The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Arcadis

National Grid, Philly Coke, Philadelphia, PA

B0036790.00005

SGS Job Number: JC85367

Sampling Date: 03/28/19

Report to:

Arcadis U.S.
1 Lincoln Center,110 West Fayette Street Suite 300
Syracuse, NY 13202
John.Brussel@Arcadis.com; Lawrence.Healy@Arcadis.com

ATTN: John Brussel

Total number of pages in report: **302**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Brian McGuire
General Manager

Client Service contact: Kelly Ramos 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

May 06, 2019

Mr. John Brussel
Arcadis U.S.
1 Lincoln Center,110 West Fayette Street Suite 300
Syracuse, NY 13202

Re: SGS North America – Dayton, NJ Jobs # JC85367 - Reissues

Dear Mr. Brussel,

The final reports for SGS jobs number JC85367 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

The data has been revised to report to the MDL reporting for sample JC85367 to meet client's requirement. The attached revised report incorporates these revisions.

Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.

CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

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SGS North America Inc.

Sample Summary

Arcadis

Job No: JC85367

National Grid, Philly Coke, Philadelphia, PA
Project No: B0036790.00005

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC85367-1	03/28/19	10:00	EG	03/28/19	AQ	Ground Water	MW-107
JC85367-1D	03/28/19	10:00	EG	03/28/19	AQ	Water Dup/MSD	MW-107 MSD
JC85367-1F	03/28/19	10:00	EG	03/28/19	AQ	Groundwater Filtered	MW-107
JC85367-1FD	03/28/19	10:00	EG	03/28/19	AQ	Water Dup/MSD	MW-107 MSD
JC85367-1FS	03/28/19	10:00	EG	03/28/19	AQ	Water Matrix Spike	MW-107 MS
JC85367-2	03/28/19	11:45	EG	03/28/19	AQ	Ground Water	PCMW-05
JC85367-2F	03/28/19	11:45	EG	03/28/19	AQ	Groundwater Filtered	PCMW-05
JC85367-3	03/28/19	00:00	EG	03/28/19	AQ	Ground Water	GW-DUP-0328
JC85367-3F	03/28/19	00:00	EG	03/28/19	AQ	Groundwater Filtered	GW-DUP-0328
JC85367-4	03/28/19	13:35	EG	03/28/19	AQ	Ground Water	PCMW-16D
JC85367-4F	03/28/19	13:35	EG	03/28/19	AQ	Groundwater Filtered	PCMW-16D

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Arcadis	**Job No**	JC85367
Site:	National Grid, Philly Coke, Philadelphia, PA	**Report Date**	4/8/2019 11:59:06 AM

On 03/28/2019, 8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC85367 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP13758

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC85367-1FMS, JC85367-1FMSD, JC85367-1FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Antimony, Cadmium, Nickel, Vanadium are outside control limits for sample MP13758-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP13758-SD1 for Iron: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP13777

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC85367-1FMS, JC85367-1FMSD were used as the QC samples for metals.

General Chemistry By Method SM2540 C-11

Matrix: AQ **Batch ID:** GN93522

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC85367-1DUP were used as the QC samples for Solids, Total Dissolved.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JC85367
Account: Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA
Collected: 03/28/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC85367-1	**MW-107**					
Solids, Total Dissolved		560	10	1.8	mg/l	SM2540 C-11
JC85367-1F	**MW-107**					
Barium		159 B	200	13	ug/l	SW846 6010D
Calcium		106000	5000	99	ug/l	SW846 6010D
Iron		621	100	32	ug/l	SW846 6010D
Magnesium		43200	5000	140	ug/l	SW846 6010D
Manganese		1190	15	1.4	ug/l	SW846 6010D
Potassium		8700 B	10000	200	ug/l	SW846 6010D
Sodium		14300	10000	570	ug/l	SW846 6010D
Vanadium		2.0 B	50	1.8	ug/l	SW846 6010D
JC85367-2	**PCMW-05**					
Solids, Total Dissolved		600	10	1.8	mg/l	SM2540 C-11
JC85367-2F	**PCMW-05**					
Barium		365	200	13	ug/l	SW846 6010D
Calcium		76700	5000	99	ug/l	SW846 6010D
Iron		99.6 B	100	32	ug/l	SW846 6010D
Lead		2.9 B	3.0	1.8	ug/l	SW846 6010D
Magnesium		9710	5000	140	ug/l	SW846 6010D
Manganese		182	15	1.4	ug/l	SW846 6010D
Nickel		85.5	10	1.7	ug/l	SW846 6010D
Potassium		2880 B	10000	200	ug/l	SW846 6010D
Sodium		3790 B	10000	570	ug/l	SW846 6010D
Zinc		27.2	20	6.9	ug/l	SW846 6010D
JC85367-3	**GW-DUP-0328**					
Solids, Total Dissolved		750	10	1.8	mg/l	SM2540 C-11
JC85367-3F	**GW-DUP-0328**					
Barium		360	200	13	ug/l	SW846 6010D
Calcium		76200	5000	99	ug/l	SW846 6010D
Iron		99.0 B	100	32	ug/l	SW846 6010D
Lead		1.9 B	3.0	1.8	ug/l	SW846 6010D
Magnesium		9830	5000	140	ug/l	SW846 6010D
Manganese		186	15	1.4	ug/l	SW846 6010D
Nickel		80.9	10	1.7	ug/l	SW846 6010D

Summary of Hits

Job Number: JC85367
Account: Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA
Collected: 03/28/19

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Potassium		2890 B	10000	200	ug/l	SW846 6010D
Sodium		3800 B	10000	570	ug/l	SW846 6010D
Zinc		28.2	20	6.9	ug/l	SW846 6010D
JC85367-4	**PCMW-16D**					
Solids, Total Dissolved		440	10	1.8	mg/l	SM2540 C-11
JC85367-4F	**PCMW-16D**					
Arsenic		5.8	3.0	2.8	ug/l	SW846 6010D
Barium		34.6 B	200	13	ug/l	SW846 6010D
Calcium		46700	5000	99	ug/l	SW846 6010D
Cobalt		2.8 B	50	2.6	ug/l	SW846 6010D
Iron		27100	100	32	ug/l	SW846 6010D
Magnesium		24900	5000	140	ug/l	SW846 6010D
Manganese		3130	15	1.4	ug/l	SW846 6010D
Potassium		2730 B	10000	200	ug/l	SW846 6010D
Sodium		56100	10000	570	ug/l	SW846 6010D
Vanadium		4.5 B	50	1.8	ug/l	SW846 6010D

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-107		
Lab Sample ID:	JC85367-1	**Date Sampled:**	03/28/19
Matrix:	AQ - Ground Water	**Date Received:**	03/28/19
		Percent Solids:	n/a
Project:	National Grid, Philly Coke, Philadelphia, PA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	560	10	1.8	mg/l	1	03/30/19 11:55	RC	SM2540 C-11

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MW-107
Lab Sample ID: JC85367-1F
Matrix: AQ - Groundwater Filtered
Project: National Grid, Philly Coke, Philadelphia, PA

Date Sampled: 03/28/19
Date Received: 03/28/19
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Antimony	4.7 U	6.0	4.7	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Arsenic	2.8 U	3.0	2.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Barium	159 B	200	13	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Calcium	106000	5000	99	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	2.0 U	10	2.0	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Cobalt	2.6 U	50	2.6	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Copper	5.9 U	10	5.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Iron	621	100	32	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	1.8 U	3.0	1.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Magnesium	43200	5000	140	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Manganese	1190	15	1.4	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	0.095 U	0.20	0.095	ug/l	1	04/02/19	04/02/19	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	1.7 U	10	1.7	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Potassium	8700 B	10000	200	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Selenium	4.9 U	10	4.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Silver	1.9 U	10	1.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Sodium	14300	10000	570	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Thallium	1.8 U	10	1.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Vanadium	2.0 B	50	1.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Zinc	6.9 U	20	6.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA46407
(2) Instrument QC Batch: MA46414
(3) Prep QC Batch: MP13758
(4) Prep QC Batch: MP13777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PCMW-05		
Lab Sample ID:	JC85367-2	**Date Sampled:**	03/28/19
Matrix:	AQ - Ground Water	**Date Received:**	03/28/19
		Percent Solids:	n/a
Project:	National Grid, Philly Coke, Philadelphia, PA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	600	10	1.8	mg/l	1	03/30/19 11:55	RC	SM2540 C-11

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PCMW-05
Lab Sample ID: JC85367-2F
Matrix: AQ - Groundwater Filtered
Project: National Grid, Philly Coke, Philadelphia, PA

Date Sampled: 03/28/19
Date Received: 03/28/19
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Antimony	4.7 U	6.0	4.7	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Arsenic	2.8 U	3.0	2.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Barium	365	200	13	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Calcium	76700	5000	99	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	2.0 U	10	2.0	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Cobalt	2.6 U	50	2.6	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Copper	5.9 U	10	5.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Iron	99.6 B	100	32	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	2.9 B	3.0	1.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Magnesium	9710	5000	140	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Manganese	182	15	1.4	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	0.095 U	0.20	0.095	ug/l	1	04/02/19	04/02/19	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	85.5	10	1.7	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Potassium	2880 B	10000	200	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Selenium	4.9 U	10	4.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Silver	1.9 U	10	1.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Sodium	3790 B	10000	570	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Thallium	1.8 U	10	1.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]
Zinc	27.2	20	6.9	ug/l	1	04/02/19	04/02/19	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA46407
(2) Instrument QC Batch: MA46414
(3) Prep QC Batch: MP13758
(4) Prep QC Batch: MP13777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	GW-DUP-0328		
Lab Sample ID:	JC85367-3	**Date Sampled:**	03/28/19
Matrix:	AQ - Ground Water	**Date Received:**	03/28/19
		Percent Solids:	n/a
Project:	National Grid, Philly Coke, Philadelphia, PA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	750	10	1.8	mg/l	1	03/30/19 11:55	RC	SM2540 C-11

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: GW-DUP-0328
Lab Sample ID: JC85367-3F
Matrix: AQ - Groundwater Filtered
Project: National Grid, Philly Coke, Philadelphia, PA

Date Sampled: 03/28/19
Date Received: 03/28/19
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Antimony	4.7 U	6.0	4.7	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Arsenic	2.8 U	3.0	2.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Barium	360	200	13	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Beryllium	0.50 U	1.0	0.50	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Cadmium	1.0 U	3.0	1.0	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Calcium	76200	5000	99	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Chromium	2.0 U	10	2.0	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Cobalt	2.6 U	50	2.6	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Copper	5.9 U	10	5.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Iron	99.0 B	100	32	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Lead	1.9 B	3.0	1.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Magnesium	9830	5000	140	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Manganese	186	15	1.4	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Mercury	0.095 U	0.20	0.095	ug/l	1	04/02/19	04/02/19	EAL	SW846 7470A [1]	SW846 7470A [4]
Nickel	80.9	10	1.7	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Potassium	2890 B	10000	200	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Selenium	4.9 U	10	4.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Silver	1.9 U	10	1.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Sodium	3800 B	10000	570	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Thallium	1.8 U	10	1.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Vanadium	1.8 U	50	1.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]
Zinc	28.2	20	6.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA46407
(2) Instrument QC Batch: MA46414
(3) Prep QC Batch: MP13758
(4) Prep QC Batch: MP13777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PCMW-16D		
Lab Sample ID:	JC85367-4	**Date Sampled:**	03/28/19
Matrix:	AQ - Ground Water	**Date Received:**	03/28/19
		Percent Solids:	n/a
Project:	National Grid, Philly Coke, Philadelphia, PA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Solids, Total Dissolved	440	10	1.8	mg/l	1	03/30/19 11:55	RC	SM2540 C-11

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PCMW-16D
Lab Sample ID: JC85367-4F
Matrix: AQ - Groundwater Filtered
Project: National Grid, Philly Coke, Philadelphia, PA

Date Sampled: 03/28/19
Date Received: 03/28/19
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	46 U	200	46	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Antimony	4.7 U	6.0	4.7	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	5.8	3.0	2.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Barium	34.6 B	200	13	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	0.50 U	1.0	0.50	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Cadmium	1.0 U	3.0	1.0	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Calcium	46700	5000	99	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Chromium	2.0 U	10	2.0	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Cobalt	2.8 B	50	2.6	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Copper	5.9 U	10	5.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Iron	27100	100	32	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	1.8 U	3.0	1.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Magnesium	24900	5000	140	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	3130	15	1.4	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [3]	SW846 3010A [4]
Mercury	0.095 U	0.20	0.095	ug/l	1	04/02/19	04/02/19	EAL	SW846 7470A [1]	SW846 7470A [5]
Nickel	1.7 U	10	1.7	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Potassium	2730 B	10000	200	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Selenium	4.9 U	10	4.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Silver	1.9 U	10	1.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Sodium	56100	10000	570	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Thallium	1.8 U	10	1.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Vanadium	4.5 B	50	1.8	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]
Zinc	6.9 U	20	6.9	ug/l	1	04/02/19	04/03/19	ND	SW846 6010D [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA46407
(2) Instrument QC Batch: MA46414
(3) Instrument QC Batch: MA46419
(4) Prep QC Batch: MP13758
(5) Prep QC Batch: MP13777

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

GW

CHAIN OF CUSTODY

Page 1 of 1

F

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #

Bottle Order Control # AR-0319-43

SGS Quote #

SGS Job # JC85367

Client / Reporting Information

Company Name: Arcadis-US
Street Address: 110 W. Fayette St Suite 300
City: Syracuse State: NY Zip: 13202
Project Contact: Cary Healy E-mail: Lawrence.Healy@arcadis-us.com
Phone #: 315-335-9493
Sampler(s) Name(s): Evan Green Phone #: 603-365-2692

Project Information

Project Name: National Gr. J, Philly Coke, Philadelphia PA
Street: 4501 Richmond St
City: Philadelphia State: PA
Project #: 30036790.00005
Client Purchase Order #:
Project Manager: John Bussel

Billing Information (if different from Report to)

Company Name: Same
Street Address:
City: State: Zip:
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by:	Grab (G) Comp (C)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	TOTAL CLASS LFT	TDS	LAB USE ONLY
1F	MW-107		3/28/19	10:00	EG	G	GW	2					2				1	1	
	MW-107 MS		3/28/19	10:00	EG	G	GW	2					2				1	1	C10
	MW-107 MSD		3/28/19	10:00	EG	G	GW	2					2				1	1	G59
2F	PC MW-05		3/28/19	11:45	EG	G	GW	2					2				1	1	
3F	GW-DUP-0328		3/28/19	—	EG	G	GW	2					2				1	1	
4F	PC MW-16D		3/28/19	13:35	EG	G	GW	2					2				1	1	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turn Around Time (Business Days)

Approved By (SGS PM); / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [X] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT 3/5 ✓

LABEL VERIFICATION_____

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	3/28/19 1530	1	2	3/28/19 1925	2
Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
3		3	4		4
Relinquished by:	Date / Time:	Received By:	Custody Seal #	Intact / Not intact	Preserved where applicable: Absent / Therm. ID:	On Ice: 2.4 °C
5		5				Cooler Temp. °C

EHSA-QAC-0023-02-FORM-Dayton - Standard COC.xlsx

SGS Sample Receipt Summary

Job Number: JC85367 **Client:** ARCADIS U.S. **Project:** NATIONAL GRID, PHILLY COKE, PHILADELPHI

Date / Time Received: 3/28/2019 6:25:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 206717 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JC85367

Requested Date: 5/6/2019
Account Name: Arcadis
Project Description: National Grid, Philly Coke, Philadelphia, PA
C/O Initiated By: AK **PM:** KR

Received Date: 3/28/2019
Due Date: 4/11/2019
Deliverable: FULT1
TAT (Days): 14

==========

Sample #: JC85367-ALL
Dept:
TAT: 14

Change:
Please revise to MDL reporting

==========

Above Changes Per: Andrew Korycinski **Date/Time:** 5/6/2019 4:06:59 PM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JC85367: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Arcadis

Job No: JC85367

National Grid, Philly Coke, Philadelphia, PA
Project No: B0036790.00005

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC85367-1 MW-107	Collected: 28-MAR-19 10:00 By: EG		Received: 28-MAR-19 By: DDH			
JC85367-1	SM2540 C-11	30-MAR-19 11:55	RC			TDS
JC85367-2 PCMW-05	Collected: 28-MAR-19 11:45 By: EG		Received: 28-MAR-19 By: DDH			
JC85367-2	SM2540 C-11	30-MAR-19 11:55	RC			TDS
JC85367-3 GW-DUP-0328	Collected: 28-MAR-19 00:00 By: EG		Received: 28-MAR-19 By: DDH			
JC85367-3	SM2540 C-11	30-MAR-19 11:55	RC			TDS
JC85367-4 PCMW-16D	Collected: 28-MAR-19 13:35 By: EG		Received: 28-MAR-19 By: DDH			
JC85367-4	SM2540 C-11	30-MAR-19 11:55	RC			TDS
JC85367-1F MW-107	Collected: 28-MAR-19 10:00 By: EG		Received: 28-MAR-19 By: DDH			
JC85367-1F	SW846 7470A	02-APR-19 15:28	EAL	02-APR-19	EAL	HG
JC85367-1F	SW846 6010D	02-APR-19 23:45	ND	02-APR-19	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JC85367-2F PCMW-05	Collected: 28-MAR-19 11:45 By: EG		Received: 28-MAR-19 By: DDH			
JC85367-2F	SW846 7470A	02-APR-19 15:30	EAL	02-APR-19	EAL	HG
JC85367-2F	SW846 6010D	02-APR-19 23:56	ND	02-APR-19	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JC85367-3F GW-DUP-0328	Collected: 28-MAR-19 00:00 By: EG		Received: 28-MAR-19 By: DDH			
JC85367-3F	SW846 7470A	02-APR-19 15:31	EAL	02-APR-19	EAL	HG

Internal Sample Tracking Chronicle

Arcadis

Job No: JC85367

National Grid, Philly Coke, Philadelphia, PA
Project No: B0036790.00005

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC85367-3F	SW846 6010D	03-APR-19 00:01	ND	02-APR-19	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JC85367-4F	Collected: 28-MAR-19 13:35 By: EG			Received: 28-MAR-19 By: DDH		
PCMW-16D						
JC85367-4F	SW846 7470A	02-APR-19 15:36	EAL	02-APR-19	EAL	HG
JC85367-4F	SW846 6010D	03-APR-19 00:06	ND	02-APR-19	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,NA,NI,PB,SB,SE, TL,V,ZN
JC85367-4F	SW846 6010D	03-APR-19 23:10	ND	02-APR-19	BP	MN

SGS Internal Chain of Custody

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA
Received: 03/28/19

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC85367-1.4	Secured Staging Area	Ruchitaben Chauhan	03/30/19 12:14	Retrieve from Storage
JC85367-1.4	Ruchitaben Chauhan	Secured Storage	03/30/19 13:06	Return to Storage
JC85367-1F.1	Secured Storage	Dwayne Johnson	03/29/19 11:54	Retrieve from Storage
JC85367-1F.1	Dwayne Johnson	Secured Staging Area	03/29/19 11:54	Return to Storage
JC85367-1F.1	Secured Storage	Benjamin Gaines	04/01/19 16:44	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC85367-1F.1	Benjamin Gaines	Secured Staging Area	04/01/19 16:44	Return to Storage
JC85367-1F.1	Secured Staging Area	Bhooma Patel	04/02/19 06:40	Retrieve from Storage
JC85367-1F.1	Bhooma Patel	Secured Storage	04/02/19 10:01	Return to Storage
JC85367-1F.1.1	Bhooma Patel	Metals Digestion	04/02/19 09:29	Digestate from JC85367-1F.1
JC85367-1F.1.1	Metals Digestion	Bhooma Patel	04/02/19 09:30	Digestate from JC85367-1F.1
JC85367-1F.1.1	Bhooma Patel	Metals Digestate Storage	04/02/19 09:30	Return to Storage
JC85367-1F.2	Secured Storage	Dwayne Johnson	03/29/19 11:54	Retrieve from Storage
JC85367-1F.2	Dwayne Johnson	Secured Staging Area	03/29/19 11:54	Return to Storage
JC85367-1F.2	Secured Staging Area	Dave Hunkele	04/03/19 05:13	Retrieve from Storage
JC85367-1F.2	Dave Hunkele	Secured Storage	04/03/19 05:14	Return to Storage
JC85367-1F.3	Secured Storage	Dwayne Johnson	03/29/19 11:54	Retrieve from Storage
JC85367-1F.3	Dwayne Johnson	Secured Staging Area	03/29/19 11:54	Return to Storage
JC85367-1F.3	Secured Storage	Sahara Feliciano	03/31/19 09:30	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC85367-1F.3	Sahara Feliciano	Secured Staging Area	03/31/19 09:30	Return to Storage
JC85367-1F.3	Secured Staging Area	Lindsey Lee	04/01/19 07:19	Retrieve from Storage
JC85367-1F.3	Lindsey Lee	Secured Storage	04/01/19 15:55	Return to Storage
JC85367-1F.3	Secured Storage	Matthew Robbins	04/01/19 17:24	Retrieve from Storage
JC85367-1F.3	Matthew Robbins	Secured Staging Area	04/01/19 17:24	Return to Storage
JC85367-1F.3	Secured Staging Area	Colleen Hill	04/02/19 06:25	Retrieve from Storage
JC85367-1F.3	Colleen Hill	Secured Storage	04/02/19 12:57	Return to Storage
JC85367-2.2	Secured Staging Area	Ruchitaben Chauhan	03/30/19 12:14	Retrieve from Storage
JC85367-2.2	Ruchitaben Chauhan	Secured Storage	03/30/19 13:06	Return to Storage
JC85367-2F.1	Secured Storage	Dwayne Johnson	03/29/19 11:54	Retrieve from Storage
JC85367-2F.1	Dwayne Johnson	Secured Staging Area	03/29/19 11:54	Return to Storage
JC85367-2F.1	Secured Storage	Sahara Feliciano	03/31/19 09:30	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC85367-2F.1	Sahara Feliciano	Secured Staging Area	03/31/19 09:30	Return to Storage
JC85367-2F.1	Secured Staging Area	Lindsey Lee	04/01/19 07:19	Retrieve from Storage
JC85367-2F.1	Lindsey Lee	Secured Storage	04/01/19 15:55	Return to Storage
JC85367-2F.1	Secured Storage	Matthew Robbins	04/01/19 17:24	Retrieve from Storage
JC85367-2F.1	Matthew Robbins	Secured Staging Area	04/01/19 17:24	Return to Storage

SGS Internal Chain of Custody

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA
Received: 03/28/19

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC85367-2F.1	Secured Staging Area	Colleen Hill	04/02/19 06:25	Retrieve from Storage
JC85367-2F.1	Colleen Hill	Bhooma Patel	04/02/19 09:18	Custody Transfer
JC85367-2F.1	Bhooma Patel	Secured Storage	04/02/19 10:01	Return to Storage
JC85367-2F.1.1	Bhooma Patel	Metals Digestion	04/02/19 09:29	Digestate from JC85367-2F.1
JC85367-2F.1.1	Metals Digestion	Bhooma Patel	04/02/19 09:30	Digestate from JC85367-2F.1
JC85367-2F.1.1	Bhooma Patel	Metals Digestate Storage	04/02/19 09:30	Return to Storage
JC85367-3.2	Secured Staging Area	Ruchitaben Chauhan	03/30/19 12:14	Retrieve from Storage
JC85367-3.2	Ruchitaben Chauhan	Secured Storage	03/30/19 13:06	Return to Storage
JC85367-3F.1	Secured Storage	Dwayne Johnson	03/29/19 11:54	Retrieve from Storage
JC85367-3F.1	Dwayne Johnson	Secured Staging Area	03/29/19 11:54	Return to Storage
JC85367-3F.1	Secured Storage	Sahara Feliciano	03/31/19 09:30	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC85367-3F.1	Sahara Feliciano	Secured Staging Area	03/31/19 09:30	Return to Storage
JC85367-3F.1	Secured Staging Area	Lindsey Lee	04/01/19 07:19	Retrieve from Storage
JC85367-3F.1	Lindsey Lee	Secured Storage	04/01/19 15:55	Return to Storage
JC85367-3F.1	Secured Storage	Matthew Robbins	04/01/19 17:24	Retrieve from Storage
JC85367-3F.1	Matthew Robbins	Secured Staging Area	04/01/19 17:24	Return to Storage
JC85367-3F.1	Secured Staging Area	Colleen Hill	04/02/19 06:25	Retrieve from Storage
JC85367-3F.1	Colleen Hill	Bhooma Patel	04/02/19 09:18	Custody Transfer
JC85367-3F.1	Bhooma Patel	Secured Storage	04/02/19 10:01	Return to Storage
JC85367-3F.1.1	Bhooma Patel	Metals Digestion	04/02/19 09:29	Digestate from JC85367-3F.1
JC85367-3F.1.1	Metals Digestion	Bhooma Patel	04/02/19 09:30	Digestate from JC85367-3F.1
JC85367-3F.1.1	Bhooma Patel	Metals Digestate Storage	04/02/19 09:30	Return to Storage
JC85367-4.2	Secured Staging Area	Ruchitaben Chauhan	03/30/19 12:14	Retrieve from Storage
JC85367-4.2	Ruchitaben Chauhan	Secured Storage	03/30/19 13:06	Return to Storage
JC85367-4F.1	Secured Storage	Dwayne Johnson	03/29/19 11:54	Retrieve from Storage
JC85367-4F.1	Dwayne Johnson	Secured Staging Area	03/29/19 11:54	Return to Storage
JC85367-4F.1	Secured Storage	Sahara Feliciano	03/31/19 09:30	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC85367-4F.1	Sahara Feliciano	Secured Staging Area	03/31/19 09:30	Return to Storage
JC85367-4F.1	Secured Staging Area	Lindsey Lee	04/01/19 07:19	Retrieve from Storage
JC85367-4F.1	Lindsey Lee	Secured Storage	04/01/19 15:55	Return to Storage
JC85367-4F.1	Secured Storage	Matthew Robbins	04/01/19 17:24	Retrieve from Storage
JC85367-4F.1	Matthew Robbins	Secured Staging Area	04/01/19 17:24	Return to Storage
JC85367-4F.1	Secured Staging Area	Colleen Hill	04/02/19 06:25	Retrieve from Storage
JC85367-4F.1	Colleen Hill	Bhooma Patel	04/02/19 09:18	Custody Transfer
JC85367-4F.1	Bhooma Patel	Secured Storage	04/02/19 10:01	Return to Storage

SGS Internal Chain of Custody

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA
Received: 03/28/19

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC85367-4F.1.1	Bhooma Patel	Metals Digestion	04/02/19 09:29	Digestate from JC85367-4F.1
JC85367-4F.1.1	Metals Digestion	Bhooma Patel	04/02/19 09:30	Digestate from JC85367-4F.1
JC85367-4F.1.1	Bhooma Patel	Metals Digestate Storage	04/02/19 09:30	Return to Storage

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:46	MA46407-STD1	1		B=2.3970E-004, C=9.1873E-003, RHO=0.9991883
09:47	MA46407-STD2	1		STDB
09:49	MA46407-STD3	1		STDC
09:50	MA46407-STD4	1		STDD
09:52	MA46407-STD5	1		STDE
09:54	MA46407-STD6	1		STDF
09:57	MA46407-STD7	1		STDB
09:59	MA46407-STD8	1		STDE
10:02	MA46407-STD9	1		STDB
10:04	MA46407-STD10	1		STDE
10:07	ZZZZZZ	1		
10:11	MA46407-ICV1	1		
10:12	MA46407-ICB1	1		
10:14	MA46407-CCV1	1		
10:15	MA46407-CCB1	1		
10:17	MA46407-CRI1	1		
10:35	MP13750-MB1	1		
10:36	MP13750-B1	1		
10:37	MP13750-S1	1		
10:39	MP13750-S2	1		
10:41	JC85339-1F	1		(sample used for QC only; not part of login JC85367)
10:43	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:47	MA46407-CCV2	1		
10:49	MA46407-CCB2	1		
10:51	ZZZZZZ	1		
10:52	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:56	ZZZZZZ	1		
10:57	ZZZZZZ	1		
10:58	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:00	ZZZZZZ	1		
11:02	ZZZZZZ	1		
11:04	MA46407-CCV3	1		
11:05	MA46407-CCB3	1		
11:07	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:15	MP13773-MB1	1		
11:17	MP13773-B1	1		
11:18	MP13773-S1	1		
11:20	ZZZZZZ	1		
11:24	MA46407-CCV4	1		
11:25	MA46407-CCB4	1		
11:27	MP13773-S2	1		
11:28	JC85326-1	1		(sample used for QC only; not part of login JC85367)
11:31	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:33	ZZZZZZ	1		
11:34	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:37	ZZZZZZ	1		
11:38	ZZZZZZ	1		
11:40	MA46407-CCV5	1		
11:41	MA46407-CCB5	1		
11:43	ZZZZZZ	1		
11:44	ZZZZZZ	1		
11:46	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:48	ZZZZZZ	1		
11:49	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:51	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:55	MA46407-CCV6	1		
11:56	MA46407-CCB6	1		
11:58	ZZZZZZ	1		
11:59	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:02	MP13774-MB1	1		
12:03	MP13774-B1	1		
12:04	MP13774-S1	1		
12:06	MP13774-S2	1		
12:09	JC85487-1F	1		(sample used for QC only; not part of login JC85367)
12:11	ZZZZZZ	1		
12:12	MA46407-CCV7	1		
12:13	MA46407-CCB7	1		
12:15	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:22	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:28	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:52	MA46407-CCV8	1		
12:53	MA46407-CCB8	1		
12:55	ZZZZZZ	20		
12:56	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:03	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:05	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	MA46407-CCV9	1		
13:13	MA46407-CCB9	1		
13:15	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:45	MA46407-CCV10	1		
13:46	MA46407-CCB10	1		
13:48	MP13776-MB1	1		
13:50	MP13776-B1	1		
13:51	MP13776-S1	1		
13:53	MP13776-S2	1		
13:55	JC85409-1F	1		(sample used for QC only; not part of login JC85367)
13:57	ZZZZZZ	2		
13:59	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:04	ZZZZZZ	10		
14:05	MA46407-CCV11	1		
14:07	MA46407-CCB11	1		
14:09	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:15	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:16	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:22	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:26	MA46407-CCV12	1		
14:29	MA46407-CCB12	1		
14:31	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:34	ZZZZZZ	2		
14:35	ZZZZZZ	1		
14:37	ZZZZZZ	20		
14:39	ZZZZZZ	20		
14:42	ZZZZZZ	20		
14:44	ZZZZZZ	20		
14:46	ZZZZZZ	1		
14:48	MA46407-CCV13	1		
14:50	MA46407-CCB13	1		
14:52	ZZZZZZ	1		
14:53	ZZZZZZ	50		
14:55	ZZZZZZ	1		
14:57	ZZZZZZ	1		
14:59	ZZZZZZ	1		
15:01	ZZZZZZ	2		
15:03	ZZZZZZ	2		
15:05	ZZZZZZ	1		
15:07	ZZZZZZ	1		
15:13	MA46407-CCV14	1		
15:14	MA46407-CCB14	1		
15:16	ZZZZZZ	1		
15:18	ZZZZZZ	1		
15:20	MP13777-MB1	1		
15:22	MP13777-B1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:23	MP13777-S1	1		
15:26	MP13777-S2	1		
15:28	JC85367-1F	1		
15:30	JC85367-2F	1		
15:31	JC85367-3F	1		
15:32	MA46407-CCV15	1		
15:34	MA46407-CCB15	1		
15:36	JC85367-4F	1		
---------->	Last reportable sample/prep for job JC85367			
15:37	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:45	MA46407-CCV16	1		
15:46	MA46407-CCB16	1		
15:48	ZZZZZZ	10		
15:50	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:56	ZZZZZZ	20		
15:57	ZZZZZZ	20		
16:00	MA46407-CCV17	1		
16:02	MA46407-CCB17	1		
16:05	ZZZZZZ	20		
16:06	ZZZZZZ	20		
16:17	ZZZZZZ	20		
16:18	ZZZZZZ	20		
16:21	ZZZZZZ	2		
16:23	ZZZZZZ	20		
16:25	ZZZZZZ	1		
16:27	MA46407-CRI2	1		
16:29	MA46407-CCV18	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:30	MA46407-CCB18	1		

----------> Last reportable CCB for job JC85367
Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
10:07	ZZZZZZ	1		
10:11	MA46407-ICV1	1	X	
10:12	MA46407-ICB1	1	X	
10:14	MA46407-CCV1	1	X	
10:15	MA46407-CCB1	1	X	
10:17	MA46407-CRI1	1	X	
10:35	MP13750-MB1	1	X	
10:36	MP13750-B1	1	X	
10:37	MP13750-S1	1	X	
10:39	MP13750-S2	1	X	
10:41	JC85339-1F	1	X	(a)
10:43	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:47	MA46407-CCV2	1	X	
10:49	MA46407-CCB2	1	X	
10:51	ZZZZZZ	1		
10:52	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:55	ZZZZZZ	1		
10:56	ZZZZZZ	1		
10:57	ZZZZZZ	1		
10:58	ZZZZZZ	1		
11:00	ZZZZZZ	1		
11:02	ZZZZZZ	1		
11:04	MA46407-CCV3	1	X	
11:05	MA46407-CCB3	1	X	
11:07	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:14	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:15	MP13773-MB1	1	X	
11:17	MP13773-B1	1	X	
11:18	MP13773-S1	1	X	
11:20	ZZZZZZ	1		
11:24	MA46407-CCV4	1	X	
11:25	MA46407-CCB4	1	X	
11:27	MP13773-S2	1	X	
11:28	JC85326-1	1	X	(a)
11:31	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:33	ZZZZZZ	1		
11:34	ZZZZZZ	1		
11:36	ZZZZZZ	1		
11:37	ZZZZZZ	1		
11:38	ZZZZZZ	1		
11:40	MA46407-CCV5	1	X	
11:41	MA46407-CCB5	1	X	
11:43	ZZZZZZ	1		
11:44	ZZZZZZ	1		
11:46	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:48	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:51	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:55	MA46407-CCV6	1	X	
11:56	MA46407-CCB6	1	X	
11:58	ZZZZZZ	1		
11:59	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:02	MP13774-MB1	1	X	
12:03	MP13774-B1	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:04	MP13774-S1	1	X	
12:06	MP13774-S2	1	X	
12:09	JC85487-1F	1	X	(a)
12:11	ZZZZZZ	1		
12:12	MA46407-CCV7	1	X	
12:13	MA46407-CCB7	1	X	
12:15	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:22	ZZZZZZ	1		
12:24	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:28	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:52	MA46407-CCV8	1	X	
12:53	MA46407-CCB8	1	X	
12:55	ZZZZZZ	20		
12:56	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	MA46407-CCV9	1	X	
13:13	MA46407-CCB9	1	X	
13:15	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:19	ZZZZZZ	1		
13:22	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
13:24	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:45	MA46407-CCV10	1	X	
13:46	MA46407-CCB10	1	X	
13:48	MP13776-MB1	1	X	
13:50	MP13776-B1	1	X	
13:51	MP13776-S1	1	X	
13:53	MP13776-S2	1	X	
13:55	JC85409-1F	1	X	(a)
13:57	ZZZZZZ	2		
13:59	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:04	ZZZZZZ	10		
14:05	MA46407-CCV11	1	X	
14:07	MA46407-CCB11	1	X	
14:09	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:15	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:22	ZZZZZZ	1		
14:23	ZZZZZZ	1		
14:26	MA46407-CCV12	1	X	
14:29	MA46407-CCB12	1	X	
14:31	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:34	ZZZZZZ	2		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
14:35	ZZZZZZ	1	
14:37	ZZZZZZ	20	
14:39	ZZZZZZ	20	
14:42	ZZZZZZ	20	
14:44	ZZZZZZ	20	
14:46	ZZZZZZ	1	
14:48	MA46407-CCV13	1	X
14:50	MA46407-CCB13	1	X
14:52	ZZZZZZ	1	
14:53	ZZZZZZ	50	
14:55	ZZZZZZ	1	
14:57	ZZZZZZ	1	
14:59	ZZZZZZ	1	
15:01	ZZZZZZ	2	
15:03	ZZZZZZ	2	
15:05	ZZZZZZ	1	
15:07	ZZZZZZ	1	
15:13	MA46407-CCV14	1	X
15:14	MA46407-CCB14	1	X
15:16	ZZZZZZ	1	
15:18	ZZZZZZ	1	
15:20	MP13777-MB1	1	X
15:22	MP13777-B1	1	X
15:23	MP13777-S1	1	X
15:26	MP13777-S2	1	X
15:28	JC85367-1F	1	X
15:30	JC85367-2F	1	X
15:31	JC85367-3F	1	X
15:32	MA46407-CCV15	1	X
15:34	MA46407-CCB15	1	X
15:36	JC85367-4F	1	X
15:37	ZZZZZZ	1	
15:38	ZZZZZZ	1	
		Element:	Hg

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
Analyst: EAL Run ID: MA46407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
15:40	ZZZZZZ	1	
15:41	ZZZZZZ	1	
15:42	ZZZZZZ	1	
15:43	ZZZZZZ	1	
15:45	MA46407-CCV16	1	X
15:46	MA46407-CCB16	1	X
15:48	ZZZZZZ	10	
15:50	ZZZZZZ	1	
15:52	ZZZZZZ	1	
15:53	ZZZZZZ	1	
15:56	ZZZZZZ	20	
15:57	ZZZZZZ	20	
16:00	MA46407-CCV17	1	X
16:02	MA46407-CCB17	1	X
16:05	ZZZZZZ	20	
16:06	ZZZZZZ	20	
16:17	ZZZZZZ	20	
16:18	ZZZZZZ	20	
16:21	ZZZZZZ	2	
16:23	ZZZZZZ	20	
16:25	ZZZZZZ	1	
16:27	MA46407-CRI2	1	X
16:29	MA46407-CCV18	1	X
16:30	MA46407-CCB18	1	X

(a) Sample used for QC only; not part of login JC85367.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA46407 Units: ug/l

Time:			10:12		10:15		10:49		11:05	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.00570	<0.20	-0.00970	<0.20	0.00390	<0.20	0.000100	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA46407 Units: ug/l

Time:			11:25		11:41		11:56		12:13	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.00880	<0.20	-0.00900	<0.20	-0.00210	<0.20	-0.0143	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA46407 Units: ug/l

Time:			12:53		13:13		13:46		14:07	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.00690	<0.20	-0.0198	<0.20	-0.00280	<0.20	-0.00710	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA46407 Units: ug/l

Time:			14:29		14:50		15:14		15:34	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.0443	<0.20	-0.00450	<0.20	-0.0270	<0.20	-0.00330	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA46407 Units: ug/l

Time:			15:46		16:02		16:30	
Sample ID:			CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final
Mercury	0.20	.035	-0.00640	<0.20	-0.0121	<0.20	0.000600	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA46407 Units: ug/l

Time:		10:11			10:14			10:47	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.01	100.3	2.5	2.36	94.4	2.5	2.37	94.8

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA46407 Units: ug/l

Time:		11:04			11:24			11:40	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.35	94.0	2.5	2.47	98.8	2.5	2.42	96.8

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA46407 Units: ug/l

Time:		11:55			12:12			12:52	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.43	97.2	2.5	2.31	92.4	2.5	2.47	98.8

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA46407 Units: ug/l

Time:		13:11			13:45			14:05	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.39	95.6	2.5	2.63	105.2	2.5	2.60	104.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA46407 Units: ug/l

Time:		14:26			14:48			15:13	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.54	101.6	2.5	2.52	100.8	2.5	2.56	102.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA46407 Units: ug/l

Time:		15:32			15:45			16:00	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.52	100.8	2.5	2.52	100.8	2.5	2.53	101.2

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA46407 Units: ug/l

Time:		16:29	
Sample ID:	CCV	CCV18	
Metal	True	Results	% Rec
Mercury	2.5	2.45	98.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: H7040219W1.CSV Date Analyzed: 04/02/19 Methods: SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA46407 Units: ug/l

Time:			10:17		16:27	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.155	77.5	0.164	82.0

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:54	MA46414-STD1	1		STDA
19:00	MA46414-STD2	1		STDB
19:05	ZZZZZZ	1		
19:10	ZZZZZZ	1		
19:15	MA46414-ICV1	1		
19:20	MA46414-ICB1	1		
19:26	MA46414-ICCV1	1		
19:36	MA46414-CCB1	1		
19:41	MA46414-CRI1	1		
19:46	MA46414-CRID1	1		
19:52	MA46414-ICSA1	1		
19:57	MA46414-ICSAB1	1		
20:03	MA46414-HSTD1	1		
20:08	MA46414-HSTD2	1		
20:14	ZZZZZZ	1		
20:19	ZZZZZZ	1		
20:25	ZZZZZZ	1		
20:30	MA46414-CCV1	1		
20:35	MA46414-CCB2	1		
20:40	MP13762-MB1	1		
20:45	MP13762-B1	1		
20:50	MP13762-S1	1		Na>3000ppm, In out
20:55	MP13762-S2	1		Na>3000ppm, In out
21:01	JC85326-1	1		(sample used for QC only; not part of login JC85367)
21:06	MP13762-SD1	5		Na>3000ppm, In out
21:11	ZZZZZZ	1		
21:17	ZZZZZZ	1		
21:22	ZZZZZZ	1		
21:28	MA46414-CCV2	1		
21:32	MA46414-CCB3	1		
21:38	ZZZZZZ	1		
21:43	ZZZZZZ	1		
21:49	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:54	ZZZZZZ	1		
22:00	ZZZZZZ	1		
22:05	ZZZZZZ	1		
22:10	ZZZZZZ	1		
22:16	ZZZZZZ	1		
22:21	ZZZZZZ	1		
22:27	MA46414-CCV3	1		
22:31	MA46414-CCB4	1		
22:37	ZZZZZZ	1		
22:42	ZZZZZZ	1		
22:47	ZZZZZZ	1		
22:53	ZZZZZZ	1		
22:58	ZZZZZZ	1		
23:04	ZZZZZZ	1		
23:09	ZZZZZZ	1		
23:15	MP13758-MB1	1		
23:20	MP13758-B1	1		
23:25	MA46414-CCV4	1		
23:30	MA46414-CCB5	1		
23:35	MP13758-S1	1		
23:40	MP13758-S2	1		
23:45	JC85367-1F	1		
23:50	MP13758-SD1	5		
23:56	JC85367-2F	1		
00:01	JC85367-3F	1		
00:06	JC85367-4F	1		Mn high RSD
---------->	Last reportable sample/prep for job JC85367			
00:11	ZZZZZZ	1		
00:17	ZZZZZZ	1		
00:22	MA46414-CCV5	1		
00:27	MA46414-CCB6	1		
---------->	Last reportable CCB for job JC85367			
00:32	ZZZZZZ	1		
00:37	ZZZZZZ	1		
00:42	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:47	ZZZZZZ	1		
00:52	ZZZZZZ	1		
00:58	ZZZZZZ	1		
01:03	ZZZZZZ	1		
01:09	ZZZZZZ	1		
01:14	ZZZZZZ	1		
01:19	MA46414-CCV6	1		FE out
01:24	MA46414-CCB7	1		
01:29	ZZZZZZ	1		
01:35	ZZZZZZ	1		
01:40	ZZZZZZ	1		
01:45	ZZZZZZ	1		
01:51	ZZZZZZ	1		
01:56	ZZZZZZ	1		
02:01	ZZZZZZ	1		
02:07	ZZZZZZ	1		
02:12	ZZZZZZ	1		
02:17	ZZZZZZ	1		
02:23	ZZZZZZ	1		
02:28	ZZZZZZ	1		
02:33	MA46414-CCV7	1		
02:38	MA46414-CCB8	1		
02:43	ZZZZZZ	1		
02:49	ZZZZZZ	1		
02:54	MP13751-MB1	1		CCV out
02:59	MP13751-B1	1		CCV out
03:04	MP13751-S1	1		Need PS for Be and Ca on undiluted sample.
03:09	MP13751-S2	1		Need PS for Be and Ca on undiluted sample.
03:14	JC85273-1	1		(sample used for QC only; not part of login JC85367)
03:20	MP13751-SD1	5		
03:25	ZZZZZZ	1		
03:30	MA46414-CCV8	1		Fe out
03:35	MA46414-CCB9	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:40	ZZZZZZ	1		
03:45	ZZZZZZ	1		
03:51	ZZZZZZ	1		
03:56	ZZZZZZ	1		
04:01	ZZZZZZ	1		
04:06	ZZZZZZ	1		
04:11	ZZZZZZ	1		
04:17	ZZZZZZ	1		
04:22	ZZZZZZ	1		
04:27	ZZZZZZ	1		
04:32	MA46414-CCV9	1		FE, Mg and Na out
04:37	MA46414-CCB10	1		
04:42	ZZZZZZ	1		
04:47	ZZZZZZ	1		
04:52	ZZZZZZ	1		
04:57	ZZZZZZ	1		
05:02	ZZZZZZ	1		
05:08	ZZZZZZ	1		
05:13	ZZZZZZ	1		
05:18	ZZZZZZ	1		
05:23	MP13761-MB1	1		
05:28	MP13761-B1	1		
05:33	MA46414-CCV10	1		
05:38	MA46414-CCB11	1		
05:43	MP13761-S1	1		
05:48	MP13761-S2	1		
05:53	JC85321-4	1		(sample used for QC only; not part of login JC85367)
05:59	MP13761-SD1	5		
06:04	ZZZZZZ	1		
06:09	ZZZZZZ	1		
06:14	ZZZZZZ	1		
06:19	ZZZZZZ	1		
06:24	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:30	ZZZZZZ	1		
06:35	MA46414-CCV11	1		FE out
06:40	MA46414-CCB12	1		
06:45	ZZZZZZ	1		
06:50	ZZZZZZ	1		
06:56	ZZZZZZ	1		
07:01	ZZZZZZ	1		
07:06	ZZZZZZ	1		
07:12	ZZZZZZ	1		
07:17	ZZZZZZ	1		
07:23	ZZZZZZ	1		
07:28	ZZZZZZ	1		
07:33	ZZZZZZ	1		
07:39	MA46414-CCV12	1		
07:43	MA46414-CCB13	1		
07:49	ZZZZZZ	1		
07:54	ZZZZZZ	1		
08:06	ZZZZZZ	1		
08:11	MA46414-CCV13	1		
08:16	MA46414-CCB14	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
19:05	ZZZZZZ	1																							
19:10	ZZZZZZ	1																							
19:15	MA46414-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:20	MA46414-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:26	MA46414-ICCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:36	MA46414-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:41	MA46414-CRI1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:46	MA46414-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:52	MA46414-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:57	MA46414-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:03	MA46414-HSTD1	1		X	X	X	X	X		X	X	X		X		X	X		X	X		X	X	X	
20:08	MA46414-HSTD2	1	X					X				X			X		X				X			
20:14	ZZZZZZ	1																							
20:19	ZZZZZZ	1																							
20:25	ZZZZZZ	1																							
20:30	MA46414-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:35	MA46414-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:40	MP13762-MB1	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
20:45	MP13762-B1	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
20:50	MP13762-S1	1	X	X		X	X	X	X		X	X			X		X	X	X				X	X	
20:55	MP13762-S2	1	X	X		X	X	X	X		X	X			X		X	X	X				X	X	
21:01	JC85326-1	1	X	X		X	X	X	X		X	X			X		X	X	X				X	X	(a)
21:06	MP13762-SD1	5	X	X		X	X	X	X		X	X			X		X	X	X				X	X	
21:11	ZZZZZZ	1																							
21:17	ZZZZZZ	1																							
21:22	ZZZZZZ	1																							
21:28	MA46414-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:32	MA46414-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:38	ZZZZZZ	1																							
21:43	ZZZZZZ	1																							
21:49	ZZZZZZ	1																							
21:54	ZZZZZZ	1																							
22:00	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
22:05	ZZZZZZ	1																						
22:10	ZZZZZZ	1																						
22:16	ZZZZZZ	1																						
22:21	ZZZZZZ	1																						
22:27	MA46414-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22:31	MA46414-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22:37	ZZZZZZ	1																						
22:42	ZZZZZZ	1																						
22:47	ZZZZZZ	1																						
22:53	ZZZZZZ	1																						
22:58	ZZZZZZ	1																						
23:04	ZZZZZZ	1																						
23:09	ZZZZZZ	1																						
23:15	MP13758-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:20	MP13758-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:25	MA46414-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:30	MA46414-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:35	MP13758-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:40	MP13758-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:45	JC85367-1F	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:50	MP13758-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:56	JC85367-2F	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00:01	JC85367-3F	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00:06	JC85367-4F	1	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
00:11	ZZZZZZ	1																						
00:17	ZZZZZZ	1																						
00:22	MA46414-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00:27	MA46414-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00:32	ZZZZZZ	1																						
00:37	ZZZZZZ	1																						
00:42	ZZZZZZ	1																						
00:47	ZZZZZZ	1																						
00:52	ZZZZZZ	1																						
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
00:58	ZZZZZZ	1																							
01:03	ZZZZZZ	1																							
01:09	ZZZZZZ	1																							
01:14	ZZZZZZ	1																							
01:19	MA46414-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:24	MA46414-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:29	ZZZZZZ	1																							
01:35	ZZZZZZ	1																							
01:40	ZZZZZZ	1																							
01:45	ZZZZZZ	1																							
01:51	ZZZZZZ	1																							
01:56	ZZZZZZ	1																							
02:01	ZZZZZZ	1																							
02:07	ZZZZZZ	1																							
02:12	ZZZZZZ	1																							
02:17	ZZZZZZ	1																							
02:23	ZZZZZZ	1																							
02:28	ZZZZZZ	1																							
02:33	MA46414-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:38	MA46414-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:43	ZZZZZZ	1																							
02:49	ZZZZZZ	1																							
02:54	MP13751-MB1	1	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
02:59	MP13751-B1	1	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
03:04	MP13751-S1	1	X			X	X		X		X				X		X	X			X		X	X	
03:09	MP13751-S2	1	X			X	X		X		X				X		X	X			X		X	X	
03:14	JC85273-1	1				X																			(a)
03:20	MP13751-SD1	5	X			X	X		X		X				X		X	X			X		X	X	
03:25	ZZZZZZ	1																							
03:30	MA46414-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:35	MA46414-CCB9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:40	ZZZZZZ	1																							
03:45	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
03:51	ZZZZZZ	1																							
03:56	ZZZZZZ	1																							
04:01	ZZZZZZ	1																							
04:06	ZZZZZZ	1																							
04:11	ZZZZZZ	1																							
04:17	ZZZZZZ	1																							
04:22	ZZZZZZ	1																							
04:27	ZZZZZZ	1																							
04:32	MA46414-CCV9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
04:37	MA46414-CCB10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
04:42	ZZZZZZ	1																							
04:47	ZZZZZZ	1																							
04:52	ZZZZZZ	1																							
04:57	ZZZZZZ	1																							
05:02	ZZZZZZ	1																							
05:08	ZZZZZZ	1																							
05:13	ZZZZZZ	1																							
05:18	ZZZZZZ	1																							
05:23	MP13761-MB1	1	X		X	X		X		X			X		X				X	X					
05:28	MP13761-B1	1	X		X	X		X		X			X		X				X	X					
05:33	MA46414-CCV10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
05:38	MA46414-CCB11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
05:43	MP13761-S1	1	X		X	X		X		X			X		X				X						
05:48	MP13761-S2	1	X		X	X		X		X			X		X				X						
05:53	JC85321-4	1			X	X		X		X			X						X						(a)
05:59	MP13761-SD1	5	X		X	X		X		X			X		X				X						
06:04	ZZZZZZ	1																							
06:09	ZZZZZZ	1																							
06:14	ZZZZZZ	1																							
06:19	ZZZZZZ	1																							
06:24	ZZZZZZ	1																							
06:30	ZZZZZZ	1																							
06:35	MA46414-CCV11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: / Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
06:40	MA46414-CCB12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
06:45	ZZZZZZ	1																						
06:50	ZZZZZZ	1																						
06:56	ZZZZZZ	1																						
07:01	ZZZZZZ	1																						
07:06	ZZZZZZ	1																						
07:12	ZZZZZZ	1																						
07:17	ZZZZZZ	1																						
07:23	ZZZZZZ	1																						
07:28	ZZZZZZ	1																						
07:33	ZZZZZZ	1																						
07:39	MA46414-CCV12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07:43	MA46414-CCB13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07:49	ZZZZZZ	1																						
07:54	ZZZZZZ	1																						
08:06	ZZZZZZ	1																						
08:11	MA46414-CCV13	1																						
08:16	MA46414-CCB14	1																						

(a) Sample used for QC only; not part of login JC85367.

