
MBC769

Hg	1.87	ppb	.000	%	1.87

*** Sample ID: QJ31005006 110515C Seq: 39 15:23:30 05 Nov 15 HG
MBC770

Hg	5.74	ppb	.000	%	5.74

*** Sample ID: QJ31005007 110515C Seq: 40 15:25:31 05 Nov 15 HG
MBC771

Hg	2.14	ppb	.000	%	2.14

*** Check Standard: 4 Ck4CCV CCV002 Seq: 41 15:27:31 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	5.12	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank CCB002 Seq: 42 15:29:33 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.037	.199	ppb	.000 %

*** Sample ID: QJ31005008 110515C Seq: 43 15:31:33 05 Nov 15 HG
MBC774

Hg	1.91	ppb	.000	%	1.91

*** Sample ID: QJ31005009 110515C Seq: 44 15:34:04 05 Nov 15 HG
MBC7D5

Hg	.241	ppb	.000	%	.241

*** Sample ID: QJ31005010 110515C Seq: 45 15:36:14 05 Nov 15 HG
MBC7D6

Hg	.204	ppb	.000	%	.204

*** Sample ID: QJ31005011 110515C Seq: 46 15:38:36 05 Nov 15 HG
MBC7D7

Hg	.140	ppb	.000	%	.140

*** Sample ID: QJ31005012 110515C Seq: 47 15:40:39 05 Nov 15 HG
MBC7D8

Hg	.061	ppb	.000	%	.061

*** Sample ID: QJ31005013 110515C Seq: 48 15:43:10 05 Nov 15 HG
MBC7D9

Hg	.590	ppb	.000	%	.590

FC 11/10/15

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QJ31005014 110515C Seq: 49 15:45:50 05 Nov 15 HG
MBC7E0

Hg	.069	ppb	.000	%	.069

=

*** Sample ID: QJ31005015 110515C Seq: 50 15:48:24 05 Nov 15 HG
MBC7E1

Hg	5.75	ppb	.000	%	5.75

=

*** Sample ID: QJ31005016 110515C Seq: 51 15:51:26 05 Nov 15 HG
MBC7E2

Hg	.250	ppb	.000	%	.250

=

*** Sample ID: QJ31005017 110515C Seq: 52 15:53:27 05 Nov 15 HG
MBC7E3

Hg	2.95	ppb	.000	%	2.95

=

*** Check Standard: 4 Ck4CCV CCV003 Seq: 53 15:55:43 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	5.17	5.00	ppb	.000 %

=

*** Check Standard: 1 Ck1blank CCB003 Seq: 54 15:57:46 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.030	.199	ppb	.000 %

=

*** Sample ID: QJ31005018 110515C Seq: 55 16:00:40 05 Nov 15 HG
MBC7E4

Hg	.222	ppb	.000	%	.222

=

*** Sample ID: QJ31005019 110515C Seq: 56 16:02:51 05 Nov 15 HG
MBC7E5

Hg	.535	ppb	.000	%	.535

=

*** Sample ID: QJ31005020 110515C Seq: 57 16:04:53 05 Nov 15 HG
MBC7E6

Hg	.348	ppb	.000	%	.348

=

*** Sample ID: QQ88502001 110515C Seq: 58 16:07:36 05 Nov 15 HG
PBS

Hg	.056	ppb	.000	%	.056

=

*** Sample ID: QJ31006001 110515C Seq: 59 16:09:35 05 Nov 15 HG
MCB7E7

Hg	.777	ppb	.000	%	.777

=

*** Sample ID: QJ31006001 110515C Seq: 60 16:11:36 05 Nov 15 HG
MCB7E7S

Hg	4.16	ppb	.000	%	4.16

=

*** Sample ID: QJ31006001 110515C Seq: 61 16:13:39 05 Nov 15 HG
MCB7E7D

Hg	.631	ppb	.000	%	.631

=

*** Sample ID: QJ31006002 110515C Seq: 62 16:15:59 05 Nov 15 HG
MCB7E8

Hg	.340	ppb	.000	%	.340

11/10/15

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QJ31006003 110515C Seq: 63 16:18:00 05 Nov 15 HG
MCB7F0

Hg	1.56	ppb	.000	%	1.56

*** Sample ID: QJ31006004 110515C Seq: 64 16:20:22 05 Nov 15 HG
MCB7F2

Hg	.013	ppb	.000	%	.013

*** Check Standard: 4 Ck4CCV CCV004 Seq: 65 16:22:23 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	5.11	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank CCB004 Seq: 66 16:25:05 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.011	.199	ppb	.000 %

*** Sample ID: QJ31006005 110515C Seq: 67 16:27:16 05 Nov 15 HG
MCB7F3

Hg	.511	ppb	.000	%	.511

*** Sample ID: QJ31006006 110515C Seq: 68 16:29:41 05 Nov 15 HG
MCB7H1

Hg	1.19	ppb	.000	%	1.19

*** Sample ID: QJ31006007 110515C Seq: 69 16:31:46 05 Nov 15 HG
MCB7H2

Hg	11.5	ppb	.000	%	11.5

*** Sample ID: QJ31006008 110515C Seq: 70 16:33:47 05 Nov 15 HG
MCB7H3

Hg	.353	ppb	.000	%	.353

*** Sample ID: QJ31006007 110515C Seq: 71 16:37:36 05 Nov 15 HG
MCB7H2(5)

Hg	1.87	ppb	.000	%	1.87

*** Check Standard: 4 Ck4CCV CCV005 Seq: 72 16:39:41 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	5.03	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank CCB005 Seq: 73 16:41:39 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.059	.199	ppb	.000 %

*** Sample ID: QQ88821001 Seq: 74 16:44:34 05 Nov 15 HG
QQ88821001

Hg	-.007	ppb	.000	%	-.007

*** Sample ID: QQ88821002 Seq: 75 16:46:38 05 Nov 15 HG
QQ88821002

Hg	3.08	ppb	.000	%	3.08

*** Sample ID: QJ31002001 Seq: 76 16:49:21 05 Nov 15 HG
88821

Hg	.057	ppb	.000	%	.057

PB 11/10/15

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QJ31002002 Seq: 77 16:51:25 05 Nov 15 HG
88821
Hg .008 ppb .000 % .008