Element: / Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:54	MA46414-STD1	4069 R	154730 R	28102 R	7498 R
19:00	MA46414-STD2	3893	144970	27778	6705
19:05	ZZZZZZ	4047	151050	28693	6990
19:10	ZZZZZZ	4137	155310	28449	7621
19:15	MA46414-ICV1	4006	149240	28379	6927
19:20	MA46414-ICB1	4088	154880	28147	7526
19:26	MA46414-ICCV1	3996	149040	28085	6897
19:36	MA46414-CCB1	4076	154170	28124	7506
19:41	MA46414-CRI1	4065	153730	28380	7387
19:46	MA46414-CRID1	4059	153860	28128	7454
19:52	MA46414-ICSA1	3695	136470	27134	6154
19:57	MA46414-ICSAB1	3700	136480	26932	6177
20:03	MA46414-HSTD1	3935	149150	27930	7317
20:08	MA46414-HSTD2	3746	139110	27143	6218
20:14	ZZZZZZ	4039	152030	27989	7573
20:19	ZZZZZZ	4049	156650	28568	7563
20:25	ZZZZZZ	4080	154240	27919	7510
20:30	MA46414-CCV1	3967	147170	27674	6854
20:35	MA46414-CCB2	4098	155090	27988	7543
20:40	MP13762-MB1	4090	157070	28419	7534
20:45	MP13762-B1	3998	151670	28385	7024
20:50	MP13762-S1	3217	118700	25556	5121 !a
20:55	MP13762-S2	3244	119800	25814	5161 !a
21:01	JC85326-1	3161	117160	25486	5070 !a
21:06	MP13762-SD1	3640	135000	26750	6073
21:11	ZZZZZZ	3191	117420	25315	5092 !a
21:17	ZZZZZZ	3272	120920	25909	5270
21:22	ZZZZZZ	3311	123720	26032	5339
21:28	MA46414-CCV2	3981	146590	27274	6867
21:32	MA46414-CCB3	4034	153110	27098	7416
21:38	ZZZZZZ	3232	119640	25296	5202 !a
21:43	ZZZZZZ	3169	117510	24973	5054 !a
21:49	ZZZZZZ	3139	116060	24954	5004 !a

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:54	ZZZZZZ	3157	116650	24692	5047 !a
22:00	ZZZZZZ	3172	117020	24702	5073 !a
22:05	ZZZZZZ	4071	155180	27365	7497
22:10	ZZZZZZ	3195	117960	24856	5104 !a
22:16	ZZZZZZ	3184	117380	24546	5075 !a
22:21	ZZZZZZ	3275	120460	24706	5269
22:27	MA46414-CCV3	3974	148580	26276	6834
22:31	MA46414-CCB4	4084	155290	26377	7476
22:37	ZZZZZZ	3293	121910	24593	5302
22:42	ZZZZZZ	3269	121030	24321	5245 !a
22:47	ZZZZZZ	3126	115430	23649	4980 !a
22:53	ZZZZZZ	3160	116280	23799	5024 !a
22:58	ZZZZZZ	3166	116590	23821	5049 !a
23:04	ZZZZZZ	3197	117480	23397	5086 !a
23:09	ZZZZZZ	4066	155460	25919	7464
23:15	MP13758-MB1	4004	152720	25409	7352
23:20	MP13758-B1	3972	149290	25616	6948
23:25	MA46414-CCV4	3975	148510	25399	6822
23:30	MA46414-CCB5	3996	153670	25517	7323
23:35	MP13758-S1	3844	144810	25078	6545
23:40	MP13758-S2	3898	146830	25298	6628
23:45	JC85367-1F	3896	147850	25482	6792
23:50	MP13758-SD1	3993	150210	25232	7186
23:56	JC85367-2F	3856	149700	25328	6856
00:01	JC85367-3F	3927	149230	25325	6969
00:06	JC85367-4F	3842	141740	25054	6805
00:11	ZZZZZZ	4021	152690	25634	7230
00:17	ZZZZZZ	4018	152170	25518	7217
00:22	MA46414-CCV5	3924	146270	24816	6730
00:27	MA46414-CCB6	3993	150280	24649	7306
00:32	ZZZZZZ	3994	151610	25367	7195
00:37	ZZZZZZ	3907	149830	25077	7025
00:42	ZZZZZZ	3818	146160	24742	6681

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:47	ZZZZZZ	3878	145930	24721	6796
00:52	ZZZZZZ	3707	138990	24449	6243
00:58	ZZZZZZ	3772	144830	25130	6574
01:03	ZZZZZZ	3720	142180	24515	6419
01:09	ZZZZZZ	3751	143000	24658	6524
01:14	ZZZZZZ	3708	141580	24382	6425
01:19	MA46414-CCV6	3931	146340	24750	6746
01:24	MA46414-CCB7	4089	151280	24759	7463
01:29	ZZZZZZ	4008	153570	24976	7316
01:35	ZZZZZZ	4079	155060	25371	7468
01:40	ZZZZZZ	4110	154910	25192	7494
01:45	ZZZZZZ	4131	156590	25655	7530
01:51	ZZZZZZ	4065	153920	24977	7420
01:56	ZZZZZZ	4078	154090	24960	7437
02:01	ZZZZZZ	4148	157370	25644	7579
02:07	ZZZZZZ	4145	157050	25483	7650
02:12	ZZZZZZ	4106	155180	25144	7560
02:17	ZZZZZZ	4214	146820	25525	6642
02:23	ZZZZZZ	3741	142490	24503	6473
02:28	ZZZZZZ	3733	141390	24430	6406
02:33	MA46414-CCV7	3900	145620	24215	6690
02:38	MA46414-CCB8	4002	152330	24731	7317
02:43	ZZZZZZ	3699	139790	24268	6245
02:49	ZZZZZZ	3994	151640	24756	7286
02:54	MP13751-MB1	4005	148820	24621	7336
02:59	MP13751-B1	3955	147760	24680	6896
03:04	MP13751-S1	4823	178180	30810	7218
03:09	MP13751-S2	4739	177200	30151	7137
03:14	JC85273-1	5193	191900	32427	7574
03:20	MP13751-SD1	4258	158910	25460	7300
03:25	ZZZZZZ	4338	160840	26463	7208
03:30	MA46414-CCV8	3955	147310	24582	6768
03:35	MA46414-CCB9	4086	153910	24878	7450

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:40	ZZZZZZ	4322	160110	26324	7256
03:45	ZZZZZZ	3966	148480	25777	6238
03:51	ZZZZZZ	4251	156280	26550	6705
03:56	ZZZZZZ	4186	156580	26427	6937
04:01	ZZZZZZ	4304	158750	26282	7136
04:06	ZZZZZZ	4248	157950	25886	7252
04:11	ZZZZZZ	4280	158290	25899	7232
04:17	ZZZZZZ	4237	156240	25763	7150
04:22	ZZZZZZ	4229	154060	25717	7125
04:27	ZZZZZZ	4254	153520	25318	7184
04:32	MA46414-CCV9	3931	145580	24182	6723
04:37	MA46414-CCB10	4000	150450	24042	7299
04:42	ZZZZZZ	3845	143320	24113	6258
04:47	ZZZZZZ	4233	155640	25588	7079
04:52	ZZZZZZ	4240	157130	25629	7220
04:57	ZZZZZZ	4203	153990	25083	7159
05:02	ZZZZZZ	4099	152310	24727	7161
05:08	ZZZZZZ	4088	150660	24450	7276
05:13	ZZZZZZ	4133	152900	24995	7453
05:18	ZZZZZZ	4120	151490	24854	7592
05:23	MP13761-MB1	4054	152750	24358	7399
05:28	MP13761-B1	3904	146000	23863	6813
05:33	MA46414-CCV10	3975	146690	24094	6782
05:38	MA46414-CCB11	4090	153870	24230	7444
05:43	MP13761-S1	4187	154890	25543	6898
05:48	MP13761-S2	4228	154990	25738	6944
05:53	JC85321-4	4266	155460	25473	7112
05:59	MP13761-SD1	4140	151970	24994	7297
06:04	ZZZZZZ	4350	159340	26056	7269
06:09	ZZZZZZ	4346	159910	26116	7298
06:14	ZZZZZZ	4323	157560	25692	7285
06:19	ZZZZZZ	4315	157050	25755	7264
06:24	ZZZZZZ	4337	157420	25623	7284

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46414
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:30	ZZZZZZ	5013	180470	29934	7329
06:35	MA46414-CCV11	4024	148080	24092	6867
06:40	MA46414-CCB12	4128	153490	24364	7506
06:45	ZZZZZZ	No results reported for the elements associated with this internal standard.			
06:50	ZZZZZZ	No results reported for the elements associated with this internal standard.			
06:56	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:01	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:06	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:12	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:17	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:23	ZZZZZZ	5179	187740	31466	7170
07:28	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:33	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:39	MA46414-CCV12	3951	145920	23677	6750
07:43	MA46414-CCB13	4059	153440	24322	7397
07:49	ZZZZZZ	No results reported for the elements associated with this internal standard.			
07:54	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:06	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:11	MA46414-CCV13	No results reported for the elements associated with this internal standard.			
08:16	MA46414-CCB14	No results reported for the elements associated with this internal standard.			

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46414 Units: ug/l

Time: / Sample ID:			19:20 ICB1		19:36 CCB1		20:35 CCB2		21:32 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	3.10	<200	-5.30	<200	-1.90	<200	-2.80	<200
Antimony	6.0	1.3	1.30	<6.0	0.600	<6.0	1.40	<6.0	0.600	<6.0
Arsenic	3.0	1.5	-0.500	<3.0	-0.500	<3.0	-0.100	<3.0	-0.300	<3.0
Barium	200	.3	0.00	<200	0.200	<200	0.00	<200	0.200	<200
Beryllium	1.0	.1	0.00	<1.0	0.100	<1.0	0.00	<1.0	0.100	<1.0
Bismuth	20	3.3								
Boron	100	.8								
Cadmium	3.0	.1	0.100	<3.0	0.200	<3.0	0.00	<3.0	0.00	<3.0
Calcium	5000	2.3	1.10	<5000	2.30	<5000	0.100	<5000	0.300	<5000
Chromium	10	.5	-0.100	<10	0.00	<10	0.00	<10	-0.100	<10
Cobalt	50	.4	0.00	<50	0.100	<50	0.100	<50	0.200	<50
Copper	10	.8	0.00	<10	0.100	<10	0.100	<10	-0.100	<10
Iron	100	4.4	-1.00	<100	0.800	<100	-1.00	<100	1.10	<100
Lead	3.0	1.1	0.00	<3.0	0.00	<3.0	-0.200	<3.0	0.00	<3.0
Lithium	50	4.4								
Magnesium	5000	14	13.0	<5000	20.9	<5000	16.7	<5000	10.7	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.100	<15	0.100	<15
Molybdenum	20	.7								
Nickel	10	.3	0.200	<10	0.100	<10	-0.100	<10	0.00	<10
Phosphorus	50	2.4								
Potassium	10000	140	-20.2	<10000	-23.7	<10000	-22.0	<10000	66.8	<10000
Selenium	10	1.8	0.100	<10	-0.700	<10	-0.200	<10	-0.200	<10
Silicon	200	2.2								
Silver	10	.5	0.100	<10	-0.200	<10	-0.200	<10	-0.700	<10
Sodium	10000	34	-37.6	<10000	-52.5	<10000	-78.1	<10000	328	<10000
Strontium	10	.1								
Sulfur	50	9.8								
Thallium	10	1.3	-0.200	<10	0.700	<10	-0.100	<10	0.400	<10
Tin	10	.9								
Titanium	10	.3								
Tungsten	50	3.9								
Vanadium	50	.3	0.00	<50	0.00	<50	0.100	<50	0.00	<50
Zinc	20	1.3	0.100	<20	0.200	<20	0.200	<20	0.200	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46414 Units: ug/l

Time: / Sample ID:			19:20 ICB1		19:36 CCB1		20:35 CCB2		21:32 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46414 Units: ug/l

Time:			22:31		23:30		00:27	
Sample ID:			CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	14	3.40	<200	0.700	<200	-1.50	<200
Antimony	6.0	1.3	1.20	<6.0	0.200	<6.0	0.900	<6.0
Arsenic	3.0	1.5	-0.600	<3.0	-0.900	<3.0	0.200	<3.0
Barium	200	.3	0.200	<200	0.300	<200	0.200	<200
Beryllium	1.0	.1	0.100	<1.0	0.100	<1.0	0.00	<1.0
Bismuth	20	3.3						
Boron	100	.8						
Cadmium	3.0	.1	0.200	<3.0	0.100	<3.0	0.00	<3.0
Calcium	5000	2.3	-3.00	<5000	-4.50	<5000	-9.30	<5000
Chromium	10	.5	0.100	<10	0.300	<10	-0.300	<10
Cobalt	50	.4	0.200	<50	0.200	<50	0.00	<50
Copper	10	.8	-0.300	<10	-0.300	<10	-0.400	<10
Iron	100	4.4	0.00	<100	1.20	<100	-2.40	<100
Lead	3.0	1.1	0.100	<3.0	0.300	<3.0	0.00	<3.0
Lithium	50	4.4						
Magnesium	5000	14	10.6	<5000	14.7	<5000	7.60	<5000
Manganese	15	.1	0.100	<15	0.100	<15	0.00	<15
Molybdenum	20	.7						
Nickel	10	.3	0.00	<10	0.00	<10	-0.100	<10
Phosphorus	50	2.4						
Potassium	10000	140	35.8	<10000	28.4	<10000	26.1	<10000
Selenium	10	1.8	-1.30	<10	0.500	<10	-0.200	<10
Silicon	200	2.2						
Silver	10	.5	-1.10	<10	-1.50	<10	-1.70	<10
Sodium	10000	34	438	<10000	247	<10000	60.3	<10000
Strontium	10	.1						
Sulfur	50	9.8						
Thallium	10	1.3	-0.100	<10	0.600	<10	0.200	<10
Tin	10	.9						
Titanium	10	.3						
Tungsten	50	3.9						
Vanadium	50	.3	-0.200	<50	0.100	<50	-0.200	<50
Zinc	20	1.3	0.100	<20	0.100	<20	0.00	<20

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46414 Units: ug/l

Time:			22:31		23:30		00:27	
Sample ID:			CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zirconium	10	.2						

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA46414 Units: ug/l

Time:		19:26	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	39100	97.8
Antimony	2000	2010	100.5
Arsenic	2000	1990	99.5
Barium	2000	2000	100.0
Beryllium	2000	2030	101.5
Bismuth			
Boron			
Cadmium	2000	2010	100.5
Calcium	40000	39800	99.5
Chromium	2000	2010	100.5
Cobalt	2000	2010	100.5
Copper	2000	1950	97.5
Iron	40000	40000	100.0
Lead	2000	2040	102.0
Lithium			
Magnesium	40000	39600	99.0
Manganese	2000	2050	102.5
Molybdenum			
Nickel	2000	2040	102.0
Phosphorus			
Potassium	40000	39000	97.5
Selenium	2000	1990	99.5
Silicon			
Silver	250	245	98.0
Sodium	40000	39300	98.3
Strontium			
Sulfur			
Thallium	2000	2070	103.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	1990	99.5
Zinc	2000	2040	102.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA46414 Units: ug/l

Time:		19:26	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46414 Units: ug/l

Time:		19:15			20:30			21:28	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38400	96.0	40000	39800	99.5	40000	39600	99.0
Antimony	2000	1930	96.5	2000	2030	101.5	2000	2030	101.5
Arsenic	2000	1930	96.5	2000	2000	100.0	2000	2000	100.0
Barium	2000	1980	99.0	2000	2040	102.0	2000	2040	102.0
Beryllium	2000	1990	99.5	2000	2060	103.0	2000	2020	101.0
Bismuth									
Boron									
Cadmium	2000	1970	98.5	2000	2020	101.0	2000	2030	101.5
Calcium	40000	39200	98.0	40000	40400	101.0	40000	39800	99.5
Chromium	2000	1950	97.5	2000	2040	102.0	2000	2050	102.5
Cobalt	2000	2000	100.0	2000	2020	101.0	2000	2020	101.0
Copper	2000	1910	95.5	2000	1990	99.5	2000	1990	99.5
Iron	40000	39200	98.0	40000	40600	101.5	40000	39400	98.5
Lead	2000	1990	99.5	2000	2050	102.5	2000	2040	102.0
Lithium									
Magnesium	40000	38800	97.0	40000	40200	100.5	40000	39300	98.3
Manganese	2000	2010	100.5	2000	2090	104.5	2000	2090	104.5
Molybdenum									
Nickel	2000	1980	99.0	2000	2050	102.5	2000	2060	103.0
Phosphorus									
Potassium	40000	38500	96.3	40000	39600	99.0	40000	39500	98.8
Selenium	2000	1940	97.0	2000	2000	100.0	2000	2000	100.0
Silicon									
Silver	250	242	96.8	250	249	99.6	250	247	98.8
Sodium	40000	38800	97.0	40000	40200	100.5	40000	38500	96.3
Strontium									
Sulfur									
Thallium	2000	2020	101.0	2000	2080	104.0	2000	2100	105.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1960	98.0	2000	2030	101.5	2000	2040	102.0
Zinc	2000	1980	99.0	2000	2050	102.5	2000	2040	102.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46414 Units: ug/l

Time:		19:15			20:30			21:28	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46414 Units: ug/l

Time:		22:27			23:25			00:22	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39700	99.3	40000	39800	99.5	40000	40200	100.5
Antimony	2000	2030	101.5	2000	2040	102.0	2000	2070	103.5
Arsenic	2000	1960	98.0	2000	1960	98.0	2000	1980	99.0
Barium	2000	2070	103.5	2000	2090	104.5	2000	2140	107.0
Beryllium	2000	1990	99.5	2000	1940	97.0	2000	1980	99.0
Bismuth									
Boron									
Cadmium	2000	2010	100.5	2000	2020	101.0	2000	2050	102.5
Calcium	40000	39100	97.8	40000	38400	96.0	40000	38700	96.8
Chromium	2000	2030	101.5	2000	2030	101.5	2000	2080	104.0
Cobalt	2000	2000	100.0	2000	2010	100.5	2000	2040	102.0
Copper	2000	1940	97.0	2000	1920	96.0	2000	1960	98.0
Iron	40000	38000	95.0	40000	36100	90.3	40000	36400	91.0
Lead	2000	2010	100.5	2000	2000	100.0	2000	2030	101.5
Lithium									
Magnesium	40000	38200	95.5	40000	36900	92.3	40000	37100	92.8
Manganese	2000	2050	102.5	2000	2050	102.5	2000	2090	104.5
Molybdenum									
Nickel	2000	2060	103.0	2000	2070	103.5	2000	2110	105.5
Phosphorus									
Potassium	40000	39900	99.8	40000	40500	101.3	40000	40900	102.3
Selenium	2000	1960	98.0	2000	1960	98.0	2000	1980	99.0
Silicon									
Silver	250	241	96.4	250	238	95.2	250	241	96.4
Sodium	40000	38900	97.3	40000	40400	101.0	40000	41500	103.8
Strontium									
Sulfur									
Thallium	2000	2070	103.5	2000	2080	104.0	2000	2110	105.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	2050	102.5
Zinc	2000	2030	101.5	2000	2020	101.0	2000	2060	103.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46414 Units: ug/l

Time:		22:27			23:25			00:22	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA46414 Units: ug/l

Time:		20:03			20:08	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	301000	100.3
Antimony	8000	8310	103.9			
Arsenic	8000	8130	101.6			
Barium	8000	8000	100.0			
Beryllium	8000	8230	102.9			
Bismuth						
Boron						
Cadmium	8000	8000	100.0			
Calcium				200000	193000	96.5
Chromium	8000	8390	104.9			
Cobalt	8000	8080	101.0			
Copper	8000	7940	99.3			
Iron				200000	195000	97.5
Lead	8000	8170	102.1			
Lithium						
Magnesium				300000	309000	103.0
Manganese	8000	8190	102.4			
Molybdenum						
Nickel	8000	8100	101.3			
Phosphorus						
Potassium				200000	201000	100.5
Selenium	8000	8210	102.6			
Silicon						
Silver	625	587	93.9			
Sodium				200000	204000	102.0
Strontium						
Sulfur						
Thallium	8000	8350	104.4			
Tin						
Titanium						
Tungsten						
Vanadium	8000	8270	103.4			
Zinc	8000	8490	106.1			

HIGH STANDARD CHECK SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA46414 Units: ug/l

Time:		20:03			20:08	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA46414 Units: ug/l

Time:				19:41		19:46	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	196	98.0	98.7	98.7
Antimony	6.0	20	3.0	7.10	118.3	1.10U	0.0* (a)
Arsenic	8.0	20	3.0	7.70	96.3	2.50	83.3
Barium	200		4.0	201	100.5	4.10	102.5
Beryllium	2.0		1.0	2.00	100.0	1.00	100.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	3.00	100.0	1.00	100.0
Calcium	5000	2000	1000	5010	100.2	1010	101.0
Chromium	10		2.0	9.80	98.0	1.60	80.0
Cobalt	50		3.0	48.8	97.6	3.10	103.3
Copper	10		2.0	9.10	91.0	-0.100U	0.0* (a)
Iron	100	500		100	100.0		
Lead	3.0	20	2.5	3.50	116.7	0.100U	0.0* (a)
Lithium	50						
Magnesium	5000	2000	100	5110	102.2	120	120.0
Manganese	15		3.0	15.6	104.0	3.10	103.3
Molybdenum	20						
Nickel	10		4.0	10.0	100.0	4.10	102.5
Phosphorus	50						
Potassium	5000		2000	4810	96.2	1910	95.5
Selenium	10	20	5.0	8.40	84.0	4.50	90.0
Silicon	200						
Silver	5.0		2.0	4.10	82.0	-0.100U	0.0* (a)
Sodium	5000		1000	4870	97.4	935	93.5
Strontium	10						
Sulfur	50						
Thallium	10		2.0	10.9	109.0	2.50	125.0*(a
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	50.1	100.2	1.90	95.0
Zinc	20		10	20.7	103.5	10.3	103.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA46414 Units: ug/l

Time:				19:41		19:46	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element at this RL in the area bracketed by this QC.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA46414 Units: ug/l

Time:			19:52		19:57	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	496000	99.2	507000	101.4
Antimony		1000	-0.700		1070	107.0
Arsenic		1000	1.10		1060	106.0
Barium		500	1.00		513	102.6
Beryllium		500	0.00		499	99.8
Bismuth		500	-5.50		488	97.6
Boron		500	1.20		487	97.4
Cadmium		1000	0.100		1020	102.0
Calcium	400000	400000	381000	95.3	380000	95.0
Chromium		500	1.50		476	95.2
Cobalt		500	0.600		475	95.0
Copper		500	-0.800		512	102.4
Iron	200000	200000	192000	96.0	186000	93.0
Lead		1000	2.50		961	96.1
Lithium		500	-0.100		530	106.0
Magnesium	500000	500000	513000	102.6	518000	103.6
Manganese		500	-2.30		498	99.6
Molybdenum		500	-2.40		483	96.6
Nickel		1000	-0.300		965	96.5
Phosphorus		500	15.0		515	103.0
Potassium			15.1		22.2	
Selenium		1000	1.60		1050	105.0
Silicon		500	-2.10		518	103.6
Silver		1000	2.60		1080	108.0
Sodium			-23.4		-17.4	
Strontium		500	-7.00		564	112.8
Sulfur		500	-26.8		453	90.6
Thallium		1000	2.50		981	98.1
Tin		500	-2.10		459	91.8
Titanium		500	-0.500		494	98.8
Tungsten		500	2.00		471	94.2
Vanadium		500	1.10		492	98.4
Zinc		1000	-0.400		935	93.5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SD040219M1.ICP Date Analyzed: 04/02/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA46414 Units: ug/l

Time:			19:52		19:57	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zirconium		500	-1.00		524	104.8

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:02	MA46419-STD1	1		STDA
10:07	MA46419-STD2	1		STDB
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:23	ZZZZZZ	1		
10:28	MA46419-ICV1	1		
10:33	MA46419-ICB1	1		
10:40	MA46419-ICCV1	1		
10:48	MA46419-CCB1	1		
10:52	MA46419-CRI1	1		
10:58	MA46419-CRID1	1		
11:03	MA46419-ICSA1	1		
11:08	MA46419-ICSAB1	1		
11:13	MA46419-HSTD1	1		
11:19	MA46419-HSTD2	1		
11:24	ZZZZZZ	1		
11:30	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:41	MA46419-CCV1	1		
11:46	MA46419-CCB2	1		
11:51	MP13671-MB1	1		
11:57	MP13671-MB2	1		
12:02	MP13671-B1	1		
12:07	MP13671-B2	1		
12:12	MP13671-S1	1		
12:17	MP13671-S2	1		
12:22	JC84498-93	1		(sample used for QC only; not part of login JC85367)
12:27	MP13671-SD1	5		
12:33	ZZZZZZ	1		
12:38	MA46419-CCV2	1		
12:43	MA46419-CCB3	1		
12:49	ZZZZZZ	1		
12:54	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:59	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:15	MP13765-MB1	1		
13:21	MP13765-B1	1		
13:26	ZZZZZZ	1		
13:31	MA46419-CCV3	1		
13:37	MA46419-CCB4	1		
13:42	MP13765-S1	1		
13:47	MP13765-S2	1		
13:52	JC85513-5F	1		(sample used for QC only; not part of login JC85367)
13:57	MP13765-SD1	5		
14:03	MP13751-MB1	1		
14:08	MP13751-B1	1		
14:13	ZZZZZZ	2		
14:18	ZZZZZZ	2		
14:23	ZZZZZZ	2		
14:28	MA46419-CCV4	1		
14:41	MA46419-CCB5	1		
14:47	ZZZZZZ	10		
14:52	MP13751-PS1	1		
14:57	ZZZZZZ	2		
15:02	MP13751-S1	5		needs post spike for Sb on dilution
15:07	MP13751-S2	5		
15:12	JC85273-1	5		(sample used for QC only; not part of login JC85367)
15:18	MP13751-SD1	25		
15:23	ZZZZZZ	1		
15:29	ZZZZZZ	5		
15:34	MA46419-CCV5	1		
15:39	MA46419-CCB6	1		
15:44	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:59	ZZZZZZ	2		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:04	ZZZZZZ	1		
16:09	ZZZZZZ	2		
16:14	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:25	ZZZZZZ	1		
16:30	ZZZZZZ	2		
16:35	MA46419-CCV6	1		
16:40	MA46419-CCB7	1		
16:46	MA46419-ICSA2	1		
16:51	MA46419-ICSAB2	1		
16:56	ZZZZZZ	2		
17:01	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:12	MP13761-S1	1		
17:17	MP13761-S2	1		
17:22	JC85321-4	1		(sample used for QC only; not part of login JC85367)
17:27	MP13761-SD1	5		
17:32	MA46419-CCV7	1		
17:37	MA46419-CCB8	1		
17:43	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:53	ZZZZZZ	1		
17:59	MP13693-B1	1		
18:04	MP13693-MB1	1		
18:09	MP13693-B2	1		
18:14	JC85075-1	1		(sample used for QC only; not part of login JC85367)
18:19	MP13693-SD1	5		
18:25	ZZZZZZ	1		
18:30	MA46419-CCV8	1		
18:35	MA46419-CCB9	1		
18:41	ZZZZZZ	1		
18:46	ZZZZZZ	1		
18:52	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:57	ZZZZZZ	1		
19:02	ZZZZZZ	1		
19:08	ZZZZZZ	1		
19:13	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:24	ZZZZZZ	1		
19:29	MA46419-CCV9	1		
19:34	MA46419-CCB10	1		
19:40	ZZZZZZ	1		
19:45	ZZZZZZ	1		
19:51	ZZZZZZ	1		
19:56	ZZZZZZ	1		
20:01	ZZZZZZ	1		
20:07	ZZZZZZ	1		
20:12	ZZZZZZ	1		
20:17	ZZZZZZ	1		
20:23	ZZZZZZ	1		
20:28	MA46419-CCV10	1		
20:33	MA46419-CCB11	1		
20:39	ZZZZZZ	1		
20:44	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:55	ZZZZZZ	1		
21:00	ZZZZZZ	1		
21:06	ZZZZZZ	1		
21:11	ZZZZZZ	1		
21:17	ZZZZZZ	1		
21:22	ZZZZZZ	1		
21:28	ZZZZZZ	1		
21:33	ZZZZZZ	1		
21:39	ZZZZZZ	1		
21:44	MA46419-CCV11	1		
21:49	MA46419-CCB12	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:55	ZZZZZZ	1		
22:00	ZZZZZZ	1		
22:05	ZZZZZZ	1		
22:11	ZZZZZZ	1		
22:16	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:32	ZZZZZZ	1		
22:38	ZZZZZZ	1		
22:43	ZZZZZZ	1		
22:48	MA46419-CCV12	1		
22:53	MA46419-CCB13	1		
22:59	ZZZZZZ	1		
23:04	ZZZZZZ	1		
23:10	JC85367-4F	1		
---------->	Last reportable sample/prep for job JC85367			
23:15	ZZZZZZ	1		
23:21	MP13672-SD1	5		
23:26	ZZZZZZ	2		
23:31	ZZZZZZ	2		
23:37	ZZZZZZ	2		
23:42	ZZZZZZ	2		
23:47	ZZZZZZ	2		
23:52	MA46419-CCV13	1		
23:57	MA46419-CCB14	1		
---------->	Last reportable CCB for job JC85367			
00:03	ZZZZZZ	2		
00:08	ZZZZZZ	5		
00:13	ZZZZZZ	2		
00:18	ZZZZZZ	2		
00:24	ZZZZZZ	2		
00:29	ZZZZZZ	2		
00:34	ZZZZZZ	2		
00:39	ZZZZZZ	5		
00:45	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:51	ZZZZZZ	5		
00:56	MA46419-CCV14	1		
01:01	MA46419-CCB15	1		
01:07	ZZZZZZ	5		
01:12	ZZZZZZ	5		
01:18	MP13782-B1	1		
01:23	MP13782-MB1	1		
01:28	MP13782-S1	1		needs post spike for Sb
01:33	MP13782-S2	1		
01:38	JC85111-20A	1		(sample used for QC only; not part of login JC85367)
01:43	MP13782-SD1	5		
01:49	ZZZZZZ	1		
01:54	ZZZZZZ	1		
01:59	MA46419-CCV15	1		
02:04	MA46419-CCB16	1		
02:10	ZZZZZZ	1		
02:15	ZZZZZZ	1		
02:20	ZZZZZZ	1		
02:25	ZZZZZZ	1		
02:30	ZZZZZZ	1		
02:36	ZZZZZZ	1		
02:41	ZZZZZZ	1		
02:46	ZZZZZZ	1		
02:51	ZZZZZZ	1		
02:56	ZZZZZZ	1		
03:02	MA46419-CCV16	1		
03:07	MA46419-CCB17	1		
03:12	ZZZZZZ	1		
03:18	ZZZZZZ	1		
03:23	ZZZZZZ	1		
03:28	ZZZZZZ	1		
03:33	ZZZZZZ	1		
03:39	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:44	ZZZZZZ	1		
03:49	MP13755-B1	1		high rsd
03:54	MP13755-MB1	1		
04:00	MA46419-CCV17	1		
04:05	MA46419-CCB18	1		
04:10	MP13755-S1	1		Mg high
04:15	MP13755-S2	1		Mg high
04:21	JC85432-1	1		(sample used for QC only; not part of login JC85367)
04:26	MP13755-SD1	5		Mg high
04:32	ZZZZZZ	1		
04:37	ZZZZZZ	1		
04:43	ZZZZZZ	1		
04:48	ZZZZZZ	1		
04:54	ZZZZZZ	1		
04:59	ZZZZZZ	1		
05:05	MA46419-CCV18	1		
05:10	MA46419-CCB19	1		
05:16	ZZZZZZ	1		
05:21	ZZZZZZ	1		
05:27	ZZZZZZ	1		
05:33	ZZZZZZ	1		
05:38	ZZZZZZ	1		
05:44	ZZZZZZ	1		
05:49	ZZZZZZ	1		
05:55	ZZZZZZ	1		
06:01	ZZZZZZ	1		
06:06	MA46419-CCV19	1		
06:11	MA46419-CCB20	1		
06:17	ZZZZZZ	1		
06:22	ZZZZZZ	1		
06:28	ZZZZZZ	1		
06:33	ZZZZZZ	5		
06:39	MA46419-CCV20	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:44	MA46419-CCB21	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Element: Dilution	Mn	
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:23	ZZZZZZ	1		
10:28	MA46419-ICV1	1	X	
10:33	MA46419-ICB1	1	X	
10:40	MA46419-ICCV1	1	X	
10:48	MA46419-CCB1	1	X	
10:52	MA46419-CRI1	1	X	
10:58	MA46419-CRID1	1	X	
11:03	MA46419-ICSA1	1	X	
11:08	MA46419-ICSAB1	1	X	
11:13	MA46419-HSTD1	1	X	
11:19	MA46419-HSTD2	1	X	
11:24	ZZZZZZ	1		
11:30	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:41	MA46419-CCV1	1	X	
11:46	MA46419-CCB2	1	X	
11:51	MP13671-MB1	1		
11:57	MP13671-MB2	1		
12:02	MP13671-B1	1		
12:07	MP13671-B2	1		
12:12	MP13671-S1	1		
12:17	MP13671-S2	1		
12:22	JC84498-93	1		(a)
12:27	MP13671-SD1	5		
12:33	ZZZZZZ	1		
12:38	MA46419-CCV2	1	X	
12:43	MA46419-CCB3	1	X	
12:49	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:05	ZZZZZZ	1		
		Element:	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Element: Dilution	Mn	
13:10	ZZZZZZ	1		
13:15	MP13765-MB1	1	X	
13:21	MP13765-B1	1	X	
13:26	ZZZZZZ	1		
13:31	MA46419-CCV3	1	X	
13:37	MA46419-CCB4	1	X	
13:42	MP13765-S1	1	X	
13:47	MP13765-S2	1	X	
13:52	JC85513-5F	1		(a)
13:57	MP13765-SD1	5	X	
14:03	MP13751-MB1	1		
14:08	MP13751-B1	1		
14:13	ZZZZZZ	2		
14:18	ZZZZZZ	2		
14:23	ZZZZZZ	2		
14:28	MA46419-CCV4	1	X	
14:41	MA46419-CCB5	1	X	
14:47	ZZZZZZ	10		
14:52	MP13751-PS1	1		
14:57	ZZZZZZ	2		
15:02	MP13751-S1	5	X	
15:07	MP13751-S2	5	X	
15:12	JC85273-1	5		(a)
15:18	MP13751-SD1	25	X	
15:23	ZZZZZZ	1		
15:29	ZZZZZZ	5		
15:34	MA46419-CCV5	1	X	
15:39	MA46419-CCB6	1	X	
15:44	ZZZZZZ	1		
15:53	ZZZZZZ	1		
15:59	ZZZZZZ	2		
16:04	ZZZZZZ	1		
16:09	ZZZZZZ	2		
		Element:	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Element: Dilution	Mn	
16:14	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:25	ZZZZZZ	1		
16:30	ZZZZZZ	2		
16:35	MA46419-CCV6	1	X	
16:40	MA46419-CCB7	1	X	
16:46	MA46419-ICSA2	1	X	
16:51	MA46419-ICSAB2	1	X	
16:56	ZZZZZZ	2		
17:01	ZZZZZZ	1		
17:06	ZZZZZZ	1		
17:12	MP13761-S1	1		
17:17	MP13761-S2	1		
17:22	JC85321-4	1		(a)
17:27	MP13761-SD1	5		
17:32	MA46419-CCV7	1	X	
17:37	MA46419-CCB8	1	X	
17:43	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:53	ZZZZZZ	1		
17:59	MP13693-B1	1		
18:04	MP13693-MB1	1		
18:09	MP13693-B2	1		
18:14	JC85075-1	1		(a)
18:19	MP13693-SD1	5		
18:25	ZZZZZZ	1		
18:30	MA46419-CCV8	1	X	
18:35	MA46419-CCB9	1	X	
18:41	ZZZZZZ	1		
18:46	ZZZZZZ	1		
18:52	ZZZZZZ	1		
18:57	ZZZZZZ	1		
19:02	ZZZZZZ	1		
		Element:	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Element: Dilution	Mn
19:08	ZZZZZZ	1	
19:13	ZZZZZZ	1	
19:19	ZZZZZZ	1	
19:24	ZZZZZZ	1	
19:29	MA46419-CCV9	1	X
19:34	MA46419-CCB10	1	X
19:40	ZZZZZZ	1	
19:45	ZZZZZZ	1	
19:51	ZZZZZZ	1	
19:56	ZZZZZZ	1	
20:01	ZZZZZZ	1	
20:07	ZZZZZZ	1	
20:12	ZZZZZZ	1	
20:17	ZZZZZZ	1	
20:23	ZZZZZZ	1	
20:28	MA46419-CCV10	1	X
20:33	MA46419-CCB11	1	X
20:39	ZZZZZZ	1	
20:44	ZZZZZZ	1	
20:49	ZZZZZZ	1	
20:55	ZZZZZZ	1	
21:00	ZZZZZZ	1	
21:06	ZZZZZZ	1	
21:11	ZZZZZZ	1	
21:17	ZZZZZZ	1	
21:22	ZZZZZZ	1	
21:28	ZZZZZZ	1	
21:33	ZZZZZZ	1	
21:39	ZZZZZZ	1	
21:44	MA46419-CCV11	1	X
21:49	MA46419-CCB12	1	X
21:55	ZZZZZZ	1	
22:00	ZZZZZZ	1	
		Element:	Mn

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Element: Dilution	Mn
22:05	ZZZZZZ	1	
22:11	ZZZZZZ	1	
22:16	ZZZZZZ	1	
22:22	ZZZZZZ	1	
22:27	ZZZZZZ	1	
22:32	ZZZZZZ	1	
22:38	ZZZZZZ	1	
22:43	ZZZZZZ	1	
22:48	MA46419-CCV12	1	X
22:53	MA46419-CCB13	1	X
22:59	ZZZZZZ	1	
23:04	ZZZZZZ	1	
23:10	JC85367-4F	1	X
23:15	ZZZZZZ	1	
23:21	MP13672-SD1	5	
23:26	ZZZZZZ	2	
23:31	ZZZZZZ	2	
23:37	ZZZZZZ	2	
23:42	ZZZZZZ	2	
23:47	ZZZZZZ	2	
23:52	MA46419-CCV13	1	X
23:57	MA46419-CCB14	1	X
00:03	ZZZZZZ	2	
00:08	ZZZZZZ	5	
00:13	ZZZZZZ	2	
00:18	ZZZZZZ	2	
00:24	ZZZZZZ	2	
00:29	ZZZZZZ	2	
00:34	ZZZZZZ	2	
00:39	ZZZZZZ	5	
00:45	ZZZZZZ	5	
00:51	ZZZZZZ	5	
00:56	MA46419-CCV14	1	X
		Element:	Mn

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Element: Dilution	Mn	
01:01	MA46419-CCB15	1	X	
01:07	ZZZZZZ	5		
01:12	ZZZZZZ	5		
01:18	MP13782-B1	1		
01:23	MP13782-MB1	1		
01:28	MP13782-S1	1		
01:33	MP13782-S2	1		
01:38	JC85111-20A	1		(a)
01:43	MP13782-SD1	5		
01:49	ZZZZZZ	1		
01:54	ZZZZZZ	1		
01:59	MA46419-CCV15	1	X	
02:04	MA46419-CCB16	1	X	
02:10	ZZZZZZ	1		
02:15	ZZZZZZ	1		
02:20	ZZZZZZ	1		
02:25	ZZZZZZ	1		
02:30	ZZZZZZ	1		
02:36	ZZZZZZ	1		
02:41	ZZZZZZ	1		
02:46	ZZZZZZ	1		
02:51	ZZZZZZ	1		
02:56	ZZZZZZ	1		
03:02	MA46419-CCV16	1	X	
03:07	MA46419-CCB17	1	X	
03:12	ZZZZZZ	1		
03:18	ZZZZZZ	1		
03:23	ZZZZZZ	1		
03:28	ZZZZZZ	1		
03:33	ZZZZZZ	1		
03:39	ZZZZZZ	1		
03:44	ZZZZZZ	1		
03:49	MP13755-B1	1		
		Element:	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Element: Dilution	M n	
03:54	MP13755-MB1	1		
04:00	MA46419-CCV17	1	X	
04:05	MA46419-CCB18	1	X	
04:10	MP13755-S1	1		
04:15	MP13755-S2	1		
04:21	JC85432-1	1		(a)
04:26	MP13755-SD1	5		
04:32	ZZZZZZ	1		
04:37	ZZZZZZ	1		
04:43	ZZZZZZ	1		
04:48	ZZZZZZ	1		
04:54	ZZZZZZ	1		
04:59	ZZZZZZ	1		
05:05	MA46419-CCV18	1	X	
05:10	MA46419-CCB19	1	X	
05:16	ZZZZZZ	1		
05:21	ZZZZZZ	1		
05:27	ZZZZZZ	1		
05:33	ZZZZZZ	1		
05:38	ZZZZZZ	1		
05:44	ZZZZZZ	1		
05:49	ZZZZZZ	1		
05:55	ZZZZZZ	1		
06:01	ZZZZZZ	1		
06:06	MA46419-CCV19	1	X	
06:11	MA46419-CCB20	1	X	
06:17	ZZZZZZ	1		
06:22	ZZZZZZ	1		
06:28	ZZZZZZ	1		
06:33	ZZZZZZ	5		
06:39	MA46419-CCV20	1	X	
06:44	MA46419-CCB21	1	X	

(a) Sample used for QC only; not part of login JC85367.

Element: M
n

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:02	MA46419-STD1	4424 R	108780 R	10780 R	9738 R
10:07	MA46419-STD2	4162	101170	10171	8391
10:12	ZZZZZZ	4256	103550	10201	8688
10:17	ZZZZZZ	4422	109350	10317	9736
10:23	ZZZZZZ	4396	110690	10363	9692
10:28	MA46419-ICV1	4266	103820	10297	8722
10:33	MA46419-ICB1	4417	109240	10349	9730
10:40	MA46419-ICCV1	4292	103780	10327	8760
10:48	MA46419-CCB1	4399	109480	10401	9690
10:52	MA46419-CRI1	4317	109700	10230	9382
10:58	MA46419-CRID1	4388	109070	10271	9633
11:03	MA46419-ICSA1	3920	95095	9920	7621
11:08	MA46419-ICSAB1	3919	94942	9894	7626
11:13	MA46419-HSTD1	4335	106410	10389	9395
11:19	MA46419-HSTD2	3929	96003	9799	7648
11:24	ZZZZZZ	4325	107710	9961	9537
11:30	ZZZZZZ	4325	108680	10221	9671
11:35	ZZZZZZ	4399	110000	10309	9658
11:41	MA46419-CCV1	4256	103960	10113	8685
11:46	MA46419-CCB2	4431	109760	10241	9743
11:51	MP13671-MB1	4418	110250	10504	9732
11:57	MP13671-MB2	4394	110920	10572	9674
12:02	MP13671-B1	4293	106490	10416	8899
12:07	MP13671-B2	4330	105590	10395	8978
12:12	MP13671-S1	4062	101390	10175	8269
12:17	MP13671-S2	4057	102340	10299	8253
12:22	JC84498-93	4079	102620	10241	8485
12:27	MP13671-SD1	4308	107080	10320	9245
12:33	ZZZZZZ	4204	104710	10329	8740
12:38	MA46419-CCV2	4291	104770	10135	8736
12:43	MA46419-CCB3	4415	110410	10277	9701
12:49	ZZZZZZ	4285	107220	10332	9106
12:54	ZZZZZZ	4250	107520	10432	8973

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:59	ZZZZZZ	4244	106790	10423	9029
13:05	ZZZZZZ	4055	102190	10201	8365
13:10	ZZZZZZ	4181	104570	10292	8739
13:15	MP13765-MB1	4426	111420	10492	9743
13:21	MP13765-B1	4325	107090	10399	8970
13:26	ZZZZZZ	4403	111170	10535	9699
13:31	MA46419-CCV3	4270	104710	10215	8699
13:37	MA46419-CCB4	4423	110660	10372	9723
13:42	MP13765-S1	4253	105550	10497	8696
13:47	MP13765-S2	4238	105540	10372	8675
13:52	JC85513-5F	4285	107620	10471	9069
13:57	MP13765-SD1	4393	108850	10404	9548
14:03	MP13751-MB1	4459	112050	10551	9822
14:08	MP13751-B1	4340	107370	10496	9017
14:13	ZZZZZZ	4681	115450	11356	9159
14:18	ZZZZZZ	4643	114500	11265	9135
14:23	ZZZZZZ	4850	118060	11223	9498
14:28	MA46419-CCV4	4284	105280	10296	8733
14:41	MA46419-CCB5	4449	111000	10420	9794
14:47	ZZZZZZ	4575	112490	10616	9731
14:52	MP13751-PS1	5030	125260	12530	9120
14:57	ZZZZZZ	4887	119770	11591	9645
15:02	MP13751-S1	4566	112810	10717	9369
15:07	MP13751-S2	4544	112350	10828	9356
15:12	JC85273-1	4602	114500	10924	9573
15:18	MP13751-SD1	4466	111200	10571	9700
15:23	ZZZZZZ	4152	103400	10996	7853
15:29	ZZZZZZ	4304	107100	10420	8787
15:34	MA46419-CCV5	4272	105240	10325	8722
15:39	MA46419-CCB6	4433	111620	10420	9759
15:44	ZZZZZZ	4461	110220	11113	8568
15:53	ZZZZZZ	4324	108160	10881	8624
15:59	ZZZZZZ	4289	108430	10402	8811

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:04	ZZZZZZ	4531	110730	10994	9141
16:09	ZZZZZZ	4471	110490	10628	9303
16:14	ZZZZZZ	4472	110730	10875	9249
16:19	ZZZZZZ	4490	111300	10951	9209
16:25	ZZZZZZ	4436	109350	10828	9131
16:30	ZZZZZZ	4374	109640	10527	9517
16:35	MA46419-CCV6	4255	105330	10280	8696
16:40	MA46419-CCB7	4429	110740	10356	9766
16:46	MA46419-ICSA2	3955	96892	10027	7681
16:51	MA46419-ICSAB2	3962	97129	9954	7687
16:56	ZZZZZZ	4372	109360	10684	8991
17:01	ZZZZZZ	4306	107740	10406	8960
17:06	ZZZZZZ	4444	112800	10590	9802
17:12	MP13761-S1	4448	109390	10896	8818
17:17	MP13761-S2	4434	110410	10893	8779
17:22	JC85321-4	4550	111910	10872	9246
17:27	MP13761-SD1	4499	112040	10526	9599
17:32	MA46419-CCV7	4302	106140	10381	8787
17:37	MA46419-CCB8	4461	111780	10444	9829
17:43	ZZZZZZ	4535	110890	10887	9232
17:48	ZZZZZZ	4547	112060	10941	9299
17:53	ZZZZZZ	4541	112010	10835	9315
17:59	MP13693-B1	4359	108320	10484	9084
18:04	MP13693-MB1	4480	113130	10711	9905
18:09	MP13693-B2	4380	108540	10603	9142
18:14	JC85075-1	4447	113270	10744	9845
18:19	MP13693-SD1	4481	112770	10575	9859
18:25	ZZZZZZ	4453	113050	10695	9824
18:30	MA46419-CCV8	4342	107240	10331	8867
18:35	MA46419-CCB9	4483	112480	10483	9877
18:41	ZZZZZZ	4467	113330	10709	9867
18:46	ZZZZZZ	4457	112680	10750	9818
18:52	ZZZZZZ	4467	113310	10610	9876

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:57	ZZZZZZ	4458	113080	10614	9857
19:02	ZZZZZZ	4465	112900	10572	9821
19:08	ZZZZZZ	4476	113210	10584	9868
19:13	ZZZZZZ	4466	113450	10568	9819
19:19	ZZZZZZ	4478	113130	10561	9855
19:24	ZZZZZZ	4470	112600	10532	9727
19:29	MA46419-CCV9	4359	106880	10256	8870
19:34	MA46419-CCB10	4499	112700	10346	9882
19:40	ZZZZZZ	4485	114280	10699	9868
19:45	ZZZZZZ	4488	114300	10575	9874
19:51	ZZZZZZ	4504	113280	10444	9817
19:56	ZZZZZZ	4495	113280	10473	9825
20:01	ZZZZZZ	4523	113260	10562	9689
20:07	ZZZZZZ	4533	112200	10468	9628
20:12	ZZZZZZ	4442	109790	10413	9234
20:17	ZZZZZZ	4491	112010	10524	9518
20:23	ZZZZZZ	4435	109740	10352	9414
20:28	MA46419-CCV10	4384	107580	10365	8927
20:33	MA46419-CCB11	4543	112880	10299	9973
20:39	ZZZZZZ	4536	112580	10375	9925
20:44	ZZZZZZ	4537	113780	10384	10000
20:49	ZZZZZZ	4569	113520	10309	9999
20:55	ZZZZZZ	4554	113350	10320	9978
21:00	ZZZZZZ	4549	112400	10364	9983
21:06	ZZZZZZ	4520	112470	10382	9892
21:11	ZZZZZZ	4575	113090	10338	10072
21:17	ZZZZZZ	4547	113030	10342	10035
21:22	ZZZZZZ	4706	105890	10612	8917
21:28	ZZZZZZ	4165	103880	10220	8597
21:33	ZZZZZZ	4169	102650	9862	8563
21:39	ZZZZZZ	4548	113110	10317	9991
21:44	MA46419-CCV11	4410	106920	10133	8984
21:49	MA46419-CCB12	4549	113160	10262	10002

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:55	ZZZZZZ	4444	109640	10343	9458
22:00	ZZZZZZ	4428	110190	10318	9422
22:05	ZZZZZZ	4411	109470	10333	9342
22:11	ZZZZZZ	4555	113520	10389	10019
22:16	ZZZZZZ	3812	94060	9868	7378
22:22	ZZZZZZ	3622	89032	9586	6981
22:27	ZZZZZZ	4186	103370	9963	8485
22:32	ZZZZZZ	4221	105160	10145	8602
22:38	ZZZZZZ	4568	113300	10253	10053
22:43	ZZZZZZ	4267	104930	10093	8702
22:48	MA46419-CCV12	4429	107530	10225	9045
22:53	MA46419-CCB13	4585	113220	10214	10078
22:59	ZZZZZZ	4567	114010	10289	10055
23:04	ZZZZZZ	4501	110850	10258	9649
23:10	JC85367-4F	4357	107790	10199	9194
23:15	ZZZZZZ	4555	113550	10339	10043
23:21	MP13672-SD1	4538	111580	10169	9834
23:26	ZZZZZZ	4760	115050	10534	9598
23:31	ZZZZZZ	4749	114870	10657	9549
23:37	ZZZZZZ	4846	117310	10918	9524
23:42	ZZZZZZ	4803	116460	10765	9531
23:47	ZZZZZZ	4693	113790	10657	9519
23:52	MA46419-CCV13	4437	107330	10038	9059
23:57	MA46419-CCB14	4607	113680	10138	10133
00:03	ZZZZZZ	4694	112950	10450	9577
00:08	ZZZZZZ	4970	121390	11096	9677
00:13	ZZZZZZ	4837	117230	10882	9543
00:18	ZZZZZZ	4612	111550	10318	9574
00:24	ZZZZZZ	4553	111860	10359	9427
00:29	ZZZZZZ	4787	118770	10725	9483
00:34	ZZZZZZ	4716	114200	10575	9549
00:39	ZZZZZZ	4345	105960	10039	8882
00:45	ZZZZZZ	4330	105630	10094	8831

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:51	ZZZZZZ	4218	103840	9997	8542
00:56	MA46419-CCV14	4467	108030	10032	9109
01:01	MA46419-CCB15	4615	114010	10125	10138
01:07	ZZZZZZ	4285	105290	10022	8683
01:12	ZZZZZZ	4341	105540	10053	8820
01:18	MP13782-B1	4507	110040	10243	9369
01:23	MP13782-MB1	4613	114690	10275	10165
01:28	MP13782-S1	4273	104320	10004	8372
01:33	MP13782-S2	4299	104460	10043	8380
01:38	JC85111-20A	4411	108190	10336	8624
01:43	MP13782-SD1	4546	111980	10238	9465
01:49	ZZZZZZ	4590	113530	10833	9208
01:54	ZZZZZZ	4647	113140	10583	9289
01:59	MA46419-CCV15	4564	107050	9977	9299
02:04	MA46419-CCB16	4617	114020	10127	10142
02:10	ZZZZZZ	4587	113240	10520	9247
02:15	ZZZZZZ	4488	110360	10587	8969
02:20	ZZZZZZ	4579	113230	10448	9347
02:25	ZZZZZZ	4582	113670	10429	9692
02:30	ZZZZZZ	4558	111610	10553	9188
02:36	ZZZZZZ	4669	113560	10687	9436
02:41	ZZZZZZ	4587	112610	10507	9146
02:46	ZZZZZZ	4739	116510	10400	9519
02:51	ZZZZZZ	4715	115400	10245	9625
02:56	ZZZZZZ	4917	116840	11139	9735
03:02	MA46419-CCV16	4483	110660	10011	9135
03:07	MA46419-CCB17	4623	114800	10102	10167
03:12	ZZZZZZ	4399	108540	10303	8493
03:18	ZZZZZZ	4731	116650	10705	9401
03:23	ZZZZZZ	4656	114260	10836	9463
03:28	ZZZZZZ	4656	113030	10592	9658
03:33	ZZZZZZ	4319	106860	10058	8377
03:39	ZZZZZZ	4654	114950	10221	9881

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:44	ZZZZZZ	4613	112310	10564	9432
03:49	MP13755-B1	4465	110220	9924	9297
03:54	MP13755-MB1	4615	114620	10133	10143
04:00	MA46419-CCV17	4535	108320	9968	9232
04:05	MA46419-CCB18	4614	113710	10043	10139
04:10	MP13755-S1	3597	88251	9326	6832
04:15	MP13755-S2	3621	88751	9265	6873
04:21	JC85432-1	3589	87203	9268	6854
04:26	MP13755-SD1	4136	101070	9692	8233
04:32	ZZZZZZ	4391	108320	9951	9184
04:37	ZZZZZZ	4268	103670	9722	8491
04:43	ZZZZZZ	4068	100430	9807	8023
04:48	ZZZZZZ	3959	95277	9548	7598
04:54	ZZZZZZ	4394	108900	9933	9184
04:59	ZZZZZZ	4198	103440	9787	8423
05:05	MA46419-CCV18	4470	107510	9738	9133
05:10	MA46419-CCB19	4606	113820	9893	10143
05:16	ZZZZZZ	4102	99764	9618	8081
05:21	ZZZZZZ	3976	96821	9494	7617
05:27	ZZZZZZ	4392	108600	9850	9176
05:33	ZZZZZZ	4247	104490	9723	8586
05:38	ZZZZZZ	4148	101750	9611	8189
05:44	ZZZZZZ	4023	99609	9553	7723
05:49	ZZZZZZ	4175	101970	9682	8341
05:55	ZZZZZZ	4016	96972	9530	7860
06:01	ZZZZZZ	3834	94026	9486	7365
06:06	MA46419-CCV19	4474	108360	9704	9135
06:11	MA46419-CCB20	4606	114680	9797	10137
06:17	ZZZZZZ	3641	88961	9107	6968
06:22	ZZZZZZ	4613	114920	9757	10143
06:28	ZZZZZZ	4608	114160	9746	10133
06:33	ZZZZZZ	4388	106430	9594	8979
06:39	MA46419-CCV20	4491	107160	9688	9157

INTERNAL STANDARD SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA46419
Parameters: Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:44	MA46419-CCB21	4650	114540	9684	10211

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time:			10:33		10:48		11:46		12:43	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	13	anr							
Antimony	6.0	1.1	anr							
Arsenic	3.0	1.2	anr							
Barium	200	.2	anr							
Beryllium	1.0	.1	anr							
Bismuth	20	1.8								
Boron	100	1.2								
Cadmium	3.0	.2	anr							
Calcium	5000	3.7	anr							
Chromium	10	.4	anr							
Cobalt	50	.3	anr							
Copper	10	1	anr							
Iron	100	2.4	anr							
Lead	3.0	1.5	anr							
Lithium	50	1.5								
Magnesium	5000	17	anr							
Manganese	15	.1	0.200	<15	0.500	<15	0.700	<15	0.400	<15
Molybdenum	20	.3	anr							
Nickel	10	.3	anr							
Phosphorus	50	2								
Potassium	10000	40	anr							
Selenium	10	1.8	anr							
Silicon	200	.9								
Silver	10	.5	anr							
Sodium	10000	13	anr							
Strontium	10	.2								
Sulfur	50	3.5								
Thallium	10	1.6	anr							
Tin	10	.6								
Titanium	10	.6								
Tungsten	50	1.1								
Vanadium	50	.4	anr							
Zinc	20	.2	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time:			10:33		10:48		11:46		12:43	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time:			13:37		14:41		15:39		16:40	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	13	anr							
Antimony	6.0	1.1	anr							
Arsenic	3.0	1.2	anr							
Barium	200	.2	anr							
Beryllium	1.0	.1	anr							
Bismuth	20	1.8								
Boron	100	1.2								
Cadmium	3.0	.2	anr							
Calcium	5000	3.7	anr							
Chromium	10	.4	anr							
Cobalt	50	.3	anr							
Copper	10	1	anr							
Iron	100	2.4	anr							
Lead	3.0	1.5	anr							
Lithium	50	1.5								
Magnesium	5000	17	anr							
Manganese	15	.1	0.700	<15	0.900	<15	1.20	<15	0.200	<15
Molybdenum	20	.3	anr							
Nickel	10	.3	anr							
Phosphorus	50	2								
Potassium	10000	40	anr							
Selenium	10	1.8	anr							
Silicon	200	.9								
Silver	10	.5	anr							
Sodium	10000	13	anr							
Strontium	10	.2								
Sulfur	50	3.5								
Thallium	10	1.6	anr							
Tin	10	.6								
Titanium	10	.6								
Tungsten	50	1.1								
Vanadium	50	.4	anr							
Zinc	20	.2	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time: / Sample ID:			13:37 CCB4		14:41 CCB5		15:39 CCB6		16:40 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time:			17:37		18:35		19:34		20:33	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	13	anr							
Antimony	6.0	1.1	anr							
Arsenic	3.0	1.2	anr							
Barium	200	.2	anr							
Beryllium	1.0	.1	anr							
Bismuth	20	1.8								
Boron	100	1.2								
Cadmium	3.0	.2	anr							
Calcium	5000	3.7	anr							
Chromium	10	.4	anr							
Cobalt	50	.3	anr							
Copper	10	1	anr							
Iron	100	2.4	anr							
Lead	3.0	1.5	anr							
Lithium	50	1.5								
Magnesium	5000	17	anr							
Manganese	15	.1	1.50	<15	0.00	<15	0.00	<15	0.100	<15
Molybdenum	20	.3	anr							
Nickel	10	.3	anr							
Phosphorus	50	2								
Potassium	10000	40	anr							
Selenium	10	1.8	anr							
Silicon	200	.9								
Silver	10	.5	anr							
Sodium	10000	13	anr							
Strontium	10	.2								
Sulfur	50	3.5								
Thallium	10	1.6	anr							
Tin	10	.6								
Titanium	10	.6								
Tungsten	50	1.1								
Vanadium	50	.4	anr							
Zinc	20	.2	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time:			17:37		18:35		19:34		20:33	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time:			21:49		22:53		23:57	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	13	anr					
Antimony	6.0	1.1	anr					
Arsenic	3.0	1.2	anr					
Barium	200	.2	anr					
Beryllium	1.0	.1	anr					
Bismuth	20	1.8						
Boron	100	1.2						
Cadmium	3.0	.2	anr					
Calcium	5000	3.7	anr					
Chromium	10	.4	anr					
Cobalt	50	.3	anr					
Copper	10	1	anr					
Iron	100	2.4	anr					
Lead	3.0	1.5	anr					
Lithium	50	1.5						
Magnesium	5000	17	anr					
Manganese	15	.1	0.300	<15	0.200	<15	0.400	<15
Molybdenum	20	.3	anr					
Nickel	10	.3	anr					
Phosphorus	50	2						
Potassium	10000	40	anr					
Selenium	10	1.8	anr					
Silicon	200	.9						
Silver	10	.5	anr					
Sodium	10000	13	anr					
Strontium	10	.2						
Sulfur	50	3.5						
Thallium	10	1.6	anr					
Tin	10	.6						
Titanium	10	.6						
Tungsten	50	1.1						
Vanadium	50	.4	anr					
Zinc	20	.2	anr					

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA46419 Units: ug/l

Time:			21:49		22:53		23:57	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zirconium	10	.2						

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA46419 Units: ug/l

Time:		10:40	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Bismuth			
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Lithium			
Magnesium	anr		
Manganese	2000	2030	101.5
Molybdenum	anr		
Nickel	anr		
Phosphorus			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Strontium			
Sulfur			
Thallium	anr		
Tin			
Titanium			
Tungsten			
Vanadium	anr		
Zinc	anr		