*** Sample ID: QJ31002004 Seq: 78 16:53:36 05 Nov 15 HG
88821
Hg .004 ppb .000 % .004

*** Sample ID: QJ31002005 Seq: 79 16:55:39 05 Nov 15 HG
88821
Hg -.007 ppb .000 % -.007

*** Sample ID: QJ31002006 Seq: 80 16:57:52 05 Nov 15 HG
88821
Hg .123 ppb .000 % .123

*** Sample ID: QJ31002007 Seq: 81 17:00:06 05 Nov 15 HG
88821
Hg .020 ppb .000 % .020

*** Sample ID: QJ31002008 Seq: 82 17:02:08 05 Nov 15 HG
88821
Hg .012 ppb .000 % .012

*** Sample ID: QJ31002009 Seq: 83 17:04:19 05 Nov 15 HG
88821
Hg .003 ppb .000 % .003

*** Check Standard: 4 Ck4CCV CCV0004 Seq: 84 17:06:20 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	5.05	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank CCB0004 Seq: 85 17:08:21 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.032	.199	ppb	.000 %

*** Sample ID: QJ30030002 Seq: 86 17:10:41 05 Nov 15 HG
88821
Hg 3.59 ppb .000 % 3.59

*** Sample ID: QJ30030002 Seq: 87 17:12:44 05 Nov 15 HG
88821MS
Hg 6.59 ppb .000 % 6.59

*** Sample ID: QJ30030002 Seq: 88 17:14:46 05 Nov 15 HG
88821MSD
Hg 6.95 ppb .000 % 6.95

*** Sample ID: QJ30030003 Seq: 89 17:16:49 05 Nov 15 HG
88821
Hg 4.08 ppb .000 % 4.08

*** Sample ID: QK04054008 Seq: 90 17:19:19 05 Nov 15 HG
88821
Hg -.022 ppb .000 % -.022

11/18/15

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QK03060001 Seq: 91 17:21:21 05 Nov 15 HG

88821

Hg	-.019	ppb	.000	%	-.019

*** Sample ID: QK04018001 Seq: 92 17:23:45 05 Nov 15 HG

88821(10)

Hg	.983	ppb	.000	%	.983

*** Sample ID: QK04019001 Seq: 93 17:25:57 05 Nov 15 HG

88821(5)

Hg	.339	ppb	.000	%	.339

*** Sample ID: QQ88820001 Seq: 94 17:28:06 05 Nov 15 HG

QQ88820001

Hg	-.009	ppb	.000	%	-.009

*** Sample ID: QQ88820002 Seq: 95 17:30:10 05 Nov 15 HG

QQ88820002

Hg	3.06	ppb	.000	%	3.06

*** Check Standard: 4 Ck4CCV CCV0007 Seq: 96 17:32:45 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.6	4.98	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank CCB007 Seq: 97 17:35:25 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.017	.199	ppb	.000 %

*** Sample ID: QJ30006009 Seq: 98 17:37:29 05 Nov 15 HG

88820

Hg	.096	ppb	.000	%	.096

*** Sample ID: QJ30006010 Seq: 99 17:40:06 05 Nov 15 HG

88820

Hg	.121	ppb	.000	%	.121

*** Sample ID: QJ30006011 Seq: 100 17:42:08 05 Nov 15 HG

88820

Hg	.089	ppb	.000	%	.089

*** Sample ID: QJ30006012 Seq: 101 17:44:09 05 Nov 15 HG

88820

Hg	.110	ppb	.000	%	.110

*** Sample ID: QJ30006013 Seq: 102 17:46:21 05 Nov 15 HG

88820

Hg	.081	ppb	.000	%	.081

*** Sample ID: QJ30006014 Seq: 103 17:48:26 05 Nov 15 HG

88820

Hg	.078	ppb	.000	%	.078

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QJ30006015 Seq: 104 17:50:29 05 Nov 15 HG
88820
Hg .105 ppb .000 % .105

*** Sample ID: QJ30006016 Seq: 105 17:52:44 05 Nov 15 HG
88820
Hg 3.37 ppb .000 % 3.37

*** Sample ID: QJ30006016 Seq: 106 17:54:51 05 Nov 15 HG
88820MS
Hg 3.36 ppb .000 % 3.36

*** Sample ID: QJ30006016 Seq: 107 17:57:14 05 Nov 15 HG
88820MSD
Hg .175 ppb .000 % .175

*** Check Standard: 4 Ck4CCV CCV008 Seq: 108 17:59:20 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	5.05	5.00	ppb	.000 %

*** Check Standard: 1 Ck1blank CCB008 Seq: 109 18:01:21 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.041	.199	ppb	.000 %

*** Sample ID: QJ30006017 Seq: 110 18:03:20 05 Nov 15 HG
88820
Hg .152 ppb .000 % .152

*** Sample ID: QJ30006018 Seq: 111 18:05:25 05 Nov 15 HG
88820
Hg .182 ppb .000 % .182

*** Sample ID: QJ30006019 Seq: 112 18:07:30 05 Nov 15 HG
88820
Hg .208 ppb .000 % .208

*** Sample ID: QJ30006020 Seq: 113 18:09:33 05 Nov 15 HG
88820
Hg .092 ppb .000 % .092

*** Sample ID: QJ30006021 Seq: 114 18:11:35 05 Nov 15 HG
88820
Hg .203 ppb .000 % .203

*** Sample ID: QJ30006022 Seq: 115 18:13:39 05 Nov 15 HG
88820
Hg 3.32 ppb .000 % 3.32

*** Sample ID: QJ30006022 Seq: 116 18:16:11 05 Nov 15 HG
88820
Hg 3.27 ppb .000 % 3.27

*** Sample ID: QJ30006022 Seq: 117 18:18:13 05 Nov 15 HG
88820
Hg .050 ppb .000 % .050

FTB 11/10/15

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: QJ20017021 Seq: 118 18:20:15 05 Nov 15 HG