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA46419 Units: ug/l

Time:		10:40	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		10:28			11:41			12:38	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	2000	1990	99.5	2000	2020	101.0	2000	2000	100.0
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		10:28			11:41			12:38	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		13:31			14:28			15:34	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		13:31			14:28			15:34	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		16:35			17:32			18:30	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	2000	2000	100.0	2000	1990	99.5	2000	1960	98.0
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		16:35			17:32			18:30	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		19:29			20:28			21:44	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	2000	1960	98.0	2000	1980	99.0	2000	1970	98.5
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		19:29			20:28			21:44	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		22:48			23:52	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	anr					
Lithium						
Magnesium	anr					
Manganese	2000	1980	99.0	2000	1980	99.0
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium	anr					
Selenium	anr					
Silicon						
Silver	anr					
Sodium	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA46419 Units: ug/l

Time:		22:48			23:52	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA46419 Units: ug/l

Time:		11:13			11:19	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	anr					
Lithium						
Magnesium						
Manganese	8000	7980	99.8			
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

HIGH STANDARD CHECK SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA46419 Units: ug/l

Time:		11:13			11:19	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA46419 Units: ug/l

Time:				10:52		10:58	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0	anr			
Arsenic	8.0	20	3.0	anr			
Barium	200		4.0	anr			
Beryllium	2.0		1.0	anr			
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	anr			
Calcium	5000	2000	1000	anr			
Chromium	10		2.0	anr			
Cobalt	50		3.0	anr			
Copper	10		2.0	anr			
Iron	100	500		anr			
Lead	3.0	20	2.5	anr			
Lithium	50						
Magnesium	5000	2000	100	anr			
Manganese	15		3.0	15.8	105.3	3.10	103.3
Molybdenum	20			anr			
Nickel	10		4.0	anr			
Phosphorus	50						
Potassium	5000		2000	anr			
Selenium	10	20	5.0	anr			
Silicon	200						
Silver	5.0		2.0	anr			
Sodium	5000		1000	anr			
Strontium	10						
Sulfur	50						
Thallium	10		2.0	anr			
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	anr			
Zinc	20		10	anr			

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA46419 Units: ug/l

Time:				10:52		10:58	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA46419 Units: ug/l

Time:			11:03		11:08		16:46		16:51	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	515000	103.0	519000	103.8	503000	100.6	507000	101.4
Antimony		1000	2.70		1080	108.0	2.90		1060	106.0
Arsenic		1000	1.20		1080	108.0	-0.600		1060	106.0
Barium		500	-0.400		511	102.2	-0.300		503	100.6
Beryllium		500	0.200		499	99.8	0.300		485	97.0
Bismuth		500	9.60		499	99.8	8.50		493	98.6
Boron		500	-4.70		486	97.2	-7.30		477	95.4
Cadmium		1000	-0.600		1030	103.0	-0.400		1010	101.0
Calcium	400000	400000	398000	99.5	393000	98.3	388000	97.0	383000	95.8
Chromium		500	-0.200		490	98.0	0.500		475	95.0
Cobalt		500	-1.30		490	98.0	-0.900		482	96.4
Copper		500	3.00		506	101.2	3.30		497	99.4
Iron	200000	200000	198000	99.0	192000	96.0	192000	96.0	185000	92.5
Lead		1000	-0.200		975	97.5	1.60		959	95.9
Lithium		500	-11.3		526	105.2	-11.6		507	101.4
Magnesium	500000	500000	507000	101.4	510000	102.0	491000	98.2	492000	98.4
Manganese		500	-2.10		499	99.8	-2.20		485	97.0
Molybdenum		500	-1.50		491	98.2	-1.20		482	96.4
Nickel		1000	0.00		986	98.6	0.600		964	96.4
Phosphorus		500	0.600		513	102.6	2.40		511	102.2
Potassium			-415		-465		-410		-444	
Selenium		1000	-2.60		1060	106.0	-3.60		1040	104.0
Silicon		500	-10.6		530	106.0	-10.0		522	104.4
Silver		1000	-1.90		1040	104.0	-2.90		1020	102.0
Sodium			1.80		12.2		-6.90		10.1	
Strontium		500	-3.30		565	113.0	-3.10		553	110.6
Sulfur		500	-1.20		480	96.0	-4.10		477	95.4
Thallium		1000	0.500		999	99.9	-1.10		987	98.7
Tin		500	-1.80		464	92.8	-1.70		454	90.8
Titanium		500	-1.10		495	99.0	-1.10		483	96.6
Tungsten		500	10.1		483	96.6	12.1		472	94.4
Vanadium		500	1.10		495	99.0	1.40		481	96.2
Zinc		1000	-1.90		953	95.3	-1.90		927	92.7

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

File ID: SE040319M1.ICP Date Analyzed: 04/03/19 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA46419 Units: ug/l

Time:			11:03		11:08		16:46		16:51	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	-1.80		520	104.0	-2.00		509	101.8

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/02/19

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	46	-3.3	<200
Antimony	6.0	1.3	4.7	1.5	<6.0
Arsenic	3.0	1.5	2.8	-1.2	<3.0
Barium	200	.3	13	0.30	<200
Beryllium	1.0	.1	.5	-0.10	<1.0
Bismuth	20	3.3	4		
Boron	100	.8	63		
Cadmium	3.0	.1	1	-0.10	<3.0
Calcium	5000	2.3	99	5.1	<5000
Chromium	10	.5	2	-0.10	<10
Cobalt	50	.4	2.6	0.10	<50
Copper	10	.8	5.9	-0.10	<10
Iron	100	4.4	32	-0.30	<100
Lead	3.0	1.1	1.8	0.40	<3.0
Lithium	50	4.4	7.3		
Magnesium	5000	14	140	15.8	<5000
Manganese	15	.1	1.4	0.0	<15
Molybdenum	20	.7	3.6		
Nickel	10	.3	1.7	0.0	<10
Phosphorus	50	2.4	18		
Potassium	10000	140	200	64.7	<10000
Selenium	10	1.8	4.9	-1.1	<10
Silicon	200	2.2	100		
Silver	10	.5	1.9	-1.3	<10
Sodium	10000	34	570	585	<10000
Strontium	10	.1	1		
Sulfur	50	9.8	45		
Thallium	10	1.3	1.8	-0.20	<10
Tin	10	.9	3.7		
Titanium	10	.3	2.5		
Tungsten	50	3.9	40		
Vanadium	50	.3	1.8	-0.10	<50
Zinc	20	1.3	6.9	1.7	<20

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.2	4.1		

Associated samples MP13758: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	0.00	25100	25000	100.4	75-125
Antimony	1.8	2020	2000	100.9	75-125
Arsenic	0.0	1920	2000	96.0	75-125
Barium	159	2220	2000	103.1	75-125
Beryllium	0.0	1920	2000	96.0	75-125
Bismuth					
Boron					
Cadmium	0.10	1960	2000	98.0	75-125
Calcium	106000	128000	25000	88.0	75-125
Chromium	0.0	1940	2000	97.0	75-125
Cobalt	0.0	1920	2000	96.0	75-125
Copper	0.0	1900	2000	95.0	75-125
Iron	621	23300	25000	90.7	75-125
Lead	0.0	1910	2000	95.5	75-125
Lithium					
Magnesium	43200	67600	25000	97.6	75-125
Manganese	1190	3070	2000	94.0	75-125
Molybdenum					
Nickel	0.50	1980	2000	99.0	75-125
Phosphorus					
Potassium	8700	34100	25000	101.6	75-125
Selenium	0.0	1890	2000	94.5	75-125
Silicon					
Silver	0.0	243	250	97.2	75-125
Sodium	14300	39600	25000	101.2	75-125
Strontium					
Sulfur					
Thallium	0.0	1990	2000	99.5	75-125
Tin					
Titanium					
Tungsten					
Vanadium	2.0	1940	2000	96.9	75-125
Zinc	0.0	1900	2000	95.0	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP13758: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	0.00	24700	25000	98.8	1.6	20
Antimony	1.8	1980	2000	98.9	2.0	20
Arsenic	0.0	1870	2000	93.5	2.6	20
Barium	159	2200	2000	102.1	0.9	20
Beryllium	0.0	1910	2000	95.5	0.5	20
Bismuth						
Boron						
Cadmium	0.10	1950	2000	97.5	0.5	20
Calcium	106000	124000	25000	72.0 (a)	3.2	20
Chromium	0.0	1940	2000	97.0	0.0	20
Cobalt	0.0	1910	2000	95.5	0.5	20
Copper	0.0	1880	2000	94.0	1.1	20
Iron	621	21800	25000	84.7	6.7	20
Lead	0.0	1990	2000	99.5	4.1	20
Lithium						
Magnesium	43200	63300	25000	80.4	6.6	20
Manganese	1190	3010	2000	91.0	2.0	20
Molybdenum						
Nickel	0.50	1970	2000	98.5	0.5	20
Phosphorus						
Potassium	8700	35000	25000	105.2	2.6	20
Selenium	0.0	1870	2000	93.5	1.1	20
Silicon						
Silver	0.0	250	250	100.0	2.8	20
Sodium	14300	40300	25000	104.0	1.8	20
Strontium						
Sulfur						
Thallium	0.0	1970	2000	98.5	1.0	20
Tin						
Titanium						
Tungsten						
Vanadium	2.0	1930	2000	96.4	0.5	20
Zinc	0.0	1890	2000	94.5	0.5	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP13758: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/02/19

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	24700	25000	98.8	80-120
Antimony	1980	2000	99.0	80-120
Arsenic	1890	2000	94.5	80-120
Barium	2020	2000	101.0	80-120
Beryllium	1880	2000	94.0	80-120
Bismuth				
Boron				
Cadmium	1920	2000	96.0	80-120
Calcium	23900	25000	95.6	80-120
Chromium	1940	2000	97.0	80-120
Cobalt	1900	2000	95.0	80-120
Copper	1860	2000	93.0	80-120
Iron	22700	25000	90.8	80-120
Lead	1900	2000	95.0	80-120
Lithium				
Magnesium	23000	25000	92.0	80-120
Manganese	1970	2000	98.5	80-120
Molybdenum				
Nickel	1960	2000	98.0	80-120
Phosphorus				
Potassium	25100	25000	100.4	80-120
Selenium	1860	2000	93.0	80-120
Silicon				
Silver	238	250	95.2	80-120
Sodium	25300	25000	101.2	80-120
Strontium				
Sulfur				
Thallium	1990	2000	99.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	1920	2000	96.0	80-120
Zinc	1930	2000	96.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP13758: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	1.80	0.00	100.0(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	159	164	3.3	0-10
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	0.100	0.00	100.0(a)	0-10
Calcium	106000	109000	3.0	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	0.00	0.00	NC	0-10
Copper	0.00	0.00	NC	0-10
Iron	621	702	13.0*(b)	0-10
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	43200	44700	3.4	0-10
Manganese	1190	1230	3.9	0-10
Molybdenum				
Nickel	0.500	0.00	100.0(a)	0-10
Phosphorus				
Potassium	8700	8860	1.9	0-10
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	14300	15200	5.9	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	2.00	2.30	15.0 (a)	0-10
Zinc	0.00	0.00	NC	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13758 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP13758: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13777 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.035	.095	-0.075	<0.20

Associated samples MP13777: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13777 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	1.8	2	90.0	75-125

Associated samples MP13777: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13777 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/02/19

Metal	JC85367-1F Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	1.9	2	95.0	5.4	20

Associated samples MP13777: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

QC Batch ID: MP13777
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 04/02/19

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	1.9	2	95.0	80-120

Associated samples MP13777: JC85367-1F, JC85367-2F, JC85367-3F, JC85367-4F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Instrument Detection Limits

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Instrument ID: LEEMANHG7 **Effective Date:** 02/18/19

Analyte	IDL ug/l
Mercury	.0349

The above applies to the following instrument runs:
MA46407

Instrument Detection Limits

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Instrument ID: SSTRACE4 **Effective Date:** 01/16/19

Analyte	IDL ug/l
Aluminum	13.7
Antimony	1.3
Arsenic	1.5
Barium	.3
Beryllium	.1
Bismuth	3.3
Boron	.8
Cadmium	.1
Calcium	2.3
Chromium	.5
Cobalt	.4
Copper	.8
Iron	4.4
Lead	1.1
Lithium	4.4
Magnesium	13.6
Manganese	.1
Molybdenum	.7
Nickel	.3
Phosphorus	2.4
Potassium	135.6
Selenium	1.8
Silicon	2.2
Silver	.5
Sodium	33.9
Sulfur	9.8
Strontium	.1
Thallium	1.3
Tin	.9
Titanium	.3
Tungsten	3.9
Vanadium	.3
Zinc	1.3
Zirconium	.2

The above applies to the following instrument runs:
MA46414

Instrument Detection Limits

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Instrument ID: SSTRACE5 **Effective Date:** 01/16/19

Analyte	IDL ug/l
Aluminum	13.3
Antimony	1.1
Arsenic	1.2
Barium	.2
Beryllium	.1
Bismuth	1.8
Boron	1.2
Cadmium	.2
Calcium	3.7
Chromium	.4
Cobalt	.3
Copper	1
Iron	2.4
Lead	1.5
Lithium	1.5
Magnesium	17
Manganese	.1
Molybdenum	.3
Nickel	.3
Phosphorus	2
Potassium	39.9
Selenium	1.8
Silicon	.9
Silver	.5
Sodium	13
Sulfur	3.5
Strontium	.2
Thallium	1.6
Tin	.6
Titanium	.6
Tungsten	1.1
Vanadium	.4
Zinc	.2
Zirconium	.2

The above applies to the following instrument runs:
MA46419

Instrument Linear Ranges

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Instrument ID: LEEMANHG7 **Effective Date:** 03/10/17

Analyte	Linear Range ug/l
Mercury	5

The above applies to the following instrument runs:
MA46407

Instrument Linear Ranges

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Instrument ID: SSTRACE4 **Effective Date:** 07/16/18

Analyte	Linear Range ug/l
Aluminum	300000
Antimony	8000
Arsenic	8000
Barium	8000
Beryllium	8000
Bismuth	8000
Boron	8000
Cadmium	8000
Calcium	200000
Chromium	8000
Cobalt	8000
Copper	8000
Iron	200000
Lead	8000
Lithium	8000
Magnesium	300000
Manganese	8000
Molybdenum	8000
Nickel	8000
Palladium	8000
Phosphorus	8000
Potassium	200000
Selenium	8000
Silicon	25000
Silver	625
Sodium	200000
Sulfur	100000
Strontium	8000
Thallium	8000
Tin	8000
Titanium	8000
Tungsten	8000
Vanadium	8000
Zinc	8000
Zirconium	8000

The above applies to the following instrument runs:
MA46414

Instrument Linear Ranges

Job Number: JC85367
Account: BBLNYS Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Instrument ID: SSTRACE5 **Effective Date:** 07/16/18

Analyte	Linear Range ug/l
Aluminum	300000
Antimony	8000
Arsenic	8000
Barium	8000
Beryllium	8000
Bismuth	8000
Boron	8000
Cadmium	8000
Calcium	200000
Chromium	8000
Cobalt	8000
Copper	8000
Iron	200000
Lead	8000
Lithium	8000
Magnesium	300000
Manganese	8000
Molybdenum	8000
Nickel	8000
Palladium	8000
Phosphorus	8000
Potassium	200000
Selenium	8000
Silicon	25000
Silver	625
Sodium	200000
Sulfur	100000
Strontium	8000
Thallium	8000
Tin	8000
Titanium	8000
Tungsten	8000
Vanadium	8000
Zinc	8000
Zirconium	8000

The above applies to the following instrument runs:
MA46419

Metals Analysis

Raw Data

MA46407

Method: ACCUTEST Operator: Admin Date of Analysis: 02 Apr 2019 09:46:19

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
STDA - 1	02 Apr 2019 09:46:30	Std	ug/l	-	226	1.000	1.000
STDB - 1	02 Apr 2019 09:47:49	Std	ug/l	-	638	1.000	1.000
STDC - 1	02 Apr 2019 09:49:09	Std	ug/l	-	1944	1.000	1.000
STDD - 1	02 Apr 2019 09:50:45	Std	ug/l	-	4063	1.000	1.000
STDE - 1	02 Apr 2019 09:52:33	Std	ug/l	-	10029	1.000	1.000
STDF - 1	02 Apr 2019 09:54:27	Std	ug/l	-	21095	1.000	1.000
STDB - 1	02 Apr 2019 09:57:40	Std	ug/l	-	625	1.000	1.000
STDE - 1	02 Apr 2019 09:59:01	Std	ug/l	-	10070	1.000	1.000
STDB - 1	02 Apr 2019 10:02:49	Std	ug/l	-	997	1.000	1.000
STDE - 1	02 Apr 2019 10:04:07	Std	ug/l	-	9826	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 10:07:51	CK STND	ug/l	(H)112.5% 3.3736	14036	1.000	1.000
ICV - 1	02 Apr 2019 10:11:08	CK STND	ug/l	100.5% 3.0143	12537	1.000	1.000
ICB - 1	02 Apr 2019 10:12:23	CK STND	ug/l	-0.0057	-62	1.000	1.000
CCV - 1	02 Apr 2019 10:14:32	CK STND	ug/l	94.4% 2.3609	9811	1.000	1.000
CCB - 1	02 Apr 2019 10:15:51	CK STND	ug/l	-0.0097	-79	1.000	1.000
CRI - 1	02 Apr 2019 10:17:56	CK STND	ug/l	77.7% 0.1554	610	1.000	1.000
MP13750-MB1 - 1	02 Apr 2019 10:35:17	SMPL	ug/l	0.0205	47	1.000	1.000
MP13750-B1 - 1	02 Apr 2019 10:36:33	SMPL	ug/l	1.9002	7889	1.000	1.000
MP13750-S1 - 1	02 Apr 2019 10:37:50	SMPL	ug/l	1.8391	7634	1.000	1.000
MP13750-S2 - 1	02 Apr 2019 10:39:52	SMPL	ug/l	1.8161	7538	1.000	1.000
JC85339-1F - 1	02 Apr 2019 10:41:53	SMPL	ug/l	-0.0661	-314	1.000	1.000
JC85339-2F - 1	02 Apr 2019 10:43:54	SMPL	ug/l	-0.0040	-55	1.000	1.000
JC85339-3F - 1	02 Apr 2019 10:45:11	SMPL	ug/l	-0.0071	-68	1.000	1.000
JC85339-4F - 1	02 Apr 2019 10:46:28	SMPL	ug/l	-0.0033	-52	1.000	1.000
CCV - 1	02 Apr 2019 10:47:45	CK STND	ug/l	94.9% 2.3736	9864	1.000	1.000
CCB - 1	02 Apr 2019 10:49:03	CK STND	ug/l	0.0039	-22	1.000	1.000
JC85339-5F - 1	02 Apr 2019 10:51:09	SMPL	ug/l	-0.0788	-367	1.000	1.000
JC85339-6F - 1	02 Apr 2019 10:52:28	SMPL	ug/l	-0.0033	-52	1.000	1.000
JC85339-7F - 1	02 Apr 2019 10:53:46	SMPL	ug/l	0.0085	-3	1.000	1.000
JC85339-8F - 1	02 Apr 2019 10:55:04	SMPL	ug/l	-0.0141	-97	1.000	1.000
JC85339-9F - 1	02 Apr 2019 10:56:23	SMPL	ug/l	0.0030	-26	1.000	1.000
JC85339-10F - 1	02 Apr 2019 10:57:39	SMPL	ug/l	0.0037	-23	1.000	1.000
JC85409-11 - 1	02 Apr 2019 10:58:56	SMPL	ug/l	7.1164	29650	1.000	1.000
JC85409-11F - 1	02 Apr 2019 11:00:12	SMPL	ug/l	1.7139	7112	1.000	1.000
JC85431-1 - 1	02 Apr 2019 11:02:32	SMPL	ug/l	-0.0670	-318	1.000	1.000
CCV - 1	02 Apr 2019 11:04:34	CK STND	ug/l	94.0% 2.3496	9764	1.000	1.000
CCB - 1	02 Apr 2019 11:05:52	CK STND	ug/l	0.0001	-38	1.000	1.000
JC85431-1F - 1	02 Apr 2019 11:07:58	SMPL	ug/l	-0.0692	-327	1.000	1.000
JC85431-2 - 1	02 Apr 2019 11:09:18	SMPL	ug/l	-0.0145	-99	1.000	1.000
JC85431-2F - 1	02 Apr 2019 11:10:35	SMPL	ug/l	-0.0026	-49	1.000	1.000
JC85498-1Q - 1	02 Apr 2019 11:11:52	SMPL	ug/l	0.0013	-33	1.000	1.000
JC85499-1Q - 1	02 Apr 2019 11:13:09	SMPL	ug/l	0.0027	-27	1.000	1.000
JC85500-1Q - 1	02 Apr 2019 11:14:27	SMPL	ug/l	0.0032	-25	1.000	1.000
MP13773-MB1 - 1	02 Apr 2019 11:15:46	SMPL	ug/l	0.0030	-26	1.000	1.000
MP13773-B1 - 1	02 Apr 2019 11:17:04	SMPL	ug/l	1.9702	8181	1.000	1.000
MP13773-S1 - 1	02 Apr 2019 11:18:21	SMPL	ug/l	1.8688	7758	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 11:20:24	CK STND	ug/l	(L)89.8% 2.2446	9326	1.000	1.000
CCV - 1	02 Apr 2019 11:24:16	CK STND	ug/l	98.7% 2.4669	10253	1.000	1.000
CCB - 1	02 Apr 2019 11:25:33	CK STND	ug/l	-0.0088	-75	1.000	1.000
MP13773-S2 - 1	02 Apr 2019 11:27:39	SMPL	ug/l	1.9122	7939	1.000	1.000
JC85326-1 - 1	02 Apr 2019 11:28:58	SMPL	ug/l	-0.0613	-294	1.000	1.000
JC85326-1F - 1	02 Apr 2019 11:31:00	SMPL	ug/l	-0.0093	-77	1.000	1.000
JC85326-2 - 1	02 Apr 2019 11:32:17	SMPL	ug/l	0.0022	-29	1.000	1.000
JC85326-2F - 1	02 Apr 2019 11:33:33	SMPL	ug/l	-0.0069	-67	1.000	1.000
JC85326-3 - 1	02 Apr 2019 11:34:50	SMPL	ug/l	0.0099	3	1.000	1.000
JC85326-3F - 1	02 Apr 2019 11:36:07	SMPL	ug/l	-0.0066	-66	1.000	1.000
JC85326-4 - 1	02 Apr 2019 11:37:25	SMPL	ug/l	0.0092	0	1.000	1.000
JC85326-4F - 1	02 Apr 2019 11:38:43	SMPL	ug/l	-0.0011	-43	1.000	1.000
CCV - 1	02 Apr 2019 11:40:01	CK STND	ug/l	96.9% 2.4223	10067	1.000	1.000
CCB - 1	02 Apr 2019 11:41:18	CK STND	ug/l	-0.0090	-76	1.000	1.000
JC85326-5 - 1	02 Apr 2019 11:43:23	SMPL	ug/l	-0.0692	-327	1.000	1.000
JC85326-5F - 1	02 Apr 2019 11:44:43	SMPL	ug/l	-0.0071	-68	1.000	1.000
JC85326-6 - 1	02 Apr 2019 11:46:00	SMPL	ug/l	0.0051	-17	1.000	1.000
JC85326-6F - 1	02 Apr 2019 11:47:17	SMPL	ug/l	-0.0062	-64	1.000	1.000
JC85326-7 - 1	02 Apr 2019 11:48:34	SMPL	ug/l	0.0308	90	1.000	1.000
JC85326-7F - 1	02 Apr 2019 11:49:51	SMPL	ug/l	-0.0328	-175	1.000	1.000
JC85326-8 - 1	02 Apr 2019 11:51:09	SMPL	ug/l	0.0044	-20	1.000	1.000
JC85326-8F - 1	02 Apr 2019 11:52:26	SMPL	ug/l	0.0027	-27	1.000	1.000
JC85326-9 - 1	02 Apr 2019 11:53:43	SMPL	ug/l	0.0044	-20	1.000	1.000

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Method: ACCUTEST Operator: Admin Date of Analysis: 02 Apr 2019 09:46:19

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
CCV - 1	02 Apr 2019 11:55:00	CK STND	ug/l	97.3% 2.4335	10114	1.000	1.000
CCB - 1	02 Apr 2019 11:56:18	CK STND	ug/l	-0.0021	-47	1.000	1.000
JC85326-9F - 1	02 Apr 2019 11:58:23	SMPL	ug/l	-0.0191	-118	1.000	1.000
JC85326-11 - 1	02 Apr 2019 11:59:42	SMPL	ug/l	-0.0527	-258	1.000	1.000
JC85326-11F - 1	02 Apr 2019 12:01:02	SMPL	ug/l	0.0073	-8	1.000	1.000
MP13774-MB1 - 1	02 Apr 2019 12:02:20	SMPL	ug/l	0.0368	115	1.000	1.000
MP13774-B1 - 1	02 Apr 2019 12:03:39	SMPL	ug/l	1.8923	7856	1.000	1.000
MP13774-S1 - 1	02 Apr 2019 12:04:56	SMPL	ug/l	1.8599	7721	1.000	1.000
MP13774-S2 - 1	02 Apr 2019 12:06:58	SMPL	ug/l	1.8671	7751	1.000	1.000
JC85487-1F - 1	02 Apr 2019 12:09:01	SMPL	ug/l	-0.0131	-93	1.000	1.000
JC85487-1 - 1	02 Apr 2019 12:11:03	SMPL	ug/l	0.0284	80	1.000	1.000
CCV - 1	02 Apr 2019 12:12:22	CK STND	ug/l	92.3% 2.3072	9587	1.000	1.000
CCB - 1	02 Apr 2019 12:13:42	CK STND	ug/l	-0.0143	-98	1.000	1.000
JC85487-2 - 1	02 Apr 2019 12:15:47	SMPL	ug/l	48.5091	202334	1.000	1.000
JC85487-2F - 1	02 Apr 2019 12:17:06	SMPL	ug/l	41.6011	173515	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 12:20:01	SMPL	ug/l	-0.1883	-824	1.000	1.000
JC85487-3F - 1	02 Apr 2019 12:22:41	SMPL	ug/l	-0.0742	-348	1.000	1.000
JC85487-4 - 1	02 Apr 2019 12:24:16	SMPL	ug/l	48.6330	202851	1.000	1.000
JC85487-4F - 1	02 Apr 2019 12:25:37	SMPL	ug/l	47.4465	197901	1.000	1.000
JC85487-5 - 1	02 Apr 2019 12:28:31	SMPL	ug/l	1.0766	4453	1.000	1.000
JC85487-5F - 1	02 Apr 2019 12:33:05	SMPL	ug/l	0.2501	1005	1.000	1.000
JC85487-6 - 1	02 Apr 2019 12:41:16		ug/l	HIGH	310029	1.000	1.000
CCV - 1	02 Apr 2019 12:52:06	CK STND	ug/l	98.7% 2.4666	10252	1.000	1.000
CCB - 1	02 Apr 2019 12:53:23	CK STND	ug/l	-0.0069	-67	1.000	1.000
JC85487-6F - 1	02 Apr 2019 12:55:29	SMPL	ug/l	62.6405	13028	1.000	20.000
JC85487-7 - 1	02 Apr 2019 12:56:48	SMPL	ug/l	-0.0433	-219	1.000	1.000
JC85487-7F - 1	02 Apr 2019 12:59:00	SMPL	ug/l	-0.0428	-217	1.000	1.000
JC85487-8 - 1	02 Apr 2019 13:00:19	SMPL	ug/l	2.6747	11120	1.000	1.000
JC85487-8F - 1	02 Apr 2019 13:01:37	SMPL	ug/l	2.4410	10145	1.000	1.000
JC85487-9 - 1	02 Apr 2019 13:03:44	SMPL	ug/l	7.8928	32889	1.000	1.000
JC85487-9F - 1	02 Apr 2019 13:05:50	SMPL	ug/l	7.4086	30869	1.000	1.000
JC85374-1 - 1	02 Apr 2019 13:08:10	SMPL	ug/l	-0.0692	-327	1.000	1.000
JC85494-6 - 1	02 Apr 2019 13:10:30	SMPL	ug/l	-0.0364	-190	1.000	1.000
CCV - 1	02 Apr 2019 13:11:49	CK STND	ug/l	95.7% 2.3935	9947	1.000	1.000
CCB - 1	02 Apr 2019 13:13:07	CK STND	ug/l	-0.0198	-121	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:15:10	SMPL	ug/l	-0.0781	-364	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:16:31	SMPL	ug/l	1.9443	8073	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:17:49	SMPL	ug/l	2.9796	12392	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:19:51	SMPL	ug/l	2.8305	11770	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:22:00	SMPL	ug/l	1.0169	4204	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:24:09	SMPL	ug/l	5.6084	23359	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:26:08	SMPL	ug/l	3.8662	16091	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:28:24	SMPL	ug/l	1.2590	5214	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:30:34	SMPL	ug/l	30.0417	125291	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:32:33	CK STND	ug/l	(L)88.6% 2.2149	9202	1.000	1.000
SAMPLECONF - 1	02 Apr 2019 13:37:35	CK STND	ug/l	(L)88.6% 2.2144	9200	1.000	1.000
CCV - 1	02 Apr 2019 13:45:28	CK STND	ug/l	105.4% 2.6339	10950	1.000	1.000
CCB - 1	02 Apr 2019 13:46:45	CK STND	ug/l	-0.0028	-50	1.000	1.000
MP13776-MB1 - 1	02 Apr 2019 13:48:51	SMPL	ug/l	-0.0675	-320	1.000	1.000
MP13776-B1 - 1	02 Apr 2019 13:50:12	SMPL	ug/l	1.9105	7932	1.000	1.000
MP13776-S1 - 1	02 Apr 2019 13:51:29	SMPL	ug/l	2.9266	12171	1.000	1.000
MP13776-S2 - 1	02 Apr 2019 13:53:33	SMPL	ug/l	2.7511	11439	1.000	1.000
JC85409-1F - 1	02 Apr 2019 13:55:43	SMPL	ug/l	0.9896	4090	1.000	1.000
JC85409-1 - 1	02 Apr 2019 13:57:52	SMPL	ug/l	5.4069	11240	1.000	2.000
JC85409-2 - 1	02 Apr 2019 13:59:49	SMPL	ug/l	3.7497	15605	1.000	1.000
JC85409-2F - 1	02 Apr 2019 14:01:58	SMPL	ug/l	0.7707	3177	1.000	1.000
JC85409-3 - 1	02 Apr 2019 14:04:09	SMPL	ug/l	29.2540	12166	1.000	10.000
CCV - 1	02 Apr 2019 14:05:42	CK STND	ug/l	104.0% 2.6006	10811	1.000	1.000
CCB - 1	02 Apr 2019 14:07:52	CK STND	ug/l	-0.0071	-68	1.000	1.000
JC85409-3F - 1	02 Apr 2019 14:09:58	SMPL	ug/l	22.1641	92427	1.000	1.000
JC85409-4 - 1	02 Apr 2019 14:11:18	SMPL	ug/l	0.0703	255	1.000	1.000
JC85409-4F - 1	02 Apr 2019 14:13:53	SMPL	ug/l	-0.0445	-224	1.000	1.000
JC85409-5 - 1	02 Apr 2019 14:15:33	SMPL	ug/l	4.7474	19767	1.000	1.000
JC85409-5F - 1	02 Apr 2019 14:16:54	SMPL	ug/l	0.9829	4062	1.000	1.000
JC85409-6 - 1	02 Apr 2019 14:19:09	SMPL	ug/l	0.0252	67	1.000	1.000
JC85409-6F - 1	02 Apr 2019 14:21:07	SMPL	ug/l	-0.0407	-208	1.000	1.000
JC85409-7 - 1	02 Apr 2019 14:22:27	SMPL	ug/l	58.1930	242734	1.000	1.000
JC85409-7F - 1	02 Apr 2019 14:23:47	SMPL	ug/l	39.6847	165520	1.000	1.000
CCV - 1	02 Apr 2019 14:26:44	CK STND	ug/l	101.5% 2.5371	10546	1.000	1.000

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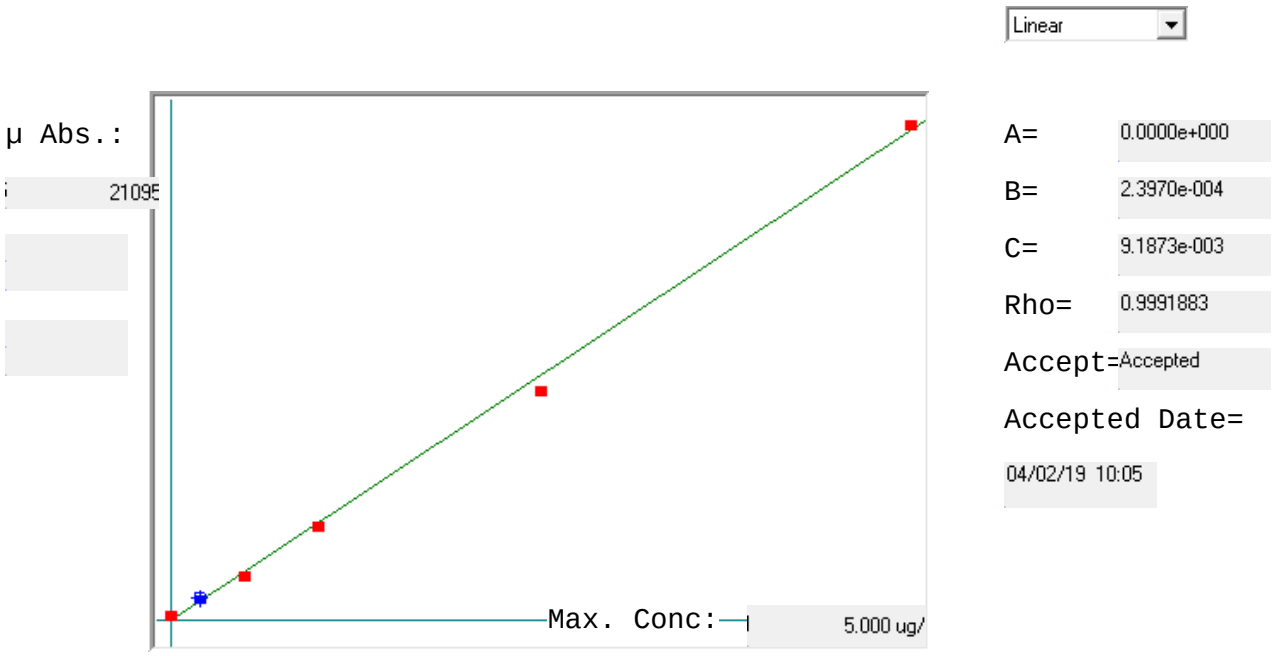
Method: ACCUTEST Operator: Admin Date of Analysis: 02 Apr 2019 09:46:19

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
CCB - 1	02 Apr 2019 14:29:35	CK STND	ug/l	-0.0443	-223	1.000	1.000
JC85409-8 - 1	02 Apr 2019 14:31:43	SMPL	ug/l	-0.0922	-423	1.000	1.000
JC85409-8F - 1	02 Apr 2019 14:33:04	SMPL	ug/l	-0.0311	-168	1.000	1.000
JC85409-11 - 1	02 Apr 2019 14:34:21	SMPL	ug/l	7.0119	14588	1.000	2.000
JC85409-11F - 1	02 Apr 2019 14:35:39	SMPL	ug/l	1.7705	7348	1.000	1.000
JC85487-2 - 1	02 Apr 2019 14:37:50	SMPL	ug/l	46.2545	9610	1.000	20.000
JC85487-2F - 1	02 Apr 2019 14:39:54	SMPL	ug/l	41.3837	8594	1.000	20.000
SAMPLECONF - 1	02 Apr 2019 14:42:03	SMPL	ug/l	46.6908	9701	1.000	20.000
SAMPLECONF - 1	02 Apr 2019 14:44:11	SMPL	ug/l	50.6171	10520	1.000	20.000
JC85487-5 - 1	02 Apr 2019 14:46:19	SMPL	ug/l	1.2235	5066	1.000	1.000
CCV - 1	02 Apr 2019 14:48:28	CK STND	ug/l	100.9% 2.5229	10487	1.000	1.000
CCB - 1	02 Apr 2019 14:50:28	CK STND	ug/l	-0.0045	-57	1.000	1.000
JC85487-5F - 1	02 Apr 2019 14:52:35	SMPL	ug/l	0.1923	764	1.000	1.000
JC85487-6 - 1	02 Apr 2019 14:53:54	SMPL	ug/l	136.0708	11315	1.000	50.000
JC85487-3 - 1	02 Apr 2019 14:55:35	SMPL	ug/l	0.0583	205	1.000	1.000
JC85487-8 - 1	02 Apr 2019 14:57:45	SMPL	ug/l	2.7032	11239	1.000	1.000
JC85487-8F - 1	02 Apr 2019 14:59:16	SMPL	ug/l	2.4580	10216	1.000	1.000
JC85487-9 - 1	02 Apr 2019 15:01:24	SMPL	ug/l	7.5282	15665	1.000	2.000
JC85487-9F - 1	02 Apr 2019 15:03:31	SMPL	ug/l	6.7003	13938	1.000	2.000
JC85409-9 - 1	02 Apr 2019 15:05:41	SMPL	ug/l	55.0283	229531	1.000	1.000
JC85409-9F - 1	02 Apr 2019 15:07:55	SMPL	ug/l	34.4410	143644	1.000	1.000
CCV - 1	02 Apr 2019 15:13:22	CK STND	ug/l	102.3% 2.5582	10634	1.000	1.000
CCB - 1	02 Apr 2019 15:14:41	CK STND	ug/l	-0.0270	-151	1.000	1.000
JC85409-10 - 1	02 Apr 2019 15:16:49	SMPL	ug/l	6.5900	27454	1.000	1.000
JC85409-10F - 1	02 Apr 2019 15:18:07	SMPL	ug/l	4.3531	18122	1.000	1.000
MP13777-MB1 - 1	02 Apr 2019 15:20:26	SMPL	ug/l	-0.0745	-349	1.000	1.000
MP13777-B1 - 1	02 Apr 2019 15:22:41	SMPL	ug/l	1.8983	7881	1.000	1.000
MP13777-S1 - 1	02 Apr 2019 15:23:59	SMPL	ug/l	1.8477	7670	1.000	1.000
MP13777-S2 - 1	02 Apr 2019 15:26:02	SMPL	ug/l	1.8839	7821	1.000	1.000
JC85367-1F - 1	02 Apr 2019 15:28:06	SMPL	ug/l	-0.0493	-244	1.000	1.000
JC85367-2F - 1	02 Apr 2019 15:30:08	SMPL	ug/l	-0.0160	-105	1.000	1.000
JC85367-3F - 1	02 Apr 2019 15:31:26	SMPL	ug/l	-0.0081	-72	1.000	1.000
CCV - 1	02 Apr 2019 15:32:44	CK STND	ug/l	100.8% 2.5189	10470	1.000	1.000
CCB - 1	02 Apr 2019 15:34:01	CK STND	ug/l	-0.0033	-52	1.000	1.000
JC85367-4F - 1	02 Apr 2019 15:36:08	SMPL	ug/l	-0.0627	-300	1.000	1.000
JC85445-1F - 1	02 Apr 2019 15:37:28	SMPL	ug/l	-0.0371	-193	1.000	1.000
JC85445-2F - 1	02 Apr 2019 15:38:45	SMPL	ug/l	-0.0222	-131	1.000	1.000
JC85445-3F - 1	02 Apr 2019 15:40:04	SMPL	ug/l	-0.0014	-44	1.000	1.000
JC85493-6A - 1	02 Apr 2019 15:41:22	SMPL	ug/l	-0.0083	-73	1.000	1.000
JC85357-1 - 1	02 Apr 2019 15:42:41	SMPL	ug/l	-0.0109	-84	1.000	1.000
JC85357-2 - 1	02 Apr 2019 15:43:59	SMPL	ug/l	-0.0059	-63	1.000	1.000
CCV - 1	02 Apr 2019 15:45:17	CK STND	ug/l	100.8% 2.5189	10470	1.000	1.000
CCB - 1	02 Apr 2019 15:46:35	CK STND	ug/l	-0.0064	-65	1.000	1.000
JC85409-3F - 1	02 Apr 2019 15:48:41	SMPL	ug/l	21.1281	8776	1.000	10.000
JC85409-4 - 1	02 Apr 2019 15:50:01	SMPL	ug/l	0.1602	630	1.000	1.000
JC85409-5 - 1	02 Apr 2019 15:52:07	SMPL	ug/l	4.7213	19658	1.000	1.000
JC85409-5F - 1	02 Apr 2019 15:53:45	SMPL	ug/l	0.9316	3848	1.000	1.000
JC85409-7 - 1	02 Apr 2019 15:56:00	SMPL	ug/l	58.6327	12192	1.000	20.000
JC85409-7F - 1	02 Apr 2019 15:57:57	SMPL	ug/l	38.2772	7946	1.000	20.000
CCV - 1	02 Apr 2019 16:00:06	CK STND	ug/l	101.2% 2.5304	10518	1.000	1.000
CCB - 1	02 Apr 2019 16:02:09	CK STND	ug/l	-0.0121	-89	1.000	1.000
JC85487-4 - 1	02 Apr 2019 16:05:10	SMPL	ug/l	48.7186	10124	1.000	20.000
JC85487-4F - 1	02 Apr 2019 16:06:28	SMPL	ug/l	49.1357	10211	1.000	20.000
JC85409-9 - 1	02 Apr 2019 16:17:33	SMPL	ug/l	52.6450	10943	1.000	20.000
JC85409-9F - 1	02 Apr 2019 16:18:51	SMPL	ug/l	30.4294	6309	1.000	20.000
JC85409-10 - 1	02 Apr 2019 16:21:00	SMPL	ug/l	6.3106	13125	1.000	2.000
JC85409-9F - 1	02 Apr 2019 16:23:55	SMPL	ug/l	30.6499	6355	1.000	20.000
JC85409-2F - 1	02 Apr 2019 16:25:16	SMPL	ug/l	1.2530	5189	1.000	1.000
CRI - 1	02 Apr 2019 16:27:20	CK STND	ug/l	82.0% 0.1640	646	1.000	1.000
CCV - 1	02 Apr 2019 16:29:17	CK STND	ug/l	98.1% 2.4537	10198	1.000	1.000
CCB - 1	02 Apr 2019 16:30:55	CK STND	ug/l	0.0006	-36	1.000	1.000

ACCUTEST



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	0.063	0.063	226	0.000	226				
STDB	0.200	0.248	0.048	997	0.0 %	997				
STDC	0.500	0.475	-0.025	1944	0.0 %	1944				
STDD	1.000	0.983	-0.017	4063	0.0 %	4063				
STDE	2.500	2.365	-0.135	9826	0.0 %	9826				
STDF	5.000	5.066	0.066	21095	0.0 %	21095				

Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 4/2/2019 18:54:52 Type: Cal
Method: SGS No Vlave3(v343) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0032**	**.0002**	**.0009**	**-.0004**	**-.0000**	**.0018**	**.0001**	**.0005**	**-.0015**
Stddev	.0003	.0001	.0001	.0001	.0000	.0000	.0000	.0001	.0000
%RSD	8.599	34.37	13.42	30.12	114.2	2.364	6.689	20.21	1.498
#1	.0029	.0002	.0011	-.0004	-.0000	.0018	.0001	.0004	-.0015
#2	.0032	.0001	.0009	-.0003	-.0000	.0018	.0001	.0006	-.0015
#3	.0034	.0001	.0008	-.0005	-.0000	.0018	.0001	.0006	-.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0002**	**.0004**	**-.0004**	**-.0001**	**-.0001**	**.0003**	**.0005**	**.0014**	**.0043**
Stddev	.0000	.0001	.0001	.0000	.0001	.0001	.0002	.0003	.0001
%RSD	6.959	15.27	20.68	63.44	121.9	42.07	36.08	20.37	1.876
#1	.0002	.0004	-.0003	-.0001	-.0001	.0004	.0004	.0011	.0042
#2	.0002	.0003	-.0004	-.0001	.0000	.0002	.0008	.0014	.0044
#3	.0002	.0005	-.0005	-.0000	-.0001	.0002	.0005	.0017	.0044

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0002**	**-.0001**	**.0041**	**.0061**	**.0008**	**-.0003**	**.0035**	**.0003**	**-.0021**
Stddev	.0001	.0001	.0004	.0003	.0000	.0001	.0001	.0000	.0002
%RSD	45.95	115.9	10.13	5.677	2.360	23.26	2.774	15.96	8.147
#1	.0002	-.0002	.0044	.0059	.0009	-.0002	.0035	.0003	-.0019
#2	.0001	.0000	.0036	.0065	.0009	-.0003	.0036	.0004	-.0022
#3	.0001	-.0001	.0043	.0058	.0008	-.0003	.0034	.0003	-.0021

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**.0001**	**-.0003**	**-.0007**	**-.0012**	**.0002**	**-.0031**
Stddev	.0000	.0004	.0001	.0001	.0003	.0002	.0001
%RSD	43.60	710.7	19.93	9.115	21.56	83.41	4.230
#1	.0001	-.0003	-.0004	-.0007	-.0011	.0003	-.0031
#2	.0001	.0001	-.0004	-.0007	-.0015	.0002	-.0030
#3	.0002	.0004	-.0003	-.0008	-.0010	.0000	-.0033

◀ Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 4/2/2019 18:54:52 Type: Cal
Method: SGS No Vlave3(v343) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**154730.**	**28102.**	**4069.2**	**7498.2**
Stddev	327.	80.	15.3	22.0
%RSD	.21107	.28583	.37588	.29300
#1	154840.	28101.	4069.9	7492.5
#2	154370.	28183.	4053.5	7479.7
#3	154990.	28023.	4084.0	7522.5

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 4/2/2019 19:00:05 Type: Cal
Method: SGS No Vlave3(v343) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.365**	**11.81**	**5.358**	**3.168**	**.4090**	**1.105**	**2.924**	**2.184**	**.0604**
Stddev	.056	.12	.011	.006	.0008	.006	.008	.007	.0001
%RSD	.7597	.9911	.2057	.2032	.1920	.5635	.2743	.3248	.1917
#1	7.420	11.72	5.347	3.162	.4082	1.106	2.915	2.180	.0605
#2	7.367	11.78	5.369	3.175	.4097	1.111	2.929	2.193	.0605
#3	7.308	11.95	5.357	3.166	.4091	1.098	2.929	2.181	.0603

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6490**	**4.733**	**.4202**	**.2543**	**.8125**	**.3275**	**.7101**	**2.973**	**5.268**
Stddev	.0019	.009	.0005	.0009	.0008	.0001	.0015	.007	.018
%RSD	.2863	.1899	.1147	.3641	.0928	.0389	.2054	.2339	.3331
#1	.6479	4.729	.4202	.2533	.8120	.3275	.7084	2.980	5.288
#2	.6511	4.744	.4198	.2548	.8134	.3273	.7109	2.967	5.255
#3	.6480	4.728	.4207	.2549	.8121	.3276	.7109	2.971	5.261

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.832**	**.4793**	**1.399**	**6.007**	**.9754**	**3.488**	**2.675**	**.7014**	**15.03**
Stddev	.005	.0018	.005	.017	.0024	.003	.005	.0016	.22
%RSD	.1867	.3841	.3522	.2771	.2433	.0859	.1769	.2346	1.460
#1	2.829	.4810	1.399	6.011	.9727	3.485	2.669	.6997	15.03
#2	2.829	.4774	1.404	6.021	.9773	3.490	2.678	.7030	15.25
#3	2.838	.4794	1.394	5.989	.9762	3.490	2.677	.7016	14.81

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.7380**	**1.649**	**1.560**	**.1939**	**1.057**	**2.341**	**.4655**
Stddev	.0015	.003	.007	.0007	.002	.004	.0012
%RSD	.2095	.1637	.4257	.3512	.1521	.1555	.2569
#1	.7366	1.646	1.557	.1931	1.055	2.345	.4641
#2	.7397	1.650	1.568	.1942	1.058	2.338	.4660
#3	.7376	1.651	1.556	.1944	1.057	2.339	.4664

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 4/2/2019 19:00:05 Type: Cal
Method: SGS No Vlave3(v343) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**144970.**	**27778.**	**3893.0**	**6704.5**
Stddev	394.	86.	3.7	12.8
%RSD	.27206	.30883	.09407	.19029
#1	145270.	27685.	3896.4	6715.3
#2	144530.	27794.	3889.1	6690.4
#3	145130.	27855.	3893.4	6707.7

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 4/2/2019 19:05:29 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.987**	**2.012**	**1.987**	**1.982**	**1.981**	**1.937**	**2.028**	**2.011**	**.2414**
Stddev	.004	.004	.003	.003	.003	.007	.001	.003	.0003
%RSD	.2150	.2076	.1436	.1530	.1481	.3776	.0650	.1578	.1413
#1	1.984	2.007	1.985	1.979	1.978	1.946	2.029	2.007	.2410
#2	1.986	2.012	1.985	1.981	1.982	1.933	2.027	2.012	.2416
#3	1.992	2.016	1.990	1.985	1.983	1.933	2.029	2.013	.2415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.972**	**2.013**	**1.972**	**2.049**	**2.020**	**1.977**	**1.986**	**38.76**	**39.32**
Stddev	.004	.002	.002	.006	.000	.003	.003	.08	.15
%RSD	.2000	.1128	.0841	.3000	.0220	.1383	.1514	.2002	.3882
#1	1.976	2.010	1.973	2.043	2.020	1.980	1.988	38.67	39.15
#2	1.969	2.013	1.970	2.049	2.019	1.974	1.983	38.80	39.45
#3	1.972	2.015	1.972	2.056	2.020	1.977	1.988	38.81	39.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.47**	**39.03**	**38.71**	**38.92**	**2.007**	**2.012**	**5.080**	**2.029**	**2.002**
Stddev	.08	.22	.08	.09	.005	.002	.008	.002	.005
%RSD	.2046	.5692	.2062	.2408	.2659	.0914	.1608	.0955	.2402
#1	39.38	38.80	38.68	38.84	2.001	2.010	5.075	2.028	1.999
#2	39.52	39.25	38.66	38.90	2.010	2.013	5.076	2.028	2.000
#3	39.50	39.04	38.81	39.02	2.010	2.014	5.090	2.031	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 4/2/2019 19:05:29 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.985**	**1.997**	**1.976**	**1.942**	**1.991**	**1.989**	**1.969**
Stddev	.001	.003	.006	.003	.002	.003	.003
%RSD	.0391	.1408	.3172	.1302	.0793	.1563	.1598
#1	1.986	1.994	1.983	1.942	1.989	1.987	1.971
#2	1.986	1.998	1.972	1.940	1.992	1.987	1.965
#3	1.985	1.999	1.973	1.945	1.992	1.993	1.971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**151050.**	**28693.**	**4046.5**	**6990.1**
Stddev	140.	230.	2.5	9.9
%RSD	.09265	.80194	.06169	.14232
#1	151190.	28923.	4049.2	7001.4
#2	151050.	28463.	4046.1	6982.8
#3	150910.	28694.	4044.3	6986.1

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 4/2/2019 19:10:20 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**.0000**	**.0000**	**.0001**	**.0000**	**-.0000**	**-.0000**	**-.0002**
Stddev	.0001	.0000	.0001	.0001	.0001	.0001	.0000	.0002	.0004
%RSD	159.1	167.2	283.6	384.7	89.48	305.4	166.0	1481.	214.0
#1	-.0001	.0000	-.0001	-.0000	.0000	.0002	-.0000	.0002	-.0005
#2	.0001	-.0000	.0001	-.0000	.0001	.0000	-.0000	-.0001	-.0001
#3	.0002	-.0001	.0001	.0002	.0002	-.0001	.0000	-.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0002**	**-.0001**	**-.0008**	**-.0004**	**.0009**	**-.0010**	**.0006**
Stddev	.0002	.0002	.0007	.0009	.0009	.0015	.0006	.0030	.0006
%RSD	378.0	725.1	319.9	1032.	107.0	366.2	63.19	296.0	111.5
#1	-.0000	.0002	.0010	.0005	-.0008	-.0021	.0013	.0013	.0013
#2	-.0001	.0000	.0002	.0003	-.0017	.0001	.0011	.0000	.0002
#3	.0003	-.0001	-.0005	-.0011	.0001	.0008	.0002	-.0044	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**.0144**	**-.0004**	**-.0247**	**.0017**	**.0000**	**.0002**	**-.0000**	**-.0000**
Stddev	.0005	.0021	.0508	.0039	.0005	.0001	.0003	.0005	.0000
%RSD	49.30	14.55	11300.	15.62	32.07	248.1	130.5	1590.	249.8
#1	-.0017	.0120	.0561	-.0291	.0012	.0001	.0000	-.0001	.0000
#2	-.0006	.0150	-.0152	-.0228	.0023	.0001	.0006	.0005	-.0001
#3	-.0010	.0161	-.0423	-.0221	.0016	-.0001	.0001	-.0004	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 4/2/2019 19:10:20 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0009**	**.0000**	**-.0008**	**.0013**	**.0002**	**.0001**
Stddev	.0001	.0004	.0001	.0036	.0007	.0007	.0004
%RSD	43.13	43.85	826.6	453.1	50.42	360.2	352.3
#1	.0003	.0007	.0001	-.0025	.0007	.0007	.0001
#2	.0001	.0006	-.0001	-.0031	.0020	.0006	-.0003
#3	.0003	.0013	.0001	.0033	.0012	-.0006	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**155310.**	**28449.**	**4137.4**	**7620.7**
Stddev	314.	281.	21.4	39.5
%RSD	.20199	.98688	.51693	.51781
#1	155100.	28126.	4114.2	7576.8
#2	155150.	28639.	4141.5	7632.0
#3	155670.	28582.	4156.4	7653.3

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 4/2/2019 19:15:38 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.979**	**1.994**	**1.969**	**1.997**	**1.953**	**1.914**	**2.008**	**1.983**	**.2419**
Stddev	.019	.019	.011	.007	.008	.011	.010	.007	.0013
%RSD	.9784	.9335	.5810	.3529	.4091	.5686	.5197	.3711	.5356
#1	2.001	2.015	1.962	1.991	1.956	1.917	2.012	1.976	.2419
#2	1.965	1.980	1.964	1.994	1.944	1.902	1.996	1.982	.2406
#3	1.971	1.986	1.982	2.005	1.960	1.923	2.015	1.990	.2432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.956**	**1.977**	**1.926**	**2.020**	**1.985**	**1.939**	**1.926**	**38.42**	**39.17**
Stddev	.012	.007	.011	.009	.012	.008	.013	.45	.46
%RSD	.5947	.3795	.5924	.4306	.6180	.4170	.6956	1.178	1.165
#1	1.960	1.974	1.919	2.021	1.973	1.935	1.916	38.94	39.70
#2	1.943	1.971	1.920	2.011	1.985	1.934	1.921	38.10	38.87
#3	1.966	1.985	1.939	2.028	1.998	1.948	1.941	38.23	38.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.22**	**38.77**	**38.51**	**38.78**	**1.980**	**1.959**	**4.987**	**1.969**	**1.990**
Stddev	.20	.36	.42	.35	.013	.011	.029	.009	.017
%RSD	.5197	.9397	1.103	.9127	.6724	.5560	.5786	.4611	.8588
#1	39.45	39.18	39.00	39.19	1.971	1.952	4.965	1.961	2.010
#2	39.10	38.50	38.25	38.57	1.975	1.953	4.977	1.966	1.979
#3	39.10	38.62	38.28	38.59	1.995	1.971	5.020	1.979	1.982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 4/2/2019 19:15:38 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.952**	**1.943**	**1.925**	F **1.874**	**1.921**	**1.921**	**1.972**
Stddev	.009	.009	.012	.008	.014	.020	.012
%RSD	.4381	.4573	.6004	.4233	.7022	1.044	.6226
#1	1.954	1.938	1.927	1.869	1.911	1.944	1.967
#2	1.943	1.937	1.912	1.870	1.916	1.906	1.962
#3	1.960	1.953	1.934	1.883	1.936	1.913	1.985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				2.000			
Range				-5.000%			

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**149240.**	**28379.**	**4005.5**	**6926.5**
Stddev	725.	224.	19.8	23.9
%RSD	.48573	.79027	.49406	.34505
#1	149050.	28124.	4016.7	6943.9
#2	150040.	28467.	4017.2	6936.4
#3	148630.	28546.	3982.7	6899.3

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 4/2/2019 19:20:28 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0000**	**.0001**	**.0000**	**-.0001**	**.0000**	**.0000**	**.0002**	**.0001**
Stddev	.0001	.0000	.0002	.0001	.0001	.0000	.0000	.0001	.0003
%RSD	1069.	69.54	238.8	273.7	88.32	88.74	141.8	68.07	203.5
#1	-.0001	.0000	.0003	.0001	-.0002	.0001	.0000	.0002	.0004
#2	-.0000	.0000	.0002	.0002	-.0000	.0000	.0000	.0003	.0002
#3	.0001	.0000	-.0002	-.0001	-.0003	.0000	.0000	.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0001**	**-.0005**	**-.0002**	**-.0000**	**.0001**	**.0013**	**.0031**	**.0011**
Stddev	.0002	.0002	.0005	.0011	.0001	.0017	.0010	.0016	.0020
%RSD	806.4	309.1	98.78	491.6	268.2	2180.	82.71	51.98	173.8
#1	-.0001	.0001	-.0011	-.0011	.0000	.0010	.0022	.0023	-.0001
#2	.0002	.0002	-.0001	.0010	-.0001	-.0019	.0001	.0050	.0034
#3	-.0001	-.0001	-.0004	-.0005	-.0000	.0011	.0015	.0021	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0130**	**-.0202**	**-.0376**	**.0017**	**.0001**	**.0004**	**-.0000**	**-.0000**
Stddev	.0010	.0105	.0072	.0040	.0010	.0001	.0005	.0004	.0000
%RSD	107.8	80.89	35.45	10.76	56.47	94.73	127.7	1193.	116.8
#1	-.0007	.0178	-.0269	-.0409	.0022	.0001	-.0001	-.0004	-.0000
#2	-.0021	.0202	-.0210	-.0389	.0024	.0001	.0004	-.0001	.0000
#3	-.0001	.0009	-.0127	-.0331	.0006	.0000	.0009	.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 4/2/2019 19:20:28 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0014**	**-.0000**	**-.0019**	**.0010**	**.0005**	**-.0005**
Stddev	.0001	.0001	.0000	.0016	.0008	.0016	.0010
%RSD	111.9	9.935	112.3	83.82	73.93	334.8	196.1
#1	.0003	.0015	-.0000	-.0036	.0006	-.0014	-.0005
#2	.0001	.0012	-.0000	-.0018	.0006	.0015	.0005
#3	-.0000	.0015	.0000	-.0004	.0019	.0013	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**154880.**	**28147.**	**4087.5**	**7525.5**
Stddev	374.	152.	17.2	29.4
%RSD	.24167	.53934	.42109	.39110
#1	154600.	27979.	4073.8	7501.1
#2	154730.	28274.	4081.8	7517.2
#3	155300.	28188.	4106.8	7558.2

Zoom In Zoom Out

Sample Name: ICCV 1 Acquired: 4/2/2019 19:26:32 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**2.029**	**2.007**	**2.005**	**2.012**	**1.953**	**2.053**	**2.037**	**.2449**
Stddev	.004	.005	.004	.004	.001	.007	.003	.002	.0004
%RSD	.1964	.2712	.1835	.1957	.0715	.3847	.1587	.1178	.1669
#1	1.999	2.023	2.004	2.000	2.012	1.947	2.051	2.034	.2453
#2	2.003	2.029	2.013	2.007	2.010	1.946	2.049	2.039	.2449
#3	2.008	2.036	2.007	2.006	2.014	1.961	2.055	2.037	.2452
#4	2.006	2.028	2.007	2.009	2.013	1.957	2.055	2.039	.2444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.993**	**2.036**	**1.987**	**2.071**	**2.039**	**1.988**	**2.010**	**39.13**	**39.76**
Stddev	.005	.003	.003	.002	.005	.005	.004	.11	.12
%RSD	.2316	.1423	.1477	.1056	.2633	.2399	.2112	.2786	.3017
#1	1.990	2.033	1.983	2.072	2.034	1.981	2.007	38.98	39.61
#2	1.987	2.040	1.987	2.068	2.043	1.991	2.016	39.13	39.77
#3	1.997	2.038	1.989	2.072	2.044	1.991	2.007	39.25	39.91
#4	1.996	2.035	1.990	2.072	2.034	1.986	2.011	39.14	39.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICCV 1 Acquired: 4/2/2019 19:26:32 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.99**	**39.57**	**38.95**	**39.34**	**2.031**	**2.032**	**5.136**	**2.048**	**2.017**
Stddev	.08	.15	.18	.14	.005	.002	.011	.004	.006
%RSD	.2036	.3692	.4715	.3602	.2602	.0825	.2090	.1924	.2975
#1	39.92	39.38	38.85	39.24	2.026	2.030	5.122	2.045	2.011
#2	39.96	39.57	38.81	39.29	2.036	2.033	5.145	2.053	2.014
#3	40.11	39.74	39.21	39.55	2.027	2.034	5.133	2.045	2.025
#4	39.98	39.61	38.92	39.30	2.035	2.032	5.145	2.049	2.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.015**	**2.012**	**1.994**	**1.964**	**2.008**	**2.013**	**1.983**
Stddev	.003	.004	.007	.003	.007	.005	.003
%RSD	.1309	.2041	.3293	.1730	.3453	.2327	.1599
#1	2.014	2.012	1.990	1.960	2.003	2.006	1.982
#2	2.011	2.014	1.988	1.962	2.013	2.011	1.982
#3	2.018	2.007	2.000	1.968	2.000	2.017	1.980
#4	2.016	2.017	2.000	1.964	2.014	2.016	1.987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICCV 1 Acquired: 4/2/2019 19:26:32 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**149040.**	**28085.**	**3995.8**	**6897.0**
Stddev	274.	160.	7.0	10.8
%RSD	.18385	.57026	.17457	.15673
#1	148980.	28138.	4005.5	6913.0
#2	149340.	28169.	3989.6	6892.2
#3	148700.	27846.	3995.8	6893.2
#4	149160.	28185.	3992.4	6889.5

Zoom In Zoom Out

Sample Name: CCB 7 Acquired: 4/2/2019 19:36:50 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0002**	**.0001**	**.0000**	**.0001**	**.0000**	**.0001**	**-.0002**
Stddev	.0000	.0000	.0001	.0001	.0001	.0001	.0000	.0003	.0001
%RSD	4.517	34.13	44.87	45.07	279.2	241.2	28.13	445.1	39.41
#1	.0002	.0000	.0002	.0001	-.0001	-.0001	.0001	.0002	-.0003
#2	.0002	.0001	.0002	.0002	.0000	.0001	.0001	-.0003	-.0001
#3	.0002	.0001	.0001	.0001	.0001	.0002	.0000	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0002**	**-.0005**	**.0007**	**-.0000**	**-.0007**	**.0006**	**-.0053**	**.0023**
Stddev	.0003	.0001	.0008	.0004	.0001	.0010	.0016	.0056	.0018
%RSD	4251.	56.34	169.2	58.45	1080.	157.6	286.6	105.8	77.79
#1	.0002	.0001	.0000	.0004	.0001	.0002	-.0001	-.0010	.0043
#2	.0002	.0002	-.0001	.0005	-.0001	-.0003	.0024	-.0032	.0009
#3	-.0004	.0002	-.0015	.0012	-.0000	-.0018	-.0006	-.0116	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0209**	**-.0237**	**-.0525**	**.0014**	**.0001**	**.0010**	**-.0000**	**.0001**
Stddev	.0014	.0039	.0109	.0079	.0001	.0001	.0007	.0003	.0000
%RSD	183.7	18.90	46.07	15.05	8.904	204.5	64.16	1005.	59.68
#1	.0021	.0247	-.0154	-.0475	.0014	.0002	.0010	.0002	.0000
#2	.0009	.0212	-.0197	-.0616	.0013	-.0001	.0004	.0001	.0001
#3	-.0007	.0168	-.0361	-.0484	.0016	.0001	.0017	-.0004	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB 7 Acquired: 4/2/2019 19:36:50 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0003**	**.0002**	**-.0031**	**.0003**	**.0001**	**.0005**
Stddev	.0001	.0009	.0001	.0018	.0006	.0005	.0012
%RSD	46.87	290.9	83.21	59.06	229.5	394.7	225.0
#1	.0002	-.0000	.0001	-.0037	-.0004	.0007	-.0002
#2	.0002	-.0014	.0000	-.0010	.0008	-.0001	.0019
#3	.0001	.0004	.0003	-.0045	.0004	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**154170.**	**28124.**	**4075.5**	**7506.2**
Stddev	1118.	202.	12.0	15.6
%RSD	.72543	.71856	.29566	.20818
#1	153050.	28218.	4063.1	7493.0
#2	155280.	27892.	4076.1	7502.2
#3	154170.	28262.	4087.2	7523.4

Zoom In Zoom Out

Sample Name: CRI Acquired: 4/2/2019 19:41:47 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2005**	**.0020**	**.0030**	**.0488**	**.0098**	**.0091**	**.0156**	**.0100**	**.0041**
Stddev	.0009	.0000	.0001	.0006	.0001	.0003	.0001	.0002	.0000
%RSD	.4572	2.163	3.217	1.132	1.346	2.976	.4458	2.103	1.176
#1	.2005	.0020	.0031	.0493	.0099	.0094	.0156	.0102	.0041
#2	.2014	.0020	.0029	.0488	.0098	.0089	.0156	.0100	.0042
#3	.1996	.0020	.0029	.0482	.0097	.0090	.0157	.0098	.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0501**	**.0207**	**.0077**	**.0109**	**.0035**	**.0084**	**.0071**	**.1963**	**5.006**
Stddev	.0004	.0003	.0005	.0013	.0013	.0022	.0003	.0042	.022
%RSD	.7300	1.272	5.932	11.77	36.42	26.76	3.630	2.120	.4305
#1	.0498	.0210	.0078	.0096	.0023	.0101	.0074	.2010	5.000
#2	.0499	.0206	.0072	.0108	.0034	.0058	.0069	.1931	5.029
#3	.0505	.0206	.0081	.0122	.0048	.0092	.0071	.1947	4.987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1002**	**5.109**	**4.809**	**4.873**	**.1016**	**.0205**	**.2033**	**.0105**	**.0098**
Stddev	.0026	.022	.007	.011	.0008	.0004	.0025	.0003	.0000
%RSD	2.615	.4315	.1537	.2239	.7821	1.999	1.211	2.408	.2695
#1	.0996	5.113	4.802	4.875	.1025	.0209	.2057	.0103	.0098
#2	.1031	5.128	4.817	4.883	.1015	.0204	.2032	.0108	.0098
#3	.0979	5.085	4.807	4.861	.1009	.0201	.2008	.0105	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CRI Acquired: 4/2/2019 19:41:47 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0101**	**.0500**	**.0086**	**.0490**	**.0233**	**.0525**	**.0485**
Stddev	.0003	.0011	.0001	.0016	.0004	.0012	.0012
%RSD	2.565	2.256	1.508	3.249	1.791	2.249	2.541
#1	.0100	.0503	.0087	.0477	.0235	.0530	.0497
#2	.0098	.0509	.0085	.0508	.0236	.0511	.0486
#3	.0103	.0487	.0087	.0485	.0229	.0532	.0472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**153730.**	**28380.**	**4064.7**	**7387.0**
Stddev	775.	95.	38.1	67.8
%RSD	.50438	.33609	.93633	.91745
#1	154160.	28442.	4023.9	7313.0
#2	154200.	28270.	4071.0	7401.8
#3	152840.	28429.	4099.2	7446.1

Zoom In Zoom Out

Sample Name: CRID Acquired: 4/2/2019 19:46:59 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**.0010**	**.0010**	**.0031**	**.0016**	**-.0001**	**.0031**	**.0041**	**-.0001**
Stddev	.0001	.0000	.0001	.0002	.0002	.0001	.0000	.0002	.0001
%RSD	2.566	4.606	8.019	5.133	15.11	93.82	1.217	4.966	65.90
#1	.0040	.0010	.0010	.0031	.0018	-.0001	.0031	.0043	-.0002
#2	.0042	.0010	.0010	.0030	.0014	-.0001	.0031	.0039	-.0001
#3	.0040	.0010	.0011	.0033	.0016	-.0003	.0031	.0041	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0103**	**.0025**	F **.0025**	**.0001**	**.0045**	**.0011**	**.0987**	**1.012**
Stddev	.0002	.0001	.0003	.0001	.0010	.0015	.0004	.0039	.004
%RSD	11.16	.7241	13.41	3.683	1253.	32.43	38.69	4.000	.3675
#1	.0018	.0102	.0021	.0024	.0010	.0031	.0013	.1026	1.014
#2	.0018	.0104	.0026	.0026	.0004	.0043	.0006	.0988	1.008
#3	.0022	.0103	.0028	.0025	-.0011	.0060	.0013	.0947	1.014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	None	Chk Pass	Chk Pass
Value				.0020					
Range				20.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.1195**	**1.914**	**.9349**	**.0010**	**.0001**	**-.0002**	**-.0003**	**-.0000**
Stddev	.0009	.0094	.027	.0046	.0006	.0001	.0006	.0004	.0001
%RSD	95.92	7.834	1.405	.4876	60.80	287.0	294.0	106.1	629.0
#1	-.0001	.1241	1.919	.9379	.0015	-.0001	.0004	-.0004	.0000
#2	-.0009	.1088	1.937	.9371	.0003	-.0000	-.0008	-.0006	.0000
#3	-.0019	.1258	1.884	.9296	.0011	.0002	-.0002	.0001	-.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: CRID Acquired: 4/2/2019 19:46:59 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0008**	**.0001**	**-.0001**	**.0012**	**.0000**	**-.0004**
Stddev	.0002	.0006	.0001	.0007	.0005	.0007	.0006
%RSD	440.7	83.57	105.9	979.3	39.88	12630.	165.0
#1	-.0002	.0010	-.0000	-.0007	.0009	.0005	-.0009
#2	.0002	.0000	.0002	.0006	.0017	-.0008	.0003
#3	.0002	.0013	.0001	-.0001	.0009	.0003	-.0006
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**153860.**	**28128.**	**4059.1**	**7453.6**
Stddev	181.	174.	8.9	16.7
%RSD	.11755	.61841	.21829	.22460
#1	153890.	27942.	4049.8	7435.3
#2	153670.	28286.	4067.5	7468.1
#3	154020.	28156.	4059.9	7457.4

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/2/2019 19:52:14 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0000**	**.0001**	**.0006**	**.0015**	**-.0008**	**-.0023**	**-.0003**	**.0026**
Stddev	.0001	.0000	.0001	.0003	.0002	.0002	.0004	.0002	.0011
%RSD	10.94	85.23	234.4	60.63	12.56	20.22	15.51	66.31	42.89
#1	.0009	.0000	-.0000	.0007	.0013	-.0010	-.0027	-.0001	.0013
#2	.0011	.0001	.0002	.0008	.0016	-.0007	-.0020	-.0004	.0033
#3	.0009	.0000	-.0000	.0002	.0016	-.0007	-.0022	-.0004	.0031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**-.0004**	**.0011**	**.0025**	**.0025**	**.0016**	**-.0007**	**496.1**	**381.1**
Stddev	.0001	.0001	.0022	.0010	.0012	.0055	.0034	1.3	.9
%RSD	11.66	15.39	196.2	41.33	46.81	332.8	526.0	.2610	.2331
#1	.0011	-.0004	.0001	.0033	.0037	.0027	-.0044	496.3	381.9
#2	.0013	-.0003	-.0004	.0013	.0026	-.0043	.0002	494.7	380.1
#3	.0010	-.0005	.0037	.0029	.0013	.0065	.0023	497.2	381.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**192.2**	**512.7**	**.0151**	**-.0234**	**.0012**	**-.0024**	**-.0021**	**-.0021**	**-.0070**
Stddev	3.8	1.8	.0408	.0080	.0012	.0001	.0005	.0006	.0001
%RSD	1.965	.3590	271.0	34.17	104.5	2.318	23.94	27.89	.8002
#1	188.0	510.8	.0443	-.0187	.0011	-.0024	-.0016	-.0028	-.0071
#2	195.2	512.9	-.0316	-.0326	.0024	-.0024	-.0022	-.0018	-.0069
#3	193.5	514.5	.0325	-.0188	.0000	-.0023	-.0026	-.0017	-.0070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ICSA Acquired: 4/2/2019 19:52:14 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0020**	**-.0010**	**-.0268**	**-.0055**	**-.0001**	**.0150**
Stddev	.0001	.0005	.0004	.0035	.0014	.0005	.0010
%RSD	16.42	24.47	39.87	12.95	25.24	322.5	6.463
#1	-.0005	.0016	-.0015	-.0307	-.0041	-.0006	.0151
#2	-.0006	.0018	-.0007	-.0240	-.0069	.0004	.0159
#3	-.0005	.0025	-.0009	-.0257	-.0056	-.0002	.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**136470.**	**27134.**	**3695.0**	**6154.0**
Stddev	179.	102.	6.3	7.8
%RSD	.13136	.37774	.17091	.12713
#1	136390.	27225.	3692.3	6145.1
#2	136680.	27153.	3690.4	6157.0
#3	136350.	27023.	3702.2	6159.8

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/2/2019 19:57:44 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5132**	**.4987**	**1.020**	**.4752**	**.4755**	**.5120**	**.4975**	**.9652**	**1.084**
Stddev	.0052	.0045	.006	.0037	.0041	.0032	.0024	.0045	.009
%RSD	1.021	.9093	.6050	.7773	.8582	.6256	.4839	.4632	.8520
#1	.5150	.5012	1.020	.4747	.4800	.5144	.4999	.9646	1.094
#2	.5073	.4935	1.027	.4791	.4745	.5132	.4975	.9699	1.081
#3	.5173	.5015	1.014	.4718	.4720	.5083	.4951	.9610	1.076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4919**	**.9350**	**1.061**	**.9811**	**.9612**	**1.053**	**1.070**	**506.9**	**380.3**
Stddev	.0029	.0067	.007	.0109	.0032	.004	.005	5.3	3.4
%RSD	.5954	.7130	.6391	1.107	.3335	.4161	.4943	1.036	.8905
#1	.4948	.9360	1.061	.9799	.9575	1.052	1.070	508.6	384.1
#2	.4918	.9411	1.067	.9924	.9631	1.058	1.074	501.0	379.4
#3	.4890	.9279	1.054	.9708	.9630	1.050	1.064	511.1	377.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**186.4**	**517.6**	**.0222**	**-.0174**	**.4867**	**.4834**	**.5176**	**.4590**	**.5643**
Stddev	.8	4.3	.0168	.0075	.0025	.0035	.0029	.0042	.0051
%RSD	.4485	.8403	75.46	43.22	.5223	.7215	.5604	.9230	.8989
#1	185.5	520.3	.0318	-.0192	.4858	.4838	.5196	.4610	.5667
#2	186.4	512.6	.0320	-.0238	.4896	.4867	.5188	.4619	.5585
#3	187.2	520.0	.0029	-.0091	.4847	.4798	.5142	.4541	.5677
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/2/2019 19:57:44 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4941**	**.4706**	**.5235**	**.4530**	**.4879**	**.5295**	**.5152**
Stddev	.0033	.0053	.0029	.0033	.0030	.0055	.0064
%RSD	.6716	1.136	.5608	.7341	.6059	1.038	1.243
#1	.4971	.4731	.5264	.4514	.4879	.5320	.5157
#2	.4947	.4742	.5235	.4568	.4909	.5232	.5213
#3	.4905	.4644	.5206	.4507	.4850	.5332	.5085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**136480.**	**26932.**	**3700.2**	**6176.8**
Stddev	572.	221.	17.2	20.8
%RSD	.41890	.82131	.46419	.33736
#1	135850.	26702.	3695.0	6170.7
#2	136610.	27143.	3686.2	6159.7
#3	136970.	26950.	3719.4	6200.0

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/2/2019 20:03:02 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.004**	**8.229**	**7.998**	**8.075**	**8.394**	**7.936**	**8.185**	**8.095**	**.5870**
Stddev	.098	.111	.029	.025	.013	.025	.025	.028	.0020
%RSD	1.225	1.343	.3635	.3044	.1586	.3081	.3061	.3448	.3424
#1	8.016	8.262	8.024	8.090	8.391	7.931	8.176	8.110	.5870
#2	8.096	8.320	7.967	8.047	8.383	7.914	8.166	8.063	.5850
#3	7.901	8.106	8.004	8.088	8.409	7.963	8.213	8.113	.5890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.265**	**8.492**	**8.131**	**8.345**	**8.171**	**8.206**	**8.307**	**.0161**	**-.1551**
Stddev	.017	.033	.020	.028	.029	.029	.024	.0109	.0011
%RSD	.1996	.3852	.2499	.3339	.3571	.3539	.2883	67.94	.7378
#1	8.250	8.529	8.150	8.348	8.192	8.227	8.328	.0286	-.1559
#2	8.263	8.467	8.110	8.316	8.137	8.173	8.281	.0109	-.1556
#3	8.283	8.481	8.134	8.371	8.183	8.218	8.311	.0087	-.1538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0729**	**.0244**	**.2097**	**.0054**	**8.232**	**8.415**	**25.58**	**8.569**	**8.170**
Stddev	.0026	.0146	.0163	.0071	.031	.031	.07	.024	.131
%RSD	3.604	59.82	7.790	132.0	.3744	.3727	.2654	.2826	1.606
#1	.0738	.0091	.1956	.0086	8.257	8.446	25.63	8.585	8.021
#2	.0750	.0259	.2058	-.0028	8.197	8.384	25.50	8.541	8.267
#3	.0699	.0382	.2276	.0104	8.241	8.415	25.61	8.581	8.223
Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/2/2019 20:03:02 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.226**	**8.649**	**7.967**	**97.88**	**8.146**	**8.006**	**8.101**
Stddev	.026	.030	.049	.34	.028	.014	.036
%RSD	.3126	.3435	.6087	.3450	.3458	.1804	.4414
#1	8.247	8.683	7.953	97.98	8.169	8.013	8.118
#2	8.233	8.629	8.022	97.50	8.114	8.015	8.060
#3	8.197	8.635	7.928	98.16	8.155	7.989	8.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**149150.**	**27930.**	**3935.1**	**7317.2**
Stddev	457.	166.	12.9	22.1
%RSD	.30636	.59452	.32682	.30268
#1	149590.	27938.	3921.8	7303.6
#2	149180.	27760.	3947.5	7342.8
#3	148680.	28092.	3936.0	7305.3

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/2/2019 20:08:54 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0002**	**-.0000**	**.0005**	**.0016**	**.0018**	**-.0017**	**-.0000**	**.0034**
Stddev	.0000	.0000	.0001	.0001	.0002	.0002	.0001	.0002	.0006
%RSD	2.718	17.66	269.2	15.08	14.40	13.44	5.453	516.2	17.80
#1	.0014	.0002	.0000	.0005	.0014	.0019	-.0016	.0001	.0028
#2	.0014	.0002	-.0000	.0005	.0016	.0016	-.0018	-.0003	.0034
#3	.0015	.0002	-.0002	.0006	.0019	.0020	-.0017	.0001	.0040
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0031**	**.0014**	**-.0007**	**.0044**	**.0041**	**-.0008**	**301.0**	**193.0**
Stddev	.0003	.0001	.0012	.0020	.0011	.0011	.0022	1.0	1.3
%RSD	40.35	1.971	79.93	303.0	24.67	25.96	260.4	.3181	.6601
#1	.0006	.0030	.0008	.0014	.0033	.0042	-.0032	300.2	191.6
#2	.0012	.0030	.0007	-.0027	.0055	.0030	.0011	302.0	193.3
#3	.0006	.0031	.0028	-.0007	.0045	.0051	-.0004	300.6	194.0
Check ?	None	None	None	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**195.1**	**309.4**	**200.6**	**204.2**	**.0038**	**-.0001**	**.0012**	**-.0003**	**-.0035**
Stddev	.6	.6	.4	3.3	.0005	.0002	.0004	.0012	.0001
%RSD	.3061	.2094	.1938	1.596	12.91	309.4	35.62	427.3	1.803
#1	195.4	309.2	201.0	204.1	.0035	-.0003	.0008	-.0015	-.0034
#2	194.4	308.9	200.2	200.9	.0035	.0001	.0011	-.0001	-.0035
#3	195.5	310.1	200.7	207.4	.0044	.0000	.0017	.0008	-.0036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: HSTD Acquired: 4/2/2019 20:08:54 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0009**	**-.0005**	**-.0245**	**-.0055**	**.0035**	**.0093**
Stddev	.0001	.0007	.0002	.0031	.0006	.0004	.0008
%RSD	289.2	73.24	40.20	12.63	10.94	12.67	8.303
#1	.0000	.0010	-.0007	-.0210	-.0059	.0032	.0089
#2	.0001	.0002	-.0005	-.0257	-.0059	.0040	.0102
#3	-.0000	.0016	-.0003	-.0268	-.0048	.0032	.0088
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**139110.**	**27143.**	**3745.6**	**6217.9**
Stddev	603.	95.	3.6	5.0
%RSD	.43370	.34854	.09713	.08038
#1	138650.	27148.	3745.3	6221.5
#2	138890.	27234.	3749.4	6220.1
#3	139790.	27045.	3742.1	6212.2

Zoom In Zoom Out

Sample Name: feconf Acquired: 4/2/2019 20:14:35 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0000**	**.0001**	**.0002**	**.0015**	**.0003**	**-.0018**	**-.0008**	**.0033**
Stddev	.0001	.0000	.0001	.0001	.0002	.0002	.0001	.0004	.0003
%RSD	9.661	16.26	103.5	28.67	15.51	58.99	5.844	48.20	8.557
#1	.0005	.0000	-.0000	.0002	.0018	.0002	-.0019	-.0008	.0031
#2	.0006	.0000	.0002	.0001	.0015	.0005	-.0018	-.0004	.0032
#3	.0005	.0000	.0001	.0002	.0014	.0002	-.0017	-.0011	.0036

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0043**	**.0001**	**.0012**	**.0060**	**.0054**	**-.0036**	**-.0049**	**-.0240**
Stddev	.0002	.0001	.0016	.0006	.0003	.0027	.0013	.0015	.0008
%RSD	241.1	2.197	2937.	47.14	5.718	49.77	35.89	29.89	3.450
#1	.0001	.0042	-.0015	.0013	.0056	.0024	-.0035	-.0060	-.0231
#2	-.0002	.0044	.0001	.0017	.0060	.0063	-.0049	-.0032	-.0246
#3	-.0000	.0043	.0016	.0006	.0063	.0075	-.0023	-.0054	-.0244

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **202.6**	**-.0213**	**-.0410**	**-.0498**	**-.0007**	**.0007**	**.0008**	**.0005**	**-.0000**
Stddev	1.5	.0069	.0247	.0120	.0004	.0001	.0013	.0004	.0001
%RSD	.7474	32.35	60.37	24.15	49.78	16.23	159.3	92.19	715.7
#1	200.9	-.0153	-.0357	-.0412	-.0006	.0008	.0020	-.0000	-.0000
#2	203.1	-.0288	-.0193	-.0446	-.0012	.0006	.0009	.0008	-.0001
#3	203.9	-.0197	-.0679	-.0635	-.0005	.0007	-.0005	.0007	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0006**	**.0003**	**-.0062**	**-.0063**	**.0001**	**.0025**
Stddev	.0001	.0006	.0001	.0009	.0006	.0004	.0017
%RSD	94.27	101.1	28.67	13.99	9.812	687.0	65.98
#1	.0002	.0005	.0002	-.0065	-.0057	-.0003	.0020
#2	.0000	.0013	.0004	-.0052	-.0070	-.0001	.0011
#3	.0001	.0001	.0004	-.0069	-.0063	.0005	.0044

Zoom In Zoom Out

Sample Name: feconf Acquired: 4/2/2019 20:14:35 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**152030.**	**27989.**	**4038.6**	**7573.1**
Stddev	658.	32.	21.0	37.0
%RSD	.43268	.11374	.52070	.48839
#1	152780.	27953.	4022.5	7545.2
#2	151760.	28001.	4030.8	7559.0
#3	151550.	28012.	4062.3	7615.0

Zoom In Zoom Out

Sample Name: crconf Acquired: 4/2/2019 20:19:58 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**-.0010**	**-.0012**	F **10.02**	**-.0006**	**.0001**	**-.0005**	**-.0002**
Stddev	.0000	.0000	.0002	.0001	.03	.0002	.0000	.0001	.0002
%RSD	40.27	47.32	16.55	10.99	.2506	31.05	18.77	20.95	82.34
#1	.0001	.0000	-.0009	-.0012	10.03	-.0004	.0002	-.0004	-.0003
#2	.0001	.0000	-.0008	-.0011	9.987	-.0008	.0001	-.0005	-.0004
#3	.0001	.0000	-.0011	-.0013	10.03	-.0007	.0001	-.0007	-.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0037**	**.0045**	**.0001**	**.0021**	**.0014**	**.0016**	**-.0002**	**-.0003**	**.0052**
Stddev	.0001	.0000	.0020	.0010	.0003	.0030	.0006	.0047	.0014
%RSD	2.595	.7889	1432.	47.28	18.99	181.1	376.4	1615.	26.63
#1	-.0036	.0045	.0004	.0025	.0012	-.0009	.0005	-.0056	.0044
#2	-.0038	.0045	-.0019	.0029	.0014	.0050	-.0007	.0033	.0068
#3	-.0036	.0045	.0020	.0010	.0017	.0008	-.0003	.0014	.0045

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0168**	**.0228**	**-.0381**	**-.0633**	**.0009**	**.0005**	**.0016**	**-.0015**	**.0001**
Stddev	.0007	.0068	.0188	.0045	.0003	.0002	.0011	.0001	.0001
%RSD	4.283	29.70	49.39	7.070	37.41	41.40	66.69	7.579	95.52
#1	.0168	.0150	-.0168	-.0622	.0013	.0006	.0020	-.0015	.0001
#2	.0175	.0259	-.0449	-.0596	.0008	.0006	.0004	-.0013	.0000
#3	.0161	.0274	-.0525	-.0683	.0006	.0003	.0024	-.0016	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0031**	**-.0079**	**.0012**	**-.0000**	**-.0000**	**-.0005**
Stddev	.0001	.0003	.0002	.0013	.0005	.0005	.0002
%RSD	90.32	8.526	2.583	111.2	1084.	2939.	51.07
#1	-.0000	.0028	-.0081	.0027	.0004	.0006	-.0005
#2	-.0002	.0031	-.0077	.0005	-.0005	-.0002	-.0002
#3	-.0001	.0033	-.0079	.0003	-.0000	-.0004	-.0007

Zoom In Zoom Out

Sample Name: crconf Acquired: 4/2/2019 20:19:58 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**156650.**	**28568.**	**4048.9**	**7563.3**
Stddev	675.	129.	4.7	9.5
%RSD	.43118	.45101	.11633	.12565
#1	156300.	28455.	4046.7	7554.0
#2	157430.	28541.	4054.3	7573.0
#3	156230.	28708.	4045.6	7562.8

Zoom In Zoom Out

Sample Name: asconf Acquired: 4/2/2019 20:25:15 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**-.0003**	**.0000**	**-.0001**	**-.0001**	**.0000**	**-.0000**	**-.0002**
Stddev	.0001	.0000	.0002	.0001	.0001	.0004	.0000	.0002	.0002
%RSD	113.0	71.35	51.99	220.1	48.40	319.1	229.4	1329.	92.61
#1	.0002	-.0000	-.0002	-.0000	-.0002	.0000	-.0000	-.0002	-.0001
#2	.0001	-.0000	-.0005	.0001	-.0001	.0002	.0000	-.0000	-.0001
#3	-.0000	-.0000	-.0003	.0000	-.0001	-.0005	.0000	.0002	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0024**	**5.321**	**.0005**	**-.0002**	**-.0003**	**.0007**	**-.0052**	**-.0085**
Stddev	.0002	.0001	.025	.0013	.0006	.0007	.0008	.0070	.0022
%RSD	66.08	3.968	.4766	284.0	321.6	280.2	108.6	134.9	25.80
#1	-.0004	-.0024	5.317	-.0010	-.0009	.0006	.0016	-.0085	-.0063
#2	-.0002	-.0024	5.347	.0012	.0003	-.0008	.0002	-.0100	-.0106
#3	-.0001	-.0023	5.297	.0012	.0000	-.0005	.0003	.0029	-.0087

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**.0126**	**-.0041**	**-.0766**	**.0004**	**.0001**	**.0020**	**-.0011**	**-.0000**
Stddev	.0007	.0027	.0194	.0078	.0004	.0001	.0006	.0007	.0000
%RSD	59.74	21.51	476.7	10.16	94.34	154.8	29.20	60.84	1196.
#1	-.0009	.0130	-.0160	-.0757	.0005	-.0000	.0026	-.0015	-.0000
#2	-.0019	.0151	-.0145	-.0847	-.0000	.0001	.0017	-.0014	.0000
#3	-.0006	.0097	.0183	-.0693	.0007	.0001	.0016	-.0003	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0019**	**-.0000**	**-.0017**	**.0001**	**.0004**	**.0001**
Stddev	.0001	.0007	.0001	.0014	.0009	.0003	.0004
%RSD	177.9	35.58	2454.	79.13	774.5	75.94	381.3
#1	.0000	.0015	.0000	-.0029	-.0005	.0004	.0004
#2	-.0000	.0015	.0000	-.0002	.0012	.0001	-.0003
#3	.0002	.0027	-.0001	-.0020	-.0004	.0007	.0002

Zoom In Zoom Out

Sample Name: asconf Acquired: 4/2/2019 20:25:15 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**154240.**	**27919.**	**4079.7**	**7510.2**
Stddev	753.	149.	18.3	38.6
%RSD	.48846	.53432	.44895	.51423
#1	154470.	27869.	4079.1	7503.9
#2	153400.	27801.	4061.7	7475.1
#3	154850.	28087.	4098.4	7551.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 20:30:29 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.043**	**2.059**	**2.023**	**2.016**	**2.041**	**1.993**	**2.085**	**2.051**	**.2488**
Stddev	.002	.001	.012	.007	.005	.009	.006	.008	.0004
%RSD	.1132	.0306	.6092	.3633	.2438	.4648	.2862	.3915	.1595
#1	2.045	2.060	2.034	2.022	2.042	2.000	2.088	2.057	.2486
#2	2.040	2.059	2.026	2.018	2.045	1.996	2.089	2.054	.2492
#3	2.043	2.059	2.010	2.008	2.035	1.983	2.078	2.042	.2485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.030**	**2.048**	**1.999**	**2.083**	**2.047**	**1.998**	**2.029**	**39.80**	**40.39**
Stddev	.009	.014	.009	.013	.008	.013	.010	.10	.12
%RSD	.4307	.6650	.4376	.6163	.4065	.6715	.4823	.2421	.2967
#1	2.034	2.059	2.004	2.094	2.054	2.010	2.038	39.91	40.52
#2	2.036	2.052	2.003	2.084	2.050	2.000	2.031	39.76	40.35
#3	2.020	2.033	1.989	2.069	2.038	1.983	2.018	39.73	40.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.62**	**40.22**	**39.59**	**40.15**	**2.045**	**2.045**	**5.181**	**2.057**	**2.053**
Stddev	.13	.06	.02	.06	.013	.012	.026	.018	.003
%RSD	.3090	.1456	.0473	.1497	.6324	.5747	.4990	.8809	.1585
#1	40.49	40.28	39.59	40.08	2.057	2.055	5.202	2.071	2.051
#2	40.61	40.16	39.61	40.17	2.047	2.048	5.190	2.063	2.051
#3	40.74	40.22	39.57	40.19	2.031	2.032	5.152	2.037	2.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 20:30:29 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.050**	**2.027**	**2.034**	**1.977**	**2.022**	**2.055**	**1.994**
Stddev	.004	.013	.008	.013	.011	.002	.015
%RSD	.1900	.6277	.3741	.6409	.5388	.1096	.7250
#1	2.052	2.039	2.040	1.991	2.030	2.057	2.009
#2	2.052	2.028	2.037	1.973	2.026	2.056	1.992
#3	2.045	2.014	2.025	1.966	2.009	2.053	1.980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**147170.**	**27674.**	**3966.9**	**6853.5**
Stddev	414.	63.	23.2	30.0
%RSD	.28134	.22848	.58587	.43820
#1	147050.	27687.	3948.8	6830.1
#2	146840.	27729.	3958.9	6843.0
#3	147640.	27605.	3993.1	6887.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 20:35:20 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**-.0000**	**.0001**	**.0000**	**.0001**	**.0001**	**-.0001**	**-.0002**
Stddev	.0001	.0000	.0003	.0001	.0001	.0003	.0000	.0003	.0002
%RSD	243.5	14.11	2993.	81.08	278.0	206.4	45.49	369.3	117.9
#1	.0001	.0000	-.0002	.0001	.0001	.0002	.0001	.0001	-.0002
#2	.0001	.0000	-.0001	.0002	.0000	.0003	.0000	-.0005	.0000
#3	-.0001	.0000	.0003	.0001	-.0001	-.0002	.0000	.0001	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0002**	**-.0001**	**-.0001**	**-.0002**	**-.0002**	**.0014**	**-.0019**	**.0001**
Stddev	.0003	.0001	.0012	.0013	.0003	.0013	.0013	.0041	.0007
%RSD	548.2	27.63	899.9	936.6	161.1	678.0	91.11	217.5	1457.
#1	.0003	.0002	.0007	.0013	-.0004	.0004	.0017	-.0060	.0009
#2	.0001	.0002	.0004	-.0010	-.0004	.0007	.0025	-.0019	-.0003
#3	-.0003	.0001	-.0015	-.0007	.0002	-.0017	.0000	.0022	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0167**	**-.0220**	**-.0781**	**.0012**	**-.0000**	**.0013**	**-.0000**	**.0000**
Stddev	.0009	.0065	.0348	.0042	.0005	.0001	.0002	.0007	.0000
%RSD	89.74	39.03	158.0	5.316	41.97	5576.	17.69	36060.	326.6
#1	.0000	.0096	.0078	-.0788	.0010	.0002	.0012	.0002	.0000
#2	-.0013	.0179	-.0602	-.0736	.0018	-.0001	.0016	.0006	.0000
#3	-.0017	.0224	-.0137	-.0818	.0009	-.0000	.0012	-.0008	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 20:35:20 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0000**	**.0002**	**-.0001**	**.0006**	**.0002**	**.0005**
Stddev	.0001	.0006	.0001	.0007	.0008	.0008	.0007
%RSD	366.5	1985.	34.63	1275.	138.6	360.6	129.8
#1	-.0000	-.0005	.0002	-.0008	.0003	.0000	.0009
#2	.0000	.0006	.0002	.0001	.0015	-.0005	.0010
#3	-.0000	-.0002	.0001	.0006	-.0001	.0011	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**155090.**	**27988.**	**4098.1**	**7543.2**
Stddev	226.	100.	13.1	15.2
%RSD	.14584	.35685	.31976	.20187
#1	154910.	28071.	4083.8	7526.9
#2	155030.	28014.	4100.9	7545.4
#3	155340.	27877.	4109.5	7557.2

Zoom In Zoom Out

Sample Name: MP13762-MB1 Acquired: 4/2/2019 20:40:35 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0000**	**-.0001**	**-.0000**	**.0002**	**.0000**	**.0000**	**-.0003**	**-.0004**
Stddev	.0001	.0000	.0002	.0000	.0002	.0003	.0000	.0001	.0005
%RSD	451.7	294.0	248.0	1229.	64.68	541.0	29.58	23.58	111.4
#1	.0001	-.0001	-.0002	-.0000	.0004	.0004	.0001	-.0002	-.0002
#2	-.0001	-.0000	.0001	.0000	.0001	-.0001	.0000	-.0003	-.0010
#3	-.0001	.0000	-.0001	-.0000	.0001	-.0001	.0000	-.0002	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0005**	**-.0005**	**-.0004**	**.0006**	**-.0010**	**.0022**	**-.0029**	**.0005**
Stddev	.0002	.0000	.0004	.0003	.0008	.0001	.0003	.0047	.0005
%RSD	131.6	7.318	70.89	77.88	147.4	13.59	14.52	161.5	92.19
#1	.0001	.0005	-.0002	-.0008	.0013	-.0009	.0019	.0001	.0001
#2	-.0002	.0006	-.0004	-.0001	.0008	-.0009	.0025	-.0084	.0010
#3	-.0002	.0005	-.0009	-.0004	-.0004	-.0011	.0022	-.0005	.0004

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0099**	**-.0077**	**-.0789**	**.0005**	**.0001**	**.0082**	**.0103**	**-.0000**
Stddev	.0004	.0131	.0210	.0038	.0003	.0002	.0004	.0003	.0000
%RSD	16.29	132.8	273.4	4.764	61.47	174.5	4.531	2.787	249.4
#1	.0020	.0080	.0070	-.0801	.0003	-.0001	.0083	.0100	-.0000
#2	.0028	.0238	.0017	-.0820	.0009	.0003	.0085	.0103	-.0000
#3	.0025	-.0022	-.0317	-.0747	.0004	.0001	.0078	.0106	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0005**	**.0001**	**.0020**	**.0002**	**.0002**	**.0030**
Stddev	.0001	.0009	.0001	.0022	.0011	.0002	.0010
%RSD	176.3	159.4	114.5	111.9	617.7	93.36	35.06
#1	.0001	.0005	.0001	.0018	-.0008	.0000	.0042
#2	-.0001	-.0003	.0003	.0042	.0013	.0002	.0023
#3	.0001	.0014	-.0000	-.0001	.0001	.0005	.0025

Zoom In Zoom Out

Sample Name: MP13762-MB1 Acquired: 4/2/2019 20:40:35 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**157070.**	**28419.**	**4089.8**	**7533.7**
Stddev	738.	469.	30.1	45.6
%RSD	.46983	1.6509	.73552	.60554
#1	157770.	28642.	4055.6	7481.0
#2	156300.	28736.	4101.6	7559.1
#3	157130.	27880.	4112.2	7561.0

Zoom In Zoom Out

Sample Name: MP13762-B1 Acquired: 4/2/2019 20:45:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.930**	**1.949**	**1.925**	**1.912**	**1.919**	**1.872**	**1.962**	**1.945**
Stddev	.001	.002	.011	.010	.004	.006	.003	.012
%RSD	.0677	.0939	.5521	.5291	.2243	.3078	.1690	.6232
#1	1.930	1.948	1.917	1.906	1.918	1.867	1.960	1.939
#2	1.932	1.951	1.921	1.906	1.915	1.871	1.960	1.936
#3	1.929	1.948	1.937	1.923	1.923	1.878	1.966	1.959

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2405**	**1.907**	**1.946**	**1.908**	**2.001**	**1.943**	**1.892**	**1.957**
Stddev	.0009	.005	.011	.010	.004	.010	.009	.011
%RSD	.3811	.2905	.5426	.5119	.1874	.4946	.4951	.5566
#1	.2415	1.903	1.938	1.900	1.998	1.936	1.884	1.950
#2	.2396	1.906	1.943	1.905	2.000	1.939	1.890	1.952
#3	.2405	1.913	1.958	1.919	2.005	1.954	1.902	1.970

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.06**	**24.46**	**24.81**	**24.30**	**23.82**	**24.30**	**1.920**	**1.984**
Stddev	.02	.03	.09	.07	.01	.03	.016	.012
%RSD	.0834	.1391	.3599	.2903	.0335	.1165	.8146	.6003
#1	24.03	24.43	24.72	24.23	23.83	24.28	1.914	1.973
#2	24.07	24.49	24.90	24.37	23.83	24.34	1.909	1.982
#3	24.06	24.47	24.81	24.29	23.82	24.29	1.938	1.997

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0044**	**1.997**	**1.937**	**1.943**	**1.922**	**1.915**	F **-.0547**	**.0358**
Stddev	.0009	.008	.003	.005	.012	.003	.0039	.0007
%RSD	19.73	.4171	.1681	.2618	.6323	.1592	7.080	1.990
#1	-.0053	1.990	1.936	1.941	1.912	1.912	-.0522	.0350
#2	-.0037	1.995	1.941	1.940	1.920	1.915	-.0528	.0358
#3	-.0041	2.006	1.934	1.949	1.936	1.918	-.0592	.0364

Zoom In Zoom Out

Sample Name: MP13762-B1 Acquired: 4/2/2019 20:45:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0002**	**1.888**
Stddev	.0003	.011
%RSD	115.9	.5619
#1	.0000	1.876
#2	-.0005	1.896
#3	-.0002	1.892

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**151670.**	**28385.**	**3997.5**	**7024.2**
Stddev	433.	111.	26.1	39.6
%RSD	.28560	.39012	.65245	.56311
#1	151980.	28508.	4021.1	7053.7
#2	151850.	28293.	4001.8	7039.7
#3	151170.	28354.	3969.5	6979.2

Zoom In Zoom Out

Sample Name: MP13762-S1 Acquired: 4/2/2019 20:50:41 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.023**	**1.939**	**2.199**	**1.954**	**1.905**	**2.048**	**2.051**	**1.993**	**.3018**
Stddev	.003	.004	.004	.003	.006	.007	.008	.004	.0005
%RSD	.1598	.1873	.1759	.1536	.3034	.3579	.3758	.2264	.1645
#1	2.025	1.941	2.196	1.951	1.912	2.056	2.060	1.988	.3015
#2	2.025	1.942	2.204	1.955	1.902	2.045	2.046	1.994	.3024
#3	2.019	1.935	2.199	1.957	1.901	2.042	2.046	1.997	.3016

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.952**	**1.969**	**2.208**	**1.845**	**1.941**	**2.151**	**2.187**	**25.85**	**183.2**
Stddev	.007	.003	.005	.002	.002	.008	.002	.04	2.5
%RSD	.3755	.1442	.2212	.1168	.1179	.3524	.0877	.1385	1.383
#1	1.961	1.971	2.212	1.843	1.942	2.149	2.185	25.85	184.9
#2	1.949	1.965	2.208	1.847	1.939	2.160	2.189	25.89	184.5
#3	1.947	1.970	2.203	1.846	1.943	2.145	2.186	25.82	180.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.29**	F **504.2**	**176.2**	*****	**3.566**	**1.961**	**2.042**	**1.892**	**4.769**
Stddev	.09	1.1	.7	-----	.008	.002	.007	.002	.019
%RSD	.3723	.2198	.4208	-----	.2352	.1178	.3535	.0950	.3934
#1	25.39	505.2	176.2	-----	3.561	1.960	2.043	1.891	4.788
#2	25.28	504.4	176.9	-----	3.576	1.964	2.049	1.894	4.769
#3	25.20	503.0	175.4	-----	3.562	1.960	2.035	1.890	4.750

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**1.921**	**2.010**	F **335.0**	**.0362**	**.0977**	**2.263**
Stddev	.006	.001	.007	1.1	.0008	.0022	.009
%RSD	.3206	.0734	.3596	.3274	2.312	2.300	.3858
#1	2.011	1.923	2.018	334.6	.0360	.0951	2.264
#2	2.000	1.921	2.009	336.2	.0355	.0992	2.271
#3	2.000	1.920	2.004	334.1	.0372	.0988	2.254

Zoom In Zoom Out

Sample Name: MP13762-S1 Acquired: 4/2/2019 20:50:41 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**118700.**	**25556.**	**3217.0**	**5120.7**
Stddev	568.	117.	2.8	3.1
%RSD	.47829	.45796	.08615	.05993
#1	118070.	25530.	3214.7	5123.3
#2	119150.	25453.	3216.1	5117.3
#3	118890.	25683.	3220.1	5121.4

Zoom In Zoom Out

Sample Name: MP13762-S2 Acquired: 4/2/2019 20:55:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.001**	**1.917**	**2.189**	**1.952**	**1.898**	**2.031**	**2.038**	**1.991**	**.2924**
Stddev	.007	.009	.017	.012	.008	.006	.008	.011	.0003
%RSD	.3536	.4940	.7791	.6158	.4317	.2871	.3907	.5405	.0920
#1	2.008	1.926	2.208	1.964	1.894	2.028	2.035	2.001	.2923
#2	2.000	1.918	2.186	1.953	1.892	2.026	2.032	1.991	.2922
#3	1.994	1.907	2.174	1.940	1.907	2.037	2.047	1.979	.2927

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.942**	**1.956**	**2.158**	**1.843**	**1.938**	**2.141**	**2.130**	**25.18**	**175.6**
Stddev	.006	.016	.012	.004	.012	.018	.018	.09	.5
%RSD	.3321	.8193	.5718	.1933	.6261	.8390	.8480	.3465	.2765
#1	1.939	1.970	2.172	1.847	1.950	2.160	2.150	25.27	176.0
#2	1.938	1.961	2.154	1.842	1.939	2.136	2.125	25.18	175.6
#3	1.950	1.939	2.148	1.841	1.926	2.125	2.116	25.09	175.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.58**	F **480.2**	**166.9**	*****	**3.500**	**1.916**	**1.973**	**1.843**	**4.603**
Stddev	.14	2.0	.7	-----	.027	.014	.014	.011	.026
%RSD	.5685	.4268	.4035	-----	.7591	.7197	.7210	.5811	.5636
#1	24.73	481.8	167.6	-----	3.529	1.929	1.988	1.853	4.628
#2	24.56	480.9	166.9	-----	3.494	1.916	1.970	1.844	4.577
#3	24.45	477.9	166.3	-----	3.476	1.902	1.960	1.832	4.605

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.950**	**1.894**	**1.950**	F **321.1**	**.0372**	**.0852**	**2.251**
Stddev	.007	.017	.007	1.6	.0016	.0010	.011
%RSD	.3496	.9116	.3619	.4871	4.363	1.218	.4973
#1	1.947	1.912	1.947	322.8	.0362	.0855	2.263
#2	1.945	1.893	1.944	320.5	.0391	.0860	2.245
#3	1.958	1.878	1.958	319.9	.0363	.0840	2.243

Zoom In Zoom Out

Sample Name: MP13762-S2 Acquired: 4/2/2019 20:55:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**119800.**	**25814.**	**3244.3**	**5160.7**
Stddev	386.	91.	23.8	29.2
%RSD	.32229	.35154	.73305	.56666
#1	119760.	25734.	3220.0	5130.0
#2	120200.	25794.	3245.6	5163.7
#3	119430.	25913.	3267.5	5188.2

Zoom In Zoom Out

Sample Name: JC85326-1 Acquired: 4/2/2019 21:01:00 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0293**	**.0001**	**.0003**	**.0000**	**.0010**	**.0127**	**.0777**	**.0020**
Stddev	.0003	.0000	.0000	.0002	.0003	.0003	.0004	.0002
%RSD	.9620	18.96	9.768	15470.	32.75	2.405	.5717	8.786
#1	.0293	.0001	.0003	-.0002	.0013	.0126	.0777	.0020
#2	.0290	.0001	.0003	.0001	.0010	.0131	.0781	.0019
#3	.0296	.0002	.0004	.0001	.0007	.0125	.0773	.0022

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0022**	**.0127**	**-.0011**	**.0092**	F **-.0073**	**.0030**	**.0016**
Stddev	.0003	.0003	.0004	.0011	.0021	.0010	.0016	.0012
%RSD	21.69	13.28	3.427	97.79	22.70	13.30	52.86	76.75
#1	-.0010	.0021	.0123	-.0004	.0116	-.0064	.0034	.0029
#2	-.0013	.0025	.0126	-.0023	.0087	-.0071	.0012	.0015
#3	-.0016	.0020	.0131	-.0006	.0075	-.0084	.0043	.0004

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1191**	**151.0**	**.2127**	F **456.3**	**141.3**	*****	**1.584**	**.0039**
Stddev	.0055	1.3	.0006	3.7	1.0	-----	.019	.0002
%RSD	4.631	.8451	.2593	.8078	.6938	-----	1.207	4.040
#1	.1127	151.1	.2123	457.9	141.9	-----	1.570	.0041
#2	.1223	149.8	.2134	452.1	140.2	-----	1.575	.0038
#3	.1222	152.3	.2125	459.0	141.8	-----	1.606	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.857**	**-.0010**	**2.661**	**.0039**	**.0034**	**-.0014**	F **328.7**	**.0021**
Stddev	.026	.0008	.030	.0004	.0005	.0001	5.0	.0002
%RSD	1.421	80.89	1.116	10.84	15.35	4.352	1.523	11.10
#1	1.842	-.0002	2.657	.0034	.0039	-.0014	326.1	.0018
#2	1.841	-.0010	2.633	.0041	.0034	-.0014	325.6	.0023
#3	1.887	-.0019	2.692	.0043	.0028	-.0013	334.5	.0021

Zoom In Zoom Out

Sample Name: JC85326-1 Acquired: 4/2/2019 21:01:00 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0794**	**.0949**
Stddev	.0004	.0004
%RSD	.5400	.4450
#1	.0798	.0950
#2	.0790	.0945
#3	.0796	.0953

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117160.**	**25486.**	**3160.9**	**5069.6**
Stddev	703.	322.	40.5	64.6
%RSD	.59981	1.2638	1.2819	1.2735
#1	117260.	25413.	3189.0	5115.4
#2	116420.	25838.	3179.3	5097.5
#3	117810.	25206.	3114.5	4995.7

Zoom In Zoom Out

Sample Name: MP13762-SD1 Acquired: 4/2/2019 21:06:30 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0296**	**-.0000**	**.0005**	**.0002**	**-.0002**	**.0144**	**.0776**	**.0045**	**-.0051**
Stddev	.0011	.0000	.0007	.0010	.0014	.0005	.0002	.0009	.0016
%RSD	3.748	262.1	137.8	525.7	940.0	3.388	.3128	20.03	31.59
#1	.0289	-.0000	.0009	-.0007	-.0004	.0139	.0778	.0054	-.0036
#2	.0289	-.0000	-.0003	.0000	-.0014	.0144	.0776	.0036	-.0050
#3	.0309	.0000	.0010	.0013	.0014	.0149	.0774	.0046	-.0068

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0125**	**-.0007**	**.0118**	**-.0028**	**-.0037**	**.0028**	**.1111**	**154.9**
Stddev	.0003	.0004	.0053	.0058	.0053	.0066	.0028	.0064	.4
%RSD	8.761	3.213	783.1	49.19	191.5	176.2	99.64	5.718	.2503
#1	.0042	.0126	.0053	.0054	-.0077	-.0103	.0053	.1149	155.3
#2	.0040	.0129	-.0047	.0168	.0029	-.0039	-.0002	.1147	154.6
#3	.0035	.0121	-.0026	.0132	-.0035	.0029	.0034	.1038	154.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2094**	**436.1**	**135.2**	F **3171.**	**1.548**	**.0043**	**1.730**	**.0004**	**2.629**
Stddev	.0111	.8	.2	14.	.002	.0004	.004	.0003	.002
%RSD	5.322	.1913	.1406	.4355	.1346	8.678	.2545	80.10	.0763
#1	.2078	436.9	135.0	3185.	1.549	.0039	1.732	.0005	2.629
#2	.2213	435.2	135.1	3170.	1.545	.0043	1.732	.0007	2.631
#3	.1992	436.2	135.4	3157.	1.549	.0046	1.724	.0001	2.628

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**.0039**	**-.0030**	**310.1**	**.0081**	**.0781**	**.0925**
Stddev	.0008	.0034	.0010	.7	.0027	.0045	.0093
%RSD	13.09	87.76	34.42	.2317	33.15	5.735	10.00
#1	.0053	.0049	-.0042	310.9	.0083	.0732	.0925
#2	.0060	.0067	-.0024	309.6	.0106	.0819	.1018
#3	.0068	.0001	-.0024	309.7	.0053	.0791	.0833

Zoom In Zoom Out

Sample Name: MP13762-SD1 Acquired: 4/2/2019 21:06:30 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**135000.**	**26750.**	**3639.9**	**6073.4**
Stddev	565.	38.	9.4	7.6
%RSD	.41875	.14090	.25728	.12434
#1	134430.	26754.	3639.1	6069.6
#2	135020.	26786.	3631.0	6068.4
#3	135560.	26711.	3649.7	6082.1

Zoom In Zoom Out

Sample Name: JC85326-2 Acquired: 4/2/2019 21:11:49 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0280**	**.0000**	**.0002**	**.0004**	**.0010**	**.0070**	**.0746**	**.0021**	**-.0011**
Stddev	.0002	.0000	.0002	.0003	.0001	.0001	.0003	.0002	.0003
%RSD	.7596	97.05	79.52	71.86	13.33	2.147	.3436	11.44	30.38
#1	.0282	.0001	.0001	.0001	.0010	.0069	.0744	.0023	-.0013
#2	.0278	-.0000	.0004	.0005	.0008	.0068	.0748	.0019	-.0012
#3	.0280	.0000	.0001	.0005	.0010	.0071	.0748	.0019	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0208**	**-.0013**	**.0094**	**-.0026**	**.0051**	**.0037**	**.1177**	**159.5**
Stddev	.0003	.0002	.0006	.0017	.0010	.0023	.0005	.0071	.8
%RSD	15.79	.9584	50.21	18.16	39.10	45.70	12.48	6.022	.5111
#1	.0017	.0210	-.0020	.0088	-.0025	.0031	.0039	.1179	159.4
#2	.0020	.0206	-.0010	.0113	-.0037	.0077	.0041	.1106	158.8
#3	.0023	.0210	-.0008	.0081	-.0017	.0046	.0032	.1248	160.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1996**	F **488.9**	**152.4**	*****	**1.685**	**.0042**	**1.805**	**-.0008**	**2.868**
Stddev	.0024	2.3	.6	-----	.015	.0001	.013	.0007	.017
%RSD	1.185	.4801	.3966	-----	.8960	1.525	.7318	92.22	.5955
#1	.1995	488.3	153.0	-----	1.695	.0043	1.813	.0000	2.849
#2	.2020	486.9	151.8	-----	1.668	.0042	1.790	-.0010	2.871
#3	.1973	491.5	152.5	-----	1.692	.0043	1.813	-.0013	2.882