88820

Hg .027 ppb .000 % .027

=

*** Sample ID: QJ20017022 Seq: 119 18:22:38 05 Nov 15 HG

88820

Hg 19.4 ppb .000 % 19.4

=

*** Check Standard: 4 Ck4CCV CCV009 Seq: 120 18:25:24 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.7	4.99	5.00	ppb	.000 %

=

*** Check Standard: 1 Ck1blank CCB009 Seq: 121 18:27:25 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.035	.199	ppb	.000 %

=

*** Sample ID: QJ20017023 Seq: 122 18:29:28 05 Nov 15 HG

88820

Hg .009 ppb .000 % .009

=

*** Sample ID: QJ20017024 Seq: 123 18:31:30 05 Nov 15 HG

88820

Hg -.012 ppb .000 % -.012

=

*** Check Standard: 4 Ck4CCV Seq: 124 18:33:43 05 Nov 15 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.8	4.94	5.00	ppb	.000 %

=

*** Check Standard: 1 Ck1blank Seq: 125 18:36:32 05 Nov 15 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.199	ppb	.000 %

=

FP 11/10/15

Mercury Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***HG3110515B - Copy***

Analyst: ***COH***

Hg3

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1	Sample ID: Std01Rep1	EPA Sample ID: S01			Date: 11/5/2015	14:42:51	Dilution:		1
2	Sample ID: Std02Rep1	EPA Sample ID: S02			Date: 11/5/2015	14:44:51	Dilution:		1
3	Sample ID: Std03Rep1	EPA Sample ID: S03			Date: 11/5/2015	14:47:02	Dilution:		1
4	Sample ID: Std04Rep1	EPA Sample ID: S04			Date: 11/5/2015	14:49:32	Dilution:		1
5	Sample ID: Std05Rep1	EPA Sample ID: S05			Date: 11/5/2015	14:51:32	Dilution:		1
6	Sample ID: Std06Rep1	EPA Sample ID: S06			Date: 11/5/2015	14:53:42	Dilution:		1
7	Sample ID: ICV1	EPA Sample ID: ICV001			Date: 11/5/2015	14:56:10	Dilution:		1
8	Sample ID: ICB1	EPA Sample ID: ICB001			Date: 11/5/2015	14:58:20	Dilution:		1
9	Sample ID: CCV1	EPA Sample ID: CCV001			Date: 11/5/2015	15:02:04	Dilution:		1
10	Sample ID: CCB1	EPA Sample ID: CCB001			Date: 11/5/2015	15:04:18	Dilution:		1
11	Sample ID: QQ88496-001	EPA Sample ID: PBS			Date: 11/5/2015	15:06:17	Dilution:		1
12	Sample ID: QJ31005-001	EPA Sample ID: MBC765			Date: 11/5/2015	15:08:41	Dilution:		1
13	Sample ID: QJ31005-001MS	EPA Sample ID: MBC765S			Date: 11/5/2015	15:10:50	Dilution:		1
14	Sample ID: QJ31005-001DU	EPA Sample ID: MBC765D			Date: 11/5/2015	15:13:22	Dilution:		1
15	Sample ID: QJ31005-002	EPA Sample ID: MBC766			Date: 11/5/2015	15:15:23	Dilution:		1
16	Sample ID: QJ31005-003	EPA Sample ID: MBC767			Date: 11/5/2015	15:17:23	Dilution:		1
17	Sample ID: QJ31005-004	EPA Sample ID: MBC768			Date: 11/5/2015	15:19:23	Dilution:		1
18	Sample ID: QJ31005-005	EPA Sample ID: MBC769			Date: 11/5/2015	15:21:29	Dilution:		1
19	Sample ID: QJ31005-006	EPA Sample ID: MBC770			Date: 11/5/2015	15:23:30	Dilution:		1
20	Sample ID: QJ31005-007	EPA Sample ID: MBC771			Date: 11/5/2015	15:25:31	Dilution:		1
21	Sample ID: CCV2	EPA Sample ID: CCV002			Date: 11/5/2015	15:27:31	Dilution:		1
22	Sample ID: CCB2	EPA Sample ID: CCB002			Date: 11/5/2015	15:29:33	Dilution:		1
23	Sample ID: QJ31005-008	EPA Sample ID: MBC774			Date: 11/5/2015	15:31:33	Dilution:		1
24	Sample ID: QJ31005-009	EPA Sample ID: MBC7D5			Date: 11/5/2015	15:34:04	Dilution:		1
25	Sample ID: QJ31005-010	EPA Sample ID: MBC7D6			Date: 11/5/2015	15:36:14	Dilution:		1
26	Sample ID: QJ31005-011	EPA Sample ID: MBC7D7			Date: 11/5/2015	15:38:36	Dilution:		1
27	Sample ID: QJ31005-012	EPA Sample ID: MBC7D8			Date: 11/5/2015	15:40:39	Dilution:		1
28	Sample ID: QJ31005-013	EPA Sample ID: MBC7D9			Date: 11/5/2015	15:43:10	Dilution:		1
29	Sample ID: QJ31005-014	EPA Sample ID: MBC7E0			Date: 11/5/2015	15:45:50	Dilution:		1
30	Sample ID: QJ31005-015	EPA Sample ID: MBC7E1			Date: 11/5/2015	15:48:24	Dilution:		1
31	Sample ID: QJ31005-016	EPA Sample ID: MBC7E2			Date: 11/5/2015	15:51:26	Dilution:		1
32	Sample ID: QJ31005-017	EPA Sample ID: MBC7E3			Date: 11/5/2015	15:53:27	Dilution:		1
33	Sample ID: CCV3	EPA Sample ID: CCV003			Date: 11/5/2015	15:55:43	Dilution:		1
34	Sample ID: CCB3	EPA Sample ID: CCB003			Date: 11/5/2015	15:57:46	Dilution:		1
35	Sample ID: QJ31005-018	EPA Sample ID: MBC7E4			Date: 11/5/2015	16:00:40	Dilution:		1
36	Sample ID: QJ31005-019	EPA Sample ID: MBC7E5			Date: 11/5/2015	16:02:51	Dilution:		1
37	Sample ID: QJ31005-020	EPA Sample ID: MBC7E6			Date: 11/5/2015	16:04:53	Dilution:		1
38	Sample ID: QQ88502-001	EPA Sample ID: PBS			Date: 11/5/2015	16:07:36	Dilution:		1
39	Sample ID: QJ31006-001	EPA Sample ID: MBC7E7			Date: 11/5/2015	16:09:35	Dilution:		1
40	Sample ID: QJ31006-001MS	EPA Sample ID: MBC7E7S			Date: 11/5/2015	16:11:36	Dilution:		1
41	Sample ID: QJ31006-001DU	EPA Sample ID: MBC7E7D			Date: 11/5/2015	16:13:39	Dilution:		1