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038**	**.0023**	**-.0014**	F **349.9**	**.0046**	**.0829**	**.0942**
Stddev	.0006	.0010	.0001	2.2	.0001	.0007	.0007
%RSD	15.52	42.08	7.436	.6354	2.186	.8297	.7507
#1	.0032	.0033	-.0016	351.6	.0045	.0829	.0934
#2	.0043	.0013	-.0014	347.4	.0046	.0822	.0946
#3	.0039	.0025	-.0013	350.5	.0047	.0835	.0945

Zoom In Zoom Out

Sample Name: JC85326-2 Acquired: 4/2/2019 21:11:49 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117420.**	**25315.**	**3190.5**	**5092.3**
Stddev	247.	166.	18.9	30.8
%RSD	.20995	.65756	.59172	.60426
#1	117670.	25335.	3177.6	5073.4
#2	117390.	25471.	3212.2	5127.8
#3	117180.	25139.	3181.8	5075.7

Zoom In Zoom Out

Sample Name: JC85326-3 Acquired: 4/2/2019 21:17:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0315**	**.0000**	**.0001**	**-.0000**	**.0017**	**.0093**	**.0804**	**.0022**
Stddev	.0003	.0000	.0001	.0001	.0003	.0002	.0005	.0002
%RSD	.8016	165.1	68.85	463.3	16.23	2.147	.6092	7.795
#1	.0312	-.0000	.0002	.0001	.0017	.0095	.0798	.0024
#2	.0316	.0000	.0002	-.0001	.0014	.0094	.0807	.0020
#3	.0317	.0001	.0000	-.0000	.0019	.0091	.0806	.0021

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0021**	**.0203**	**-.0011**	**.0068**	F **-.0035**	**-.0008**	**.0037**
Stddev	.0003	.0002	.0003	.0003	.0004	.0009	.0026	.0008
%RSD	31.46	11.53	1.626	30.20	5.217	24.22	309.2	21.81
#1	-.0009	.0024	.0205	-.0012	.0064	-.0030	-.0032	.0046
#2	-.0011	.0019	.0200	-.0013	.0071	-.0045	-.0013	.0031
#3	-.0006	.0020	.0206	-.0007	.0069	-.0031	.0020	.0035

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1330**	**120.9**	**.2882**	F **345.9**	**109.3**	*****	**1.215**	**.0033**
Stddev	.0044	.8	.0026	2.7	.5	-----	.002	.0003
%RSD	3.332	.6408	.9187	.7749	.4119	-----	.1744	8.882
#1	.1285	120.3	.2860	342.8	108.9	-----	1.217	.0032
#2	.1329	121.7	.2876	347.3	109.8	-----	1.215	.0030
#3	.1374	120.6	.2912	347.6	109.4	-----	1.213	.0036

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.084**	**.0015**	**2.085**	**.0046**	**.0007**	**-.0016**	F **251.8**	**.0028**
Stddev	.002	.0003	.009	.0004	.0003	.0001	1.1	.0013
%RSD	.1127	22.12	.4194	7.742	48.33	5.710	.4291	46.29
#1	2.082	.0012	2.075	.0044	.0009	-.0017	251.8	.0037
#2	2.084	.0015	2.092	.0044	.0008	-.0016	252.8	.0033
#3	2.087	.0019	2.089	.0050	.0003	-.0015	250.7	.0013

Zoom In Zoom Out

Sample Name: JC85326-3 Acquired: 4/2/2019 21:17:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0562**	**.0940**
Stddev	.0007	.0014
%RSD	1.176	1.505
#1	.0563	.0955
#2	.0555	.0938
#3	.0568	.0927

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**120920.**	**25909.**	**3272.1**	**5269.5**
Stddev	734.	176.	4.3	3.1
%RSD	.60738	.67770	.13273	.05943
#1	121720.	26107.	3271.9	5266.2
#2	120760.	25771.	3267.8	5272.5
#3	120270.	25850.	3276.5	5269.8

Zoom In Zoom Out

Sample Name: JC85326-4 Acquired: 4/2/2019 21:22:41 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0321**	**.0000**	**.0001**	**-.0000**	**.0015**	**.0194**	**.0814**	**.0016**
Stddev	.0001	.0000	.0000	.0003	.0004	.0000	.0001	.0002
%RSD	.1991	143.6	58.91	1303.	24.85	.1253	.1508	10.18
#1	.0322	.0000	.0000	-.0000	.0020	.0195	.0813	.0015
#2	.0321	.0000	.0001	.0002	.0014	.0194	.0816	.0018
#3	.0321	-.0000	.0001	-.0003	.0013	.0194	.0814	.0015

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**.0015**	**.0128**	**-.0006**	**.0055**	F **-.0036**	**-.0000**	**.0026**
Stddev	.0005	.0001	.0001	.0008	.0024	.0013	.0036	.0012
%RSD	44.69	7.715	1.089	145.7	43.32	34.80	10880.	46.25
#1	-.0016	.0016	.0127	-.0006	.0028	-.0023	-.0042	.0013
#2	-.0014	.0016	.0127	.0003	.0072	-.0039	.0025	.0036
#3	-.0006	.0014	.0129	-.0014	.0065	-.0047	.0016	.0028

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1318**	**114.4**	**.3015**	F **318.9**	**101.0**	*****	**1.127**	**.0029**
Stddev	.0045	.7	.0012	.5	.3	-----	.004	.0001
%RSD	3.413	.5914	.3883	.1488	.3216	-----	.3426	4.802
#1	.1267	113.6	.3003	318.3	101.1	-----	1.125	.0028
#2	.1340	114.9	.3017	319.1	100.6	-----	1.125	.0030
#3	.1348	114.8	.3026	319.2	101.3	-----	1.132	.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.176**	**-.0012**	**1.928**	**.0052**	**.0016**	**-.0017**	F **232.6**	**.0031**
Stddev	.009	.0006	.004	.0024	.0005	.0001	.6	.0007
%RSD	.3940	49.72	.2218	47.00	31.83	4.721	.2365	23.01
#1	2.166	-.0007	1.928	.0043	.0022	-.0016	232.2	.0024
#2	2.180	-.0009	1.924	.0079	.0013	-.0017	232.5	.0031
#3	2.181	-.0018	1.933	.0033	.0013	-.0017	233.2	.0038

Zoom In Zoom Out

Sample Name: JC85326-4 Acquired: 4/2/2019 21:22:41 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0509**	**.0909**
Stddev	.0006	.0007
%RSD	1.146	.7574
#1	.0516	.0916
#2	.0505	.0903
#3	.0507	.0906

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**123720.**	**26032.**	**3311.4**	**5338.7**
Stddev	273.	104.	5.6	5.7
%RSD	.22026	.39778	.16841	.10723
#1	123480.	26110.	3317.7	5342.0
#2	123680.	26073.	3307.2	5341.9
#3	124020.	25915.	3309.2	5332.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 21:28:06 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.041**	**2.023**	**2.025**	**2.016**	**2.054**	**1.992**	**2.093**	**2.056**	**.2471**
Stddev	.016	.016	.006	.004	.010	.009	.008	.006	.0013
%RSD	.7694	.7796	.3202	.2102	.4685	.4283	.3633	.2943	.5279
#1	2.026	2.009	2.017	2.013	2.047	1.993	2.089	2.049	.2459
#2	2.039	2.020	2.028	2.015	2.050	1.983	2.088	2.057	.2469
#3	2.057	2.040	2.029	2.021	2.065	2.000	2.102	2.061	.2485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.041**	**2.041**	**1.998**	**2.095**	**2.044**	**1.999**	**2.034**	**39.62**	**39.80**
Stddev	.007	.002	.006	.008	.007	.008	.007	.29	.32
%RSD	.3635	.1071	.2874	.3971	.3214	.4054	.3297	.7289	.8157
#1	2.040	2.039	1.991	2.087	2.037	1.990	2.027	39.35	39.49
#2	2.034	2.042	2.001	2.093	2.046	2.002	2.039	39.59	39.77
#3	2.048	2.043	2.001	2.103	2.050	2.006	2.038	39.92	40.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.36**	**39.31**	**39.52**	**38.47**	**2.053**	**2.044**	**5.196**	**2.053**	**2.040**
Stddev	.38	.40	.21	.26	.007	.004	.018	.006	.015
%RSD	.9719	1.006	.5435	.6863	.3214	.2156	.3499	.3073	.7369
#1	39.07	38.95	39.40	38.27	2.045	2.039	5.175	2.046	2.027
#2	39.21	39.24	39.40	38.37	2.055	2.047	5.208	2.052	2.037
#3	39.79	39.74	39.77	38.77	2.058	2.045	5.206	2.059	2.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 21:28:06 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.066**	**2.026**	**2.038**	**1.991**	**2.027**	**2.064**	**1.998**
Stddev	.008	.006	.010	.012	.009	.011	.010
%RSD	.3674	.2909	.4988	.6066	.4438	.5330	.4917
#1	2.062	2.020	2.040	1.978	2.017	2.053	1.988
#2	2.062	2.032	2.027	1.993	2.029	2.065	1.997
#3	2.075	2.026	2.047	2.002	2.034	2.075	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**146590.**	**27274.**	**3981.4**	**6866.7**
Stddev	492.	169.	6.7	11.1
%RSD	.33532	.62009	.16790	.16175
#1	146830.	27408.	3988.9	6879.3
#2	146920.	27329.	3976.1	6862.5
#3	146030.	27084.	3979.3	6858.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 21:32:58 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**-.0000**	**.0002**	**-.0001**	**-.0001**	**.0001**	**-.0000**	**-.0007**
Stddev	.0000	.0000	.0002	.0003	.0002	.0003	.0000	.0002	.0002
%RSD	5.504	26.53	675.9	132.0	345.7	205.4	8.095	482.2	34.87
#1	.0002	.0001	.0001	.0005	-.0001	-.0001	.0001	-.0000	-.0010
#2	.0002	.0001	-.0002	-.0000	.0002	.0001	.0001	-.0003	-.0006
#3	.0002	.0001	-.0000	.0002	-.0003	-.0004	.0001	.0002	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0002**	**-.0003**	**.0004**	**-.0000**	**-.0002**	**.0006**	**-.0028**	**.0003**
Stddev	.0002	.0001	.0007	.0005	.0008	.0019	.0007	.0044	.0023
%RSD	1329.	46.28	211.2	132.2	2295.	984.4	119.1	156.5	732.4
#1	-.0000	.0003	-.0002	.0006	.0007	-.0023	.0013	-.0065	-.0005
#2	.0002	.0001	.0003	.0007	-.0009	.0004	.0000	-.0038	.0029
#3	-.0001	.0002	-.0011	-.0002	.0001	.0013	.0003	.0020	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0107**	**.0668**	**.3281**	**.0020**	**.0003**	**.0004**	**.0000**	**.0001**
Stddev	.0012	.0024	.0268	.0087	.0004	.0002	.0005	.0002	.0000
%RSD	109.7	22.76	40.08	2.639	18.21	55.73	125.6	1040.	53.60
#1	.0024	.0122	.0448	.3315	.0024	.0005	.0010	-.0001	.0001
#2	.0007	.0121	.0966	.3345	.0020	.0002	.0002	.0002	.0001
#3	.0001	.0079	.0591	.3183	.0017	.0002	.0000	-.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 21:32:58 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0006**	**.0001**	**-.0007**	**-.0000**	**.0005**	**.0020**
Stddev	.0002	.0009	.0001	.0018	.0012	.0005	.0006
%RSD	151.0	151.2	73.47	272.0	4087.	96.39	28.71
#1	-.0000	-.0003	.0003	.0009	-.0000	.0010	.0022
#2	.0004	.0007	.0001	-.0003	.0011	.0005	.0024
#3	.0000	.0015	.0000	-.0026	-.0012	.0000	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**153110.**	**27098.**	**4034.0**	**7416.1**
Stddev	707.	591.	7.1	13.8
%RSD	.46146	2.1795	.17517	.18618
#1	153490.	27506.	4026.1	7407.0
#2	153550.	26421.	4036.4	7409.3
#3	152300.	27368.	4039.6	7432.0

Zoom In Zoom Out

Sample Name: JC85326-5 Acquired: 4/2/2019 21:38:15 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0322**	**.0001**	**.0002**	**.0003**	**.0009**	**.0038**	**.0834**	**.0015**
Stddev	.0001	.0000	.0001	.0002	.0002	.0001	.0001	.0001
%RSD	.4119	37.21	69.35	58.23	27.82	3.100	.1781	6.061
#1	.0321	.0001	.0002	.0004	.0007	.0037	.0835	.0016
#2	.0323	.0000	.0002	.0004	.0011	.0040	.0833	.0015
#3	.0321	.0001	.0000	.0001	.0007	.0038	.0835	.0014

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**.0020**	**.0093**	**-.0000**	**.0068**	F **-.0044**	**.0014**	**.0023**
Stddev	.0003	.0001	.0002	.0008	.0011	.0007	.0038	.0010
%RSD	23.75	5.585	1.827	5164.	16.24	15.95	267.6	44.95
#1	-.0012	.0018	.0091	-.0008	.0057	-.0052	-.0013	.0011
#2	-.0009	.0020	.0094	.0002	.0069	-.0038	.0058	.0028
#3	-.0015	.0021	.0095	.0006	.0079	-.0042	-.0002	.0030

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1360**	**128.8**	**.2676**	F **367.3**	**117.3**	*****	**1.292**	**.0032**
Stddev	.0045	.3	.0009	1.2	.0	-----	.004	.0000
%RSD	3.275	.2471	.3392	.3250	.0348	-----	.2894	1.562
#1	.1362	128.8	.2666	366.8	117.3	-----	1.287	.0031
#2	.1404	128.5	.2679	368.6	117.3	-----	1.294	.0032
#3	.1315	129.1	.2684	366.3	117.2	-----	1.294	.0032

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.150**	**-.0000**	**2.220**	**.0041**	**.0016**	**-.0016**	F **267.9**	**.0022**
Stddev	.007	.0006	.001	.0004	.0010	.0001	.1	.0011
%RSD	.3279	1669.	.0594	10.55	64.51	3.902	.0376	52.48
#1	2.157	-.0007	2.220	.0045	.0018	-.0016	268.0	.0010
#2	2.151	-.0001	2.221	.0043	.0025	-.0016	267.8	.0023
#3	2.143	.0006	2.218	.0036	.0005	-.0015	267.9	.0033

Zoom In Zoom Out

Sample Name: JC85326-5 Acquired: 4/2/2019 21:38:15 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0612**	**.0908**
Stddev	.0008	.0006
%RSD	1.280	.7066
#1	.0603	.0905
#2	.0615	.0915
#3	.0618	.0904

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**119640.**	**25296.**	**3231.8**	**5202.2**
Stddev	171.	58.	6.0	3.4
%RSD	.14328	.22980	.18467	.06599
#1	119500.	25342.	3231.1	5202.1
#2	119830.	25231.	3226.3	5198.8
#3	119600.	25316.	3238.1	5205.7

Zoom In Zoom Out

Sample Name: JC85326-6 Acquired: 4/2/2019 21:43:37 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0278**	**.0000**	**.0002**	**.0003**	**.0009**	**.0085**	**.0729**	**.0016**
Stddev	.0002	.0001	.0001	.0004	.0002	.0001	.0001	.0001
%RSD	.5519	123.1	88.50	129.0	25.00	1.398	.1839	8.353
#1	.0280	.0001	.0000	.0005	.0007	.0084	.0727	.0017
#2	.0279	.0001	.0002	.0007	.0008	.0086	.0730	.0014
#3	.0277	-.0000	.0003	-.0001	.0011	.0085	.0729	.0015

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0019**	**.0106**	**-.0011**	**.0060**	F **-.0055**	**.0035**	**.0027**
Stddev	.0002	.0003	.0000	.0011	.0011	.0023	.0024	.0019
%RSD	14.00	15.42	.0701	107.7	17.64	41.49	67.33	69.47
#1	-.0011	.0016	.0106	.0002	.0068	-.0050	.0029	.0042
#2	-.0014	.0022	.0106	-.0013	.0048	-.0035	.0061	.0033
#3	-.0015	.0019	.0106	-.0021	.0064	-.0080	.0015	.0006

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1431**	**159.8**	**.2192**	F **485.4**	**156.0**	*****	**1.700**	**.0043**
Stddev	.0039	1.0	.0005	.3	.6	-----	.008	.0002
%RSD	2.751	.6119	.2101	.0628	.3862	-----	.4525	4.219
#1	.1398	160.3	.2196	485.6	156.7	-----	1.692	.0041
#2	.1475	158.7	.2187	485.1	155.9	-----	1.701	.0044
#3	.1422	160.5	.2193	485.6	155.5	-----	1.708	.0043

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.856**	**-.0020**	**2.854**	**.0065**	**.0017**	**-.0015**	F **352.8**	**.0036**
Stddev	.007	.0009	.026	.0032	.0007	.0001	1.3	.0002
%RSD	.3652	46.02	.9299	49.86	44.62	6.602	.3731	4.602
#1	1.849	-.0013	2.850	.0102	.0024	-.0015	351.5	.0038
#2	1.858	-.0030	2.882	.0046	.0018	-.0016	352.8	.0035
#3	1.862	-.0016	2.830	.0046	.0009	-.0014	354.1	.0035

Zoom In Zoom Out

Sample Name: JC85326-6 Acquired: 4/2/2019 21:43:37 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0799**	**.0942**
Stddev	.0007	.0015
%RSD	.9255	1.629
#1	.0807	.0944
#2	.0796	.0957
#3	.0793	.0926

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117510.**	**24973.**	**3169.4**	**5053.8**
Stddev	192.	53.	10.6	10.9
%RSD	.16361	.21094	.33517	.21554
#1	117600.	25030.	3180.9	5065.8
#2	117650.	24961.	3167.4	5051.0
#3	117290.	24927.	3160.0	5044.5

Zoom In Zoom Out

Sample Name: JC85326-7 Acquired: 4/2/2019 21:49:09 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0297**	**.0001**	**.0002**	**.0005**	**.0029**	**.0090**	**.0890**	**.0024**
Stddev	.0002	.0000	.0001	.0002	.0002	.0001	.0004	.0005
%RSD	.6902	27.14	46.31	32.94	5.757	1.405	.4439	19.57
#1	.0298	.0001	.0002	.0005	.0028	.0089	.0888	.0029
#2	.0298	.0001	.0003	.0007	.0029	.0089	.0887	.0022
#3	.0295	.0001	.0001	.0004	.0031	.0091	.0894	.0020

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0030**	**.0154**	**-.0007**	**.0086**	F **-.0035**	**.0030**	**.0051**
Stddev	.0001	.0001	.0003	.0004	.0012	.0010	.0041	.0026
%RSD	7.223	2.867	1.801	52.76	14.30	28.11	138.7	49.91
#1	-.0009	.0031	.0156	-.0003	.0093	-.0032	.0077	.0022
#2	-.0009	.0031	.0156	-.0008	.0072	-.0046	.0001	.0064
#3	-.0010	.0029	.0151	-.0011	.0092	-.0027	.0011	.0068

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6682**	**166.3**	**.9661**	F **510.5**	**165.2**	*****	**1.805**	**.0048**
Stddev	.0077	2.1	.0049	2.2	.2	-----	.008	.0005
%RSD	1.154	1.282	.5085	.4328	.1044	-----	.4245	10.02
#1	.6662	167.9	.9686	511.3	165.1	-----	1.814	.0043
#2	.6768	167.1	.9693	512.1	165.1	-----	1.800	.0050
#3	.6618	163.9	.9605	507.9	165.4	-----	1.802	.0052

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.015**	**-.0002**	**3.080**	**.0249**	**.0026**	**-.0014**	F **373.7**	**.0032**
Stddev	.018	.0008	.037	.0012	.0011	.0001	1.6	.0011
%RSD	.5813	470.4	1.213	4.654	43.14	5.521	.4378	34.83
#1	3.035	.0006	3.109	.0237	.0034	-.0014	375.1	.0038
#2	3.006	-.0001	3.093	.0250	.0032	-.0013	374.0	.0019
#3	3.004	-.0010	3.038	.0260	.0013	-.0015	371.9	.0039

Zoom In Zoom Out

Sample Name: JC85326-7 Acquired: 4/2/2019 21:49:09 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0834**	**.1414**
Stddev	.0010	.0015
%RSD	1.197	1.075
#1	.0833	.1422
#2	.0844	.1424
#3	.0825	.1397

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**116060.**	**24954.**	**3139.2**	**5004.0**
Stddev	535.	129.	10.8	14.3
%RSD	.46098	.51737	.34433	.28651
#1	116210.	24899.	3126.7	4987.8
#2	116510.	24862.	3145.7	5009.5
#3	115470.	25102.	3145.2	5014.8

Zoom In Zoom Out

Sample Name: JC85326-8 Acquired: 4/2/2019 21:54:38 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0267**	**.0000**	**.0001**	**.0001**	**.0007**	**.0044**	**.0717**	**.0019**
Stddev	.0001	.0000	.0001	.0002	.0002	.0001	.0003	.0005
%RSD	.5445	42.93	95.48	240.4	23.53	3.030	.4580	28.00
#1	.0267	.0000	.0003	-.0000	.0005	.0046	.0716	.0014
#2	.0268	.0000	.0001	-.0000	.0009	.0044	.0714	.0017
#3	.0266	.0000	.0001	.0003	.0007	.0043	.0720	.0024

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0021**	**.0075**	**-.0014**	**.0073**	F **-.0053**	**.0017**	**.0031**
Stddev	.0002	.0002	.0000	.0012	.0023	.0005	.0012	.0010
%RSD	24.99	11.81	.0644	88.19	31.11	10.15	72.34	33.95
#1	-.0012	.0019	.0075	-.0016	.0047	-.0047	.0031	.0037
#2	-.0010	.0021	.0075	-.0024	.0091	-.0058	.0011	.0019
#3	-.0007	.0024	.0075	-.0001	.0081	-.0055	.0009	.0036

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0952**	**154.3**	**.1765**	F **465.1**	**151.2**	*****	**1.646**	**.0038**
Stddev	.0044	1.1	.0034	.7	.5	-----	.005	.0001
%RSD	4.602	.7426	1.901	.1458	.2979	-----	.3010	1.572
#1	.0978	153.3	.1770	465.5	150.7	-----	1.652	.0039
#2	.0976	155.6	.1796	465.6	151.6	-----	1.642	.0037
#3	.0901	154.2	.1729	464.4	151.4	-----	1.645	.0038

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.905**	**-.0004**	**2.789**	**.0039**	**.0020**	**-.0013**	F **340.4**	**.0020**
Stddev	.217	.0006	.061	.0020	.0013	.0002	.7	.0012
%RSD	11.37	146.6	2.181	52.31	65.10	16.46	.2061	59.00
#1	1.783	.0001	2.859	.0028	.0015	-.0013	339.9	.0009
#2	1.778	-.0003	2.756	.0026	.0010	-.0012	340.2	.0018
#3	2.155	-.0011	2.751	.0062	.0035	-.0016	341.2	.0033

Zoom In Zoom Out

Sample Name: JC85326-8 Acquired: 4/2/2019 21:54:38 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0747**	**.0803**
Stddev	.0009	.0010
%RSD	1.257	1.259
#1	.0755	.0802
#2	.0737	.0794
#3	.0750	.0814

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**116650.**	**24692.**	**3157.3**	**5047.0**
Stddev	480.	42.	7.7	12.2
%RSD	.41181	.17080	.24479	.24085
#1	116710.	24679.	3148.4	5033.0
#2	117100.	24658.	3161.7	5054.0
#3	116150.	24739.	3161.9	5054.1

Zoom In Zoom Out

Sample Name: JC85326-9 Acquired: 4/2/2019 22:00:06 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0268**	**.0001**	**.0002**	**.0003**	**.0007**	**.0062**	**.0705**	**.0018**
Stddev	.0002	.0000	.0000	.0001	.0003	.0003	.0002	.0002
%RSD	.6654	47.14	12.41	20.22	46.30	4.393	.3053	8.463
#1	.0268	.0001	.0002	.0003	.0005	.0060	.0703	.0019
#2	.0270	.0001	.0002	.0002	.0011	.0060	.0706	.0016
#3	.0266	.0000	.0002	.0003	.0005	.0065	.0707	.0018

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**.0019**	**.0067**	**-.0010**	**.0075**	F **-.0068**	**.0032**	**.0041**
Stddev	.0001	.0002	.0002	.0013	.0008	.0005	.0008	.0012
%RSD	8.689	12.17	2.443	133.3	10.67	7.942	24.74	28.73
#1	-.0015	.0017	.0065	-.0009	.0066	-.0073	.0025	.0052
#2	-.0017	.0022	.0067	.0003	.0082	-.0070	.0041	.0042
#3	-.0015	.0020	.0069	-.0023	.0077	-.0062	.0031	.0029

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0955**	**148.2**	**.1663**	F **440.9**	**144.6**	*****	**1.575**	**.0039**
Stddev	.0038	.3	.0018	2.0	.2	-----	.001	.0002
%RSD	3.999	.2126	1.079	.4480	.1273	-----	.0766	5.277
#1	.0999	148.6	.1675	442.7	144.7	-----	1.573	.0037
#2	.0940	148.0	.1671	441.3	144.4	-----	1.576	.0041
#3	.0927	148.0	.1642	438.8	144.6	-----	1.575	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.785**	**-.0013**	**2.644**	**.0029**	**.0005**	**-.0015**	F **327.6**	**.0035**
Stddev	.011	.0004	.020	.0002	.0009	.0002	1.1	.0017
%RSD	.6180	28.70	.7447	5.376	194.8	10.10	.3430	47.60
#1	1.780	-.0015	2.655	.0030	-.0006	-.0013	326.5	.0023
#2	1.797	-.0014	2.655	.0030	.0008	-.0016	328.7	.0028
#3	1.777	-.0008	2.621	.0027	.0011	-.0015	327.6	.0055

Zoom In Zoom Out

Sample Name: JC85326-9 Acquired: 4/2/2019 22:00:06 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0704**	**.0778**
Stddev	.0007	.0013
%RSD	.9853	1.664
#1	.0697	.0765
#2	.0711	.0791
#3	.0704	.0778

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117020.**	**24702.**	**3172.0**	**5072.7**
Stddev	361.	119.	3.2	5.7
%RSD	.30876	.48251	.09995	.11321
#1	117320.	24581.	3171.7	5066.0
#2	117110.	24704.	3169.0	5076.1
#3	116620.	24820.	3175.3	5075.9

Zoom In Zoom Out

Sample Name: JC85326-11 Acquired: 4/2/2019 22:05:36 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0000**	**-.0000**	**.0001**	**.0000**	**.0000**	**.0016**	**.0001**	**-.0006**
Stddev	.0001	.0000	.0001	.0002	.0001	.0002	.0000	.0001	.0002
%RSD	5.245	34.98	291.4	210.0	227.8	413.3	.5602	47.99	27.78
#1	.0017	.0000	-.0000	-.0001	-.0000	-.0001	.0016	.0002	-.0007
#2	.0015	.0000	-.0001	.0002	.0001	-.0000	.0016	.0001	-.0004
#3	.0016	.0000	.0001	.0002	-.0000	.0002	.0016	.0002	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0004**	**-.0019**	**-.0001**	**.0006**	**.0001**	**.0008**	**.0200**	**.0094**
Stddev	.0002	.0001	.0018	.0009	.0003	.0018	.0011	.0053	.0028
%RSD	80.89	21.11	95.98	826.1	46.37	1423.	143.0	26.33	30.00
#1	-.0003	.0003	-.0039	-.0009	.0007	.0022	.0014	.0188	.0117
#2	-.0003	.0005	-.0003	-.0004	.0003	-.0011	-.0005	.0155	.0103
#3	-.0000	.0005	-.0014	.0009	.0009	-.0007	.0014	.0258	.0063

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.0149**	**.0890**	**.9490**	**.0028**	**.0000**	**.1098**	**-.0003**	**.0011**
Stddev	.0006	.0096	.0067	.0476	.0006	.0001	.0011	.0008	.0001
%RSD	36.21	64.38	7.566	5.016	21.55	2529.	1.033	250.9	7.583
#1	-.0024	.0040	.0813	1.000	.0021	.0002	.1108	-.0002	.0012
#2	-.0013	.0184	.0932	.9400	.0031	-.0001	.1100	-.0012	.0011
#3	-.0013	.0222	.0926	.9066	.0031	-.0001	.1086	.0005	.0010

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0005**	**.0001**	**.0149**	**.0007**	**-.0003**	**.0031**
Stddev	.0000	.0009	.0001	.0012	.0004	.0003	.0012
%RSD	15.16	169.4	60.84	7.906	58.65	98.54	40.16
#1	.0001	.0002	.0001	.0154	.0012	-.0002	.0036
#2	.0001	-.0002	.0000	.0158	.0004	-.0000	.0017
#3	.0001	.0015	.0001	.0136	.0006	-.0007	.0040

Zoom In Zoom Out

Sample Name: JC85326-11 Acquired: 4/2/2019 22:05:36 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**155180.**	**27365.**	**4070.5**	**7496.5**
Stddev	287.	126.	15.8	31.1
%RSD	.18464	.46191	.38857	.41540
#1	155130.	27223.	4066.0	7480.5
#2	155490.	27406.	4057.5	7476.6
#3	154920.	27466.	4088.1	7532.4

Zoom In Zoom Out

Sample Name: JC85326-1F Acquired: 4/2/2019 22:10:51 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0285**	**.0000**	**.0000**	**.0002**	**.0003**	**.0041**	**.0711**	**.0015**
Stddev	.0000	.0000	.0000	.0003	.0002	.0001	.0000	.0003
%RSD	.1537	47.42	114.5	139.0	52.34	3.159	.0058	21.49
#1	.0285	.0000	.0001	.0005	.0005	.0041	.0711	.0011
#2	.0285	.0000	.0001	.0000	.0004	.0039	.0711	.0016
#3	.0284	.0000	-.0000	.0000	.0001	.0042	.0711	.0018

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**.0017**	**.0077**	**-.0006**	**.0063**	F **-.0067**	**.0006**	**.0032**
Stddev	.0006	.0001	.0001	.0021	.0010	.0005	.0009	.0013
%RSD	43.20	5.043	1.920	327.3	16.50	7.097	156.3	41.31
#1	-.0013	.0017	.0075	.0006	.0066	-.0072	.0014	.0047
#2	-.0008	.0018	.0078	.0006	.0051	-.0062	-.0004	.0026
#3	-.0020	.0017	.0077	-.0030	.0071	-.0068	.0006	.0023

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0175**	**147.8**	**.0178**	F **439.0**	**145.3**	*****	**1.577**	**.0039**
Stddev	.0092	2.3	.0013	.9	.1	-----	.001	.0001
%RSD	52.58	1.553	7.077	.2011	.0929	-----	.0587	3.820
#1	.0258	148.5	.0164	439.0	145.3	-----	1.577	.0040
#2	.0076	149.6	.0182	439.9	145.4	-----	1.578	.0037
#3	.0193	145.2	.0188	438.1	145.2	-----	1.576	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.555**	**-.0004**	**2.656**	**.0003**	**.0015**	**-.0013**	F **325.4**	**.0039**
Stddev	.001	.0006	.050	.0002	.0015	.0001	.8	.0006
%RSD	.0718	131.8	1.885	74.31	103.6	4.516	.2355	16.06
#1	1.556	.0001	2.623	.0000	.0029	-.0014	326.2	.0034
#2	1.554	-.0004	2.713	.0004	-.0001	-.0013	325.3	.0046
#3	1.554	-.0011	2.631	.0004	.0017	-.0013	324.7	.0037

Zoom In Zoom Out

Sample Name: JC85326-1F Acquired: 4/2/2019 22:10:51 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0708**	**.0660**
Stddev	.0006	.0009
%RSD	.7773	1.390
#1	.0707	.0666
#2	.0714	.0664
#3	.0703	.0649

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117960.**	**24856.**	**3195.1**	**5103.7**
Stddev	159.	91.	6.1	4.1
%RSD	.13439	.36799	.19141	.07966
#1	118010.	24917.	3198.3	5106.5
#2	118090.	24751.	3198.9	5105.6
#3	117790.	24901.	3188.0	5099.1

Zoom In Zoom Out

Sample Name: JC85326-2F Acquired: 4/2/2019 22:16:20 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0268**	**.0001**	**.0001**	**-.0000**	**.0003**	**.0031**	**.0670**	**.0012**
Stddev	.0002	.0000	.0002	.0001	.0005	.0001	.0002	.0001
%RSD	.6318	12.83	259.0	465.2	195.1	4.109	.2845	5.165
#1	.0270	.0001	.0003	.0000	-.0003	.0030	.0669	.0012
#2	.0267	.0001	.0001	.0001	.0006	.0031	.0669	.0013
#3	.0267	.0001	-.0001	-.0002	.0005	.0033	.0672	.0012

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**.0017**	**.0084**	**-.0016**	**.0078**	F **-.0077**	**.0012**	**.0046**
Stddev	.0004	.0003	.0002	.0009	.0018	.0016	.0004	.0007
%RSD	27.72	16.88	2.425	53.70	23.48	20.22	36.90	14.63
#1	-.0014	.0016	.0086	-.0026	.0062	-.0086	.0012	.0047
#2	-.0021	.0014	.0085	-.0013	.0073	-.0086	.0007	.0052
#3	-.0013	.0020	.0082	-.0009	.0098	-.0059	.0016	.0039

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189**	**154.6**	**.0122**	F **465.0**	**153.0**	*****	**1.669**	**.0041**
Stddev	.0022	1.9	.0013	1.2	.1	-----	.008	.0001
%RSD	11.78	1.225	10.66	.2566	.0620	-----	.4748	2.276
#1	.0164	156.3	.0128	465.5	153.0	-----	1.664	.0040
#2	.0206	152.6	.0131	463.6	153.1	-----	1.664	.0042
#3	.0197	154.9	.0107	465.8	152.9	-----	1.678	.0042

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.502**	**-.0015**	**2.798**	**.0002**	**.0017**	**-.0014**	F **342.8**	**.0023**
Stddev	.006	.0008	.032	.0002	.0001	.0001	2.6	.0012
%RSD	.3735	56.33	1.134	121.7	8.563	8.310	.7575	54.00
#1	1.499	-.0006	2.802	.0000	.0019	-.0014	340.9	.0010
#2	1.500	-.0022	2.764	.0001	.0017	-.0013	341.7	.0035
#3	1.509	-.0015	2.827	.0004	.0016	-.0015	345.7	.0024

Zoom In Zoom Out

Sample Name: JC85326-2F Acquired: 4/2/2019 22:16:20 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0743**	**.0624**
Stddev	.0010	.0012
%RSD	1.411	1.848
#1	.0734	.0614
#2	.0754	.0621
#3	.0739	.0636

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117380.**	**24546.**	**3183.8**	**5075.3**
Stddev	160.	164.	10.8	15.4
%RSD	.13630	.66987	.33800	.30401
#1	117350.	24422.	3193.4	5092.7
#2	117550.	24733.	3185.8	5069.6
#3	117240.	24484.	3172.2	5063.4

Zoom In Zoom Out

Sample Name: JC85326-3F Acquired: 4/2/2019 22:21:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0308**	**.0000**	**-.0000**	**-.0002**	**.0003**	**.0063**	**.0722**	**.0017**
Stddev	.0002	.0000	.0002	.0003	.0002	.0003	.0002	.0003
%RSD	.6018	69.03	412.5	188.8	58.52	5.004	.2465	19.84
#1	.0309	.0000	.0002	-.0003	.0004	.0061	.0724	.0013
#2	.0306	.0000	-.0002	-.0004	.0001	.0061	.0721	.0019
#3	.0308	.0000	-.0001	.0002	.0004	.0067	.0720	.0019

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0018**	**.0017**	**.0206**	**-.0004**	**.0052**	F **-.0053**	**.0010**	**.0020**
Stddev	.0007	.0001	.0003	.0013	.0007	.0010	.0007	.0001
%RSD	39.69	5.464	1.271	315.0	13.28	19.48	71.32	7.258
#1	-.0014	.0017	.0204	-.0009	.0044	-.0041	.0002	.0021
#2	-.0026	.0018	.0205	.0010	.0058	-.0058	.0015	.0019
#3	-.0013	.0017	.0209	-.0013	.0054	-.0061	.0013	.0021

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0170**	**121.4**	**.0202**	F **334.1**	**110.3**	*****	**1.205**	**.0033**
Stddev	.0025	.4	.0023	1.2	.2	-----	.001	.0001
%RSD	14.53	.3378	11.16	.3510	.1729	-----	.0913	3.955
#1	.0182	120.9	.0186	332.8	110.2	-----	1.206	.0034
#2	.0142	121.7	.0192	334.7	110.2	-----	1.203	.0033
#3	.0187	121.6	.0228	334.9	110.5	-----	1.205	.0032

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.746**	**-.0009**	**2.086**	**.0001**	**.0005**	**-.0014**	F **248.1**	**.0014**
Stddev	.001	.0008	.003	.0003	.0001	.0002	.4	.0015
%RSD	.0758	87.74	.1310	283.5	28.22	12.95	.1772	109.3
#1	1.747	-.0017	2.084	.0002	.0004	-.0012	248.3	-.0002
#2	1.746	-.0010	2.084	-.0002	.0007	-.0015	248.3	.0028
#3	1.744	-.0001	2.089	.0003	.0005	-.0014	247.6	.0016

Zoom In Zoom Out

Sample Name: JC85326-3F Acquired: 4/2/2019 22:21:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0524**	**.0572**
Stddev	.0004	.0018
%RSD	.7382	3.131
#1	.0525	.0582
#2	.0520	.0582
#3	.0527	.0551

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**120460.**	**24706.**	**3275.2**	**5268.9**
Stddev	325.	79.	6.0	8.4
%RSD	.26988	.31808	.18377	.15926
#1	120200.	24793.	3271.2	5267.6
#2	120820.	24683.	3282.1	5277.8
#3	120360.	24641.	3272.3	5261.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 22:27:06 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.072**	**1.988**	**2.011**	**2.002**	**2.028**	**1.938**	**2.052**	**2.057**	**.2405**
Stddev	.003	.004	.006	.004	.003	.004	.004	.006	.0012
%RSD	.1321	.2088	.3123	.1744	.1269	.2003	.1701	.2747	.4804
#1	2.070	1.985	2.006	2.000	2.027	1.943	2.054	2.053	.2418
#2	2.075	1.992	2.010	2.000	2.026	1.935	2.048	2.055	.2396
#3	2.070	1.985	2.018	2.006	2.031	1.937	2.054	2.064	.2400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**2.028**	**1.962**	**2.072**	**2.011**	**1.962**	**2.027**	**39.74**	**39.12**
Stddev	.004	.006	.007	.010	.003	.007	.009	.03	.06
%RSD	.2207	.2764	.3432	.5010	.1488	.3380	.4627	.0785	.1436
#1	2.007	2.022	1.959	2.069	2.008	1.957	2.018	39.71	39.06
#2	1.999	2.028	1.957	2.063	2.012	1.960	2.026	39.76	39.14
#3	2.007	2.033	1.969	2.083	2.014	1.969	2.037	39.77	39.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.04**	**38.19**	**39.91**	**38.93**	**2.044**	**2.017**	**5.167**	**2.022**	**2.053**
Stddev	.14	.05	.15	.13	.006	.005	.017	.006	.005
%RSD	.3655	.1401	.3745	.3248	.3062	.2301	.3216	.3114	.2400
#1	38.01	38.13	39.77	38.80	2.038	2.013	5.153	2.016	2.051
#2	38.19	38.18	40.07	39.06	2.044	2.016	5.163	2.022	2.059
#3	37.91	38.24	39.90	38.94	2.051	2.022	5.186	2.029	2.049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 22:27:06 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.041**	**2.001**	**1.984**	**1.958**	**2.002**	**2.120**	**1.958**
Stddev	.002	.007	.006	.007	.003	.004	.007
%RSD	.0970	.3555	.3221	.3787	.1281	.1682	.3820
#1	2.043	1.995	1.991	1.949	2.000	2.119	1.952
#2	2.039	2.000	1.978	1.961	2.002	2.124	1.954
#3	2.043	2.009	1.983	1.963	2.005	2.118	1.966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**148580.**	**26276.**	**3974.1**	**6833.7**
Stddev	319.	102.	7.2	9.5
%RSD	.21494	.38847	.18223	.13874
#1	148490.	26392.	3982.0	6843.4
#2	148940.	26198.	3972.3	6833.3
#3	148320.	26238.	3967.9	6824.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 22:31:57 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0002**	**.0002**	**.0001**	**-.0003**	**.0001**	**-.0000**	**-.0011**
Stddev	.0003	.0000	.0001	.0004	.0001	.0002	.0000	.0002	.0003
%RSD	123.4	8.354	46.55	221.3	64.33	82.24	14.79	526.3	31.56
#1	.0004	.0001	.0002	.0003	.0001	-.0003	.0001	.0002	-.0014
#2	-.0001	.0001	.0001	.0004	.0001	-.0005	.0001	-.0000	-.0011
#3	.0003	.0001	.0001	-.0003	.0002	-.0000	.0001	-.0003	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0001**	**-.0006**	**-.0001**	**.0001**	**-.0013**	**.0012**	**.0034**	**-.0030**
Stddev	.0001	.0000	.0012	.0009	.0006	.0007	.0007	.0038	.0016
%RSD	72.10	14.12	187.7	1199.	648.6	48.50	60.57	111.0	54.36
#1	-.0000	.0001	.0002	.0006	-.0006	-.0006	.0020	-.0007	-.0045
#2	-.0002	.0001	-.0020	-.0012	.0005	-.0015	.0005	.0068	-.0013
#3	-.0003	.0001	-.0001	.0003	.0005	-.0019	.0011	.0042	-.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0106**	**.0358**	**.4376**	**.0014**	**.0002**	**.0009**	**-.0002**	**.0001**
Stddev	.0012	.0041	.0382	.0040	.0009	.0001	.0002	.0009	.0000
%RSD	6534.	38.91	106.5	.9229	61.43	70.07	20.72	582.3	43.72
#1	-.0001	.0067	.0466	.4390	.0024	.0003	.0011	-.0012	.0001
#2	-.0011	.0102	-.0065	.4408	.0012	.0000	.0008	.0006	.0000
#3	.0012	.0150	.0674	.4331	.0007	.0002	.0007	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 22:31:57 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0006**	**.0002**	**-.0005**	**.0001**	**-.0003**	**.0030**
Stddev	.0002	.0004	.0001	.0027	.0006	.0011	.0008
%RSD	77.40	62.41	27.35	499.3	416.8	403.3	25.08
#1	.0000	.0004	.0003	.0005	-.0005	-.0014	.0039
#2	.0003	.0010	.0002	-.0036	.0007	.0009	.0026
#3	.0004	.0003	.0003	.0015	.0002	-.0004	.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**155290.**	**26377.**	**4084.2**	**7475.7**
Stddev	403.	51.	12.3	31.1
%RSD	.25947	.19381	.30059	.41666
#1	154920.	26366.	4077.6	7463.4
#2	155720.	26433.	4098.4	7511.1
#3	155220.	26333.	4076.7	7452.6

Zoom In Zoom Out

Sample Name: JC85326-4F Acquired: 4/2/2019 22:37:13 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0306**	**.0000**	**.0001**	**.0003**	**.0001**	**.0105**	**.0723**	**.0013**
Stddev	.0003	.0000	.0002	.0002	.0002	.0002	.0001	.0005
%RSD	.9805	105.3	232.3	66.74	239.1	2.122	.1112	35.99
#1	.0309	.0000	.0002	.0001	-.0002	.0107	.0724	.0008
#2	.0303	-.0000	-.0002	.0005	.0002	.0103	.0722	.0015
#3	.0305	.0000	.0002	.0003	.0002	.0106	.0723	.0017

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0014**	**.0083**	**-.0007**	**.0062**	F **-.0047**	**.0012**	**.0020**
Stddev	.0006	.0003	.0002	.0010	.0004	.0015	.0018	.0014
%RSD	45.98	22.99	2.116	141.5	7.026	32.13	151.3	66.75
#1	-.0007	.0013	.0084	-.0019	.0063	-.0030	-.0007	.0016
#2	-.0014	.0011	.0081	-.0001	.0066	-.0056	.0013	.0010
#3	-.0019	.0018	.0085	-.0001	.0057	-.0057	.0030	.0036

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0182**	**112.2**	**.0179**	F **302.2**	**100.5**	*****	**1.103**	**.0027**
Stddev	.0049	.1	.0019	.1	.3	-----	.001	.0004
%RSD	26.88	.0499	10.64	.0369	.3188	-----	.1221	15.28
#1	.0231	112.3	.0172	302.1	100.7	-----	1.104	.0030
#2	.0182	112.3	.0164	302.2	100.1	-----	1.103	.0030
#3	.0133	112.2	.0200	302.3	100.7	-----	1.101	.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.808**	**-.0014**	**1.897**	**.0000**	**.0014**	**-.0014**	F **227.0**	**.0022**
Stddev	.003	.0003	.009	.0003	.0006	.0000	.2	.0009
%RSD	.1723	20.19	.5002	1425.	43.32	2.222	.0778	43.41
#1	1.811	-.0017	1.901	.0003	.0007	-.0014	226.8	.0018
#2	1.808	-.0012	1.886	.0001	.0019	-.0014	227.2	.0015
#3	1.805	-.0013	1.903	-.0003	.0014	-.0014	227.0	.0033

Zoom In Zoom Out

Sample Name: JC85326-4F Acquired: 4/2/2019 22:37:13 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0477**	**.0485**
Stddev	.0001	.0020
%RSD	.1414	4.091
#1	.0476	.0469
#2	.0477	.0507
#3	.0477	.0478

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**121910.**	**24593.**	**3293.0**	**5301.8**
Stddev	165.	70.	5.1	10.5
%RSD	.13519	.28564	.15563	.19780
#1	121770.	24545.	3287.9	5291.0
#2	122090.	24560.	3298.1	5302.4
#3	121860.	24673.	3292.9	5311.9

Zoom In Zoom Out

Sample Name: JC85326-5F Acquired: 4/2/2019 22:42:26 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0312**	**.0000**	**.0001**	**.0001**	**.0004**	**.0037**	**.0758**	**.0018**
Stddev	.0002	.0000	.0001	.0002	.0001	.0002	.0001	.0001
%RSD	.6251	361.0	69.95	128.5	25.85	5.091	.1023	4.378
#1	.0310	-.0000	.0002	.0002	.0003	.0039	.0759	.0017
#2	.0312	.0001	.0000	-.0001	.0003	.0035	.0758	.0018
#3	.0314	.0000	.0001	.0003	.0005	.0037	.0757	.0018

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**.0018**	**.0120**	**-.0011**	**.0055**	F **-.0051**	**.0014**	**.0029**
Stddev	.0000	.0002	.0002	.0010	.0021	.0009	.0005	.0006
%RSD	2.683	10.34	1.687	89.32	39.14	17.27	37.61	21.36
#1	-.0016	.0016	.0120	-.0018	.0078	-.0041	.0020	.0033
#2	-.0015	.0020	.0118	.0000	.0035	-.0055	.0010	.0022
#3	-.0015	.0018	.0122	-.0014	.0051	-.0058	.0011	.0033

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0548**	**124.8**	**.0750**	F **349.9**	**117.2**	*****	**1.262**	**.0032**
Stddev	.0066	.8	.0001	1.2	.3	-----	.001	.0002
%RSD	12.10	.6735	.1725	.3569	.2947	-----	.0990	4.769
#1	.0600	123.9	.0750	348.7	117.0	-----	1.263	.0032
#2	.0473	124.8	.0751	349.8	117.1	-----	1.262	.0033
#3	.0571	125.6	.0748	351.2	117.6	-----	1.261	.0030

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.875**	**-.0015**	**2.201**	**.0018**	**.0001**	**-.0014**	F **260.4**	**.0020**
Stddev	.007	.0008	.008	.0001	.0006	.0000	1.0	.0005
%RSD	.3705	50.53	.3835	6.663	542.4	1.983	.3688	26.72
#1	1.867	-.0007	2.199	.0017	.0008	-.0014	260.4	.0016
#2	1.876	-.0017	2.193	.0020	-.0003	-.0014	261.4	.0026
#3	1.881	-.0022	2.210	.0019	-.0001	-.0014	259.4	.0018

Zoom In Zoom Out

Sample Name: JC85326-5F Acquired: 4/2/2019 22:42:26 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0567**	**.0614**
Stddev	.0013	.0007
%RSD	2.312	1.124
#1	.0553	.0617
#2	.0571	.0619
#3	.0578	.0606

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**121030.**	**24321.**	**3268.8**	**5245.2**
Stddev	287.	111.	1.5	5.0
%RSD	.23694	.45574	.04530	.09576
#1	120760.	24409.	3269.2	5241.6
#2	121330.	24358.	3267.1	5243.1
#3	121000.	24196.	3270.0	5250.9

Zoom In Zoom Out

Sample Name: JC85326-6F Acquired: 4/2/2019 22:47:49 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0266**	**.0001**	**.0001**	**-.0000**	**.0001**	**.0026**	**.0653**	**.0018**
Stddev	.0002	.0001	.0001	.0000	.0000	.0002	.0002	.0004
%RSD	.6404	81.65	154.2	541.6	9.091	7.129	.2985	20.91
#1	.0268	.0001	.0002	-.0000	.0001	.0026	.0656	.0017
#2	.0266	.0001	-.0000	.0000	.0001	.0024	.0652	.0022
#3	.0264	.0000	.0000	-.0000	.0001	.0028	.0652	.0015

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0018**	**.0014**	**.0057**	**-.0015**	**.0069**	F **-.0086**	**.0014**	**.0041**
Stddev	.0004	.0003	.0002	.0032	.0017	.0008	.0014	.0017
%RSD	20.07	21.39	4.164	216.1	24.72	9.493	95.51	40.45
#1	-.0020	.0011	.0060	-.0025	.0065	-.0092	.0011	.0029
#2	-.0020	.0017	.0056	.0021	.0055	-.0090	.0030	.0034
#3	-.0014	.0014	.0056	-.0039	.0088	-.0077	.0003	.0060

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0236**	**161.7**	**.0118**	F **490.8**	**165.3**	*****	**1.785**	**.0044**
Stddev	.0029	.8	.0016	1.0	.5	-----	.004	.0002
%RSD	12.30	.4756	13.52	.2075	.2746	-----	.2138	3.767
#1	.0243	161.9	.0102	489.8	165.8	-----	1.789	.0043
#2	.0204	162.4	.0117	491.8	165.0	-----	1.783	.0046
#3	.0261	160.9	.0134	490.8	165.0	-----	1.783	.0043

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.471**	**-.0016**	**3.026**	**.0000**	**.0015**	**-.0012**	F **365.5**	**.0033**
Stddev	.003	.0004	.040	.0002	.0010	.0001	1.7	.0010
%RSD	.2096	25.99	1.320	94050.	66.61	6.116	.4606	30.71
#1	1.475	-.0021	3.071	.0001	.0020	-.0013	366.6	.0021
#2	1.469	-.0015	2.993	.0002	.0020	-.0013	363.6	.0040
#3	1.470	-.0013	3.015	-.0002	.0003	-.0012	366.4	.0037

Zoom In Zoom Out

Sample Name: JC85326-6F Acquired: 4/2/2019 22:47:49 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0804**	**.0582**
Stddev	.0004	.0025
%RSD	.5292	4.319
#1	.0804	.0611
#2	.0809	.0566
#3	.0800	.0570

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**115430.**	**23649.**	**3126.2**	**4979.8**
Stddev	663.	27.	4.3	4.6
%RSD	.57417	.11563	.13912	.09320
#1	114670.	23657.	3121.4	4974.4
#2	115790.	23671.	3129.9	4982.5
#3	115840.	23618.	3127.3	4982.4

Zoom In Zoom Out

Sample Name: JC85326-7F Acquired: 4/2/2019 22:53:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0255**	**.0000**	**.0000**	**.0001**	**.0003**	**.0023**	**.0611**	**.0018**
Stddev	.0002	.0000	.0005	.0002	.0003	.0001	.0005	.0006
%RSD	.7497	126.4	4684.	113.8	99.44	3.434	.7676	31.41
#1	.0254	.0001	.0003	.0003	-.0000	.0024	.0616	.0018
#2	.0257	-.0000	.0003	-.0000	.0003	.0024	.0609	.0012
#3	.0254	.0001	-.0005	.0002	.0005	.0022	.0608	.0023

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.0020**	**.0075**	**-.0013**	**.0084**	F **-.0069**	**.0025**	**.0028**
Stddev	.0005	.0003	.0002	.0005	.0006	.0004	.0029	.0006
%RSD	26.56	15.31	2.239	40.69	7.645	5.772	115.7	21.17
#1	-.0012	.0019	.0074	-.0018	.0091	-.0070	.0057	.0023
#2	-.0021	.0023	.0077	-.0013	.0078	-.0072	.0020	.0028
#3	-.0018	.0017	.0076	-.0008	.0082	-.0064	-.0001	.0035

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0182**	**160.5**	**.0162**	F **484.4**	**164.4**	*****	**1.764**	**.0041**
Stddev	.0033	1.7	.0009	1.3	.7	-----	.005	.0002
%RSD	17.96	1.040	5.249	.2613	.4485	-----	.2815	3.902
#1	.0219	160.3	.0153	483.4	163.6	-----	1.769	.0043
#2	.0156	162.3	.0165	483.9	164.6	-----	1.764	.0040
#3	.0171	159.0	.0169	485.8	165.1	-----	1.759	.0040

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.407**	**.0037**	**3.001**	**.0002**	**.0003**	**-.0013**	F **363.5**	**.0023**
Stddev	.004	.0005	.026	.0003	.0006	.0000	1.6	.0014
%RSD	.3169	13.84	.8758	165.3	193.9	3.175	.4386	60.98
#1	1.410	.0032	2.978	-.0002	-.0001	-.0013	365.2	.0023
#2	1.410	.0039	2.994	.0005	-.0000	-.0013	363.2	.0037
#3	1.402	.0042	3.029	.0003	.0010	-.0012	362.0	.0009

Zoom In Zoom Out

Sample Name: JC85326-7F Acquired: 4/2/2019 22:53:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0789**	**.0550**
Stddev	.0010	.0007
%RSD	1.213	1.238
#1	.0794	.0557
#2	.0777	.0544
#3	.0794	.0547

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**116280.**	**23799.**	**3159.8**	**5023.8**
Stddev	482.	66.	8.0	10.8
%RSD	.41443	.27644	.25397	.21405
#1	115720.	23875.	3151.6	5015.5
#2	116560.	23766.	3159.9	5020.0
#3	116550.	23757.	3167.7	5036.0

Zoom In Zoom Out

Sample Name: JC85326-8F Acquired: 4/2/2019 22:58:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0256**	**.0001**	**.0000**	**.0001**	**.0000**	**.0026**	**.0626**	**.0015**
Stddev	.0001	.0000	.0002	.0001	.0001	.0003	.0002	.0002
%RSD	.3299	67.59	447.7	129.4	301.7	11.80	.3973	12.76
#1	.0256	.0001	-.0002	-.0000	-.0001	.0025	.0624	.0017
#2	.0257	.0001	.0001	.0001	.0002	.0030	.0629	.0014
#3	.0255	.0000	.0001	.0002	.0001	.0024	.0625	.0014

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**.0015**	**.0062**	**-.0005**	**.0072**	F **-.0063**	**.0011**	**.0039**
Stddev	.0005	.0001	.0001	.0014	.0018	.0013	.0008	.0005
%RSD	25.72	6.297	1.215	292.2	25.04	19.87	71.35	12.33
#1	-.0014	.0016	.0063	-.0005	.0091	-.0053	.0017	.0044
#2	-.0021	.0014	.0063	.0009	.0067	-.0077	.0002	.0038
#3	-.0023	.0015	.0062	-.0019	.0056	-.0059	.0014	.0034

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0241**	**146.9**	**.0122**	F **438.2**	**149.8**	*****	**1.614**	**.0038**
Stddev	.0054	1.6	.0007	1.2	.5	-----	.010	.0001
%RSD	22.64	1.073	5.540	.2841	.3194	-----	.6204	2.346
#1	.0266	147.3	.0118	438.5	150.0	-----	1.625	.0039
#2	.0278	148.2	.0118	439.2	150.0	-----	1.608	.0037
#3	.0178	145.2	.0129	436.8	149.2	-----	1.608	.0038