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
42 Sample ID:	QJ31006-002	EPA Sample ID:	MBC7E8		Date:	11/5/2015	16:15:59	Dilution:	1
43 Sample ID:	QJ31006-003	EPA Sample ID:	MBC7F0		Date:	11/5/2015	16:18:00	Dilution:	1
44 Sample ID:	QJ31006-004	EPA Sample ID:	MBC7F2		Date:	11/5/2015	16:20:22	Dilution:	1
45 Sample ID:	CCV4	EPA Sample ID:	CCV004		Date:	11/5/2015	16:22:23	Dilution:	1
46 Sample ID:	CCB4	EPA Sample ID:	CCB004		Date:	11/5/2015	16:25:05	Dilution:	1
47 Sample ID:	QJ31006-005	EPA Sample ID:	MBC7F3		Date:	11/5/2015	16:27:16	Dilution:	1
48 Sample ID:	QJ31006-006	EPA Sample ID:	MBC7H1		Date:	11/5/2015	16:29:41	Dilution:	1
49 Sample ID:	QJ31006-007	EPA Sample ID:	MBC7H2		Date:	11/5/2015	16:31:46	Dilution:	1
Hg	PARAMETER IS OVER RANGE		11.5000	10			0.00	0.00	0.10
50 Sample ID:	QJ31006-008	EPA Sample ID:	MBC7H3		Date:	11/5/2015	16:33:47	Dilution:	1
51 Sample ID:	QJ31006-007	EPA Sample ID:	MBC7H2		Date:	11/5/2015	16:37:36	Dilution:	5
52 Sample ID:	CCV5	EPA Sample ID:	CCV005		Date:	11/5/2015	16:39:41	Dilution:	1
53 Sample ID:	CCB5	EPA Sample ID:	CCB005		Date:	11/5/2015	16:41:39	Dilution:	1
54 Sample ID:	QQ88821-001	EPA Sample ID:	QQ88821-001MB		Date:	11/5/2015	16:44:34	Dilution:	1
55 Sample ID:	QQ88821-002	EPA Sample ID:	LCS		Date:	11/5/2015	16:46:38	Dilution:	1
56 Sample ID:	QJ31002-001	EPA Sample ID:	SS-001 (0-2) (103015)		Date:	11/5/2015	16:49:21	Dilution:	1
57 Sample ID:	QJ31002-002	EPA Sample ID:	SS-001 (14-16) (103015)		Date:	11/5/2015	16:51:25	Dilution:	1
58 Sample ID:	QJ31002-004	EPA Sample ID:	SS-002 (4-6) (103015)		Date:	11/5/2015	16:53:36	Dilution:	1
59 Sample ID:	QJ31002-005	EPA Sample ID:	SS-002 (12-14) (103015)		Date:	11/5/2015	16:55:39	Dilution:	1
60 Sample ID:	QJ31002-006	EPA Sample ID:	SS-003 (4-6) (103015)		Date:	11/5/2015	16:57:52	Dilution:	1
61 Sample ID:	QJ31002-007	EPA Sample ID:	SS-003 (28-30) (103015)		Date:	11/5/2015	17:00:06	Dilution:	1
62 Sample ID:	QJ31002-008	EPA Sample ID:	SS-004 (16-18) (103015)		Date:	11/5/2015	17:02:08	Dilution:	1
63 Sample ID:	QJ31002-009	EPA Sample ID:	SS-004 (22-24) (103015)		Date:	11/5/2015	17:04:19	Dilution:	1
64 Sample ID:	Ck4CCV	EPA Sample ID:	Ck4CCV		Date:	11/5/2015	17:06:20	Dilution:	1
65 Sample ID:	Ck1blank	EPA Sample ID:	Ck1blank		Date:	11/5/2015	17:08:21	Dilution:	1
66 Sample ID:	QJ30030-002	EPA Sample ID:	MC151030 0820 RF		Date:	11/5/2015	17:10:41	Dilution:	1
67 Sample ID:	QJ30030-002MS	EPA Sample ID:	MC151030 0820 RFS		Date:	11/5/2015	17:12:44	Dilution:	1
68 Sample ID:	QJ30030-002MD	EPA Sample ID:	MC151030 0820 RFSD		Date:	11/5/2015	17:14:46	Dilution:	1
69 Sample ID:	QJ30030-003	EPA Sample ID:	MC151030 0820 PA		Date:	11/5/2015	17:16:49	Dilution:	1
70 Sample ID:	QK04054-008	EPA Sample ID:	SLUDGE BED#6		Date:	11/5/2015	17:19:19	Dilution:	1
71 Sample ID:	QK03060-001	EPA Sample ID:	Casings Wash Drum		Date:	11/5/2015	17:21:21	Dilution:	1
72 Sample ID:	QK04018-001	EPA Sample ID:	BPFC 11/4/15		Date:	11/5/2015	17:23:45	Dilution:	1
73 Sample ID:	QK04019-001	EPA Sample ID:	FDP 11/4/15		Date:	11/5/2015	17:25:57	Dilution:	10
74 Sample ID:	QQ88820-001	EPA Sample ID:	QQ88820001		Date:	11/5/2015	17:28:06	Dilution:	1
75 Sample ID:	QQ88820-002	EPA Sample ID:	QQ88820002		Date:	11/5/2015	17:30:10	Dilution:	1
76 Sample ID:	Ck4CCV	EPA Sample ID:	Ck4CCV		Date:	11/5/2015	17:32:45	Dilution:	1
77 Sample ID:	Ck1blank	EPA Sample ID:	Ck1blank		Date:	11/5/2015	17:35:25	Dilution:	1
78 Sample ID:	QJ30006-009	EPA Sample ID:	QJ30006009		Date:	11/5/2015	17:37:29	Dilution:	1
79 Sample ID:	QJ30006-010	EPA Sample ID:	QJ30006010		Date:	11/5/2015	17:40:06	Dilution:	1
80 Sample ID:	QJ30006-011	EPA Sample ID:	QJ30006011		Date:	11/5/2015	17:42:08	Dilution:	1
81 Sample ID:	QJ30006-012	EPA Sample ID:	QJ30006012		Date:	11/5/2015	17:44:09	Dilution:	1