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.480**	**-.0019**	**2.723**	**.0001**	**-.0002**	**-.0013**	F **332.3**	**.0032**
Stddev	.010	.0015	.055	.0001	.0006	.0000	2.5	.0006
%RSD	.6636	79.06	2.001	100.3	257.8	1.721	.7545	17.28
#1	1.492	-.0036	2.695	.0002	-.0008	-.0013	335.0	.0029
#2	1.476	-.0013	2.786	-.0000	.0004	-.0013	331.8	.0038
#3	1.474	-.0008	2.688	.0001	-.0003	-.0013	330.0	.0028

Zoom In Zoom Out

Sample Name: JC85326-8F Acquired: 4/2/2019 22:58:50 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0717**	**.0483**
Stddev	.0010	.0006
%RSD	1.405	1.202
#1	.0727	.0476
#2	.0716	.0485
#3	.0707	.0488

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**116590.**	**23821.**	**3166.4**	**5049.3**
Stddev	210.	109.	17.9	26.4
%RSD	.18042	.45606	.56536	.52339
#1	116710.	23810.	3145.7	5018.8
#2	116350.	23718.	3177.2	5065.4
#3	116710.	23934.	3176.2	5063.7

Zoom In Zoom Out

Sample Name: JC85326-9F Acquired: 4/2/2019 23:04:21 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0256**	**.0000**	**.0002**	**-.0000**	**.0004**	**.0025**	**.0622**	**.0016**
Stddev	.0001	.0000	.0002	.0002	.0001	.0004	.0011	.0006
%RSD	.3635	420.1	111.4	892.7	12.42	14.82	1.805	36.38
#1	.0257	.0000	-.0000	-.0001	.0005	.0025	.0632	.0012
#2	.0255	.0001	.0003	.0002	.0004	.0022	.0610	.0014
#3	.0255	-.0000	.0002	-.0002	.0004	.0029	.0624	.0022

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.0016**	**.0053**	**-.0028**	**.0075**	F **-.0079**	**.0011**	**.0032**
Stddev	.0004	.0003	.0001	.0016	.0005	.0012	.0021	.0005
%RSD	24.94	16.92	1.690	56.61	7.277	15.51	187.2	16.45
#1	-.0021	.0018	.0052	-.0045	.0079	-.0066	.0035	.0035
#2	-.0014	.0017	.0054	-.0028	.0076	-.0091	.0000	.0026
#3	-.0014	.0013	.0053	-.0013	.0069	-.0079	-.0002	.0035

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0153**	**152.8**	**.0105**	F **459.1**	**157.9**	*****	**1.664**	**.0040**
Stddev	.0085	.5	.0023	.8	.6	-----	.015	.0000
%RSD	55.73	.3457	22.25	.1774	.4016	-----	.8822	1.221
#1	.0065	152.3	.0119	459.4	158.5	-----	1.673	.0040
#2	.0236	152.9	.0117	458.2	158.1	-----	1.672	.0040
#3	.0158	153.3	.0078	459.7	157.2	-----	1.647	.0041

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.445**	**-.0014**	**2.874**	**-.0000**	**.0011**	**-.0008**	F **341.8**	**.0044**
Stddev	.009	.0005	.036	.0001	.0004	.0001	1.9	.0005
%RSD	.5941	36.85	1.262	478.6	38.73	7.607	.5532	11.25
#1	1.446	-.0020	2.901	.0000	.0011	-.0008	342.8	.0050
#2	1.453	-.0010	2.833	.0000	.0007	-.0008	343.0	.0043
#3	1.436	-.0013	2.888	-.0001	.0015	-.0009	339.6	.0040

Zoom In Zoom Out

Sample Name: JC85326-9F Acquired: 4/2/2019 23:04:21 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0754**	**.0510**
Stddev	.0009	.0008
%RSD	1.251	1.628
#1	.0748	.0513
#2	.0765	.0500
#3	.0749	.0516

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117480.**	**23397.**	**3197.3**	**5086.2**
Stddev	1740.	74.	23.2	32.8
%RSD	1.4808	.31776	.72657	.64519
#1	115860.	23314.	3184.6	5068.8
#2	119320.	23457.	3183.2	5065.7
#3	117280.	23421.	3224.1	5124.0

Zoom In Zoom Out

Sample Name: JC85326-11F Acquired: 4/2/2019 23:09:52 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0000**	**.0000**	**-.0001**	**.0002**	**-.0001**	**.0002**	**.0001**	**-.0013**
Stddev	.0001	.0000	.0001	.0000	.0001	.0002	.0000	.0001	.0004
%RSD	4.968	164.1	1151.	54.12	55.47	214.7	6.933	95.22	29.42
#1	.0014	-.0000	.0000	-.0001	.0002	-.0004	.0002	-.0000	-.0011
#2	.0015	.0000	-.0001	-.0000	.0001	.0001	.0002	.0002	-.0011
#3	.0016	.0000	.0001	-.0001	.0002	-.0000	.0002	.0002	-.0018

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0009**	**-.0003**	**-.0012**	**.0001**	**.0005**	**.0010**	**.0250**	**.0141**
Stddev	.0001	.0001	.0002	.0007	.0004	.0003	.0008	.0058	.0018
%RSD	551.4	16.27	96.10	57.40	280.0	56.97	78.41	23.20	12.64
#1	.0001	.0009	-.0003	-.0005	.0006	.0006	.0003	.0253	.0161
#2	.0000	.0010	-.0005	-.0011	.0000	.0006	.0018	.0190	.0133
#3	-.0001	.0007	-.0000	-.0019	-.0002	.0002	.0008	.0306	.0128

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0043**	**.1134**	**1.071**	**.0033**	**.0001**	**.1056**	**.0013**	**.0010**
Stddev	.0019	.0058	.0225	.068	.0002	.0001	.0010	.0008	.0000
%RSD	210.8	134.2	19.82	6.370	6.690	122.3	.9150	59.52	1.424
#1	.0004	.0110	.1328	1.146	.0033	-.0000	.1067	.0007	.0010
#2	-.0001	.0008	.1186	1.054	.0034	.0002	.1049	.0022	.0010
#3	-.0030	.0011	.0888	1.013	.0030	.0002	.1052	.0011	.0010

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0004**	**.0002**	**.0096**	**.0007**	**-.0006**	**.0052**
Stddev	.0003	.0006	.0000	.0021	.0010	.0008	.0006
%RSD	311.0	148.8	24.45	21.74	135.5	122.3	11.94
#1	.0003	.0010	.0001	.0074	.0018	-.0007	.0046
#2	.0002	.0003	.0002	.0096	-.0002	-.0013	.0051
#3	-.0002	-.0001	.0002	.0116	.0006	.0002	.0059

Zoom In Zoom Out

Sample Name: JC85326-11F Acquired: 4/2/2019 23:09:52 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**155460.**	**25919.**	**4065.6**	**7463.8**
Stddev	640.	247.	4.5	14.1
%RSD	.41192	.95336	.11155	.18901
#1	154900.	25978.	4068.6	7474.6
#2	155310.	26132.	4067.7	7469.1
#3	156160.	25648.	4060.3	7447.9

Zoom In Zoom Out

Sample Name: MP13758-MB1 Acquired: 4/2/2019 23:15:05 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**-.0001**	**.0001**	**-.0001**	**-.0001**	**.0000**	**.0000**	**-.0013**
Stddev	.0001	.0000	.0001	.0001	.0001	.0002	.0000	.0003	.0001
%RSD	34.68	55.53	134.5	156.6	108.0	145.2	38.77	916.6	9.783
#1	.0003	-.0001	-.0002	.0002	-.0002	.0001	.0001	.0001	-.0013
#2	.0004	-.0000	-.0002	-.0001	-.0001	-.0002	.0000	.0003	-.0012
#3	.0002	-.0001	.0001	.0001	.0000	-.0003	.0000	-.0003	-.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0017**	**-.0012**	**-.0002**	**.0004**	**-.0011**	**.0015**	**-.0033**	**.0051**
Stddev	.0001	.0000	.0016	.0010	.0013	.0013	.0018	.0015	.0016
%RSD	149.9	2.720	133.8	512.5	305.0	115.5	120.6	45.97	31.01
#1	-.0001	.0016	-.0024	-.0013	.0001	-.0001	-.0004	-.0022	.0063
#2	-.0002	.0017	-.0018	-.0000	-.0007	-.0025	.0032	-.0051	.0033
#3	.0000	.0017	.0006	.0007	.0019	-.0007	.0017	-.0027	.0057

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0158**	**.0647**	**.5846**	**.0008**	**.0000**	**.0060**	**-.0010**	**-.0000**
Stddev	.0014	.0097	.0094	.0133	.0009	.0001	.0004	.0002	.0001
%RSD	504.3	61.05	14.55	2.268	105.9	204.6	7.255	16.53	208.0
#1	-.0014	.0270	.0572	.5999	.0012	-.0000	.0063	-.0010	-.0001
#2	.0012	.0099	.0618	.5776	-.0002	-.0000	.0055	-.0012	.0000
#3	-.0006	.0107	.0753	.5763	.0015	.0001	.0060	-.0009	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0001**	**.0000**	**.0038**	**-.0008**	**-.0001**	**.0040**
Stddev	.0000	.0002	.0001	.0009	.0011	.0010	.0009
%RSD	32.26	129.9	549.0	23.09	143.0	1164.	23.50
#1	.0000	.0000	-.0000	.0031	-.0016	.0011	.0050
#2	.0001	-.0003	.0001	.0048	.0005	-.0009	.0032
#3	.0001	-.0001	-.0000	.0035	-.0011	-.0004	.0038

Zoom In Zoom Out

Sample Name: MP13758-MB1 Acquired: 4/2/2019 23:15:05 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**152720.**	**25409.**	**4003.7**	**7351.8**
Stddev	692.	171.	13.9	15.9
%RSD	.45284	.67107	.34801	.21615
#1	151940.	25286.	3994.9	7340.2
#2	152930.	25336.	3996.4	7345.2
#3	153270.	25603.	4019.8	7369.9

Zoom In Zoom Out

Sample Name: MP13758-B1 Acquired: 4/2/2019 23:20:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.015**	**1.883**	**1.924**	**1.902**	**1.941**	**1.858**	**1.965**	**1.961**
Stddev	.009	.009	.002	.001	.002	.002	.001	.001
%RSD	.4286	.4986	.0870	.0441	.0779	.0998	.0230	.0688
#1	2.023	1.891	1.926	1.901	1.942	1.860	1.965	1.962
#2	2.015	1.885	1.923	1.903	1.942	1.858	1.965	1.960
#3	2.006	1.873	1.923	1.902	1.939	1.856	1.964	1.963

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2377**	**1.920**	**1.928**	**1.885**	**1.994**	**1.901**	**1.860**	**1.984**
Stddev	.0006	.001	.002	.006	.006	.002	.002	.003
%RSD	.2449	.0324	.1250	.3220	.2830	.1075	.0841	.1423
#1	.2383	1.920	1.926	1.891	2.001	1.901	1.859	1.980
#2	.2376	1.920	1.931	1.884	1.990	1.902	1.862	1.985
#3	.2372	1.919	1.928	1.879	1.992	1.898	1.860	1.986

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.70**	**23.86**	**22.73**	**22.95**	**25.09**	**25.29**	**1.934**	**1.972**
Stddev	.15	.16	.10	.19	.15	.09	.001	.002
%RSD	.6221	.6798	.4382	.8206	.6151	.3645	.0553	.0822
#1	24.85	24.01	22.83	23.13	25.22	25.38	1.934	1.973
#2	24.69	23.89	22.74	22.98	25.13	25.30	1.933	1.974
#3	24.55	23.69	22.63	22.75	24.92	25.19	1.935	1.970

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0047**	**1.967**	**1.979**	**1.985**	**1.909**	**1.914**	F **-.0553**	**.0350**
Stddev	.0019	.005	.007	.002	.003	.001	.0040	.0006
%RSD	41.84	.2445	.3704	.1187	.1590	.0532	7.222	1.794
#1	-.0069	1.973	1.986	1.987	1.906	1.914	-.0587	.0357
#2	-.0040	1.965	1.979	1.985	1.909	1.914	-.0509	.0347
#3	-.0032	1.963	1.972	1.983	1.912	1.913	-.0563	.0346

Zoom In Zoom Out

Sample Name: MP13758-B1 Acquired: 4/2/2019 23:20:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0002**	**1.853**
Stddev	.0003	.007
%RSD	143.4	.3548
#1	.0002	1.860
#2	-.0001	1.847
#3	.0005	1.852

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**149290.**	**25616.**	**3971.5**	**6947.7**
Stddev	289.	251.	3.6	4.0
%RSD	.19347	.98061	.09119	.05752
#1	149600.	25344.	3969.6	6946.5
#2	149030.	25663.	3969.2	6944.5
#3	149250.	25840.	3975.7	6952.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 23:25:12 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.088**	**1.943**	**2.016**	**2.006**	**2.031**	**1.921**	**2.046**	**2.068**	**.2379**
Stddev	.003	.002	.004	.004	.003	.007	.003	.004	.0005
%RSD	.1233	.1185	.2044	.1770	.1399	.3776	.1454	.1692	.2150
#1	2.091	1.944	2.013	2.004	2.032	1.925	2.049	2.065	.2380
#2	2.086	1.941	2.015	2.004	2.032	1.912	2.043	2.067	.2373
#3	2.088	1.945	2.021	2.010	2.027	1.925	2.046	2.072	.2383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.998**	**2.023**	**1.964**	**2.075**	**2.004**	**1.960**	**2.040**	**39.79**	**38.43**
Stddev	.006	.001	.006	.006	.003	.002	.003	.11	.12
%RSD	.2844	.0603	.2917	.2686	.1507	.0941	.1494	.2718	.3141
#1	2.002	2.022	1.967	2.075	2.002	1.960	2.038	39.85	38.48
#2	1.991	2.024	1.957	2.070	2.004	1.962	2.040	39.85	38.51
#3	2.000	2.022	1.966	2.081	2.008	1.958	2.044	39.66	38.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.08**	**36.88**	**40.45**	**40.40**	**2.057**	**2.015**	**5.197**	**2.017**	**2.050**
Stddev	.13	.14	.10	.14	.004	.004	.010	.003	.007
%RSD	.3551	.3676	.2447	.3586	.2065	.2037	.1904	.1620	.3494
#1	36.17	36.91	40.44	40.44	2.054	2.014	5.186	2.014	2.052
#2	35.93	37.00	40.35	40.24	2.055	2.012	5.198	2.019	2.042
#3	36.14	36.73	40.55	40.52	2.062	2.020	5.206	2.020	2.056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/2/2019 23:25:12 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.042**	**2.006**	**1.967**	**1.968**	**2.007**	**2.171**	**1.962**
Stddev	.002	.005	.007	.008	.005	.002	.009
%RSD	.0959	.2724	.3618	.4045	.2696	.0782	.4644
#1	2.045	2.004	1.971	1.971	2.003	2.173	1.962
#2	2.042	2.002	1.959	1.958	2.005	2.169	1.952
#3	2.041	2.013	1.971	1.973	2.014	2.170	1.970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**148510.**	**25399.**	**3974.8**	**6822.1**
Stddev	169.	50.	4.0	8.4
%RSD	.11392	.19703	.10142	.12304
#1	148320.	25344.	3979.4	6831.3
#2	148640.	25442.	3971.9	6820.4
#3	148560.	25411.	3973.0	6814.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 23:30:03 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0001**	**.0001**	**.0002**	**.0003**	**-.0003**	**.0001**	**-.0000**	**-.0015**
Stddev	.0000	.0000	.0001	.0001	.0001	.0002	.0000	.0002	.0001
%RSD	14.20	41.16	56.95	61.25	52.84	60.23	25.42	792.7	8.500
#1	.0003	.0001	.0002	.0003	.0001	-.0001	.0001	-.0003	-.0015
#2	.0003	.0000	.0001	.0001	.0003	-.0005	.0001	.0001	-.0013
#3	.0002	.0001	.0001	.0002	.0004	-.0003	.0001	.0001	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**-.0009**	**.0006**	**.0003**	**.0005**	**.0002**	**.0007**	**-.0045**
Stddev	.0002	.0001	.0010	.0012	.0008	.0007	.0005	.0054	.0015
%RSD	180.8	75.15	111.4	201.8	268.4	157.0	202.8	803.5	32.89
#1	.0002	.0000	-.0001	.0017	.0010	.0003	.0008	.0067	-.0050
#2	.0003	.0002	-.0006	.0008	-.0006	.0012	-.0002	-.0012	-.0056
#3	-.0001	.0001	-.0021	-.0007	.0006	-.0002	.0001	-.0036	-.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0147**	**.0284**	**.2465**	**.0020**	**.0003**	**.0013**	**-.0000**	**.0001**
Stddev	.0015	.0118	.0150	.0014	.0004	.0002	.0006	.0004	.0000
%RSD	125.4	80.08	52.80	.5647	20.65	61.11	42.31	749.1	47.24
#1	.0017	.0194	.0139	.2465	.0024	.0004	.0009	.0003	.0000
#2	.0023	.0013	.0274	.2478	.0019	.0003	.0011	-.0004	.0001
#3	-.0005	.0235	.0438	.2450	.0016	.0001	.0020	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/2/2019 23:30:03 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0020**	**.0002**	**-.0007**	**-.0000**	**.0005**	**.0035**
Stddev	.0001	.0006	.0000	.0011	.0004	.0008	.0012
%RSD	378.0	28.29	17.31	156.4	876.7	178.5	35.75
#1	.0002	.0024	.0002	-.0020	-.0002	.0001	.0032
#2	.0001	.0013	.0002	-.0003	-.0003	.0014	.0049
#3	-.0001	.0022	.0001	.0001	.0004	-.0002	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**153670.**	**25517.**	**3996.0**	**7322.5**
Stddev	605.	54.	104.1	184.8
%RSD	.39369	.21004	2.6060	2.5235
#1	154300.	25490.	4052.7	7430.1
#2	153090.	25482.	4059.4	7428.2
#3	153630.	25579.	3875.8	7109.1

Zoom In Zoom Out

Sample Name: MP13758-S1 Acquired: 4/2/2019 23:35:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.215**	**1.917**	**1.960**	**1.920**	**1.940**	**1.901**	**3.067**	**1.979**	**.2427**
Stddev	.003	.002	.000	.002	.008	.002	.008	.001	.0017
%RSD	.1191	.0887	.0227	.1182	.4183	.0817	.2513	.0290	.6995
#1	2.215	1.919	1.960	1.922	1.950	1.900	3.064	1.979	.2445
#2	2.218	1.917	1.960	1.921	1.937	1.902	3.075	1.980	.2425
#3	2.212	1.916	1.960	1.918	1.935	1.900	3.061	1.979	.2411

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.941**	**1.897**	**1.916**	**1.990**	**1.910**	**1.887**	**2.020**	**25.09**	**127.5**
Stddev	.005	.006	.007	.003	.004	.002	.003	.06	.3
%RSD	.2414	.3348	.3791	.1700	.2126	.1084	.1349	.2297	.2627
#1	1.945	1.901	1.923	1.993	1.911	1.888	2.019	25.09	127.4
#2	1.942	1.899	1.918	1.990	1.914	1.885	2.023	25.15	127.1
#3	1.936	1.890	1.908	1.987	1.906	1.889	2.018	25.03	127.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.29**	**67.62**	**34.06**	**39.62**	**2.105**	**1.965**	**11.91**	**1.938**	**2.625**
Stddev	.02	.08	.11	.08	.005	.002	.00	.004	.021
%RSD	.0651	.1189	.3161	.2134	.2459	.1092	.0068	.2188	.8113
#1	23.29	67.60	34.18	39.71	2.102	1.967	11.91	1.942	2.640
#2	23.27	67.55	34.03	39.60	2.111	1.967	11.91	1.939	2.601
#3	23.30	67.71	33.97	39.54	2.103	1.963	11.91	1.933	2.635

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.008**	**1.947**	**1.931**	**6.955**	**.0358**	**.0286**	**1.915**
Stddev	.005	.002	.004	.023	.0005	.0008	.006
%RSD	.2535	.1003	.2227	.3323	1.272	2.786	.2972
#1	2.014	1.948	1.934	6.979	.0360	.0278	1.921
#2	2.006	1.948	1.933	6.955	.0353	.0294	1.915
#3	2.004	1.945	1.926	6.933	.0361	.0285	1.909

Zoom In Zoom Out

Sample Name: MP13758-S1 Acquired: 4/2/2019 23:35:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**144810.**	**25078.**	**3844.1**	**6544.9**
Stddev	295.	25.	2.6	7.2
%RSD	.20348	.10148	.06817	.10989
#1	144540.	25063.	3844.3	6549.5
#2	144760.	25107.	3841.4	6536.6
#3	145120.	25063.	3846.6	6548.7

Zoom In Zoom Out

Sample Name: MP13758-S2 Acquired: 4/2/2019 23:40:34 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.196**	**1.906**	**1.946**	**1.912**	**1.935**	**1.881**	**3.010**	**1.972**	**.2498**
Stddev	.003	.006	.009	.007	.003	.011	.013	.007	.0009
%RSD	.1374	.3229	.4724	.3644	.1657	.6058	.4368	.3416	.3712
#1	2.199	1.913	1.955	1.917	1.937	1.890	3.021	1.978	.2500
#2	2.194	1.903	1.946	1.915	1.937	1.886	3.013	1.973	.2506
#3	2.194	1.902	1.937	1.904	1.932	1.868	2.996	1.965	.2488

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.930**	**1.888**	**1.873**	**1.973**	**1.991**	**1.871**	**1.976**	**24.71**	**123.8**
Stddev	.008	.007	.006	.006	.010	.010	.007	.06	1.5
%RSD	.4156	.3633	.3156	.3101	.4917	.5130	.3629	.2397	1.251
#1	1.934	1.892	1.877	1.980	1.999	1.879	1.982	24.78	125.5
#2	1.935	1.892	1.876	1.968	1.993	1.874	1.977	24.66	123.4
#3	1.921	1.880	1.866	1.970	1.980	1.860	1.968	24.69	122.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.80**	**63.30**	**35.02**	**40.31**	**2.088**	**1.925**	**11.37**	**1.898**	**2.592**
Stddev	.11	.42	.11	.09	.011	.008	.06	.005	.063
%RSD	.5075	.6654	.3087	.2305	.5091	.4089	.5512	.2618	2.425
#1	21.93	63.79	35.13	40.42	2.100	1.933	11.44	1.901	2.650
#2	21.78	63.06	35.00	40.26	2.084	1.925	11.37	1.901	2.601
#3	21.71	63.05	34.92	40.26	2.081	1.917	11.31	1.892	2.525

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.975**	**1.911**	**1.892**	**6.625**	**.0334**	**.0278**	**1.891**
Stddev	.005	.007	.009	.007	.0016	.0002	.002
%RSD	.2605	.3790	.4658	.0997	4.943	.8815	.0880
#1	1.978	1.918	1.897	6.624	.0316	.0281	1.892
#2	1.978	1.912	1.898	6.620	.0348	.0277	1.889
#3	1.969	1.904	1.882	6.633	.0338	.0276	1.891

Zoom In Zoom Out

Sample Name: MP13758-S2 Acquired: 4/2/2019 23:40:34 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**146830.**	**25298.**	**3898.4**	**6628.0**
Stddev	391.	197.	6.1	4.1
%RSD	.26597	.77983	.15706	.06115
#1	146740.	25070.	3892.5	6623.5
#2	146500.	25418.	3898.0	6629.2
#3	147260.	25405.	3904.8	6631.4

Zoom In Zoom Out

Sample Name: JC85367-1F Acquired: 4/2/2019 23:45:49 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1587**	**.0000**	**.0001**	**-.0001**	**.0004**	**.0001**	**1.187**	**.0005**	**-.0017**
Stddev	.0003	.0000	.0001	.0003	.0002	.0001	.001	.0002	.0002
%RSD	.2026	11420.	127.7	321.6	50.57	100.5	.1134	30.90	12.13
#1	.1587	-.0000	.0001	.0000	.0002	.0001	1.185	.0005	-.0014
#2	.1590	.0000	.0001	-.0004	.0006	-.0000	1.187	.0007	-.0017
#3	.1584	.0000	-.0000	.0001	.0004	.0003	1.188	.0004	-.0018

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0011**	**-.0004**	**.0005**	**-.0012**	**.0005**	**.0018**	**.0114**	**106.2**
Stddev	.0001	.0002	.0014	.0005	.0008	.0015	.0011	.0056	.1
%RSD	6.493	13.54	379.0	99.19	65.11	283.4	64.23	49.25	.0879
#1	.0020	.0010	.0000	.0011	-.0017	.0003	.0019	.0050	106.3
#2	.0022	.0013	-.0020	.0002	-.0003	.0021	.0029	.0156	106.2
#3	.0019	.0011	.0008	.0003	-.0016	-.0008	.0006	.0135	106.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6212**	**43.21**	**8.695**	**14.34**	**.1481**	**.0004**	**12.14**	**-.0006**	**.6370**
Stddev	.0011	.05	.028	.02	.0006	.0002	.04	.0005	.0009
%RSD	.1713	.1112	.3171	.1204	.4287	42.94	.3109	86.98	.1338
#1	.6213	43.26	8.704	14.32	.1480	.0005	12.18	-.0008	.6361
#2	.6221	43.21	8.664	14.34	.1475	.0002	12.11	-.0000	.6378
#3	.6200	43.17	8.716	14.35	.1487	.0004	12.12	-.0010	.6371

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0021**	**-.0063**	**7.112**	**.0004**	**.0283**	**.0088**
Stddev	.0001	.0004	.0001	.035	.0006	.0001	.0009
%RSD	22.09	18.05	1.470	.4927	152.3	.5272	9.869
#1	-.0002	.0026	-.0063	7.149	.0011	.0285	.0090
#2	-.0004	.0018	-.0062	7.079	-.0000	.0282	.0079
#3	-.0003	.0020	-.0063	7.107	.0001	.0282	.0096

Zoom In Zoom Out

Sample Name: JC85367-1F Acquired: 4/2/2019 23:45:49 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**147850.**	**25482.**	**3895.8**	**6792.4**
Stddev	308.	55.	5.9	14.0
%RSD	.20826	.21541	.15206	.20599
#1	147870.	25425.	3890.3	6783.8
#2	147530.	25534.	3902.1	6808.6
#3	148150.	25487.	3895.2	6784.9

Zoom In Zoom Out

Sample Name: MP13758-SD1 Acquired: 4/2/2019 23:50:58 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1640**	**-.0002**	**-.0003**	**-.0001**	**.0005**	**.0034**	**1.233**	**.0000**	**-.0078**
Stddev	.0006	.0001	.0010	.0004	.0009	.0006	.002	.0005	.0012
%RSD	.3489	70.18	323.4	763.9	184.1	18.29	.1376	2150.	15.40
#1	.1645	-.0001	.0008	-.0004	.0008	.0038	1.231	-.0004	-.0064
#2	.1634	-.0001	-.0009	.0004	-.0005	.0027	1.233	.0006	-.0085
#3	.1639	-.0003	-.0008	-.0001	.0012	.0037	1.235	-.0001	-.0084

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0033**	**-.0026**	**-.0023**	**-.0004**	**-.0010**	**.0060**	**-.0132**	**109.4**
Stddev	.0007	.0003	.0031	.0012	.0030	.0062	.0033	.0217	.1
%RSD	29.38	8.360	115.4	50.80	849.5	590.4	55.38	163.9	.0970
#1	.0017	.0034	-.0049	-.0036	-.0015	.0003	.0087	-.0361	109.4
#2	.0022	.0030	-.0039	-.0019	-.0027	.0044	.0071	-.0104	109.4
#3	.0030	.0035	.0008	-.0014	.0031	-.0078	.0023	.0069	109.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7017**	**44.70**	**8.860**	**15.18**	**.1528**	**.0007**	**12.22**	**-.0010**	**.6491**
Stddev	.0026	.15	.159	.04	.0043	.0015	.15	.0038	.0010
%RSD	.3711	.3440	1.795	.2937	2.818	228.3	1.220	382.5	.1510
#1	.7010	44.80	8.783	15.22	.1578	-.0011	12.38	.0025	.6501
#2	.6996	44.52	9.043	15.13	.1502	.0013	12.21	-.0051	.6482
#3	.7046	44.77	8.756	15.18	.1505	.0017	12.08	-.0003	.6490

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0066**	**-.0057**	**7.038**	**-.0001**	**.0256**	**.0243**
Stddev	.0008	.0022	.0002	.083	.0025	.0025	.0056
%RSD	90.92	33.26	3.113	1.180	2207.	9.778	22.92
#1	.0007	.0063	-.0059	7.122	.0003	.0284	.0225
#2	.0002	.0088	-.0055	7.038	.0021	.0236	.0198
#3	.0017	.0045	-.0057	6.956	-.0028	.0248	.0305

Zoom In Zoom Out

Sample Name: MP13758-SD1 Acquired: 4/2/2019 23:50:58 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**150210.**	**25232.**	**3993.4**	**7186.3**
Stddev	362.	17.	29.0	47.2
%RSD	.24080	.06917	.72503	.65706
#1	150000.	25212.	3966.0	7139.1
#2	150630.	25243.	3990.5	7186.2
#3	149990.	25240.	4023.7	7233.5

Zoom In Zoom Out

Sample Name: JC85367-2F Acquired: 4/2/2019 23:56:10 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3650**	**-.0000**	**.0001**	**.0008**	**.0001**	**.0006**	**.1823**	**.0855**	**-.0014**
Stddev	.0007	.0000	.0002	.0001	.0001	.0002	.0007	.0014	.0001
%RSD	.1842	99.60	304.1	10.17	108.6	32.89	.3645	1.617	9.292
#1	.3649	-.0000	.0002	.0007	-.0000	.0007	.1828	.0870	-.0014
#2	.3657	-.0001	-.0000	.0008	.0001	.0006	.1816	.0853	-.0013
#3	.3644	-.0000	-.0001	.0009	.0003	.0004	.1825	.0842	-.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0272**	**.0016**	**-.0000**	**.0029**	**-.0003**	**.0031**	**.0087**	**76.67**
Stddev	.0003	.0006	.0009	.0019	.0010	.0004	.0012	.0048	.33
%RSD	58.26	2.038	56.00	11970.	33.46	148.7	37.65	54.65	.4244
#1	.0003	.0278	.0009	.0014	.0032	-.0007	.0037	.0117	77.02
#2	.0003	.0270	.0013	-.0021	.0036	.0001	.0038	.0032	76.38
#3	.0007	.0268	.0026	.0007	.0018	-.0002	.0018	.0112	76.63

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0996**	**9.713**	**2.881**	**3.786**	**.0353**	**.0013**	**7.537**	**-.0008**	**.3871**
Stddev	.0020	.058	.023	.006	.0005	.0002	.133	.0006	.0005
%RSD	2.034	.5961	.8006	.1651	1.289	19.08	1.762	76.34	.1372
#1	.1017	9.759	2.901	3.779	.0355	.0015	7.689	-.0003	.3866
#2	.0977	9.648	2.887	3.791	.0348	.0010	7.475	-.0016	.3877
#3	.0996	9.732	2.856	3.788	.0356	.0014	7.446	-.0007	.3871

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0033**	**-.0038**	**2.367**	**-.0008**	**.0061**	**.0090**
Stddev	.0003	.0010	.0001	.040	.0004	.0004	.0015
%RSD	656.0	30.96	3.685	1.684	49.00	6.004	16.98
#1	-.0001	.0039	-.0039	2.413	-.0006	.0058	.0093
#2	-.0003	.0039	-.0038	2.348	-.0012	.0065	.0074
#3	.0003	.0021	-.0036	2.341	-.0006	.0059	.0104

Zoom In Zoom Out

Sample Name: JC85367-2F Acquired: 4/2/2019 23:56:10 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**149700.**	**25328.**	**3856.3**	**6856.4**
Stddev	238.	223.	64.9	103.1
%RSD	.15894	.87851	1.6827	1.5041
#1	149580.	25102.	3783.0	6741.4
#2	149980.	25547.	3879.4	6887.3
#3	149550.	25335.	3906.5	6940.5

Zoom In Zoom Out

Sample Name: JC85367-3F Acquired: 4/3/2019 0:01:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3600**	**.0000**	**.0000**	**.0010**	**-.0001**	**.0005**	**.1855**	**.0809**	**-.0017**
Stddev	.0008	.0000	.0001	.0002	.0001	.0003	.0005	.0007	.0001
%RSD	.2177	838.9	414.6	16.87	73.38	51.03	.2434	.8085	6.644
#1	.3591	.0001	-.0001	.0008	-.0002	.0008	.1854	.0808	-.0019
#2	.3605	-.0000	.0000	.0012	-.0001	.0002	.1851	.0817	-.0017
#3	.3605	-.0000	.0002	.0011	-.0000	.0006	.1860	.0804	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0282**	**.0014**	**-.0002**	**.0019**	**-.0022**	**.0015**	**.0094**	**76.20**
Stddev	.0000	.0001	.0007	.0006	.0004	.0016	.0010	.0062	.47
%RSD	8.267	.5017	50.35	386.6	23.42	71.46	62.91	66.56	.6143
#1	.0005	.0283	.0011	.0005	.0022	-.0035	.0011	.0101	75.76
#2	.0005	.0283	.0009	-.0008	.0014	-.0005	.0026	.0028	76.14
#3	.0004	.0281	.0021	-.0002	.0022	-.0026	.0008	.0153	76.69

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0990**	**9.834**	**2.892**	**3.799**	**.0341**	**.0011**	**7.380**	**-.0000**	**.3851**
Stddev	.0015	.101	.028	.019	.0006	.0000	.007	.0008	.0011
%RSD	1.553	1.029	.9632	.5006	1.749	4.584	.1008	4074.	.2982
#1	.0973	9.719	2.877	3.784	.0342	.0010	7.382	-.0009	.3839
#2	.0995	9.869	2.875	3.793	.0346	.0011	7.386	.0001	.3852
#3	.1002	9.912	2.924	3.821	.0335	.0011	7.372	.0008	.3861

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0013**	**-.0038**	**2.276**	**-.0011**	**.0063**	**.0110**
Stddev	.0001	.0009	.0001	.013	.0007	.0008	.0005
%RSD	31.45	66.55	2.568	.5623	63.40	13.45	4.661
#1	-.0002	.0010	-.0039	2.287	-.0012	.0053	.0115
#2	-.0003	.0007	-.0037	2.277	-.0003	.0067	.0112
#3	-.0002	.0023	-.0038	2.262	-.0017	.0068	.0105

Zoom In Zoom Out

Sample Name: JC85367-3F Acquired: 4/3/2019 0:01:19 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**149230.**	**25325.**	**3927.0**	**6969.2**
Stddev	360.	236.	7.7	17.6
%RSD	.24136	.92995	.19502	.25255
#1	149430.	25526.	3923.9	6961.9
#2	149440.	25383.	3921.3	6956.4
#3	148810.	25066.	3935.7	6989.3

Zoom In Zoom Out

Sample Name: JC85367-4F Acquired: 4/3/2019 0:06:29 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0346**	**.0000**	**-.0005**	**.0028**	**.0003**	**.0029**	**3.354**	**.0005**	**-.0015**
Stddev	.0005	.0000	.0002	.0002	.0003	.0004	.189	.0004	.0001
%RSD	1.328	27.75	40.04	8.595	98.81	15.36	5.630	77.99	4.674
#1	.0341	.0000	-.0004	.0026	.0005	.0026	3.250	.0003	-.0016
#2	.0348	.0000	-.0004	.0031	.0006	.0027	3.240	.0009	-.0015
#3	.0350	.0000	-.0007	.0027	-.0000	.0034	3.572	.0002	-.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**.0040**	**.0058**	**.0004**	**.0008**	**-.0028**	**-.0007**	**.0078**	**46.74**
Stddev	.0009	.0017	.0010	.0013	.0008	.0009	.0019	.0030	.45
%RSD	20.71	41.05	17.81	293.9	97.14	31.90	255.7	37.76	.9627
#1	.0043	.0059	.0047	-.0009	.0016	-.0033	-.0024	.0105	46.23
#2	.0037	.0033	.0066	.0016	.0002	-.0017	.0013	.0047	46.91
#3	.0055	.0029	.0062	.0006	.0006	-.0032	-.0011	.0084	47.09

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.05**	**24.88**	**2.731**	**56.09**	**.0707**	**.0009**	**5.473**	**-.0004**	**.2046**
Stddev	.35	.25	.025	.66	.0009	.0001	.035	.0005	.0026
%RSD	1.309	1.013	.9086	1.173	1.332	14.82	.6443	115.9	1.280
#1	26.64	24.59	2.703	55.34	.0718	.0008	5.485	-.0010	.2016
#2	27.29	25.01	2.746	56.55	.0703	.0010	5.501	-.0001	.2065
#3	27.22	25.03	2.746	56.40	.0701	.0008	5.433	-.0002	.2056

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0009**	**-.0032**	**49.09**	**-.0025**	**.0008**	**.0014**
Stddev	.0002	.0007	.0002	.26	.0008	.0001	.0009
%RSD	167.5	77.93	7.117	.5230	33.32	18.57	64.98
#1	-.0000	.0001	-.0031	49.31	-.0018	.0009	.0022
#2	.0000	.0012	-.0031	49.15	-.0034	.0006	.0004
#3	.0003	.0015	-.0035	48.81	-.0023	.0008	.0016

Zoom In Zoom Out

Sample Name: JC85367-4F Acquired: 4/3/2019 0:06:29 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**141740.**	**25054.**	**3842.4**	**6804.6**
Stddev	7465.	232.	26.2	53.5
%RSD	5.2668	.92744	.68170	.78631
#1	145570.	25311.	3821.5	6758.9
#2	146500.	24991.	3833.8	6791.5
#3	133130.	24859.	3871.8	6863.4

Zoom In Zoom Out

Sample Name: JC85391-1 Acquired: 4/3/2019 0:11:48 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0183**	**-.0000**	**-.0000**	**.0001**	**.0005**	**.0005**	**.0248**	**.0007**	**-.0017**
Stddev	.0002	.0000	.0001	.0001	.0001	.0004	.0001	.0002	.0004
%RSD	.8965	28.07	299.0	95.58	15.48	67.75	.2950	35.74	24.91
#1	.0183	-.0000	-.0000	-.0000	.0005	.0002	.0248	.0009	-.0020
#2	.0184	-.0000	.0001	.0001	.0005	.0009	.0247	.0006	-.0019
#3	.0181	-.0001	-.0001	.0002	.0006	.0005	.0248	.0005	-.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0025**	**-.0003**	**-.0006**	**.0006**	**-.0012**	**.0011**	**.1279**	**11.60**
Stddev	.0004	.0001	.0009	.0013	.0007	.0009	.0009	.0037	.02
%RSD	116.0	2.116	290.8	204.7	105.7	77.97	84.09	2.865	.1984
#1	.0004	.0026	-.0014	-.0002	.0013	-.0008	.0004	.1264	11.63
#2	.0006	.0025	.0005	.0004	.0005	-.0005	.0022	.1252	11.58
#3	-.0001	.0025	-.0001	-.0020	.0001	-.0022	.0008	.1321	11.60

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2371**	**1.731**	**1.344**	**16.57**	**.0109**	**.0003**	**3.195**	**-.0009**	**.0599**
Stddev	.0021	.009	.008	.01	.0009	.0000	.013	.0006	.0001
%RSD	.9019	.5036	.5705	.0584	8.400	12.00	.4007	70.92	.2492
#1	.2390	1.734	1.338	16.56	.0119	.0003	3.192	-.0002	.0597
#2	.2375	1.737	1.341	16.58	.0107	.0002	3.184	-.0013	.0599
#3	.2348	1.721	1.353	16.58	.0101	.0003	3.209	-.0013	.0600

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0012**	**-.0016**	**2.176**	**.0005**	**.0006**	**.0339**
Stddev	.0002	.0011	.0001	.014	.0002	.0004	.0007
%RSD	3.839	90.97	3.214	.6534	30.25	76.62	2.199
#1	.0050	.0001	-.0016	2.184	.0006	.0005	.0346
#2	.0047	.0022	-.0017	2.160	.0005	.0010	.0332
#3	.0048	.0013	-.0016	2.185	.0003	.0002	.0339

Zoom In Zoom Out

Sample Name: JC85391-1 Acquired: 4/3/2019 0:11:48 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**152690.**	**25634.**	**4020.7**	**7230.3**
Stddev	194.	198.	5.2	13.9
%RSD	.12708	.77297	.12971	.19220
#1	152550.	25405.	4016.9	7216.3
#2	152910.	25747.	4026.7	7244.1
#3	152610.	25749.	4018.5	7230.4

Zoom In Zoom Out

Sample Name: JC85391-2 Acquired: 4/3/2019 0:17:00 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0238**	**-.0000**	**-.0001**	**.0005**	**.0007**	**.0016**	**.3740**	**.0014**	**-.0018**
Stddev	.0001	.0000	.0000	.0001	.0001	.0001	.0017	.0001	.0002
%RSD	.5934	4.554	38.33	24.96	7.409	4.314	.4679	9.259	13.28
#1	.0239	-.0000	-.0001	.0006	.0008	.0016	.3739	.0015	-.0016
#2	.0237	-.0000	-.0001	.0006	.0007	.0016	.3757	.0015	-.0021
#3	.0237	-.0000	-.0001	.0004	.0008	.0015	.3722	.0013	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0311**	**.0140**	**.0025**	**.0005**	**.0005**	**-.0005**	**.0005**	**.2612**	**15.71**
Stddev	.0001	.0005	.0010	.0006	.0001	.0028	.0014	.0050	.03
%RSD	.3551	3.442	39.46	104.4	29.61	516.4	288.2	1.906	.2197
#1	.0310	.0145	.0022	.0004	.0005	.0012	-.0001	.2581	15.73
#2	.0312	.0138	.0036	.0001	.0006	.0010	.0021	.2585	15.72
#3	.0312	.0136	.0017	.0012	.0003	-.0038	-.0006	.2669	15.67

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.102**	**4.153**	**1.585**	**17.22**	**.3049**	**.0022**	**2.764**	**-.0004**	**.1644**
Stddev	.002	.013	.008	.01	.0017	.0002	.003	.0004	.0002
%RSD	.2106	.3223	.5147	.0865	.5432	7.031	.1011	116.2	.1293
#1	1.103	4.141	1.592	17.21	.3031	.0024	2.763	-.0009	.1646
#2	1.103	4.167	1.576	17.24	.3055	.0021	2.767	-.0001	.1642
#3	1.099	4.150	1.586	17.21	.3062	.0022	2.762	-.0002	.1644

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093**	**.0027**	**-.0011**	**3.373**	**-.0000**	**.0005**	**.0625**
Stddev	.0012	.0005	.0001	.031	.0005	.0015	.0008
%RSD	13.14	18.78	7.585	.9139	3479.	294.9	1.242
#1	.0086	.0030	-.0010	3.350	.0002	.0007	.0620
#2	.0107	.0030	-.0012	3.408	-.0005	.0019	.0634
#3	.0086	.0021	-.0011	3.362	.0003	-.0011	.0622

Zoom In Zoom Out

Sample Name: JC85391-2 Acquired: 4/3/2019 0:17:00 Type: Unk
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**152170.**	**25518.**	**4018.0**	**7216.9**
Stddev	625.	84.	11.4	23.1
%RSD	.41058	.32853	.28433	.31982
#1	152530.	25605.	4027.4	7241.8
#2	151450.	25437.	4005.3	7196.2
#3	152530.	25512.	4021.3	7212.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2019 0:22:11 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.137**	**1.976**	**2.046**	**2.040**	**2.076**	**1.963**	**2.090**	**2.110**	**.2411**
Stddev	.010	.013	.008	.005	.004	.002	.004	.008	.0009
%RSD	.4734	.6668	.3702	.2694	.1978	.0988	.1882	.3823	.3675
#1	2.137	1.976	2.053	2.045	2.076	1.962	2.089	2.119	.2405
#2	2.147	1.989	2.045	2.039	2.072	1.965	2.087	2.108	.2407
#3	2.127	1.963	2.038	2.034	2.080	1.963	2.094	2.103	.2421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.047**	**2.061**	**1.981**	**2.108**	**2.030**	**1.980**	**2.073**	**40.15**	**38.70**
Stddev	.003	.008	.003	.002	.009	.003	.007	.27	.34
%RSD	.1409	.3922	.1705	.1062	.4278	.1651	.3391	.6786	.8741
#1	2.044	2.070	1.984	2.110	2.039	1.983	2.079	40.25	38.85
#2	2.048	2.058	1.981	2.108	2.029	1.977	2.074	40.36	38.94
#3	2.049	2.055	1.977	2.105	2.022	1.979	2.065	39.84	38.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.38**	**37.13**	**40.89**	**41.45**	**2.080**	**2.046**	**5.001**	**2.047**	**2.096**
Stddev	.25	.30	.21	.24	.009	.008	.016	.007	.010
%RSD	.6895	.8152	.5203	.5713	.4064	.3781	.3144	.3231	.4968
#1	36.35	37.24	40.84	41.35	2.090	2.053	5.012	2.054	2.093
#2	36.65	37.36	41.12	41.73	2.078	2.048	5.009	2.045	2.107
#3	36.15	36.79	40.70	41.29	2.074	2.038	4.983	2.042	2.087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 4/3/2019 0:22:11 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.094**	**2.036**	**2.013**	**1.984**	**2.031**	F **2.208**	**1.979**
Stddev	.004	.009	.003	.003	.009	.012	.004
%RSD	.1655	.4453	.1547	.1390	.4504	.5512	.1933
#1	2.092	2.040	2.010	1.984	2.038	2.207	1.982
#2	2.092	2.042	2.014	1.981	2.036	2.220	1.974
#3	2.098	2.025	2.016	1.987	2.021	2.196	1.980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2.000	
Range						10.00%	

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**146270.**	**24816.**	**3924.2**	**6730.2**
Stddev	286.	313.	10.9	15.3
%RSD	.19563	1.2607	.27670	.22802
#1	146110.	24808.	3913.5	6713.2
#2	146600.	24507.	3923.8	6734.2
#3	146100.	25132.	3935.2	6743.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2019 0:27:02 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0000**	**-.0000**	**.0000**	**-.0003**	**-.0004**	**.0000**	**-.0001**	**-.0017**
Stddev	.0002	.0000	.0000	.0002	.0002	.0002	.0000	.0002	.0003
%RSD	109.4	148.7	99.51	645.3	70.05	41.70	15.73	338.6	20.26
#1	-.0000	-.0000	-.0000	.0003	-.0005	-.0006	.0000	-.0000	-.0017
#2	.0001	.0000	-.0000	-.0002	-.0001	-.0003	.0001	.0001	-.0020
#3	.0003	-.0000	-.0001	.0000	-.0003	-.0003	.0000	-.0003	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0000**	**.0002**	**.0002**	**-.0000**	**-.0002**	**.0009**	**-.0015**	**-.0093**
Stddev	.0001	.0002	.0011	.0012	.0007	.0002	.0013	.0033	.0022
%RSD	62.87	784.9	545.5	560.1	3506.	115.7	146.3	218.5	24.22
#1	-.0001	-.0001	.0012	-.0005	.0001	.0001	.0008	-.0020	-.0067
#2	-.0003	-.0000	-.0010	.0017	-.0007	-.0004	-.0003	.0020	-.0110
#3	-.0002	.0002	.0004	-.0005	.0006	-.0003	.0023	-.0046	-.0101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0024**	**.0076**	**.0261**	**.0603**	**.0009**	**.0000**	**.0007**	**.0004**	**-.0000**
Stddev	.0009	.0147	.0108	.0034	.0004	.0001	.0004	.0004	.0000
%RSD	35.30	193.8	41.44	5.680	42.17	279.4	58.32	92.85	63.28
#1	-.0030	.0046	.0149	.0566	.0008	-.0001	.0010	.0007	-.0000
#2	-.0029	.0236	.0365	.0609	.0013	.0001	.0007	.0007	-.0000
#3	-.0014	-.0054	.0270	.0633	.0006	.0001	.0003	-.0000	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 4/3/2019 0:27:02 Type: QC
Method: SGS No Vlave3(v343) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: : :
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0006**	**.0001**	**-.0020**	**-.0000**	**-.0012**	**.0035**
Stddev	.0001	.0009	.0002	.0017	.0004	.0004	.0008
%RSD	65.91	143.7	162.4	82.64	9055.	34.65	24.09
#1	.0003	-.0003	.0003	-.0031	-.0003	-.0012	.0040
#2	.0000	.0007	-.0001	-.0001	.0004	-.0008	.0025
#3	.0003	.0016	.0001	-.0030	-.0002	-.0017	.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**150280.**	**24649.**	**3992.6**	**7306.3**
Stddev	449.	75.	3.8	4.4
%RSD	.29868	.30587	.09470	.06085
#1	149840.	24723.	3988.3	7301.1
#2	150280.	24653.	3995.4	7308.5
#3	150730.	24573.	3994.0	7309.1

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	☒	1	Zr	0.000000	0.000000	No
Be 313.042 {108}	☒	12	V	0.001080	0.000000	No
			Mo	-0.000067	0.000000	No
			Ti	-0.000240	0.000000	No
			Mn	-0.000015	0.000000	No
			Cu	-0.000008	0.000000	No
			Zn	-0.000010	0.000000	No
			Al	0.000000	0.000000	No
			Ni	-0.000050	0.000000	No
			Cr	0.000003	0.000000	No
			Fe	-0.000000	0.000000	No
			Mg	-0.000000	0.000000	No
			K	0.000000	0.000000	No
Cd 228.802 {448}	☒	11	As	0.011440	0.000000	No
			Ni	-0.000270	0.000000	No
			Fe	-0.000003	0.000000	No
			V	0.000110	0.000000	No
			Ba	0.000021	0.000000	No
			Co	-0.001510	0.000000	No
			Mn	0.000013	0.000000	No
			Cr	0.000090	0.000000	No
			Cu	-0.000009	0.000000	No
			Ti	0.000000	0.000000	No
			Mo	0.000030	0.000000	No
Co 228.616 {448}	☒	7	Cr	0.000051	0.000000	No
			Mo	-0.000940	0.000000	No
			Ni	0.000091	0.000000	No
			Ti	0.001789	0.000000	No
			W	0.000160	0.000000	No
			Cd	0.000012	0.000000	No
			Be	0.000100	0.000000	No
Cr 267.716 {126}	☒	7	Mn	0.000160	0.000000	No
			Mo	-0.000099	0.000000	No
			Ba	0.000013	0.000000	No
			Cu	0.000020	0.000000	No
			Sr	-0.000100	0.000000	No
			Fe	-0.000016	0.000000	No
			W	0.000000	0.000000	No
Cu 324.754 {104}2	☒	15	Cr	0.000056	0.000000	No
			V	-0.000474	0.000000	No
			Mo	0.000515	0.000000	No
			Ti	-0.000040	0.000000	No
			Fe	-0.000055	0.000000	No
			Sn	0.000103	0.000000	No
			Co	-0.001131	0.000000	No
			Zr	0.000170	0.000000	No
			Si	-0.000007	0.000000	No
			Ag	-0.000077	0.000000	No
			Sb	0.000010	0.000000	No
			B	0.000000	0.000000	No
			Mg	-0.000001	0.000000	No
			Al	0.000005	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	8	Fe	-0.000090	0.000000	No
			Si	0.000011	0.000000	No
			Ba	0.000012	0.000000	No
			Ni	0.000028	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Mo	0.000000	0.000000	No
				Cr	-0.000110	0.000000	No
				Mg	0.000000	0.000000	No
				Al	0.000000	0.000000	No
	Ni 231.604 {446}	☒	10	Fe	0.000025	0.000000	No
				Zn	-0.000021	0.000000	No
				Be	-0.000112	0.000000	No
				Co	0.000115	0.000000	No
				Tl	0.000209	0.000000	No
				Mo	-0.000137	0.000000	No
				V	-0.000032	0.000000	No
				Cu	0.000078	0.000000	No
				Se	0.000286	0.000000	No
				Sn	-0.000026	0.000000	No
	Ag 328.068 {103}	☒	15	Mn	0.000162	0.000000	No
				Mo	-0.000181	0.000000	No
				Ti	-0.002575	0.000000	No
				Fe	-0.000301	0.000000	No
				V	-0.000291	0.000000	No
				Zn	0.000010	0.000000	No
				Ca	-0.000004	0.000000	No
				Al	-0.000005	0.000000	No
				Ba	-0.000095	0.000000	No
				Cr	0.000016	0.000000	No
				Si	-0.000000	0.000000	No
				Zr	0.007600	0.000000	No
				W	0.000000	0.000000	No
				Sn	0.000095	0.000000	No
				Ni	0.000020	0.000000	No
	V 292.402 {115}	☒	6	Ti	0.000734	0.000000	No
				Mo	-0.000100	0.000000	No
				Sr	0.000000	0.000000	No
				Cr	-0.006250	0.000000	No
				Mn	-0.002400	0.000000	No
				Fe	0.000010	0.000000	No
	Zn 206.200 {464}	☒	13	Cr	-0.001272	0.000000	No
				Mo	-0.000125	0.000000	No
				Fe	-0.000015	0.000000	No
				Ba	0.000108	0.000000	No
				Sr	-0.000023	0.000000	No
				Sn	0.000069	0.000000	No
				Cu	0.000156	0.000000	No
				As	0.000449	0.000000	No
				Be	0.000071	0.000000	No
				Bi	-0.002000	0.000000	No
				Mn	0.000055	0.000000	No
				W	0.000000	0.000000	No
				Al	0.000008	0.000000	No
	As 189.042 {478}	☒	22	Al	0.000000	0.000000	No
				Fe	-0.000064	0.000000	No
				Ca	-0.000005	0.000000	No
				Mn	-0.000092	0.000000	No
				Mo	0.000700	0.000000	No
				Cr	-0.002750	0.000000	No
				V	0.000033	0.000000	No
				Co	-0.000000	0.000000	No
				Sn	-0.000151	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Cd	0.000092	0.000000	No
				Tl	0.000150	0.000000	No
				Si	-0.000050	0.000000	No
				Zn	0.000030	0.000000	No
				Sr	-0.000090	0.000000	No
				Zr	-0.000300	0.000000	No
				Ti	-0.000176	0.000000	No
				Cu	0.000100	0.000000	No
				Ag	0.000300	0.000000	No
				Mg	-0.000001	0.000000	No
				W	0.000000	0.000000	No
				S	0.000006	0.000000	No
				B	0.000067	0.000000	No
	Tl 190.856 {477}	☒	24	Cr	0.000071	0.000000	No
				Mo	-0.008200	0.000000	No
				Al	0.000012	0.000000	No
				Fe	-0.000082	0.000000	No
				V	-0.022500	0.000000	No
				Mn	0.001341	0.000000	No
				Si	0.000035	0.000000	No
				Ca	-0.000003	0.000000	No
				Ti	-0.002500	0.000000	No
				Mg	-0.000001	0.000000	No
				Co	0.004500	0.000000	No
				Sr	-0.000060	0.000000	No
				B	-0.000164	0.000000	No
				Ba	0.000150	0.000000	No
				Zn	-0.000148	0.000000	No
				As	0.000005	0.000000	No
				Ni	-0.000020	0.000000	No
				Pb	0.000035	0.000000	No
				S	-0.000020	0.000000	No
				W	-0.023000	0.000000	No
				K	0.000000	0.000000	No
				Sn	-0.000200	0.000000	No
				Ag	0.000700	0.000000	No
				Cu	0.000015	0.000000	No
	Pb 220.353 {453}	☒	22	Al	-0.000110	0.000000	No
				Fe	0.000040	0.000000	No
				Ca	0.000001	0.000000	No
				Mn	0.000023	0.000000	No
				Zn	-0.000036	0.000000	No
				Mo	-0.000900	0.000000	No
				Cu	0.000777	0.000000	No
				V	-0.000093	0.000000	No
				Co	0.000479	0.000000	No
				Ti	-0.000410	0.000000	No
				Si	0.000092	0.000000	No
				Ba	-0.000012	0.000000	No
				Sb	-0.000190	0.000000	No
				Sr	0.000070	0.000000	No
				W	0.000000	0.000000	No
				Cd	-0.000018	0.000000	No
				Cr	-0.000118	0.000000	No
				Zr	-0.000279	0.000000	No
				Ni	0.000015	0.000000	No
				S	0.000010	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			B	0.000000	0.000000	No
			Mg	0.000006	0.000000	No
Se 196.090 {472}	☒	21	Al	0.000009	0.000000	No
			Ca	-0.000009	0.000000	No
			Mn	0.000706	0.000000	No
			Mo	0.000153	0.000000	No
			Fe	-0.000334	0.000000	No
			Co	-0.000372	0.000000	No
			V	0.000020	0.000000	No
			Sr	0.000042	0.000000	No
			Si	-0.000156	0.000000	No
			Tl	-0.000520	0.000000	No
			Be	-0.000543	0.000000	No
			Zn	0.000095	0.000000	No
			B	0.000150	0.000000	No
			Ti	-0.000122	0.000000	No
			Cd	0.000090	0.000000	No
			Zr	0.000447	0.000000	No
			Ba	0.000281	0.000000	No
			Mg	-0.000004	0.000000	No
			Cr	-0.000107	0.000000	No
			S	-0.000001	0.000000	No
			W	0.000000	0.000000	No
Sb 206.833 {463}	☒	14	Fe	-0.000023	0.000000	No
			Al	0.000027	0.000000	No
			Ca	0.000006	0.000000	No
			Ni	-0.000370	0.000000	No
			Cr	0.020000	0.000000	No
			V	-0.003200	0.000000	No
			Zn	-0.000176	0.000000	No
			Mo	0.000564	0.000000	No
			Ti	0.000370	0.000000	No
			Sn	-0.008600	0.000000	No
			Mg	0.000000	0.000000	No
			Zr	-0.000089	0.000000	No
			Sr	-0.000049	0.000000	No
			W	0.000000	0.000000	No
Al 396.152 { 85}	☒	5	Si	0.000378	0.000000	No
			Ca	0.000048	0.000000	No
			Mo	0.041057	0.000000	No
			Zr	0.006900	0.000000	No
			Ti	-0.000017	0.000000	No
Ca 317.933 {106}	☒	14	Fe	0.000130	0.000000	No
			W	0.003960	0.000000	No
			Tl	0.004948	0.000000	No
			Be	0.001840	0.000000	No
			Ba	0.003500	0.000000	No
			Cu	-0.001800	0.000000	No
			Cd	0.003700	0.000000	No
			Ni	0.001513	0.000000	No
			B	-0.000210	0.000000	No
			Se	0.002000	0.000000	No
			Co	0.000540	0.000000	No
			Cr	0.000640	0.000000	No
			Al	0.000026	0.000000	No
			As	0.002488	0.000000	No
Fe 259.940 {130}	☒	8	Cr	-0.000566	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Mn	-0.000025	0.000000	No
				V	-0.000064	0.000000	No
				Cu	0.001043	0.000000	No
				Zn	0.000046	0.000000	No
				Ti	-0.000631	0.000000	No
				Ca	-0.000020	0.000000	No
				Ba	-0.009000	0.000000	No
	Mg 279.079 {121}	☒	2	Mo	-0.017699	0.000000	No
				Ti	-0.014200	0.000000	No
	K 766.490 { 44}	☒	10	Al	-0.000023	0.000000	No
				Ca	-0.000071	0.000000	No
				Mn	0.001430	0.000000	No
				Si	-0.003000	0.000000	No
				V	-0.002000	0.000000	No
				Sn	-0.004700	0.000000	No
				Ba	-0.002700	0.000000	No
				Mo	0.007150	0.000000	No
				Cu	-0.010000	0.000000	No
				Ni	-0.010000	0.000000	No
	Na 589.592 { 57}	☒	5	K	-0.000560	0.000000	No
				Ba	0.000900	0.000000	No
				Ca	0.000055	0.000000	No
				Al	0.000040	0.000000	No
				V	-0.005000	0.000000	No
	B 208.959 {462}	☒	1	Mo	0.032000	0.000000	No
	Mo 202.030 {467}	☒	1	Fe	-0.000010	0.000000	No
	Si 212.412 {459}	☒	14	Sr	0.000366	0.000000	No
				Ni	0.000106	0.000000	No
				Mo	0.031809	0.000000	No
				V	0.017760	0.000000	No
				Ti	0.003229	0.000000	No
				Al	0.000009	0.000000	No
				Cd	0.001043	0.000000	No
				Ba	0.000170	0.000000	No
				Sn	0.008217	0.000000	No
				Zn	0.000385	0.000000	No
				As	0.000140	0.000000	No
				Pb	0.000471	0.000000	No
				Ca	0.000007	0.000000	No
				W	0.000000	0.000000	No
	Sn 189.989 {478}	☒	5	Ti	-0.001861	0.000000	No
				Mo	0.000011	0.000000	No
				Si	-0.000009	0.000000	No
				Fe	0.000000	0.000000	No
				W	0.000000	0.000000	No
	Sr 407.771 { 83}	☒	1	Ca	0.000034	0.000000	No
	Ti 334.904 {101}	☒	3	Cr	0.000069	0.000000	No
				Mo	0.001400	0.000000	No
				Si	0.000035	0.000000	No
	Y 360.073 { 94}*	☒	None				
	Y 371.030 { 91}*	☒	None				
	Y 224.306 {451}*	☒	None				
	In 230.606 {446}*	☒	None				
	W 207.911 {462}	☒	18	As	-0.000459	0.000000	No
				Mn	-0.000110	0.000000	No
				Mo	-0.000300	0.000000	No
				Sr	0.000050	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				V	-0.000140	0.000000	No
				Cd	-0.000650	0.000000	No
				Cr	-0.000390	0.000000	No
				Zn	0.009921	0.000000	No
				Sn	0.001300	0.000000	No
				Zr	-0.002570	0.000000	No
				Sb	-0.000200	0.000000	No
				Co	0.000041	0.000000	No
				Ni	-0.000263	0.000000	No
				Be	-0.000130	0.000000	No
				Se	-0.002600	0.000000	No
				Cu	-0.000118	0.000000	No
				Ba	-0.000090	0.000000	No
				Tl	-0.000110	0.000000	No
	Zr 339.198 { 99}	☒	6	Mo	0.001030	0.000000	No
				Fe	-0.000070	0.000000	No
				Si	0.000538	0.000000	No
				Ti	0.000894	0.000000	No
				V	0.000120	0.000000	No
				W	0.035000	0.000000	No
	S 182.034 {485}	☒	9	Ca	-0.000013	0.000000	No
				Mo	-0.005780	0.000000	No
				Al	-0.000141	0.000000	No
				Fe	-0.000100	0.000000	No
				Mn	0.004210	0.000000	No
				Zn	-0.001538	0.000000	No
				Cd	-0.001300	0.000000	No
				W	0.000000	0.000000	No
				Mg	-0.000010	0.000000	No
	Bi 223.061 {451}	☒	9	V	-0.000380	0.000000	No
				Co	-0.010715	0.000000	No
				Mg	-0.000002	0.000000	No
				W	-0.003914	0.000000	No
				Cu	-0.000858	0.000000	No
				Fe	0.000098	0.000000	No
				Cr	0.001500	0.000000	No
				Ti	-0.009340	0.000000	No
				Mo	-0.000200	0.000000	No
	Li 670.784 { 50}	☒	1	Ca	0.000015	0.000000	No
	P 177.495 {490}	☒	None				

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ba 455.403 { 74}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.003192	1.840421	0.000000	1.000000
	Be 313.042 {108}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000152	2.951584	0.000000	1.000000
	Cd 228.802 {448}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000928	1.326081	0.000000	1.000000
	Co 228.616 {448}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000400	0.791029	0.000000	1.000000
	Cr 267.716 {126}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000009	0.102285	0.000000	1.000000
	Cu 324.754 {104}2	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.001802	0.276307	0.000000	1.000000
	Mn 257.610 {131}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000088	0.732344	0.000000	1.000000
	Ni 231.604 {446}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000532	0.545521	0.000000	1.000000
	Ag 328.068 {103}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.001455	0.125201	0.000000	1.000000
	V 292.402 {115}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000166	0.163486	0.000000	1.000000
	Zn 206.200 {464}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000395	1.186397	0.000000	1.000000
	As 189.042 {478}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000387	0.105562	0.000000	1.000000
	Tl 190.856 {477}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000079	0.067089	0.000000	1.000000
	Pb 220.353 {453}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000054	0.203484	0.000000	1.000000
	Se 196.090 {472}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000250	0.082365	0.000000	1.000000
	Sb 206.833 {463}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000547	0.175864	0.000000	1.000000
	Al 396.152 { 85}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.001405	0.037049	0.000000	1.000000
	Ca 317.933 {106}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.004336	0.065709	0.000000	1.000000
	Fe 259.940 {130}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000160	0.035416	0.000000	1.000000
	Mg 279.079 {121}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000106	0.006002	0.000000	1.000000
	K 766.490 { 44}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.004092	0.017460	0.000000	1.000000
	Na 589.592 { 57}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.006059	0.075062	0.000000	1.000000
	B 208.959 {462}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000848	0.236086	0.000000	1.000000
	Mo 202.030 {467}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000268	0.872280	0.000000	1.000000
	Si 212.412 {459}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.003529	0.260430	0.000000	1.000000
	Sn 189.989 {478}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000312	0.175612	0.000000	1.000000
	Sr 407.771 { 83}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.002070	3.755319	0.000000	1.000000
	Ti 334.904 {101}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000112	0.184179	0.000000	1.000000
	Y 360.073 { 94}*	4/3/2019 9:25:01	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	4/3/2019 9:25:01	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 224.306 {451}*	4/3/2019 9:25:01	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	In 230.606 {446}*	4/3/2019 9:25:01	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	W 207.911 {462}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000053	0.410875	0.000000	1.000000
	Zr 339.198 { 99}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000340	0.376237	0.000000	1.000000
	S 182.034 {485}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.000737	0.049141	0.000000	1.000000
	Bi 223.061 {451}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.001180	0.270409	0.000000	1.000000
	Li 670.784 { 50}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	0.000188	0.584940	0.000000	1.000000
	P 177.495 {490}	4/3/2019 9:25:01	4/2/2019 19:05:23	Linear	None	-0.003150	0.117162	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ba 455.403 { 74}	1.000000	0.000000	0.000151	0.000502	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	1.000000	0.000000	0.000043	0.000144	OK.	1.000000	0.000000	1	0
	Cd 228.802 {448}	1.000000	0.000000	0.000160	0.000535	OK.	1.000000	0.000000	1	0
	Co 228.616 {448}	1.000000	0.000000	0.000232	0.000773	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	1.000000	0.000000	0.000261	0.000871	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}2	1.000000	0.000000	0.000242	0.000807	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	1.000000	0.000000	0.000036	0.000119	OK.	1.000000	0.000000	1	0
	Ni 231.604 {446}	1.000000	0.000000	0.000295	0.000982	OK.	1.000000	0.000000	1	0
	Ag 328.068 {103}	1.000000	0.000000	0.000361	0.001203	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	1.000000	0.000000	0.000272	0.000907	OK.	1.000000	0.000000	1	0
	Zn 206.200 {464}	1.000000	0.000000	0.000150	0.000498	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	1.000000	0.000000	0.001289	0.004296	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	1.000000	0.000000	0.001291	0.004304	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	1.000000	0.000000	0.001115	0.003718	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	1.000000	0.000000	0.002193	0.007310	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	1.000000	0.000000	0.001307	0.004357	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	1.000000	0.000000	0.006954	0.023179	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	1.000000	0.000000	0.002031	0.006770	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	1.000000	0.000000	0.002010	0.006700	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	1.000000	0.000000	0.014806	0.049352	OK.	1.000000	0.000000	1	0
	K 766.490 { 44}	1.000000	0.000000	0.029463	0.098209	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	1.000000	0.000000	0.006831	0.022771	OK.	1.000000	0.000000	1	0
	B 208.959 {462}	1.000000	0.000000	0.000671	0.002237	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	1.000000	0.000000	0.000231	0.000770	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	1.000000	0.000000	0.000927	0.003089	OK.	1.000000	0.000000	1	0
	Sn 189.989 {478}	1.000000	0.000000	0.000770	0.002568	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	1.000000	0.000000	0.000062	0.000206	OK.	1.000000	0.000000	1	0
	Ti 334.904 {101}	1.000000	0.000000	0.000226	0.000754	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 224.306 {451}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	W 207.911 {462}	1.000000	0.000000	0.000965	0.003216	OK.	1.000000	0.000000	1	0
	Zr 339.198 { 99}	1.000000	0.000000	0.000134	0.000445	OK.	1.000000	0.000000	1	0
	S 182.034 {485}	1.000000	0.000000	0.003048	0.010159	OK.	1.000000	0.000000	1	0
	Bi 223.061 {451}	1.000000	0.000000	0.001180	0.003935	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	1.000000	0.000000	0.000891	0.002969	OK.	1.000000	0.000000	1	0
	P 177.495 {490}	1.000000	0.000000	0.001287	0.004291	OK.	1.000000	0.000000	1	0

Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 4/3/2019 10:02:29 Type: Cal
Method: SGS 3(v260) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0056**	**-.0002**	**.0001**	**-.0002**	**-.0000**	**.0020**	**.0000**	**-.0002**	**-.0004**
Stddev	.0005	.0002	.0000	.0000	.0000	.0001	.0000	.0001	.0000
%RSD	9.084	85.57	34.38	6.255	441.9	2.822	52.55	60.27	5.318
#1	.0062	-.0004	.0001	-.0002	.0000	.0020	.0001	-.0002	-.0004
#2	.0054	-.0000	.0001	-.0003	-.0000	.0020	.0000	-.0002	-.0004
#3	.0053	-.0003	.0002	-.0002	-.0000	.0021	.0000	-.0001	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0000**	**.0007**	**-.0002**	**-.0002**	**-.0004**	**.0002**	**-.0005**	**-.0014**	**.0051**
Stddev	.0000	.0001	.0001	.0000	.0003	.0002	.0001	.0003	.0002
%RSD	285.8	12.59	36.58	24.53	76.10	79.72	12.23	19.98	4.891
#1	.0000	.0008	-.0001	-.0001	-.0001	.0001	-.0006	-.0013	.0050
#2	-.0000	.0007	-.0001	-.0002	-.0003	.0004	-.0004	-.0017	.0054
#3	.0000	.0006	-.0003	-.0002	-.0006	.0001	-.0005	-.0012	.0049

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**-.0000**	**.0048**	**-.0006**	**.0004**	**.0001**	**.0028**	**.0002**	**.0008**
Stddev	.0001	.0001	.0010	.0006	.0001	.0000	.0002	.0001	.0004
%RSD	80.33	355.9	20.69	92.15	22.59	76.21	7.597	47.00	49.64
#1	.0000	-.0001	.0057	-.0008	.0005	.0001	.0026	.0001	.0006
#2	.0000	.0001	.0051	-.0010	.0004	.0000	.0029	.0002	.0013
#3	.0001	-.0001	.0037	.0000	.0004	.0001	.0030	.0003	.0005

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0000**	**.0014**	**-.0002**	**-.0013**	**-.0007**	**.0012**	**-.0080**
Stddev	.0000	.0004	.0001	.0000	.0001	.0001	.0001
%RSD	66.61	27.70	31.90	3.562	7.570	8.143	1.050
#1	-.0000	.0011	-.0001	-.0013	-.0007	.0011	-.0079
#2	-.0001	.0013	-.0002	-.0014	-.0007	.0013	-.0079
#3	-.0000	.0018	-.0002	-.0013	-.0006	.0011	-.0081

◀ Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 4/3/2019 10:02:29 Type: Cal
Method: SGS 3(v260) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108780.**	**10780.**	**4423.6**	**9737.6**
Stddev	2745.	639.	14.9	29.4
%RSD	2.5230	5.9301	.33643	.30207
#1	105620.	10416.	4440.0	9765.2
#2	110100.	10405.	4411.1	9706.6
#3	110610.	11518.	4419.5	9740.9

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 4/3/2019 10:07:55 Type: Cal
Method: SGS 3(v260) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.044**	**5.669**	**3.566**	**2.049**	**.2262**	**.7177**	**1.216**	**1.489**	**.0470**
Stddev	.035	.022	.005	.004	.0007	.0019	.003	.002	.0001
%RSD	.4953	.3837	.1405	.1754	.2900	.2599	.2076	.1384	.1478
#1	7.018	5.653	3.572	2.053	.2255	.7178	1.213	1.491	.0470
#2	7.031	5.660	3.565	2.047	.2263	.7159	1.217	1.487	.0469
#3	7.084	5.693	3.562	2.047	.2269	.7196	1.218	1.488	.0471

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3833**	**5.280**	**.5147**	**.2550**	**.7396**	**.4081**	**.7118**	**2.770**	**3.819**
Stddev	.0009	.016	.0007	.0005	.0017	.0007	.0015	.015	.019
%RSD	.2240	.2967	.1403	.2023	.2363	.1758	.2040	.5558	.4864
#1	.3824	5.298	.5154	.2548	.7414	.4089	.7130	2.759	3.803
#2	.3835	5.271	.5149	.2546	.7394	.4080	.7121	2.764	3.816
#3	.3841	5.272	.5140	.2555	.7380	.4074	.7102	2.788	3.840

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.261**	**.2558**	**2.465**	**7.553**	**.8825**	**3.696**	**2.373**	**.8713**	**12.83**
Stddev	.005	.0015	.011	.033	.0020	.006	.003	.0009	.06
%RSD	.3970	.6019	.4466	.4351	.2277	.1592	.1406	.1021	.4779
#1	1.256	.2543	2.456	7.531	.8848	3.702	2.377	.8723	12.78
#2	1.260	.2556	2.462	7.536	.8819	3.693	2.372	.8706	12.80
#3	1.266	.2574	2.477	7.591	.8809	3.692	2.370	.8710	12.90

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4976**	**1.848**	**1.275**	**.2249**	**.8692**	**2.718**	**.5316**
Stddev	.0011	.005	.002	.0005	.0021	.015	.0011
%RSD	.2299	.2713	.1446	.2265	.2379	.5378	.2088
#1	.4969	1.853	1.274	.2244	.8709	2.711	.5313
#2	.4969	1.847	1.274	.2251	.8697	2.709	.5307
#3	.4989	1.843	1.277	.2254	.8669	2.735	.5328

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 4/3/2019 10:07:55 Type: Cal
Method: SGS 3(v260) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101170.**	**10171.**	**4162.3**	**8390.8**
Stddev	471.	67.	6.5	8.5
%RSD	.46564	.65612	.15579	.10081
#1	101710.	10248.	4154.8	8381.4
#2	100970.	10131.	4166.3	8397.8
#3	100830.	10134.	4165.7	8393.1

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 4/3/2019 10:12:54 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.009**	**2.026**	**2.023**	**2.006**	**2.025**	**1.969**	**2.036**	**2.025**	**.2486**
Stddev	.002	.005	.002	.005	.005	.006	.006	.003	.0010
%RSD	.0882	.2354	.0882	.2427	.2737	.3028	.3141	.1640	.3867
#1	2.010	2.022	2.025	2.008	2.030	1.976	2.043	2.026	.2495
#2	2.007	2.024	2.021	2.008	2.019	1.968	2.031	2.029	.2487
#3	2.010	2.031	2.022	2.000	2.024	1.964	2.033	2.022	.2476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.995**	**2.042**	**2.017**	**2.065**	**2.033**	**2.006**	**2.029**	**39.86**	**40.39**
Stddev	.007	.003	.001	.004	.003	.002	.004	.06	.06
%RSD	.3383	.1245	.0695	.1726	.1451	.0889	.2000	.1526	.1394
#1	2.003	2.039	2.016	2.061	2.034	2.007	2.031	39.91	40.38
#2	1.990	2.042	2.018	2.064	2.035	2.006	2.031	39.80	40.35
#3	1.992	2.044	2.015	2.069	2.029	2.004	2.024	39.88	40.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.77**	**40.32**	**39.94**	**39.93**	**2.050**	**2.046**	**5.114**	**2.064**	**2.012**
Stddev	.10	.13	.10	.06	.004	.001	.008	.004	.003
%RSD	.2392	.3124	.2389	.1437	.1952	.0364	.1601	.2200	.1296
#1	40.69	40.26	39.94	39.92	2.054	2.046	5.116	2.059	2.011
#2	40.72	40.24	39.84	39.87	2.049	2.047	5.105	2.067	2.010
#3	40.88	40.47	40.03	39.99	2.046	2.046	5.121	2.067	2.015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 4/3/2019 10:12:54 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.016**	**2.022**	**2.012**	**1.996**	**2.023**	**2.019**	**2.006**
Stddev	.007	.003	.004	.004	.004	.004	.008
%RSD	.3415	.1365	.1977	.2070	.1717	.1958	.4165
#1	2.023	2.026	2.016	1.995	2.024	2.019	2.001
#2	2.013	2.022	2.010	1.992	2.026	2.014	2.001
#3	2.010	2.020	2.009	2.001	2.019	2.022	2.015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103550.**	**10201.**	**4255.8**	**8688.2**
Stddev	344.	25.	.9	8.6
%RSD	.33268	.24649	.02220	.09880
#1	103170.	10195.	4255.0	8685.4
#2	103840.	10228.	4256.8	8681.4
#3	103630.	10179.	4255.6	8697.8

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 4/3/2019 10:17:55 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	F **.0002**	**.0003**	**-.0000**	**.0003**	**-.0003**	**.0002**	**.0003**	**-.0002**
Stddev	.0004	.0001	.0002	.0003	.0002	.0002	.0000	.0002	.0002
%RSD	160.9	64.89	79.28	5298.	71.62	62.32	7.303	70.94	74.12
#1	.0005	.0002	.0005	.0003	.0001	-.0002	.0002	.0004	-.0000
#2	.0005	.0004	.0002	-.0003	.0004	-.0005	.0002	.0001	-.0003
#3	-.0002	.0001	.0001	.0000	.0006	-.0003	.0002	.0004	-.0003
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0002**	**.0004**	**.0003**	**.0005**	**.0017**	**.0004**	**.0046**	**.0039**
Stddev	.0001	.0001	.0008	.0007	.0002	.0013	.0001	.0052	.0007
%RSD	64.99	49.63	194.6	199.3	31.96	75.68	35.31	113.5	17.35
#1	.0001	.0002	-.0005	.0011	.0007	.0010	.0003	.0024	.0043
#2	.0003	.0001	.0009	-.0002	.0004	.0032	.0004	.0008	.0044
#3	.0001	.0004	.0010	.0001	.0004	.0009	.0006	.0105	.0031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**.0042**	**.0421**	**.0171**	**.0023**	**.0002**	**.0002**	**.0002**	**.0002**
Stddev	.0008	.0525	.0020	.0075	.0004	.0002	.0005	.0003	.0001
%RSD	31.24	1249.	4.689	43.62	19.56	92.81	219.0	135.0	48.57
#1	.0027	-.0535	.0417	.0161	.0026	.0004	.0007	.0003	.0001
#2	.0035	.0490	.0443	.0102	.0025	.0003	.0003	-.0001	.0002
#3	.0018	.0171	.0404	.0250	.0018	-.0000	-.0003	.0005	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 4/3/2019 10:17:55 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0007**	**.0003**	**.0002**	**-.0005**	**.0025**	**.0007**
Stddev	.0001	.0005	.0001	.0014	.0010	.0008	.0005
%RSD	155.0	63.49	23.03	558.2	207.4	31.07	70.39
#1	-.0000	.0007	.0003	.0016	.0005	.0030	.0002
#2	.0001	.0003	.0002	-.0011	-.0014	.0029	.0007
#3	.0000	.0012	.0003	.0002	-.0004	.0016	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109350.**	**10317.**	**4421.5**	**9735.9**
Stddev	166.	52.	19.6	40.1
%RSD	.15157	.50876	.44377	.41216
#1	109160.	10302.	4425.1	9747.2
#2	109440.	10375.	4400.3	9691.3
#3	109450.	10273.	4439.0	9769.1

Zoom In Zoom Out

Sample Name: sampleconf Acquired: 4/3/2019 10:23:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0001**	**.0001**	**.0001**	**.0011**	**-.0002**	**.0005**	**-.0001**	**-.0003**
Stddev	.0001	.0001	.0001	.0001	.0002	.0001	.0000	.0001	.0002
%RSD	121.2	171.8	90.62	71.71	18.07	40.43	1.663	124.0	89.66
#1	-.0001	-.0002	.0003	.0001	.0011	-.0003	.0005	-.0002	-.0004
#2	.0000	-.0000	.0002	.0003	.0013	-.0001	.0005	.0000	.0000
#3	-.0001	.0000	.0000	.0001	.0009	-.0002	.0005	-.0002	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0009**	**-.0003**	**-.0009**	**.0004**	**-.0007**	**-.0005**	**.0055**	**-.0039**
Stddev	.0000	.0001	.0002	.0011	.0005	.0008	.0004	.0052	.0032
%RSD	400.3	9.127	87.75	117.7	125.9	103.9	87.12	94.46	80.35
#1	.0000	.0008	.0000	-.0007	-.0002	-.0016	-.0004	.0004	-.0010
#2	-.0000	.0009	-.0004	-.0021	.0006	-.0002	-.0009	.0053	-.0036
#3	-.0000	.0009	-.0004	.0000	.0008	-.0004	-.0001	.0108	-.0073

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1797**	**-.0127**	**-.0062**	**.0029**	**.0017**	**.0002**	**.0066**	**-.0008**	**-.0001**
Stddev	.0098	.0142	.0128	.0044	.0001	.0002	.0011	.0002	.0000
%RSD	5.466	111.9	207.4	150.1	7.402	133.6	16.59	20.48	39.84
#1	.1853	-.0290	-.0108	-.0019	.0017	.0001	.0069	-.0007	-.0001
#2	.1854	-.0065	.0083	.0068	.0018	-.0000	.0076	-.0010	-.0001
#3	.1683	-.0026	-.0160	.0038	.0016	.0004	.0054	-.0007	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0002**	**.0002**	**.0004**	**-.0009**	**.0008**	**.0020**
Stddev	.0002	.0009	.0001	.0016	.0016	.0004	.0011
%RSD	644.5	540.7	53.43	421.2	184.3	44.51	53.27
#1	.0001	-.0009	.0003	.0002	-.0022	.0009	.0032
#2	-.0002	.0006	.0001	-.0012	-.0012	.0004	.0012
#3	-.0000	.0008	.0002	.0021	.0009	.0011	.0016

Zoom In Zoom Out

Sample Name: sampleconf Acquired: 4/3/2019 10:23:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110690.**	**10363.**	**4396.0**	**9691.5**
Stddev	697.	456.	13.0	30.3
%RSD	.62960	4.4049	.29490	.31254
#1	110760.	10083.	4409.6	9724.4
#2	111350.	10117.	4383.8	9664.8
#3	109960.	10890.	4394.7	9685.2

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 4/3/2019 10:28:52 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.984**	**1.988**	**1.989**	**2.001**	**1.969**	**1.935**	**1.992**	**1.975**	**.2471**
Stddev	.003	.004	.004	.002	.010	.009	.010	.003	.0007
%RSD	.1294	.1782	.2038	.1009	.5280	.4894	.5186	.1745	.2876
#1	1.985	1.990	1.992	2.002	1.977	1.944	2.000	1.978	.2479
#2	1.985	1.990	1.992	2.002	1.972	1.937	1.996	1.977	.2467
#3	1.981	1.984	1.985	1.999	1.957	1.925	1.981	1.971	.2466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.964**	**1.983**	**1.944**	**2.036**	**1.979**	**1.956**	**1.940**	**39.70**	**40.37**
Stddev	.010	.007	.001	.006	.005	.004	.001	.06	.04
%RSD	.5238	.3370	.0543	.2829	.2641	.1951	.0403	.1537	.0997
#1	1.973	1.987	1.945	2.029	1.983	1.957	1.939	39.77	40.39
#2	1.965	1.986	1.944	2.040	1.981	1.959	1.941	39.68	40.32
#3	1.953	1.975	1.943	2.037	1.973	1.952	1.940	39.66	40.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.46**	**39.93**	**39.87**	**39.89**	**2.002**	**1.963**	**5.102**	**1.978**	**1.981**
Stddev	.05	.17	.05	.05	.002	.004	.008	.005	.005
%RSD	.1141	.4325	.1331	.1226	.0946	.1882	.1595	.2577	.2535
#1	40.51	39.79	39.83	39.90	2.004	1.965	5.111	1.981	1.984
#2	40.43	40.12	39.93	39.94	2.000	1.965	5.099	1.982	1.984
#3	40.43	39.88	39.85	39.84	2.003	1.959	5.095	1.972	1.975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 4/3/2019 10:28:52 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.951**	**1.925**	**1.933**	**1.926**	**1.910**	**1.922**	**2.001**
Stddev	.010	.006	.009	.007	.004	.004	.008
%RSD	.5091	.2892	.4698	.3775	.1816	.1953	.3990
#1	1.958	1.927	1.942	1.921	1.914	1.926	1.997
#2	1.954	1.929	1.935	1.935	1.909	1.919	2.010
#3	1.939	1.919	1.924	1.923	1.907	1.921	1.996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103820.**	**10297.**	**4265.8**	**8721.9**
Stddev	429.	48.	4.2	7.2
%RSD	.41334	.46807	.09853	.08220
#1	103450.	10352.	4265.7	8722.6
#2	103720.	10280.	4261.7	8714.4
#3	104290.	10260.	4270.1	8728.7

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 4/3/2019 10:33:53 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	F **.0002**	**.0002**	**.0001**	**-.0002**	**-.0001**	**.0002**	**.0002**	**.0004**
Stddev	.0002	.0000	.0002	.0001	.0004	.0001	.0000	.0001	.0003
%RSD	47.75	6.557	86.32	84.51	268.5	129.7	14.73	45.95	73.31
#1	.0003	.0003	.0004	.0002	-.0003	-.0002	.0002	.0003	.0005
#2	.0003	.0003	.0001	.0001	.0003	.0000	.0002	.0001	.0007
#3	.0006	.0002	.0002	.0000	-.0005	-.0001	.0002	.0003	.0001
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0002**	**.0008**	**.0005**	**-.0003**	**.0003**	**.0016**	**.0056**
Stddev	.0002	.0000	.0003	.0007	.0004	.0004	.0010	.0058	.0028
%RSD	83.72	15.06	150.6	86.00	74.93	110.4	360.2	361.2	50.90
#1	.0001	.0001	.0002	.0005	.0007	-.0004	-.0007	.0002	.0023
#2	.0005	.0001	-.0001	.0016	.0008	.0000	.0013	-.0034	.0076
#3	.0002	.0002	.0005	.0003	.0001	-.0007	.0001	.0080	.0068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0136**	**.0114**	**.0039**	**.0016**	**.0003**	**.0008**	**.0001**	**.0001**
Stddev	.0027	.0340	.0270	.0031	.0004	.0001	.0005	.0003	.0000
%RSD	368.1	250.6	236.8	80.19	26.36	37.23	62.39	365.0	24.62
#1	.0032	-.0184	-.0071	.0063	.0018	.0004	.0010	.0002	.0002
#2	.0012	.0098	-.0011	.0004	.0011	.0004	.0003	.0002	.0002
#3	-.0022	.0493	.0423	.0049	.0019	.0002	.0013	-.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 4/3/2019 10:33:53 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0011**	**.0004**	**-.0014**	**-.0005**	**.0019**	**-.0001**
Stddev	.0002	.0001	.0003	.0016	.0007	.0011	.0006
%RSD	1426.	13.42	65.65	118.5	128.8	56.85	1239.
#1	-.0001	.0011	.0003	-.0032	.0002	.0007	-.0001
#2	-.0002	.0009	.0007	-.0004	-.0011	.0028	-.0007
#3	.0003	.0012	.0002	-.0004	-.0007	.0021	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109240.**	**10349.**	**4417.0**	**9729.6**
Stddev	398.	19.	8.3	12.4
%RSD	.36456	.18626	.18788	.12715
#1	109460.	10351.	4417.5	9730.7
#2	108780.	10368.	4424.9	9741.4
#3	109490.	10329.	4408.4	9716.8

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 4/3/2019 10:40:14 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.000**	**2.009**	**2.008**	**1.985**	**2.016**	**1.967**	**2.031**	**2.008**	**.2477**
Stddev	.003	.002	.032	.029	.006	.007	.004	.028	.0004
%RSD	.1439	.1139	1.593	1.444	.3140	.3383	.2192	1.404	.1675
#1	1.999	2.009	1.961	1.942	2.023	1.965	2.035	1.966	.2483
#2	1.999	2.013	2.030	2.003	2.018	1.977	2.032	2.026	.2477
#3	2.000	2.008	2.023	1.996	2.016	1.964	2.033	2.021	.2477
#4	2.005	2.008	2.019	1.997	2.008	1.963	2.025	2.020	.2473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.992**	**2.018**	**1.997**	**2.057**	**2.016**	**1.993**	**2.011**	**39.80**	**40.20**
Stddev	.005	.027	.030	.036	.027	.031	.031	.04	.05
%RSD	.2714	1.332	1.520	1.750	1.327	1.536	1.554	.1123	.1279
#1	1.993	1.978	1.952	2.004	1.976	1.947	1.964	39.80	40.18
#2	1.998	2.037	2.020	2.083	2.031	2.013	2.032	39.78	40.23
#3	1.994	2.029	2.010	2.074	2.031	2.005	2.020	39.76	40.14
#4	1.985	2.028	2.006	2.067	2.025	2.007	2.026	39.86	40.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 4/3/2019 10:40:14 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.39**	**39.85**	**39.67**	**39.82**	**2.030**	**2.028**	**5.062**	**2.047**	**2.000**
Stddev	.09	.11	.07	.04	.030	.032	.075	.029	.002
%RSD	.2256	.2852	.1698	.1023	1.457	1.568	1.475	1.441	.0830
#1	40.42	39.92	39.60	39.84	1.986	1.980	4.950	2.004	1.998
#2	40.50	39.92	39.76	39.83	2.050	2.048	5.107	2.070	2.001
#3	40.30	39.87	39.68	39.77	2.042	2.039	5.097	2.058	1.999
#4	40.33	39.68	39.64	39.86	2.043	2.043	5.094	2.055	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.014**	**2.003**	**2.010**	**1.985**	**2.009**	**2.012**	**1.994**
Stddev	.005	.031	.004	.032	.033	.003	.033
%RSD	.2473	1.548	.2219	1.607	1.645	.1683	1.641
#1	2.018	1.956	2.014	1.939	1.960	2.010	1.946
#2	2.017	2.022	2.012	2.010	2.030	2.012	2.017
#3	2.014	2.016	2.011	2.000	2.025	2.010	2.008
#4	2.007	2.017	2.004	1.993	2.020	2.017	2.007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 4/3/2019 10:40:14 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103780.**	**10327.**	**4292.0**	**8760.0**
Stddev	197.	40.	53.5	98.8
%RSD	.18961	.38356	1.2466	1.1275
#1	103560.	10339.	4371.8	8907.4
#2	103770.	10274.	4259.9	8697.6
#3	103750.	10326.	4273.4	8720.8
#4	104040.	10369.	4262.9	8714.2

Zoom In Zoom Out

Sample Name: ccb 7 Acquired: 4/3/2019 10:48:10 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	F **.0006**	**.0004**	**.0004**	**.0001**	**-.0001**	**.0005**	**.0002**	**.0001**
Stddev	.0003	.0001	.0001	.0001	.0002	.0004	.0001	.0001	.0002
%RSD	48.52	9.500	20.07	26.72	147.8	298.9	21.28	65.66	121.9
#1	.0004	.0005	.0004	.0003	-.0000	-.0001	.0006	.0001	.0002
#2	.0004	.0006	.0004	.0005	.0004	.0002	.0006	.0003	-.0001
#3	.0009	.0006	.0005	.0003	.0001	-.0005	.0004	.0003	.0002
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0004**	**.0006**	**.0005**	**-.0004**	**.0018**	**-.0001**	**.0009**	**.0143**
Stddev	.0001	.0000	.0011	.0004	.0004	.0015	.0011	.0118	.0044
%RSD	18.60	8.126	190.1	70.16	112.0	86.77	799.2	1311.	30.89
#1	.0005	.0004	-.0003	.0004	.0000	.0002	.0011	-.0127	.0187
#2	.0006	.0004	.0002	.0003	-.0008	.0033	-.0008	.0077	.0145
#3	.0007	.0004	.0018	.0009	-.0003	.0018	-.0007	.0077	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0103**	**-.0146**	**.0662**	**.0184**	**.0023**	**.0005**	**.0015**	**.0004**	**.0006**
Stddev	.0029	.0232	.0261	.0054	.0009	.0002	.0006	.0006	.0002
%RSD	28.20	159.0	39.34	29.55	39.49	31.86	43.79	147.1	33.50
#1	.0069	-.0071	.0458	.0132	.0033	.0007	.0022	.0010	.0005
#2	.0122	.0039	.0574	.0181	.0023	.0003	.0011	.0002	.0004
#3	.0116	-.0406	.0955	.0240	.0014	.0006	.0010	-.0001	.0008
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In Zoom Out

Sample Name: ccb 7 Acquired: 4/3/2019 10:48:10 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0013**	**.0004**	**.0004**	**-.0013**	**.0023**	**.0009**
Stddev	.0003	.0005	.0001	.0023	.0007	.0005	.0010
%RSD	62.39	37.54	12.77	514.4	55.01	22.14	106.1
#1	.0006	.0017	.0004	.0030	-.0013	.0018	.0021
#2	.0001	.0007	.0005	-.0011	-.0006	.0022	.0005
#3	.0006	.0014	.0004	-.0006	-.0019	.0028	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109480.**	**10401.**	**4398.8**	**9689.6**
Stddev	117.	86.	15.3	28.9
%RSD	.10693	.82796	.34759	.29810
#1	109380.	10409.	4386.7	9663.2
#2	109600.	10483.	4393.6	9685.3
#3	109450.	10311.	4416.0	9720.5

Zoom In Zoom Out

Sample Name: cri Acquired: 4/3/2019 10:52:50 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2053**	**.0024**	**.0035**	**.0504**	**.0106**	**.0098**	**.0158**	**.0105**	**.0047**
Stddev	.0002	.0000	.0001	.0002	.0004	.0004	.0004	.0004	.0002
%RSD	.1157	.9971	1.433	.3100	3.304	3.724	2.545	4.018	3.419
#1	.2056	.0024	.0035	.0503	.0108	.0102	.0162	.0110	.0048
#2	.2053	.0024	.0036	.0506	.0102	.0095	.0154	.0103	.0048
#3	.2051	.0024	.0035	.0503	.0108	.0098	.0159	.0103	.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0502**	**.0219**	**.0087**	**.0107**	**.0033**	**.0118**	**.0064**	**.2119**	**5.420**
Stddev	.0015	.0002	.0007	.0013	.0004	.0012	.0007	.0070	.014
%RSD	3.030	.8780	7.527	12.25	11.55	10.51	10.97	3.315	.2520
#1	.0515	.0220	.0091	.0092	.0029	.0121	.0056	.2171	5.435
#2	.0485	.0217	.0080	.0111	.0037	.0129	.0068	.2039	5.418
#3	.0506	.0221	.0091	.0117	.0032	.0105	.0068	.2146	5.408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1168**	**5.430**	**5.197**	**5.240**	**.1074**	**.0217**	**.2137**	**.0110**	**.0105**
Stddev	.0053	.052	.043	.004	.0009	.0003	.0009	.0003	.0000
%RSD	4.577	.9574	.8366	.0746	.7983	1.211	.4095	2.696	.3874
#1	.1115	5.383	5.182	5.245	.1082	.0219	.2141	.0111	.0105
#2	.1222	5.486	5.163	5.237	.1065	.0214	.2127	.0112	.0105
#3	.1167	5.422	5.246	5.239	.1076	.0218	.2144	.0107	.0105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: cri Acquired: 4/3/2019 10:52:50 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0101**	**.0530**	**.0099**	**.0553**	**.0226**	**.0574**	**.0541**
Stddev	.0004	.0004	.0002	.0012	.0014	.0013	.0011
%RSD	4.156	.8397	1.966	2.229	6.111	2.277	2.026
#1	.0105	.0526	.0102	.0561	.0233	.0568	.0537
#2	.0097	.0530	.0098	.0539	.0210	.0589	.0532
#3	.0100	.0535	.0098	.0559	.0235	.0565	.0553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109700.**	**10230.**	**4317.1**	**9382.0**
Stddev	2570.	17.	11.6	26.3
%RSD	2.3427	.16236	.26861	.28047
#1	107510.	10249.	4320.1	9400.5
#2	112530.	10221.	4326.9	9393.6
#3	109050.	10220.	4304.3	9351.9

Zoom In Zoom Out

Sample Name: crid Acquired: 4/3/2019 10:58:14 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0010**	**.0012**	**.0028**	**.0024**	F **-.0003**	**.0031**	**.0039**
Stddev	.0005	.0002	.0001	.0002	.0004	.0003	.0001	.0002
%RSD	11.05	15.67	4.631	6.737	15.34	87.32	2.114	5.378
#1	.0048	.0010	.0012	.0030	.0021	-.0001	.0032	.0038
#2	.0042	.0011	.0012	.0027	.0028	-.0002	.0031	.0041
#3	.0039	.0008	.0011	.0027	.0023	-.0006	.0032	.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-30.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0002**	**.0022**	**.0104**	**.0031**	**.0024**	F **-.0000**	**.0047**	F **-.0011**
Stddev	.0003	.0003	.0001	.0007	.0008	.0000	.0013	.0016
%RSD	118.1	12.29	.6258	23.28	35.14	148.4	26.42	142.9
#1	-.0000	.0020	.0105	.0039	.0020	.0000	.0055	-.0013
#2	.0005	.0025	.0104	.0025	.0033	-.0001	.0055	.0006
#3	.0002	.0021	.0104	.0030	.0018	-.0000	.0033	-.0026
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value	.0020					.0025		.0030
Range	-30.00%					-30.00%		-30.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1086**	**1.068**	**.0002**	**.1104**	**2.102**	**1.053**	F **.0006**	**.0001**
Stddev	.0024	.002	.0017	.0481	.016	.007	.0004	.0001
%RSD	2.251	.1955	862.7	43.57	.7778	.6319	55.21	280.2
#1	.1067	1.069	-.0018	.1612	2.084	1.045	.0005	-.0001
#2	.1113	1.069	.0011	.0655	2.116	1.055	.0004	.0002
#3	.1077	1.065	.0013	.1047	2.107	1.058	.0011	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None
Value							.0100	
Range							-30.00%	

Zoom In Zoom Out

Sample Name: crid Acquired: 4/3/2019 10:58:14 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**-.0005**	**-.0000**	**-.0004**	F **.0006**	F **.0002**	F **-.0021**	F **-.0021**
Stddev	.0002	.0005	.0001	.0002	.0011	.0001	.0014	.0004
%RSD	30.91	104.1	189.2	65.27	181.1	44.66	65.50	20.27
#1	.0007	.0000	-.0000	-.0006	.0014	.0003	-.0007	-.0022
#2	.0007	-.0010	.0000	-.0003	-.0007	.0001	-.0034	-.0024
#3	.0004	-.0005	-.0001	-.0002	.0011	.0002	-.0020	-.0016
Check ?	None	None	None	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value					.0040	.0040	.0040	.0040
Range					-30.00%	-30.00%	-30.00%	-30.00%

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	F **.0010**	F **.0009**
Stddev	.0014	.0014
%RSD	145.9	160.1
#1	.0024	.0000
#2	-.0003	.0025
#3	.0007	.0001
Check ?	Chk Fail	Chk Fail
Value	.0040	.0040
Range	-30.00%	-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109070.**	**10271.**	**4388.2**	**9632.8**
Stddev	135.	17.	3.9	9.7
%RSD	.12402	.16881	.08805	.10065
#1	108910.	10253.	4389.4	9623.8
#2	109140.	10287.	4383.9	9631.6
#3	109140.	10272.	4391.4	9643.1

Zoom In Zoom Out

Sample Name: icsa Acquired: 4/3/2019 11:03:41 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0002**	**-.0006**	**-.0013**	**-.0002**	**.0030**	**-.0021**	**-.0000**	**-.0019**
Stddev	.0002	.0000	.0002	.0004	.0004	.0004	.0002	.0000	.0002
%RSD	35.58	10.31	39.95	32.91	259.6	12.60	9.032	1138.	12.88
#1	-.0004	.0002	-.0004	-.0017	-.0002	.0029	-.0023	-.0000	-.0020
#2	-.0003	.0002	-.0005	-.0014	.0003	.0027	-.0021	.0000	-.0021
#3	-.0006	.0002	-.0008	-.0009	-.0006	.0034	-.0019	-.0000	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**-.0019**	**.0012**	**.0005**	**-.0002**	**-.0026**	**.0027**	**514.6**	**398.1**
Stddev	.0003	.0003	.0024	.0025	.0003	.0063	.0032	.5	.9
%RSD	25.00	16.10	209.1	451.3	138.3	243.4	118.9	.1054	.2241
#1	.0010	-.0019	.0012	.0032	-.0005	-.0071	-.0002	514.4	397.9
#2	.0015	-.0016	.0036	.0002	-.0000	.0046	.0021	514.3	397.3
#3	.0009	-.0022	-.0013	-.0017	-.0000	-.0053	.0061	515.3	399.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**197.7**	**506.8**	**-.4151**	**.0018**	**-.0047**	**-.0015**	**-.0106**	**-.0018**	**-.0033**
Stddev	1.2	3.6	.0097	.0034	.0006	.0004	.0018	.0016	.0001
%RSD	.6057	.7044	2.340	188.8	12.83	30.59	17.31	91.95	3.174
#1	197.3	506.3	-.4205	.0055	-.0050	-.0017	-.0088	-.0008	-.0033
#2	196.8	503.6	-.4209	-.0009	-.0050	-.0017	-.0106	-.0009	-.0032
#3	199.1	510.6	-.4039	.0007	-.0040	-.0009	-.0125	-.0036	-.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icsa Acquired: 4/3/2019 11:03:41 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**.0101**	**-.0018**	**-.0012**	**.0096**	**-.0113**	**.0006**
Stddev	.0003	.0006	.0001	.0031	.0016	.0010	.0007
%RSD	29.75	6.294	6.705	261.4	16.27	8.881	120.1
#1	-.0012	.0104	-.0019	-.0028	.0090	-.0108	.0015
#2	-.0007	.0094	-.0017	.0024	.0084	-.0107	.0002
#3	-.0013	.0105	-.0017	-.0032	.0113	-.0125	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95095.**	**9919.5**	**3920.0**	**7620.7**
Stddev	351.	89.0	14.1	19.4
%RSD	.36929	.89673	.35912	.25408
#1	94690.	9911.4	3926.8	7631.8
#2	95275.	10012.	3903.9	7598.4
#3	95319.	9834.9	3929.5	7632.0

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2019 11:08:56 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5108**	**.4993**	**1.031**	**.4899**	**.4897**	**.5058**	**.4992**	**.9855**	**1.042**
Stddev	.0005	.0015	.009	.0044	.0008	.0011	.0002	.0090	.001
%RSD	.1006	.2924	.8811	.9028	.1621	.2185	.0413	.9088	.0476
#1	.5102	.4977	1.025	.4873	.4900	.5059	.4993	.9821	1.042
#2	.5110	.5002	1.041	.4950	.4904	.5046	.4993	.9957	1.041
#3	.5112	.5002	1.027	.4873	.4888	.5068	.4990	.9788	1.042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4950**	**.9534**	**1.079**	**.9993**	**.9748**	**1.062**	**1.075**	**518.6**	**392.7**
Stddev	.0015	.0102	.009	.0069	.0078	.006	.008	.3	.7
%RSD	.3101	1.067	.8586	.6903	.7997	.5546	.7698	.0668	.1684
#1	.4964	.9480	1.077	1.001	.9724	1.058	1.071	518.2	392.0
#2	.4952	.9651	1.090	1.005	.9835	1.069	1.085	518.8	392.8
#3	.4934	.9471	1.072	.9918	.9685	1.060	1.070	518.8	393.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**191.5**	**509.5**	**-.4646**	**.0122**	**.4862**	**.4910**	**.5304**	**.4639**	**.5649**
Stddev	.6	2.2	.0185	.0085	.0055	.0036	.0049	.0052	.0017
%RSD	.3324	.4414	3.991	69.69	1.124	.7408	.9262	1.115	.3063
#1	190.8	507.0	-.4852	.0066	.4825	.4894	.5295	.4616	.5630
#2	191.8	510.3	-.4593	.0080	.4924	.4952	.5357	.4698	.5664
#3	191.9	511.3	-.4493	.0220	.4835	.4885	.5260	.4603	.5653
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2019 11:08:56 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4954**	**.4834**	**.5202**	**.4798**	**.4986**	**.5259**	**.5125**
Stddev	.0003	.0038	.0008	.0052	.0041	.0001	.0043
%RSD	.0677	.7942	.1514	1.075	.8171	.0145	.8380
#1	.4957	.4819	.5211	.4749	.4962	.5258	.5098
#2	.4954	.4877	.5195	.4851	.5033	.5259	.5174
#3	.4950	.4804	.5201	.4793	.4962	.5260	.5102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94942.**	**9894.4**	**3919.0**	**7626.1**
Stddev	92.	28.8	32.8	56.7
%RSD	.09689	.29084	.83615	.74382
#1	94999.	9911.6	3940.9	7659.2
#2	94836.	9910.5	3881.4	7560.6
#3	94992.	9861.2	3934.8	7658.4

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 4/3/2019 11:13:57 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.101**	**8.142**	**7.818**	**7.923**	**8.221**	**8.208**	**7.984**	**7.899**	**.5947**
Stddev	.011	.023	.112	.080	.012	.017	.027	.079	.0024
%RSD	.1341	.2879	1.431	1.014	.1440	.2035	.3376	1.004	.4084
#1	8.089	8.123	7.690	7.830	8.233	8.205	8.009	7.808	.5951
#2	8.106	8.135	7.872	7.961	8.219	8.227	7.956	7.942	.5969
#3	8.109	8.168	7.894	7.977	8.210	8.194	7.987	7.948	.5921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.165**	**8.199**	**7.900**	**8.194**	**8.024**	**7.963**	**8.079**	**.2243**	**-.0534**
Stddev	.011	.082	.104	.109	.075	.099	.104	.0189	.0171
%RSD	.1299	1.001	1.321	1.327	.9380	1.248	1.283	8.415	32.02
#1	8.175	8.105	7.781	8.073	7.937	7.849	7.961	.2450	-.0356
#2	8.153	8.250	7.945	8.222	8.058	8.006	8.125	.2198	-.0549
#3	8.166	8.243	7.974	8.285	8.075	8.033	8.152	.2081	-.0696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0689**	**.0633**	**.2013**	**.0628**	**7.991**	**8.165**	**25.27**	**8.336**	**8.027**
Stddev	.0112	.0449	.0105	.0086	.097	.101	.32	.106	.061
%RSD	16.29	70.94	5.237	13.67	1.215	1.240	1.279	1.277	.7551
#1	.0818	.0983	.2134	.0544	7.879	8.049	24.90	8.214	8.048
#2	.0634	.0127	.1954	.0715	8.039	8.218	25.41	8.385	7.959
#3	.0615	.0789	.1950	.0624	8.055	8.229	25.50	8.409	8.074
Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 4/3/2019 11:13:57 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.147**	**8.319**	**7.927**	**96.62**	**7.856**	**7.776**	**7.888**
Stddev	.004	.100	.029	1.50	.106	.011	.122
%RSD	.0523	1.197	.3668	1.556	1.344	.1364	1.543
#1	8.152	8.204	7.961	94.94	7.735	7.765	7.751
#2	8.146	8.374	7.911	97.06	7.903	7.777	7.930
#3	8.144	8.379	7.910	97.85	7.930	7.786	7.983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106410.**	**10389.**	**4334.9**	**9394.8**
Stddev	262.	64.	44.2	79.8
%RSD	.24664	.61865	1.0189	.84919
#1	106160.	10341.	4385.9	9486.9
#2	106680.	10462.	4309.0	9349.4
#3	106390.	10363.	4309.9	9348.0

Zoom In Zoom Out

Sample Name: hstd Acquired: 4/3/2019 11:19:25 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0017**	**.0005**	**-.0005**	**.0015**	**.0052**	**-.0007**	**.0013**	**.0152**
Stddev	.0003	.0002	.0002	.0002	.0007	.0003	.0000	.0005	.0001
%RSD	13.92	9.152	45.24	43.05	44.57	5.958	6.166	39.99	.6273
#1	.0023	.0018	.0006	-.0004	.0012	.0049	-.0007	.0017	.0152
#2	.0017	.0018	.0007	-.0004	.0023	.0054	-.0007	.0016	.0151
#3	.0018	.0015	.0003	-.0008	.0011	.0054	-.0006	.0007	.0152
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0003**	**.0011**	**.0010**	**-.0005**	**.0002**	**.0026**	**306.5**	**197.5**
Stddev	.0006	.0001	.0013	.0022	.0014	.0010	.0016	.3	.4
%RSD	24.83	29.88	118.5	221.8	252.5	439.2	62.86	.1126	.1847
#1	.0027	.0003	.0014	.0029	.0007	.0000	.0031	306.8	197.6
#2	.0017	.0004	.0022	-.0014	-.0020	.0013	.0008	306.1	197.0
#3	.0026	.0002	-.0003	.0016	-.0003	-.0007	.0039	306.7	197.7
Check ?	None	None	None	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**198.7**	**305.0**	**201.9**	**203.1**	**-.0004**	**.0010**	**-.0043**	**-.0001**	**-.0006**
Stddev	.3	.7	.6	.4	.0005	.0002	.0023	.0008	.0001
%RSD	.1561	.2423	.2727	.1881	120.7	18.33	52.37	555.4	15.17
#1	199.0	305.5	202.4	203.3	.0000	.0012	-.0017	-.0010	-.0005
#2	198.4	304.2	201.3	202.7	-.0004	.0008	-.0054	.0002	-.0005
#3	198.8	305.4	201.9	203.3	-.0010	.0010	-.0058	.0004	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd Acquired: 4/3/2019 11:19:25 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0082**	**-.0003**	**.0111**	**.0105**	**.0110**	**.0050**
Stddev	.0007	.0004	.0001	.0038	.0009	.0011	.0006
%RSD	1229.	4.322	37.42	34.14	8.580	10.36	11.81
#1	.0004	.0078	-.0002	.0087	.0108	.0121	.0048
#2	.0002	.0083	-.0003	.0154	.0095	.0098	.0046
#3	-.0008	.0085	-.0004	.0091	.0112	.0111	.0057
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96003.**	**9799.1**	**3929.0**	**7648.0**
Stddev	171.	39.9	7.4	19.5
%RSD	.17764	.40751	.18724	.25554
#1	95893.	9755.7	3921.0	7630.1
#2	96200.	9834.4	3930.7	7645.0
#3	95917.	9807.2	3935.4	7668.8

Zoom In Zoom Out

Sample Name: feconf Acquired: 4/3/2019 11:24:44 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0010**	**.0001**	**-.0006**	**.0007**	**.0034**	**-.0006**	**.0006**	**.0018**
Stddev	.0004	.0002	.0003	.0003	.0003	.0021	.0010	.0002	.0040
%RSD	37.96	23.30	403.7	58.79	45.33	61.99	175.6	30.22	229.4
#1	.0016	.0012	.0004	-.0004	.0010	.0058	.0006	.0006	.0064
#2	.0010	.0008	-.0001	-.0004	.0004	.0018	-.0011	.0008	-.0010
#3	.0008	.0010	-.0001	-.0010	.0008	.0027	-.0013	.0005	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**-.0005**	**.0023**	**.0015**	**-.0020**	**.0013**	**.0001**	**.0401**	**.0108**
Stddev	.0001	.0002	.0007	.0006	.0010	.0023	.0017	.0128	.0059
%RSD	3.357	34.42	30.29	42.12	49.40	174.7	1362.	31.99	54.47
#1	.0028	-.0006	.0027	.0021	-.0031	.0039	.0010	.0417	.0172
#2	.0026	-.0005	.0015	.0015	-.0015	.0001	.0012	.0520	.0095
#3	.0028	-.0003	.0027	.0009	-.0013	-.0001	-.0018	.0265	.0057

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **214.8**	**.0547**	**.2015**	**.0397**	**-.0001**	**.0011**	**-.0050**	**.0002**	**.0000**
Stddev	14.8	.0110	.0313	.0039	.0006	.0004	.0005	.0008	.0002
%RSD	6.882	20.13	15.54	9.812	493.7	36.51	9.686	459.1	1006.
#1	231.9	.0511	.2325	.0439	-.0005	.0015	-.0055	-.0006	.0002
#2	205.6	.0460	.2020	.0362	-.0005	.0008	-.0046	.0001	-.0001
#3	207.0	.0671	.1699	.0389	.0006	.0009	-.0051	.0010	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0024**	**-.0008**	**.0029**	**.0104**	**.0033**	**.0034**
Stddev	.0000	.0011	.0010	.0009	.0024	.0008	.0003
%RSD	5.988	45.79	125.0	31.61	22.91	22.70	8.274
#1	.0003	.0014	.0004	.0023	.0081	.0033	.0033
#2	.0004	.0023	-.0013	.0024	.0129	.0026	.0031
#3	.0004	.0036	-.0015	.0039	.0103	.0041	.0036