Analytical Review Report

Data File: ***HG3110515B - Copy***

Analyst: ***COH***

Hg3

Parameter	Review Message		Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
82 **Sample ID:**	**QJ30006-013**	**EPA Sample ID:**	**QJ30006013**		**Date:**	**11/5/2015**	**17:46:21**	**Dilution:**	**1**
83 **Sample ID:**	**QJ30006-014**	**EPA Sample ID:**	**QJ30006014**		**Date:**	**11/5/2015**	**17:48:26**	**Dilution:**	**1**
84 **Sample ID:**	**QJ30006-015**	**EPA Sample ID:**	**QJ30006015**		**Date:**	**11/5/2015**	**17:50:29**	**Dilution:**	**1**
85 **Sample ID:**	**QJ30006-016**	**EPA Sample ID:**	**QJ30006016**		**Date:**	**11/5/2015**	**17:52:44**	**Dilution:**	**1**
86 **Sample ID:**	**QJ30006-016**	**EPA Sample ID:**	**QJ30006016**		**Date:**	**11/5/2015**	**17:54:51**	**Dilution:**	**1**
87 **Sample ID:**	**QJ30006-016**	**EPA Sample ID:**	**QJ30006016**		**Date:**	**11/5/2015**	**17:57:14**	**Dilution:**	**1**
88 **Sample ID:**	**Ck4CCV**	**EPA Sample ID:**	**Ck4CCV**		**Date:**	**11/5/2015**	**17:59:20**	**Dilution:**	**1**
89 **Sample ID:**	**Ck1blank**	**EPA Sample ID:**	**Ck1blank**		**Date:**	**11/5/2015**	**18:01:21**	**Dilution:**	**1**
90 **Sample ID:**	**QJ30006-017**	**EPA Sample ID:**	**QJ30006017**		**Date:**	**11/5/2015**	**18:03:20**	**Dilution:**	**1**
91 **Sample ID:**	**QJ30006-018**	**EPA Sample ID:**	**QJ30006018**		**Date:**	**11/5/2015**	**18:05:25**	**Dilution:**	**1**
92 **Sample ID:**	**QJ30006-019**	**EPA Sample ID:**	**QJ30006019**		**Date:**	**11/5/2015**	**18:07:30**	**Dilution:**	**1**
93 **Sample ID:**	**QJ30006-020**	**EPA Sample ID:**	**QJ30006020**		**Date:**	**11/5/2015**	**18:09:33**	**Dilution:**	**34**
94 **Sample ID:**	**QJ30006-021**	**EPA Sample ID:**	**QJ30006021**		**Date:**	**11/5/2015**	**18:11:35**	**Dilution:**	**1**
95 **Sample ID:**	**QJ30006-022**	**EPA Sample ID:**	**QJ30006022**		**Date:**	**11/5/2015**	**18:13:39**	**Dilution:**	**1**
96 **Sample ID:**	**QJ30006-022**	**EPA Sample ID:**	**QJ30006022**		**Date:**	**11/5/2015**	**18:16:11**	**Dilution:**	**1**
97 **Sample ID:**	**QJ30006-022**	**EPA Sample ID:**	**QJ30006022**		**Date:**	**11/5/2015**	**18:18:13**	**Dilution:**	**1**
98 **Sample ID:**	**QJ20017-021**	**EPA Sample ID:**	**QJ20017021**		**Date:**	**11/5/2015**	**18:20:15**	**Dilution:**	**1**
99 **Sample ID:**	**QJ20017-022**	**EPA Sample ID:**	**QJ20017022**		**Date:**	**11/5/2015**	**18:22:38**	**Dilution:**	**1**
Hg	PARAMETER IS OVER RANGE		19.4000	10			0.00	0.02	0.20
100 **Sample ID:**	**Ck4CCV**	**EPA Sample ID:**	**Ck4CCV**		**Date:**	**11/5/2015**	**18:25:24**	**Dilution:**	**1**
101 **Sample ID:**	**Ck1blank**	**EPA Sample ID:**	**Ck1blank**		**Date:**	**11/5/2015**	**18:27:25**	**Dilution:**	**1**
102 **Sample ID:**	**QJ20017-023**	**EPA Sample ID:**	**QJ20017023**		**Date:**	**11/5/2015**	**18:29:28**	**Dilution:**	**1**
103 **Sample ID:**	**QJ20017-024**	**EPA Sample ID:**	**QJ20017024**		**Date:**	**11/5/2015**	**18:31:30**	**Dilution:**	**1**
104 **Sample ID:**	**Ck4CCV**	**EPA Sample ID:**	**Ck4CCV**		**Date:**	**11/5/2015**	**18:33:43**	**Dilution:**	**1**
105 **Sample ID:**	**Ck1blank**	**EPA Sample ID:**	**Ck1blank**		**Date:**	**11/5/2015**	**18:36:32**	**Dilution:**	**1**

Analyst: COH
Status: Level 2 review released
Matrix: Solid

Printed: 11/10/15 1157

Prep Batch: 88502

ISM02.2 S PREP 7471B: Mercury - Mercury Preparation for solids

Start Date: 11/05/2015 1220
End Date: 11/05/2015 1250

Level 2 Analyst: FTS

Digestion Cup ID: 1504103

Ext Solvent: HNO3-HCl/KMnO4/NaCl-NH2OH-HCL
Reagents Vol. (mL): 2.5, 7.5, 3.0

Filter Paper Lot Num: 50350758

Chem ID: IM6390-01(11/7/15) IM6215-01(12/2/15) IM6215-02(12/2/15)

Hot Block ID: Hot Block #4

Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Wt. (g)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ88502-001	MB	PBS	1	ISM02.2 HG	0.5000		0.0	50			
QJ31006-001	Sample	MCB7E7	1	ISM02.2 HG	0.5960		0.0	50	11/24/2015 1540	11/04/2015	
QJ31006-001MS	MS	MCB7E7S	1	ISM02.2 HG	0.5120	15HG1437	3.0	50			(11/7/15) pipette:247
QJ31006-001DU	Duplicate	MCB7E7D	1	ISM02.2 HG	0.5680		0.0	50			
QJ31006-002	Sample	MCB7E8	1	ISM02.2 HG	0.5660		0.0	50	11/24/2015 1545	11/04/2015	
QJ31006-003	Sample	MCB7F0	1	ISM02.2 HG	0.5470		0.0	50	11/24/2015 1500	11/04/2015	
QJ31006-004	Sample	MCB7F2	1	ISM02.2 HG	0.5110		0.0	50	11/24/2015 1425	11/04/2015	
QJ31006-005	Sample	MCB7F3	1	ISM02.2 HG	0.5850		0.0	50	11/25/2015 1020	11/04/2015	
QJ31006-006	Sample	MCB7H1	1	ISM02.2 HG	0.5190		0.0	50	11/25/2015 1015	11/04/2015	
QJ31006-007	Sample	MCB7H2	1	ISM02.2 HG	0.5410		0.0	50	11/25/2015 1000	11/04/2015	
QJ31006-008	Sample	MCB7H3	1	ISM02.2 HG	0.5940		0.0	50	11/25/2015 1025	11/04/2015	
QQ88502-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	0.5000		0.0	50			S0
QQ88502-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	10.0	50			S05
QQ88502-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	5.0	50			S04
QQ88502-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	1.0	50			S03
QQ88502-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	0.5	50			S02
QQ88502-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	0.2	50			S01
QQ88502-101	MB		1	ISM02.2 HG	0.5000		0.0	50			ICB
QQ88502-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	0.5000	ICV5-0508	1.0	50			ICV
QQ88502-201	MB		1	ISM02.2 HG	0.5000		0.0	50			CCB
QQ88502-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	0.5000	15HG1437	5.0	50			CCV

(end of report)

Total Samples: 8

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IMC3C66-01)(1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID
11/3/15	CEH	15HG1419	100	2	100	2	15HG 1421
		↓	↓	1	↓	1	15HG 1422
		15HG1420	5	4		0.2	15HG 1423
		↓	↓	2		0.1	15HG 1424
		15HG1220	1000	10		100	15HG 1425
		↓	↓	8		80	15HG 1426
↓	↓	15HG1425	100	2	↓	2	15HG 1427
11/4/15	KDB	15HG1219	1000	10	100	100	15HG 1428
		15HG1428	100	5		5	15HG 1429
		↓	↓	2		2	15HG 1430
		↓	↓	1		1	15HG 1431
		15HG1429	5	4		0.2	15HG 1432
		↓	↓	2		0.1	15HG 1433
		15HG1220	1000	10		100	15HG 1434
		↓	↓	8		80	15HG 1435
↓	↓	15HG1434	100	2	↓	2	15HG 1436
11/5/15	CEH	15HG1219	1000	10	100	100	15HG 1437
11/5/15	CEH	15HG1219	1000	10	100	100	15HG 1438
		15HG1438	100	5		5	15HG 1439
		↓	↓	2	↓	2	15HG 1440

MISCELLANEOUS

Percent Solids Determination Log (if applicable)

Shipping Documents (Airbills –Original)

Sample Tags (if applicable)

Sample Log-in sheet (lab)

Internal Chain of Custody

Other Records

Analyst: DMA
Status: Open

Percent Solids Analytical Batch: 88491

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/2/2015 1:56:22 PM

Start Date: 11/01/2015 1613 **End Date:** 11/02/2015 1506 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QQ88491-001		MB	1	4.45	4.45	0.0000	4.3761	0	0	0	0	0.000		
QJ30065-001		Sample	1	4.47	13.9553	9.4853	5.2823	0	0	0	8.5637	8.56		
							Comments: liquidy							
QJ31002-001		Sample	1	4.44	12.1415	7.7015	10.737	0	0	0	81.7632	81.8		
QJ31002-002		Sample	1	4.4	12.8003	8.4003	9.8126	0	0	0	64.4334	64.4		
QJ31002-004		Sample	1	4.46	14.0557	9.5957	12.3278	0	0	0	81.9929	82.0		
QJ31002-005		Sample	1	4.45	14.0687	9.6187	13.3216	0	0	0	92.2328	92.2		
QJ31002-006		Sample	1	4.46	13.9655	9.5055	12.0241	0	0	0	79.576	79.6		
QJ31002-006DU		Duplicate	1	4.35	13.029	8.6790	11.3238	0	0	0	80.3525	80.4	0.97	
QJ31002-007		Sample	1	4.4	13.8846	9.4846	11.0869	0	0	0	70.5027	70.5		
QJ31002-008		Sample	1	4.37	13.79	9.4200	12.1589	0	0	0	82.6847	82.7		
QJ31002-009		Sample	1	4.45	12.9245	8.4745	10.2893	0	0	0	68.9043	68.9		
QJ30076-001		Sample	1	4.36	13.5304	9.1704	8.1454	0	0	0	41.2784	41.3		
QJ30076-002		Sample	1	4.33	13.7656	9.4356	7.1996	0	0	0	30.4124	30.4		
QJ30076-003		Sample	1	4.44	14.1657	9.7257	8.8857	0	0	0	45.7108	45.7		
QJ30079-001		Sample	1	4.34	13.1628	8.8228	11.5128	0	0	0	81.2984	81.3		
QJ30079-001DU		Duplicate	1	4.47	13.8656	9.3956	11.6694	0	0	0	76.6252	76.6	5.92	
QJ30079-002		Sample	1	4.36	13.5115	9.1515	13.0906	0	0	0	95.4007	95.4		
QJ30019-003		Sample	1	4.47	13.5382	9.0682	12.9098	0	0	0	93.0702	93.1		
QJ30019-004		Sample	1	4.44	13.6125	9.1725	12.9103	0	0	0	92.3445	92.3		
QJ30019-004DU		Duplicate	1	4.36	13.8897	9.5297	13.0915	0	0	0	91.624	91.6	0.78	
QJ30019-005		Sample	1	4.46	14.0307	9.5707	12.8874	0	0	0	88.0541	88.1		
QJ30019-006		Sample	1	4.36	13.2036	8.8436	12.3557	0	0	0	90.4122	90.4		
QJ30019-007		Sample	1	4.41	13.9701	9.5601	12.9476	0	0	0	89.3045	89.3		
QJ30019-008		Sample	1	4.46	13.43	8.9700	12.3562	0	0	0	88.0289	88.0		

Analyst: DMA
Status: Open

Percent Solids Analytical Batch: 88491

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/2/2015 1:56:22 PM

Start Date: 11/01/2015 1613 **End Date:** 11/02/2015 1506 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QJ30019-009		Sample	1	4.45	14.0953	9.6453	13.07	0	0	0	89.3699	89.4		
QJ30019-010		Sample	1	4.35	12.3212	7.9712	10.8912	0	0	0	82.0604	82.1		
QJ30019-011		Sample	1	4.45	13.5468	9.0968	12.6947	0	0	0	90.6329	90.6		
QJ30019-012		Sample	1	4.39	13.5911	9.2011	12.6093	0	0	0	89.3295	89.3		
QJ30019-013		Sample	1	4.39	13.7418	9.3518	12.6361	0	0	0	88.1766	88.2		
QJ30019-014		Sample	1	4.43	13.3906	8.9606	12.5089	0	0	0	90.1602	90.2		
QJ30019-015		Sample	1	4.36	13.8024	9.4424	12.8614	0	0	0	90.0343	90.0		
QJ30019-015DU		Duplicate	1	4.36	14.0772	9.7172	13.0586	0	0	0	89.5175	89.5	0.58	
QJ30019-016		Sample	1	4.36	13.8936	9.5336	12.888	0	0	0	89.452	89.5		
QJ30019-017		Sample	1	4.47	13.8608	9.3908	12.9202	0	0	0	89.9838	90.0		
QJ30019-018		Sample	1	4.47	13.5935	9.1235	12.5236	0	0	0	88.2731	88.3		
QJ30019-019		Sample	1	4.4	13.1506	8.7506	12.1498	0	0	0	88.563	88.6		
QJ30019-020		Sample	1	4.43	13.3352	8.9052	12.266	0	0	0	87.9935	88.0		
QJ30019-021		Sample	1	4.44	13.9008	9.4608	12.8673	0	0	0	89.0759	89.1		
QJ30019-022		Sample	1	4.36	13.9407	9.5807	12.8873	0	0	0	89.0049	89.0		
QJ31005-001		Sample	1	4.36	13.8482	9.4882	11.4383	0	0	0	74.601	74.6		
QJ31005-002		Sample	1	4.45	13.2028	8.7528	12.6986	0	0	0	94.2395	94.2		
QJ31005-003		Sample	1	4.46	13.9379	9.4779	12.4021	0	0	0	83.7959	83.8		
QJ31005-004		Sample	1	4.35	13.4584	9.1084	11.9848	0	0	0	83.8215	83.8		
QJ31005-005		Sample	1	4.4	13.6108	9.2108	12.1665	0	0	0	84.3194	84.3		
QJ31005-006		Sample	1	4.36	13.6278	9.2678	12.5402	0	0	0	88.2647	88.3		
QJ31005-007		Sample	1	4.37	12.8665	8.4965	11.8413	0	0	0	87.9338	87.9		
QJ31005-007DU		Duplicate	1	4.36	13.7887	9.4287	12.633	0	0	0	87.7427	87.7	0.22	
QJ31005-008		Sample	1	4.36	13.8253	9.4653	12.549	0	0	0	86.516	86.5		
QJ31005-009		Sample	1	4.45	13.6611	9.2111	11.3314	0	0	0	74.7076	74.7		

Analyst: DMA
Status: Open

Percent Solids Analytical Batch: 88491

160.3 - % Solids

((DishPlusDryWt or 1st or 2nd or 3rd Rewt - DishWt)/WetWt) * 100

Printed: 11/2/2015 1:56:22 PM

Start Date: 11/01/2015 1613 **End Date:** 11/02/2015 1506 **Balance ID:** Balance #11A

Oven ID: Drying Oven (#3) **Oven Temperature (°C):** 103-105 **Furnace ID:** Lab Instrument **Furnace Temperature (°C):** 0

Sample ID	Cup	QC Code	Run	Dish Wt (g)	Dish+Wet Wt (g)	Wet Wt (g)	Dish+Dry Wt (g)	1st Rewt (g)	2nd Rewt (g)	3rd Rewt (g)	Final Result (mg/L)	Reported Result (%)	RPD(%)	Qual
QJ31005-010		Sample	1	4.44	12.9131	8.4731	10.9256	0	0	0	76.5434	76.5		
QJ31005-011		Sample	1	4.36	13.5842	9.2242	12.0288	0	0	0	83.1378	83.1		
QJ31005-012		Sample	1	4.36	13.2974	8.9374	11.9464	0	0	0	84.8837	84.9		
QJ31005-013		Sample	1	4.47	13.0714	8.6014	11.9403	0	0	0	86.8498	86.8		
QJ31005-014		Sample	1	4.46	13.1054	8.6454	11.9979	0	0	0	87.1897	87.2		
QJ31005-015		Sample	1	4.41	12.0658	7.6558	9.142	0	0	0	61.8093	61.8		
QJ31005-016		Sample	1	4.46	12.9212	8.4612	11.7108	0	0	0	85.6947	85.7		
QJ31005-017		Sample	1	4.35	13.3739	9.0239	11.9425	0	0	0	84.1376	84.1		
QJ31005-017DU		Duplicate	1	4.36	12.6134	8.2534	11.5049	0	0	0	86.5691	86.6	2.85	
QJ31005-018		Sample	1	4.46	13.2812	8.8212	12.1365	0	0	0	87.0233	87.0		
QJ31005-019		Sample	1	4.46	14.0824	9.6224	11.8234	0	0	0	76.5235	76.5		
QJ31005-020		Sample	1	4.46	13.4956	9.0356	12.167	0	0	0	85.2959	85.3		
QJ31006-001		Sample	1	4.36	12.1548	7.7948	10.6286	0	0	0	80.4202	80.4		
QJ31006-002		Sample	1	4.46	13.4965	9.0365	12.0879	0	0	0	84.4121	84.4		
QJ31006-003		Sample	1	4.37	13.5825	9.2125	10.9977	0	0	0	71.9424	71.9		
QJ31006-004		Sample	1	4.46	13.8153	9.3553	11.6979	0	0	0	77.3668	77.4		
QJ31006-005		Sample	1	4.44	13.3083	8.8683	12.5942	0	0	0	91.9477	91.9		
QJ31006-006		Sample	1	4.35	13.7066	9.3566	12.4076	0	0	0	86.1167	86.1		
QJ31006-007		Sample	1	4.46	14.0359	9.5759	12.7163	0	0	0	86.2195	86.2		
QJ31006-007DU		Duplicate	1	4.44	14.1443	9.7043	12.9421	0	0	0	87.6116	87.6	1.60	
QJ31006-008		Sample	1	4.46	12.9881	8.5281	12.077	0	0	0	89.3164	89.3		
QJ30030-002		Sample	1	4.38	13.1502	8.7702	13.1306	0	0	0	99.7765	99.8		
QJ30030-003		Sample	1	4.35	13.4325	9.0825	13.425	0	0	0	99.9174	99.9		

Total Items: 72 (108 samples)

(end of report)

FedEx Express US Airbill

FedEx Tracking Number 8750 6337 1337

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 10/30/15 Sender's FedEx Account Number 3672-5883-7

Sender's Name Scott Snyder Phone 973 219-7394

Company Weston Solutions, Inc.

Address 205 Campus Dr. Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference 20408.016.004.0269.00

3 To

Recipient's Name Brad Belding Phone 803 791-9700

Company Shealy Environmental Services

Address 106 Vantage Point Dr. Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City West Columbia State SC ZIP 29172

Tracy Goulding

10/31/15

8750 6337 1337

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

01 ☒ FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.

06 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.*

03 ☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

70 ☐ FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

80 ☐ FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak. 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☒ **SATURDAY DELIVERY**

☐ No Signature Required Package may be left without obtaining a signature for delivery.

10 ☒ Direct Signature Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 06 ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

Total Packages Total Weight [redacted] Credit Card Auth.

____ lbs.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

606

Rev. Date 2/10 • Part #159281 • ©1994–2010 FedEx • PRINTED IN U.S.A. SRY

fedex.com 1.800.GoFedEx 1.800.463.3339

COPY 45717-MBC761

ORIGINAL DOCUMENTS INCLUDED IN CSF

Signature

11-03-15

Date

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name: Shealy Environmental		Page 2 of 2
Received By (Print Name): Lacey Goulding		Log-in Date: 10/31/15
Received By (Signature): Lacey Goulding		
Case Number: 45717	SDG No.: MBC7E7	MA No.:

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8750 6337 1337
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.3
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	10/31/15
12. Time Received	0830

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7E8	NA	NA	QJ31006-002	OK
2	MBC7F0			-003	
3	MBC7F2			-004	
4	MBC7F3			-005	
5	MBC7H1			-006	
6	MBC7H2			-007	
7	MBC7H3			-008	
8					
9					
10					
11					
12					
13				JGB	
14				11/3/15	
15					
16					
17					
18					
19					
20					
21					
22					

* Contact SMO and attach record of resolution

Reviewed By:	Logbook No.:
Date: 11/3/15	Logbook Page No.:

Printed: 11/06/2015 1807

Internal Chain-of-Custody Report

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QJ31006-007	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-004	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-002	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-008	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-001	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-006	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-005	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-007	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-003	% Solid Snaps	11/01/2015 13:44	SR (WI # 1)	INM (WI # 2)	True	DMA
QJ31006-003	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-008	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-001	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-005	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-004	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-006	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-007	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-002	9 oz G	11/02/2015 08:44	SR (WI # 1)	IM Prep	True	COH
QJ31006-008	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31006-002	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31006-004	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31006-006	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31006-005	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31006-003	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH
QJ31006-007	9 oz G	11/02/2015 12:16	IM Prep	SR (WI # 1)	True	COH
QJ31006-001	9 oz G	11/02/2015 12:17	IM Prep	SR (WI # 1)	True	COH

REFERENCE 68

Current News

Application for Peddlers Permit-St. Patrick's Day Parade Click here for more information

Questions please contact Receptionist AnnMarie between the hours of 12pm-4pm at (845) 297-8773 ext. 0

Click here for more information on the Snow Ordinance

Standard Work Day and Reporting Resolution for Elected and Appointed Officials: /sites/default/files/files/RS%202417_A.pdf

Amendments to Village Zoning Code:

/sites/default/files/files/Complete_Final_

Dutchess County is in the process of creating a Hazard Mitigation Plan and would like your comments. For a

HIGHWAY

Superintendent Mr. Peter Paggi

Phone: 845-297-9758

Hours: Monday thru Friday 7:30 AM to 3:30 PM

Location: Lower Market Street

1 of 2

Google earth

feet 1000
meters 600

2 of 2