Zoom In Zoom Out

Sample Name: feconf Acquired: 4/3/2019 11:24:44 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107710.**	**9961.3**	**4324.9**	**9537.1**
Stddev	683.	537.8	5.6	7.8
%RSD	.63404	5.3987	.12939	.08166
#1	107560.	9343.2	4330.2	9535.3
#2	107110.	10323.	4319.1	9530.4
#3	108450.	10218.	4325.3	9545.7

Zoom In Zoom Out

Sample Name: crconf Acquired: 4/3/2019 11:30:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0002**	**.0002**	**.0011**	F **9.962**	**-.0003**	**-.0001**	**.0002**	**.0003**
Stddev	.0002	.0001	.0002	.0004	.023	.0001	.0000	.0001	.0004
%RSD	32.51	53.00	100.5	31.10	.2333	51.11	33.11	55.81	143.0
#1	.0008	.0003	.0001	.0013	9.977	-.0004	-.0000	.0001	.0007
#2	.0004	.0001	.0004	.0007	9.975	-.0001	-.0000	.0003	.0002
#3	.0006	.0001	.0001	.0014	9.935	-.0004	-.0001	.0001	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**.0000**	**-.0001**	**-.0006**	**.0005**	**-.0007**	**-.0001**	**.0088**	**.0075**
Stddev	.0000	.0001	.0005	.0003	.0004	.0005	.0007	.0051	.0014
%RSD	.6524	1782.	550.8	52.94	75.64	81.49	746.3	58.15	18.42
#1	.0045	-.0001	-.0003	-.0002	.0001	-.0011	-.0008	.0029	.0085
#2	.0045	.0002	.0005	-.0008	.0006	-.0008	.0006	.0116	.0059
#3	.0044	-.0001	-.0004	-.0007	.0009	-.0001	-.0001	.0118	.0081

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0287**	**.0317**	**.0178**	**.0104**	**.0008**	**.0009**	**.0036**	**-.0013**	**.0002**
Stddev	.0078	.0355	.0184	.0073	.0001	.0002	.0001	.0003	.0001
%RSD	27.19	111.8	103.7	69.76	18.36	18.15	4.152	24.07	55.88
#1	.0375	.0691	.0333	.0053	.0006	.0008	.0035	-.0010	.0003
#2	.0225	-.0014	-.0026	.0188	.0008	.0008	.0037	-.0017	.0002
#3	.0262	.0274	.0226	.0072	.0009	.0011	.0035	-.0013	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0043**	**.0059**	**.0030**	**-.0032**	**.0026**	**-.0005**
Stddev	.0002	.0004	.0001	.0009	.0016	.0015	.0005
%RSD	63.32	9.570	.9502	30.58	50.71	58.90	99.78
#1	-.0007	.0040	.0059	.0032	-.0049	.0030	-.0005
#2	-.0003	.0041	.0059	.0020	-.0031	.0009	-.0010
#3	-.0002	.0047	.0058	.0038	-.0017	.0038	.0000

Zoom In Zoom Out

Sample Name: crconf Acquired: 4/3/2019 11:30:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108680.**	**10221.**	**4324.9**	**9671.2**
Stddev	428.	47.	3.1	4.7
%RSD	.39387	.46135	.07092	.04876
#1	108620.	10168.	4322.8	9676.0
#2	108280.	10241.	4328.5	9670.8
#3	109130.	10256.	4323.5	9666.6

Zoom In Zoom Out

Sample Name: asconf Acquired: 4/3/2019 11:35:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**-.0006**	**-.0007**	**.0002**	**-.0004**	**-.0000**	**-.0001**	**-.0004**
Stddev	.0001	.0001	.0001	.0003	.0003	.0001	.0001	.0003	.0002
%RSD	112.0	100.0	13.38	34.70	188.9	30.59	1452.	255.0	41.65
#1	.0001	-.0000	-.0006	-.0010	.0003	-.0005	.0001	.0001	-.0006
#2	.0000	.0001	-.0005	-.0005	.0003	-.0005	-.0000	.0000	-.0004
#3	.0000	.0001	-.0005	-.0008	-.0002	-.0003	-.0001	-.0004	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**5.368**	**.0006**	**-.0005**	**-.0002**	**.0002**	**.0028**	**.0012**
Stddev	.0004	.0001	.012	.0010	.0004	.0008	.0004	.0049	.0035
%RSD	283.3	54.04	.2211	171.7	85.37	353.2	240.4	174.2	284.1
#1	-.0002	.0001	5.355	.0014	-.0000	-.0009	-.0002	.0080	.0038
#2	.0005	.0002	5.371	.0008	-.0006	.0007	.0005	.0021	.0027
#3	.0002	.0001	5.378	-.0005	-.0009	-.0005	.0002	-.0017	-.0028

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0112**	**.0184**	**.0326**	**.0069**	**.0009**	**-.0000**	**.0076**	**-.0002**	**-.0001**
Stddev	.0044	.0302	.0149	.0063	.0002	.0001	.0028	.0002	.0001
%RSD	39.45	164.0	45.62	91.64	19.39	365.2	37.01	111.7	126.3
#1	.0062	-.0132	.0350	.0136	.0009	-.0002	.0060	-.0004	-.0001
#2	.0144	.0470	.0167	.0010	.0007	.0000	.0109	-.0001	-.0001
#3	.0131	.0214	.0462	.0061	.0010	.0001	.0060	-.0000	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0006**	**.0002**	**-.0006**	**-.0011**	**.0014**	**.0008**
Stddev	.0003	.0005	.0001	.0037	.0014	.0002	.0008
%RSD	137.2	85.76	44.90	601.3	126.2	13.79	90.88
#1	-.0002	.0010	.0002	.0025	.0005	.0015	-.0000
#2	-.0005	.0008	.0003	.0003	-.0023	.0012	.0015
#3	.0001	.0000	.0001	-.0047	-.0015	.0015	.0011

Zoom In Zoom Out

Sample Name: asconf Acquired: 4/3/2019 11:35:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110000.**	**10309.**	**4398.8**	**9658.4**
Stddev	378.	89.	10.0	14.4
%RSD	.34374	.86597	.22718	.14879
#1	110340.	10210.	4408.5	9669.7
#2	109600.	10336.	4399.4	9663.2
#3	110060.	10382.	4388.5	9642.2

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 11:41:06 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.989**	**2.013**	**2.007**	**2.000**	**2.009**	**1.953**	**2.021**	**2.009**	**.2451**
Stddev	.005	.002	.008	.009	.003	.004	.003	.007	.0004
%RSD	.2434	.0955	.4144	.4543	.1452	.2054	.1652	.3573	.1624
#1	1.989	2.014	2.016	2.011	2.007	1.950	2.020	2.017	.2448
#2	1.985	2.011	2.005	1.995	2.007	1.950	2.019	2.005	.2450
#3	1.994	2.015	2.000	1.995	2.012	1.957	2.025	2.005	.2456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.980**	**2.033**	**2.011**	**2.075**	**2.025**	**1.992**	**2.025**	**39.44**	**40.22**
Stddev	.002	.012	.009	.007	.009	.014	.010	.10	.04
%RSD	.1235	.5650	.4382	.3580	.4674	.7126	.4972	.2606	.1068
#1	1.981	2.046	2.018	2.080	2.035	2.004	2.035	39.47	40.26
#2	1.978	2.026	2.013	2.079	2.022	1.996	2.026	39.32	40.22
#3	1.982	2.025	2.001	2.067	2.017	1.976	2.015	39.52	40.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.55**	**40.23**	**39.79**	**39.58**	**2.043**	**2.038**	**5.082**	**2.062**	**1.992**
Stddev	.10	.09	.07	.04	.010	.008	.023	.014	.005
%RSD	.2573	.2236	.1882	.1101	.4767	.4111	.4581	.6846	.2565
#1	40.66	40.34	39.87	39.61	2.052	2.047	5.104	2.076	1.993
#2	40.45	40.16	39.72	39.53	2.043	2.037	5.084	2.062	1.986
#3	40.56	40.20	39.79	39.59	2.033	2.030	5.057	2.048	1.996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 11:41:06 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.996**	**2.006**	**1.995**	**2.004**	**2.017**	**1.999**	**2.006**
Stddev	.002	.010	.003	.014	.010	.002	.011
%RSD	.1072	.5062	.1412	.6900	.4737	.1192	.5535
#1	1.995	2.017	1.995	2.010	2.026	2.000	2.013
#2	1.995	2.004	1.992	2.015	2.018	1.996	2.013
#3	1.999	1.997	1.998	1.989	2.007	2.000	1.994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103960.**	**10113.**	**4256.0**	**8685.0**
Stddev	247.	18.	15.7	29.4
%RSD	.23791	.18133	.36938	.33811
#1	104060.	10097.	4237.9	8652.7
#2	104150.	10133.	4265.4	8710.1
#3	103680.	10107.	4264.8	8692.2

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 11:46:07 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	F **.0008**	**.0003**	**.0002**	**.0007**	**.0002**	**.0007**	**.0002**	**-.0005**
Stddev	.0004	.0001	.0002	.0002	.0004	.0003	.0000	.0002	.0004
%RSD	50.17	18.13	53.34	89.75	62.37	129.8	2.378	105.9	82.88
#1	.0004	.0009	.0005	.0003	.0009	.0003	.0007	.0005	-.0007
#2	.0012	.0007	.0002	.0004	.0009	.0004	.0007	.0001	-.0009
#3	.0009	.0006	.0002	-.0000	.0002	-.0001	.0006	.0001	-.0000
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0004**	**.0004**	**-.0003**	**-.0000**	**.0001**	**-.0001**	**.0127**	**.0207**
Stddev	.0004	.0000	.0009	.0005	.0006	.0008	.0012	.0006	.0005
%RSD	46.46	8.613	214.5	191.5	2212.	1419.	1771.	4.916	2.184
#1	.0012	.0004	.0014	.0002	-.0007	.0005	.0013	.0133	.0203
#2	.0007	.0003	-.0002	-.0009	.0004	-.0008	-.0008	.0121	.0212
#3	.0005	.0003	.0000	-.0001	.0002	.0005	-.0007	.0127	.0206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0152**	**.0129**	**.0622**	**.0183**	**.0016**	**.0003**	**.0013**	**.0006**	**.0008**
Stddev	.0030	.0192	.0334	.0060	.0011	.0001	.0004	.0005	.0001
%RSD	20.00	148.5	53.78	32.77	66.71	40.36	27.73	86.51	15.88
#1	.0167	.0233	.0979	.0234	.0013	.0005	.0010	.0011	.0010
#2	.0117	-.0092	.0570	.0117	.0007	.0003	.0017	.0004	.0008
#3	.0172	.0247	.0316	.0199	.0027	.0002	.0013	.0002	.0007
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 11:46:07 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0001**	**.0007**	**-.0008**	**-.0005**	**.0027**	**.0022**
Stddev	.0002	.0005	.0001	.0028	.0001	.0010	.0001
%RSD	55.50	390.6	17.68	337.1	23.29	39.38	6.129
#1	.0001	.0004	.0007	-.0015	-.0004	.0018	.0021
#2	.0005	-.0006	.0008	.0023	-.0006	.0038	.0022
#3	.0005	-.0002	.0005	-.0033	-.0005	.0024	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109760.**	**10241.**	**4431.4**	**9742.6**
Stddev	57.	55.	32.0	70.4
%RSD	.05194	.54156	.72291	.72285
#1	109690.	10181.	4409.2	9694.2
#2	109770.	10252.	4468.2	9823.4
#3	109800.	10291.	4417.0	9710.2

Zoom In Zoom Out

Sample Name: mp13671-mb1 Acquired: 4/3/2019 11:51:36 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**.0004**	**-.0000**	**.0006**	**.0001**	**.0004**	**-.0002**	**-.0005**
Stddev	.0002	.0001	.0001	.0001	.0002	.0003	.0001	.0002	.0004
%RSD	128.4	100.5	19.75	121.9	40.75	516.9	18.76	123.5	75.54
#1	-.0001	-.0000	.0003	.0000	.0008	-.0002	.0004	-.0002	-.0001
#2	.0002	-.0001	.0003	-.0001	.0005	.0004	.0005	-.0004	-.0008
#3	.0003	-.0000	.0005	-.0001	.0004	.0000	.0003	.0001	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0017**	**-.0008**	**-.0012**	**-.0001**	**.0004**	**-.0004**	**-.0052**	**.0499**
Stddev	.0004	.0001	.0003	.0002	.0010	.0016	.0001	.0022	.0084
%RSD	3313.	3.000	36.24	15.77	914.4	438.3	22.43	41.54	16.91
#1	.0002	.0017	-.0011	-.0014	.0011	.0012	-.0004	-.0037	.0425
#2	-.0004	.0017	-.0007	-.0010	-.0008	.0014	-.0005	-.0077	.0480
#3	.0002	.0016	-.0005	-.0012	-.0006	-.0015	-.0003	-.0042	.0591

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0214**	**.0155**	**.0132**	**.0401**	**.0015**	**.0002**	**.0088**	**-.0007**	**.0001**
Stddev	.0041	.0243	.0156	.0076	.0002	.0001	.0007	.0004	.0001
%RSD	19.28	157.3	117.8	18.86	16.71	59.22	8.186	49.88	59.28
#1	.0247	-.0124	.0299	.0314	.0013	.0001	.0082	-.0008	.0002
#2	.0227	.0323	.0107	.0454	.0018	.0003	.0087	-.0010	.0000
#3	.0168	.0266	-.0009	.0435	.0014	.0003	.0096	-.0003	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0009**	**.0003**	**.0402**	**-.0023**	**.0000**	**.0038**
Stddev	.0002	.0009	.0001	.0026	.0007	.0011	.0010
%RSD	78.10	99.67	28.77	6.550	32.25	5582.	25.98
#1	-.0005	.0000	.0003	.0376	-.0030	-.0011	.0026
#2	-.0004	.0009	.0003	.0429	-.0022	.0012	.0043
#3	-.0000	.0018	.0002	.0400	-.0016	.0000	.0044

Zoom In Zoom Out

Sample Name: mp13671-mb1 Acquired: 4/3/2019 11:51:36 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110250.**	**10504.**	**4417.7**	**9731.7**
Stddev	451.	25.	13.9	25.8
%RSD	.40878	.24108	.31539	.26547
#1	110360.	10491.	4407.0	9713.6
#2	109750.	10533.	4433.5	9761.3
#3	110630.	10487.	4412.8	9720.1

Zoom In Zoom Out

Sample Name: mp13671-mb2 Acquired: 4/3/2019 11:57:02 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0002**	**-.0002**	**.0006**	**.0002**	**.0004**	**.0001**	**-.0008**
Stddev	.0002	.0001	.0002	.0003	.0001	.0002	.0000	.0001	.0002
%RSD	490.7	128.1	133.8	118.0	12.23	69.42	6.909	100.1	21.24
#1	-.0002	.0000	.0000	.0000	.0006	.0004	.0005	.0002	-.0010
#2	.0000	.0001	.0004	-.0002	.0005	.0002	.0005	-.0000	-.0006
#3	.0003	-.0000	.0001	-.0005	.0006	.0001	.0004	.0002	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0016**	**-.0010**	**-.0002**	**-.0005**	**-.0001**	**.0001**	**.0065**	**.0123**
Stddev	.0003	.0000	.0009	.0004	.0010	.0019	.0010	.0142	.0014
%RSD	96.12	1.293	91.27	227.3	203.2	2532.	992.3	219.1	11.14
#1	.0006	.0016	-.0004	-.0003	.0001	.0015	.0013	.0206	.0136
#2	.0000	.0016	-.0020	-.0005	-.0017	-.0022	-.0004	-.0079	.0108
#3	.0003	.0017	-.0006	.0003	.0000	.0005	-.0006	.0067	.0125

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0257**	**-.0169**	**.0069**	**.0112**	**.0005**	**.0001**	**.0088**	**-.0010**	**.0001**
Stddev	.0025	.0173	.0172	.0025	.0003	.0001	.0004	.0003	.0001
%RSD	9.718	102.5	249.3	22.26	70.31	88.92	4.739	28.48	47.68
#1	.0250	-.0172	.0260	.0126	.0007	.0001	.0088	-.0013	.0001
#2	.0285	.0006	.0021	.0083	.0001	.0001	.0092	-.0007	.0002
#3	.0236	-.0341	-.0074	.0128	.0006	.0000	.0084	-.0010	.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0005**	**.0004**	**.0053**	**-.0022**	**.0003**	**.0035**
Stddev	.0001	.0003	.0002	.0017	.0005	.0010	.0009
%RSD	346.2	48.03	45.15	32.63	21.77	314.7	25.45
#1	-.0001	.0008	.0004	.0071	-.0018	-.0002	.0043
#2	.0001	.0005	.0006	.0036	-.0028	-.0003	.0036
#3	.0002	.0003	.0002	.0052	-.0021	.0015	.0026

Zoom In Zoom Out

Sample Name: mp13671-mb2 Acquired: 4/3/2019 11:57:02 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110920.**	**10572.**	**4393.8**	**9673.8**
Stddev	449.	64.	2.8	13.1
%RSD	.40503	.60837	.06288	.13498
#1	110590.	10645.	4390.7	9667.7
#2	111430.	10523.	4394.6	9664.8
#3	110750.	10549.	4396.0	9688.7

Zoom In Zoom Out

Sample Name: mp13671-b1 Acquired: 4/3/2019 12:02:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.964**	**1.994**	**1.964**	**1.960**	**1.963**	**1.933**	**1.984**	**1.962**
Stddev	.002	.003	.003	.004	.004	.002	.004	.004
%RSD	.1081	.1570	.1306	.2024	.1955	.1096	.1849	.1958
#1	1.967	1.997	1.967	1.961	1.960	1.934	1.981	1.964
#2	1.964	1.991	1.965	1.962	1.961	1.931	1.982	1.965
#3	1.962	1.993	1.962	1.955	1.967	1.935	1.988	1.958

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2470**	**1.946**	**1.994**	**1.977**	**2.052**	**1.985**	**1.950**	**2.019**
Stddev	.0008	.002	.004	.004	.004	.004	.006	.005
%RSD	.3050	.1050	.2140	.2196	.2158	.1761	.3292	.2642
#1	.2463	1.944	1.995	1.981	2.054	1.983	1.953	2.019
#2	.2468	1.945	1.998	1.977	2.055	1.989	1.954	2.024
#3	.2478	1.948	1.989	1.972	2.047	1.983	1.942	2.013

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.94**	**25.42**	**25.88**	**25.26**	**25.17**	**25.09**	**1.974**	**2.035**
Stddev	.03	.07	.04	.12	.01	.04	.004	.003
%RSD	.1231	.2635	.1491	.4616	.0456	.1486	.1823	.1338
#1	24.97	25.50	25.93	25.32	25.16	25.13	1.977	2.037
#2	24.94	25.37	25.86	25.33	25.18	25.07	1.970	2.035
#3	24.91	25.40	25.87	25.12	25.17	25.07	1.974	2.032

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0909**	**2.063**	**1.965**	**1.967**	**1.928**	**1.967**	F **-.0860**	**-.0005**
Stddev	.0015	.011	.003	.004	.002	.004	.0014	.0017
%RSD	1.664	.5296	.1284	.2292	.1193	.1822	1.607	337.3
#1	.0895	2.057	1.968	1.965	1.926	1.965	-.0848	-.0002
#2	.0925	2.057	1.965	1.965	1.930	1.965	-.0858	.0011
#3	.0908	2.076	1.963	1.973	1.927	1.971	-.0875	-.0024

Zoom In Zoom Out

Sample Name: mp13671-b1 Acquired: 4/3/2019 12:02:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0011**	**1.966**
Stddev	.0005	.002
%RSD	41.68	.1242
#1	.0006	1.964
#2	.0012	1.966
#3	.0015	1.969

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106490.**	**10416.**	**4293.2**	**8898.6**
Stddev	323.	8.	4.3	8.3
%RSD	.30295	.07267	.10061	.09310
#1	106640.	10407.	4294.9	8905.1
#2	106700.	10421.	4288.3	8889.3
#3	106120.	10420.	4296.4	8901.4

Zoom In Zoom Out

Sample Name: mp13671-b2 Acquired: 4/3/2019 12:07:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.956**	**1.981**	**1.947**	**1.946**	**1.998**	**1.951**	**2.001**	**1.944**
Stddev	.007	.010	.036	.032	.030	.033	.032	.034
%RSD	.3446	.5042	1.852	1.632	1.529	1.700	1.616	1.750
#1	1.958	1.983	1.906	1.909	1.982	1.931	1.985	1.905
#2	1.961	1.989	1.968	1.966	1.979	1.932	1.980	1.964
#3	1.948	1.970	1.968	1.963	2.033	1.989	2.039	1.963

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2603**	**1.956**	**1.980**	**1.999**	**2.029**	**1.966**	**1.927**	**2.033**
Stddev	.0032	.032	.035	.035	.029	.034	.030	.038
%RSD	1.215	1.632	1.744	1.724	1.451	1.734	1.537	1.867
#1	.2581	1.940	1.940	1.959	1.995	1.927	1.893	1.989
#2	.2587	1.936	2.001	2.019	2.042	1.987	1.944	2.059
#3	.2639	1.993	1.999	2.018	2.049	1.985	1.945	2.050

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.70**	**26.30**	**26.54**	**25.99**	**25.92**	**25.85**	**1.948**	**2.061**
Stddev	.09	.09	.11	.16	.16	.13	.034	.036
%RSD	.3558	.3568	.4189	.5993	.6144	.5074	1.718	1.750
#1	25.80	26.37	26.53	25.88	26.00	25.89	1.910	2.019
#2	25.69	26.35	26.66	26.17	26.01	25.95	1.965	2.082
#3	25.62	26.20	26.43	25.92	25.73	25.70	1.970	2.081

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0996**	**2.077**	**1.950**	**2.027**	**1.811**	**2.026**	F **-.0798**	**-.0000**
Stddev	.0026	.037	.009	.032	.043	.032	.0030	.0010
%RSD	2.615	1.808	.4610	1.567	2.374	1.571	3.743	2294.
#1	.0966	2.034	1.953	2.011	1.762	2.008	-.0771	-.0011
#2	.1014	2.098	1.957	2.007	1.831	2.006	-.0830	-.0000
#3	.1008	2.099	1.940	2.064	1.840	2.062	-.0792	.0010

Zoom In Zoom Out

Sample Name: mp13671-b2 Acquired: 4/3/2019 12:07:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0015**	**1.942**
Stddev	.0010	.033
%RSD	63.61	1.678
#1	.0004	1.906
#2	.0022	1.952
#3	.0019	1.968

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105590.**	**10395.**	**4329.6**	**8977.9**
Stddev	1331.	36.	67.9	129.1
%RSD	1.2606	.34747	1.5678	1.4381
#1	106080.	10401.	4408.0	9126.9
#2	106600.	10356.	4289.6	8905.5
#3	104080.	10427.	4291.2	8901.2

Zoom In Zoom Out

Sample Name: mp13671-s1 Acquired: 4/3/2019 12:12:30 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.029**	**1.946**	**1.990**	**1.942**	**1.928**	**1.919**	**2.849**	**1.940**	**.2498**
Stddev	.002	.002	.001	.002	.003	.003	.003	.002	.0002
%RSD	.1144	.1074	.0489	.1056	.1358	.1706	.1132	.0800	.0956
#1	2.026	1.945	1.991	1.944	1.931	1.917	2.852	1.939	.2501
#2	2.030	1.944	1.989	1.941	1.926	1.917	2.846	1.942	.2496
#3	2.030	1.948	1.989	1.940	1.929	1.922	2.849	1.940	.2498

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.922**	**1.953**	**2.009**	**1.961**	**1.947**	**1.975**	**2.041**	**25.77**	**170.9**
Stddev	.002	.004	.005	.004	.002	.003	.005	.02	.0
%RSD	.0832	.2007	.2752	.1953	.1244	.1540	.2406	.0760	.0115
#1	1.923	1.953	2.015	1.963	1.947	1.978	2.047	25.75	171.0
#2	1.924	1.957	2.004	1.956	1.950	1.972	2.041	25.78	170.9
#3	1.920	1.949	2.008	1.963	1.945	1.975	2.037	25.77	170.9

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.17**	**50.98**	**33.07**	**105.3**	**2.735**	**2.052**	**8.545**	**1.997**	**2.644**
Stddev	.03	.08	.04	.1	.004	.002	.011	.002	.004
%RSD	.1249	.1650	.1266	.1251	.1371	.0725	.1278	.1202	.1343
#1	27.14	50.97	33.07	105.1	2.739	2.054	8.558	1.998	2.640
#2	27.17	50.90	33.11	105.3	2.732	2.051	8.540	1.999	2.646
#3	27.21	51.07	33.02	105.4	2.734	2.051	8.538	1.994	2.645

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.965**	**1.928**	**1.946**	**90.76**	**-.0005**	**-.0003**	**2.067**
Stddev	.002	.005	.002	.21	.0008	.0001	.004
%RSD	.1101	.2814	.1226	.2339	167.2	37.14	.1985
#1	1.963	1.930	1.944	90.68	-.0008	-.0003	2.069
#2	1.967	1.931	1.949	90.61	-.0010	-.0002	2.062
#3	1.963	1.922	1.947	91.01	.0004	-.0005	2.070

Zoom In Zoom Out

Sample Name: mp13671-s1 Acquired: 4/3/2019 12:12:30 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101390.**	**10175.**	**4061.5**	**8269.2**
Stddev	249.	29.	7.7	9.5
%RSD	.24560	.28539	.18874	.11495
#1	101170.	10172.	4056.7	8261.4
#2	101660.	10205.	4057.4	8266.5
#3	101360.	10147.	4070.3	8279.8

Zoom In Zoom Out

Sample Name: mp13671-s2 Acquired: 4/3/2019 12:17:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.025**	**1.939**	**1.971**	**1.920**	**1.893**	**1.906**	**2.847**	**1.924**	**.2497**
Stddev	.004	.003	.008	.006	.003	.004	.004	.004	.0007
%RSD	.1826	.1711	.4202	.2976	.1748	.2173	.1522	.1889	.2603
#1	2.022	1.937	1.976	1.926	1.889	1.909	2.843	1.928	.2490
#2	2.023	1.938	1.976	1.918	1.895	1.902	2.846	1.923	.2498
#3	2.029	1.943	1.962	1.915	1.895	1.908	2.851	1.921	.2503

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.906**	**1.929**	**2.038**	**1.947**	**1.929**	**1.980**	**2.058**	**25.97**	**173.8**
Stddev	.003	.003	.009	.010	.004	.010	.009	.06	.1
%RSD	.1564	.1653	.4392	.5253	.2287	.4907	.4298	.2259	.0834
#1	1.904	1.933	2.039	1.950	1.933	1.987	2.065	25.90	173.7
#2	1.906	1.928	2.047	1.955	1.929	1.984	2.061	26.01	173.8
#3	1.910	1.927	2.029	1.935	1.924	1.969	2.048	25.99	174.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.59**	**51.92**	**33.60**	**107.4**	**2.733**	**2.080**	**8.737**	**2.008**	**2.670**
Stddev	.05	.14	.10	.1	.010	.005	.027	.002	.007
%RSD	.1837	.2694	.3096	.0673	.3565	.2600	.3088	.1119	.2695
#1	27.56	51.77	33.63	107.4	2.743	2.085	8.755	2.007	2.666
#2	27.55	52.05	33.48	107.3	2.733	2.081	8.750	2.011	2.666
#3	27.64	51.94	33.68	107.5	2.724	2.074	8.706	2.006	2.679

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.977**	**1.995**	**1.963**	**93.38**	**-.0003**	**-.0001**	**2.060**
Stddev	.003	.007	.004	.66	.0013	.0019	.012
%RSD	.1741	.3300	.2264	.7030	418.3	2922.	.5895
#1	1.974	2.001	1.960	93.60	-.0017	.0014	2.054
#2	1.975	1.996	1.960	93.90	.0010	.0005	2.074
#3	1.980	1.988	1.968	92.64	-.0002	-.0022	2.051

Zoom In Zoom Out

Sample Name: mp13671-s2 Acquired: 4/3/2019 12:17:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102340.**	**10299.**	**4057.1**	**8253.0**
Stddev	204.	42.	3.5	6.0
%RSD	.19887	.40761	.08546	.07212
#1	102510.	10319.	4055.3	8246.2
#2	102390.	10327.	4054.8	8255.5
#3	102120.	10251.	4061.1	8257.3

Zoom In Zoom Out

Sample Name: jc84498-93 Acquired: 4/3/2019 12:22:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1039**	**.0006**	**.0004**	**.0007**	**.0035**	**.0064**	**.9743**	**.0034**	**.0006**
Stddev	.0005	.0001	.0002	.0002	.0003	.0002	.0045	.0002	.0002
%RSD	.4984	13.13	46.95	26.27	8.567	2.468	.4608	5.362	36.28
#1	.1038	.0007	.0002	.0007	.0035	.0063	.9721	.0032	.0008
#2	.1045	.0005	.0004	.0009	.0038	.0066	.9795	.0033	.0006
#3	.1034	.0006	.0005	.0006	.0032	.0065	.9713	.0036	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**.0054**	**.0020**	**-.0005**	**.0019**	**.0002**	**.0006**	**.6778**	**154.2**
Stddev	.0003	.0001	.0002	.0005	.0005	.0003	.0004	.0119	.3
%RSD	4.636	2.182	10.85	105.9	24.85	213.1	61.14	1.759	.2183
#1	.0054	.0053	.0018	-.0001	.0023	.0005	.0003	.6898	153.8
#2	.0058	.0054	.0022	-.0011	.0014	-.0001	.0011	.6659	154.5
#3	.0053	.0055	.0019	-.0003	.0021	.0000	.0005	.6778	154.2

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.080**	**28.00**	**8.154**	**84.40**	**.8099**	**.0538**	**8.202**	**-.0019**	**.7683**
Stddev	.007	.12	.046	.16	.0022	.0001	.013	.0005	.0012
%RSD	.3358	.4205	.5651	.1872	.2679	.2619	.1545	25.19	.1603
#1	2.079	27.93	8.102	84.23	.8124	.0539	8.214	-.0013	.7673
#2	2.073	28.14	8.186	84.54	.8090	.0536	8.205	-.0020	.7697
#3	2.087	27.94	8.175	84.44	.8083	.0537	8.189	-.0022	.7680

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0323**	**.0196**	**.0006**	**95.90**	**-.0013**	**.0001**	**.0712**
Stddev	.0003	.0005	.0001	.51	.0001	.0015	.0013
%RSD	.9038	2.584	21.68	.5367	9.689	2047.	1.782
#1	.0320	.0202	.0007	96.19	-.0012	-.0014	.0710
#2	.0326	.0196	.0006	96.20	-.0014	.0000	.0700
#3	.0323	.0192	.0004	95.31	-.0013	.0016	.0725

Zoom In Zoom Out

Sample Name: jc84498-93 Acquired: 4/3/2019 12:22:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102620.**	**10241.**	**4079.2**	**8485.3**
Stddev	342.	29.	4.6	14.1
%RSD	.33372	.28752	.11311	.16562
#1	102900.	10272.	4077.3	8479.1
#2	102240.	10213.	4075.8	8475.3
#3	102710.	10240.	4084.4	8501.3

Zoom In Zoom Out

Sample Name: mp13671-sd1 Acquired: 4/3/2019 12:27:46 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1061**	**.0007**	**.0014**	**.0016**	**.0080**	**.0066**	**1.002**	**.0039**	**-.0009**
Stddev	.0008	.0005	.0004	.0021	.0038	.0002	.002	.0015	.0029
%RSD	.7949	66.38	27.49	136.3	47.30	2.803	.2426	39.20	332.2
#1	.1070	.0002	.0018	.0035	.0104	.0066	.9991	.0023	-.0040
#2	.1054	.0007	.0010	-.0007	.0036	.0064	1.003	.0040	.0017
#3	.1058	.0011	.0014	.0020	.0100	.0068	1.003	.0054	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0082**	**.0085**	**.0033**	**.0014**	**.0024**	**.0007**	**.0002**	**.6822**	**158.5**
Stddev	.0011	.0002	.0022	.0018	.0018	.0057	.0040	.0554	.2
%RSD	13.06	2.313	66.61	132.7	73.90	817.0	2046.	8.122	.1062
#1	.0086	.0085	.0057	.0031	.0038	-.0053	.0038	.7379	158.5
#2	.0091	.0087	.0030	-.0005	.0029	.0015	-.0042	.6815	158.3
#3	.0070	.0083	.0013	.0016	.0004	.0059	.0010	.6271	158.7

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.126**	**28.82**	**8.214**	**85.19**	**.8221**	**.0560**	**8.292**	**-.0037**	**.7768**
Stddev	.025	.15	.083	.04	.0010	.0010	.019	.0026	.0009
%RSD	1.195	.5320	1.009	.0426	.1255	1.844	.2256	68.48	.1106
#1	2.117	28.74	8.120	85.18	.8218	.0551	8.309	-.0067	.7772
#2	2.106	28.99	8.250	85.16	.8212	.0557	8.272	-.0020	.7775
#3	2.154	28.71	8.274	85.23	.8232	.0571	8.296	-.0025	.7759

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0309**	**.0460**	**.0034**	**95.07**	**-.0100**	**.0048**	**.0826**
Stddev	.0011	.0029	.0007	.76	.0046	.0050	.0009
%RSD	3.601	6.312	20.76	.8015	45.97	102.4	1.070
#1	.0321	.0455	.0031	95.47	-.0048	.0003	.0826
#2	.0299	.0491	.0042	94.19	-.0136	.0040	.0835
#3	.0307	.0433	.0029	95.54	-.0115	.0102	.0818

Zoom In Zoom Out

Sample Name: mp13671-sd1 Acquired: 4/3/2019 12:27:46 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107080.**	**10320.**	**4308.4**	**9244.6**
Stddev	76.	9.	4.3	12.6
%RSD	.07127	.09173	.09973	.13625
#1	107160.	10325.	4303.4	9231.3
#2	107010.	10325.	4311.1	9246.1
#3	107080.	10309.	4310.6	9256.4

Zoom In Zoom Out

Sample Name: jc84498-102f Acquired: 4/3/2019 12:33:19 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0448**	**.0001**	**.0000**	**.0003**	**.0007**	**.0007**	**2.652**	**.0006**
Stddev	.0002	.0001	.0001	.0001	.0001	.0004	.007	.0002
%RSD	.4010	114.0	196.1	43.87	19.66	58.97	.2744	31.78
#1	.0449	.0001	-.0000	.0003	.0006	.0003	2.654	.0008
#2	.0448	-.0000	.0000	.0004	.0009	.0006	2.644	.0004
#3	.0446	.0001	.0001	.0001	.0008	.0012	2.659	.0005

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0017**	**.0005**	**-.0008**	**-.0004**	**.0014**	**-.0041**	**.0001**
Stddev	.0004	.0003	.0000	.0005	.0006	.0004	.0014	.0014
%RSD	86.29	15.03	7.882	61.73	149.7	29.86	34.90	2551.
#1	-.0001	.0017	.0005	-.0006	-.0009	.0016	-.0044	-.0006
#2	-.0009	.0020	.0005	-.0005	.0003	.0009	-.0053	.0017
#3	-.0005	.0014	.0005	-.0014	-.0006	.0016	-.0025	-.0009

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0215**	**93.70**	**3.132**	**26.58**	**1.702**	**63.47**	**.2727**	**.0004**
Stddev	.0150	.47	.021	.22	.029	.31	.0024	.0002
%RSD	69.70	.5012	.6579	.8421	1.678	.4836	.8727	50.49
#1	-.0131	93.70	3.109	26.48	1.700	63.59	.2738	.0004
#2	-.0387	94.16	3.146	26.84	1.732	63.69	.2744	.0002
#3	-.0125	93.22	3.142	26.43	1.675	63.12	.2700	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.06**	**-.0033**	**.2046**	W **-.0018**	**.0292**	W **-.0020**	**21.40**	**-.0021**
Stddev	.15	.0006	.0007	.0000	.0012	.0002	.20	.0007
%RSD	.5994	19.37	.3264	1.381	4.136	8.927	.9218	34.05
#1	25.18	-.0041	.2047	-.0018	.0304	-.0021	21.59	-.0029
#2	25.12	-.0031	.2053	-.0017	.0292	-.0020	21.41	-.0015
#3	24.89	-.0029	.2039	-.0018	.0279	-.0018	21.20	-.0019

Zoom In Zoom Out

Sample Name: jc84498-102f Acquired: 4/3/2019 12:33:19 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0016**	**.0171**
Stddev	.0015	.0003
%RSD	96.09	1.643
#1	-.0034	.0170
#2	-.0008	.0170
#3	-.0006	.0175

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104710.**	**10329.**	**4203.6**	**8739.5**
Stddev	443.	57.	23.5	49.5
%RSD	.42268	.54795	.55901	.56666
#1	104480.	10315.	4185.3	8699.8
#2	105220.	10280.	4195.5	8723.8
#3	104430.	10391.	4230.1	8795.0

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 12:38:41 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.966**	**1.990**	**1.987**	**1.991**	**1.997**	**1.937**	**2.002**	**1.993**	**.2436**
Stddev	.004	.003	.003	.004	.004	.007	.003	.003	.0002
%RSD	.2252	.1527	.1714	.1744	.2182	.3739	.1469	.1527	.0637
#1	1.969	1.991	1.991	1.995	1.996	1.941	2.001	1.996	.2434
#2	1.968	1.993	1.985	1.989	2.002	1.928	2.005	1.991	.2435
#3	1.961	1.987	1.984	1.989	1.994	1.941	2.000	1.992	.2437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.959**	**2.017**	**1.998**	**2.059**	**2.015**	**1.980**	**2.011**	**39.02**	**39.88**
Stddev	.001	.006	.004	.007	.005	.003	.000	.13	.12
%RSD	.0469	.2975	.2067	.3535	.2401	.1310	.0178	.3285	.3021
#1	1.958	2.023	2.002	2.068	2.021	1.982	2.011	39.17	40.01
#2	1.959	2.015	1.994	2.055	2.013	1.977	2.011	38.98	39.78
#3	1.959	2.012	1.998	2.056	2.012	1.980	2.011	38.92	39.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.08**	**39.70**	**39.39**	**39.14**	**2.029**	**2.020**	**5.039**	**2.048**	**1.965**
Stddev	.02	.12	.07	.08	.003	.001	.008	.007	.005
%RSD	.0453	.3090	.1748	.1961	.1344	.0643	.1586	.3602	.2641
#1	40.08	39.68	39.43	39.20	2.032	2.022	5.048	2.057	1.966
#2	40.10	39.58	39.42	39.17	2.026	2.019	5.033	2.046	1.969
#3	40.06	39.82	39.31	39.05	2.029	2.019	5.037	2.042	1.959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 12:38:41 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.975**	**1.992**	**1.977**	**1.993**	**2.002**	**1.977**	**1.994**
Stddev	.001	.007	.002	.012	.003	.005	.005
%RSD	.0416	.3407	.0843	.6163	.1241	.2575	.2556
#1	1.975	1.998	1.978	2.007	2.004	1.982	2.000
#2	1.974	1.993	1.975	1.989	1.999	1.975	1.993
#3	1.976	1.984	1.978	1.983	2.003	1.973	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104770.**	**10135.**	**4290.6**	**8736.0**
Stddev	362.	53.	7.1	14.1
%RSD	.34556	.52057	.16436	.16196
#1	104950.	10107.	4282.6	8719.8
#2	104350.	10196.	4293.7	8745.7
#3	105010.	10102.	4295.7	8742.6

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 12:43:42 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	F **.0004**	**.0003**	**.0003**	**.0001**	**-.0001**	**.0004**	**.0004**	**-.0004**
Stddev	.0001	.0001	.0001	.0001	.0002	.0001	.0001	.0002	.0003
%RSD	13.56	30.29	52.04	25.79	128.2	103.1	16.08	57.86	81.68
#1	.0008	.0006	.0002	.0004	-.0000	-.0002	.0004	.0005	-.0006
#2	.0008	.0004	.0001	.0003	.0001	-.0000	.0005	.0001	-.0000
#3	.0006	.0003	.0004	.0003	.0003	-.0000	.0005	.0006	-.0007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0002**	**.0003**	**.0002**	**.0004**	**.0004**	**.0000**	**.0052**	**.0133**
Stddev	.0002	.0000	.0002	.0012	.0001	.0013	.0010	.0097	.0040
%RSD	31.91	25.88	96.53	563.6	14.62	293.5	2252.	188.0	29.92
#1	.0006	.0002	.0003	.0016	.0005	.0011	.0009	.0163	.0173
#2	.0003	.0002	.0005	-.0004	.0005	.0013	-.0010	-.0020	.0093
#3	.0007	.0001	.0000	-.0006	.0004	-.0010	.0002	.0013	.0133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0088**	**.0014**	**.0365**	**.0200**	**.0016**	**.0003**	**.0014**	**.0005**	**.0004**
Stddev	.0021	.0316	.0140	.0090	.0004	.0002	.0008	.0002	.0001
%RSD	23.74	2202.	38.32	44.86	28.26	66.30	58.53	33.53	25.93
#1	.0111	-.0068	.0500	.0203	.0020	.0005	.0020	.0008	.0005
#2	.0081	-.0252	.0376	.0288	.0011	.0002	.0005	.0005	.0004
#3	.0071	.0363	.0220	.0109	.0016	.0001	.0018	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 12:43:42 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0033**	**.0004**	**.0013**	**-.0006**	**.0016**	**.0032**
Stddev	.0002	.0004	.0001	.0024	.0009	.0016	.0003
%RSD	667.8	12.94	22.41	187.3	145.3	97.17	8.904
#1	.0002	.0038	.0004	-.0014	-.0017	.0002	.0034
#2	-.0000	.0030	.0004	.0033	-.0000	.0033	.0034
#3	-.0002	.0031	.0003	.0020	-.0002	.0014	.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110410.**	**10277.**	**4414.7**	**9701.3**
Stddev	131.	45.	2.9	7.8
%RSD	.11892	.43470	.06622	.08006
#1	110530.	10320.	4416.1	9692.3
#2	110270.	10279.	4416.7	9705.6
#3	110430.	10231.	4411.4	9705.9

Zoom In Zoom Out

Sample Name: jc84498-103f Acquired: 4/3/2019 12:49:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0247**	**.0001**	**.0001**	**-.0003**	**.0017**	**.0002**	**.0000**	**.0001**	**-.0005**
Stddev	.0001	.0002	.0001	.0003	.0002	.0002	.0001	.0004	.0005
%RSD	.2070	136.3	63.77	104.2	10.62	101.1	1150.	312.7	96.43
#1	.0246	.0003	.0000	-.0004	.0015	.0004	.0000	.0004	.0000
#2	.0246	.0001	.0001	-.0006	.0019	.0001	-.0001	.0003	-.0009
#3	.0247	-.0000	.0002	.0000	.0016	.0001	.0001	-.0003	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0012**	**-.0011**	**-.0002**	**.0008**	**-.0010**	**-.0012**	**-.0031**	**57.97**
Stddev	.0005	.0002	.0001	.0016	.0006	.0013	.0004	.0097	.13
%RSD	39.47	15.15	9.675	1041.	78.56	125.3	30.89	313.6	.2276
#1	.0017	.0012	-.0012	.0017	.0001	-.0010	-.0013	.0008	57.98
#2	.0008	.0014	-.0012	-.0013	.0011	-.0023	-.0015	.0041	57.83
#3	.0012	.0011	-.0010	-.0009	.0011	.0002	-.0008	-.0142	58.09

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061**	**17.75**	**.8250**	**9.230**	**.0142**	**.0009**	**12.35**	**-.0022**	**.1577**
Stddev	.0030	.04	.0060	.013	.0002	.0002	.05	.0005	.0003
%RSD	49.49	.2472	.7236	.1438	1.533	25.84	.4377	22.89	.1823
#1	.0083	17.71	.8204	9.227	.0144	.0008	12.29	-.0028	.1578
#2	.0073	17.79	.8228	9.245	.0142	.0008	12.35	-.0020	.1579
#3	.0027	17.74	.8318	9.219	.0140	.0012	12.40	-.0019	.1573

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0149**	**-.0007**	**11.44**	**-.0015**	**.0003**	**.0433**
Stddev	.0003	.0004	.0001	.07	.0004	.0005	.0008
%RSD	25.15	2.674	15.15	.5764	28.54	144.1	1.881
#1	-.0009	.0145	-.0008	11.40	-.0010	.0008	.0434
#2	-.0015	.0148	-.0008	11.41	-.0018	.0002	.0440
#3	-.0015	.0153	-.0006	11.52	-.0016	-.0001	.0424

Zoom In Zoom Out

Sample Name: jc84498-103f Acquired: 4/3/2019 12:49:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107220.**	**10332.**	**4285.4**	**9105.7**
Stddev	212.	15.	8.8	14.7
%RSD	.19762	.14461	.20505	.16145
#1	106980.	10336.	4293.9	9120.2
#2	107370.	10344.	4285.8	9106.1
#3	107310.	10315.	4276.3	9090.8

Zoom In Zoom Out

Sample Name: jc84498-104f Acquired: 4/3/2019 12:54:34 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0500**	**.0001**	**.0002**	**-.0004**	**.0010**	**.0004**	**.0024**	**.0011**	**-.0003**
Stddev	.0002	.0000	.0000	.0004	.0004	.0002	.0001	.0001	.0001
%RSD	.4001	73.62	17.43	102.7	43.98	64.63	2.084	10.77	34.88
#1	.0501	.0000	.0002	.0000	.0005	.0007	.0024	.0010	-.0003
#2	.0501	.0000	.0002	-.0008	.0012	.0003	.0024	.0012	-.0002
#3	.0498	.0001	.0002	-.0004	.0013	.0002	.0024	.0012	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0008**	**-.0010**	**-.0006**	**.0002**	**-.0005**	**-.0007**	**-.0230**	**71.27**
Stddev	.0001	.0000	.0011	.0009	.0007	.0020	.0004	.0165	.12
%RSD	16.91	4.805	112.0	157.6	298.7	396.8	59.93	71.59	.1696
#1	.0010	.0008	-.0012	-.0016	-.0001	-.0007	-.0010	-.0041	71.20
#2	.0009	.0009	-.0021	.0002	-.0002	.0016	-.0002	-.0306	71.41
#3	.0007	.0008	.0002	-.0004	.0010	-.0024	-.0008	-.0344	71.21

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066**	**22.67**	**1.023**	**14.02**	**.0118**	**.0004**	**13.33**	**-.0026**	**.2047**
Stddev	.0015	.09	.034	.03	.0008	.0002	.08	.0000	.0005
%RSD	23.55	.3963	3.302	.2259	7.171	44.71	.5655	1.548	.2386
#1	.0072	22.71	1.009	13.99	.0110	.0002	13.24	-.0026	.2042
#2	.0077	22.73	.9992	14.05	.0127	.0005	13.38	-.0026	.2051
#3	.0048	22.57	1.062	14.03	.0118	.0005	13.36	-.0027	.2049

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0146**	**-.0009**	**11.59**	**-.0029**	**-.0008**	**.0380**
Stddev	.0002	.0004	.0001	.10	.0004	.0003	.0003
%RSD	13.13	2.473	7.212	.8823	14.86	40.32	.6993
#1	-.0014	.0143	-.0009	11.47	-.0030	-.0004	.0383
#2	-.0011	.0150	-.0009	11.65	-.0024	-.0010	.0377
#3	-.0014	.0146	-.0010	11.65	-.0032	-.0009	.0381

Zoom In Zoom Out

Sample Name: jc84498-104f Acquired: 4/3/2019 12:54:34 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107520.**	**10432.**	**4250.1**	**8972.6**
Stddev	182.	23.	18.6	36.1
%RSD	.16911	.22452	.43709	.40192
#1	107700.	10407.	4271.3	9013.9
#2	107330.	10434.	4236.6	8947.3
#3	107530.	10454.	4242.5	8956.6

Zoom In Zoom Out

Sample Name: jc84498-105f Acquired: 4/3/2019 12:59:58 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0492**	**-.0000**	**.0001**	**.0015**	**.0008**	**.0015**	**.2657**	**.0040**	**-.0006**
Stddev	.0004	.0001	.0002	.0002	.0003	.0002	.0007	.0002	.0003
%RSD	.9103	507.3	193.3	15.69	41.57	13.59	.2596	6.242	47.19
#1	.0492	.0000	.0001	.0016	.0004	.0014	.2661	.0041	-.0004
#2	.0496	.0000	-.0001	.0016	.0010	.0018	.2660	.0037	-.0005
#3	.0487	-.0001	.0003	.0012	.0010	.0014	.2649	.0041	-.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0038**	**.0002**	**-.0012**	**.0002**	**-.0008**	**-.0002**	**-.0083**	**43.80**
Stddev	.0002	.0001	.0008	.0006	.0006	.0006	.0004	.0074	.05
%RSD	54.08	2.631	446.6	49.28	262.3	70.53	174.3	89.10	.1030
#1	.0002	.0038	.0009	-.0008	.0006	-.0012	.0001	-.0130	43.83
#2	.0006	.0037	-.0006	-.0010	.0004	-.0002	-.0002	-.0123	43.82
#3	.0004	.0039	.0002	-.0019	-.0004	-.0011	-.0006	.0002	43.74

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.189**	**15.74**	**2.234**	**21.81**	**.0362**	**.0000**	**8.050**	**-.0022**	**.1227**
Stddev	.025	.05	.036	.04	.0004	.0001	.087	.0002	.0010
%RSD	.7962	.3003	1.594	.1865	1.199	291.2	1.078	7.155	.8125
#1	3.210	15.72	2.228	21.85	.0364	.0000	8.005	-.0021	.1236
#2	3.197	15.79	2.201	21.81	.0365	.0001	7.994	-.0024	.1216
#3	3.161	15.70	2.272	21.77	.0357	-.0000	8.150	-.0022	.1230

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0102**	**-.0002**	**15.97**	**-.0039**	**.0012**	**.0054**
Stddev	.0001	.0002	.0001	.18	.0003	.0008	.0004
%RSD	5.939	2.410	48.46	1.104	7.301	64.42	8.067
#1	-.0010	.0099	-.0001	15.87	-.0037	.0020	.0058
#2	-.0011	.0102	-.0003	15.87	-.0042	.0012	.0049
#3	-.0010	.0104	-.0001	16.18	-.0039	.0004	.0055

Zoom In Zoom Out

Sample Name: jc84498-105f Acquired: 4/3/2019 12:59:58 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106790.**	**10423.**	**4244.2**	**9029.2**
Stddev	97.	29.	36.9	81.3
%RSD	.09111	.27528	.86950	.90011
#1	106770.	10390.	4264.2	9069.1
#2	106700.	10437.	4266.9	9082.9
#3	106900.	10442.	4201.7	8935.7

Zoom In Zoom Out

Sample Name: jc84498-106f Acquired: 4/3/2019 13:05:20 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0460**	**-.0000**	**.0001**	**.0007**	**.0007**	**.0022**	**.5392**	**.0032**
Stddev	.0002	.0000	.0001	.0002	.0002	.0004	.0003	.0002
%RSD	.4662	858.1	82.37	23.22	28.68	17.80	.0534	6.579
#1	.0463	.0000	.0001	.0008	.0009	.0021	.5389	.0030
#2	.0459	-.0000	.0002	.0007	.0008	.0026	.5393	.0032
#3	.0459	-.0000	.0001	.0005	.0005	.0018	.5394	.0035

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0008**	**.2367**	**-.0011**	F **-.0022**	**.0008**	**.0006**	**-.0002**
Stddev	.0004	.0003	.0010	.0005	.0010	.0003	.0009	.0007
%RSD	1293.	31.58	.4250	45.03	45.03	33.05	144.0	412.2
#1	-.0004	.0008	.2356	-.0016	-.0018	.0010	.0007	.0003
#2	.0003	.0011	.2368	-.0006	-.0033	.0005	.0014	-.0010
#3	.0002	.0006	.2376	-.0010	-.0015	.0010	-.0003	.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0140**	**150.4**	**.0069**	**42.36**	**4.148**	**137.6**	**.2829**	**.0044**
Stddev	.0120	.2	.0007	.04	.026	.3	.0010	.0003
%RSD	85.51	.1069	9.987	.0927	.6275	.1943	.3434	5.978
#1	-.0013	150.4	.0070	42.41	4.139	137.9	.2819	.0041
#2	-.0155	150.2	.0062	42.35	4.128	137.3	.2838	.0046
#3	-.0251	150.5	.0075	42.34	4.178	137.6	.2831	.0044

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.886**	**-.0019**	**.4541**	**-.0014**	**.0076**	**-.0003**	F **160.2**	**-.0016**
Stddev	.001	.0001	.0004	.0002	.0010	.0001	.7	.0019
%RSD	.0262	7.040	.0864	13.06	12.81	44.36	.4479	115.5
#1	4.885	-.0021	.4537	-.0014	.0081	-.0004	160.6	-.0038
#2	4.888	-.0018	.4541	-.0012	.0082	-.0001	160.6	-.0005
#3	4.886	-.0019	.4545	-.0015	.0065	-.0003	159.3	-.0006

Zoom In Zoom Out

Sample Name: jc84498-106f Acquired: 4/3/2019 13:05:20 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0054**	**.0041**
Stddev	.0008	.0010
%RSD	15.15	23.36
#1	.0059	.0042
#2	.0045	.0031
#3	.0059	.0050

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102190.**	**10201.**	**4055.0**	**8365.1**
Stddev	205.	29.	3.9	3.6
%RSD	.20045	.27978	.09573	.04361
#1	102390.	10200.	4056.8	8362.6
#2	101980.	10231.	4057.7	8363.4
#3	102190.	10174.	4050.6	8369.3

Zoom In Zoom Out

Sample Name: jc84498-96 Acquired: 4/3/2019 13:10:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0400**	**.0001**	**.0002**	**.0022**	**.0012**	**.0019**	**1.833**	**.0018**	**-.0001**
Stddev	.0001	.0001	.0001	.0001	.0002	.0003	.000	.0005	.0002
%RSD	.3191	108.4	31.12	6.644	18.80	14.09	.0187	26.41	220.9
#1	.0399	.0001	.0001	.0022	.0009	.0022	1.834	.0024	-.0002
#2	.0400	.0001	.0003	.0024	.0013	.0017	1.833	.0017	.0000
#3	.0402	-.0000	.0003	.0021	.0013	.0019	1.833	.0015	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**.0128**	**-.0004**	**-.0006**	**.0005**	**-.0017**	**-.0011**	**.0639**	**67.18**
Stddev	.0003	.0000	.0008	.0002	.0002	.0015	.0008	.0054	.03
%RSD	14.58	.2807	209.0	34.27	41.77	89.39	75.06	8.520	.0373
#1	.0017	.0128	.0005	-.0003	.0004	-.0005	-.0016	.0576	67.19
#2	.0020	.0128	-.0007	-.0006	.0008	-.0011	-.0002	.0673	67.19
#3	.0015	.0128	-.0010	-.0007	.0004	-.0034	-.0014	.0668	67.15

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.343**	**13.37**	**3.614**	**94.36**	**.0438**	**.0045**	**9.897**	**-.0024**	**.3476**
Stddev	.007	.07	.017	.13	.0002	.0002	.008	.0003	.0003
%RSD	.1140	.4943	.4575	.1380	.3992	3.520	.0837	10.77	.1004
#1	6.349	13.43	3.595	94.29	.0436	.0044	9.895	-.0023	.3477
#2	6.335	13.30	3.621	94.51	.0440	.0047	9.891	-.0027	.3478
#3	6.344	13.38	3.626	94.28	.0439	.0044	9.907	-.0023	.3472

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0112**	**-.0008**	**49.16**	**-.0015**	**.0017**	**.0475**
Stddev	.0005	.0004	.0001	.20	.0004	.0006	.0010
%RSD	45.45	4.028	10.27	.4110	28.88	38.49	2.053
#1	.0013	.0117	-.0008	49.37	-.0018	.0023	.0480
#2	.0015	.0108	-.0009	49.14	-.0016	.0017	.0464
#3	.0006	.0110	-.0007	48.97	-.0010	.0010	.0481

Zoom In Zoom Out

Sample Name: jc84498-96 Acquired: 4/3/2019 13:10:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104570.**	**10292.**	**4181.2**	**8738.6**
Stddev	187.	25.	5.3	4.4
%RSD	.17846	.24298	.12787	.04987
#1	104380.	10293.	4175.6	8735.0
#2	104750.	10267.	4181.9	8737.4
#3	104590.	10317.	4186.3	8743.5

Zoom In Zoom Out

Sample Name: mp13765-mb1 7 Acquired: 4/3/2019 13:15:59 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**.0000**	**-.0002**	**.0000**	**-.0005**	**.0001**	**.0000**	**-.0006**
Stddev	.0001	.0000	.0002	.0001	.0004	.0003	.0000	.0003	.0004
%RSD	130.3	102.8	915.5	25.12	1617.	57.42	42.50	995.3	63.70
#1	.0001	-.0000	.0002	-.0002	-.0001	-.0003	.0002	-.0000	-.0011
#2	-.0000	-.0001	.0001	-.0002	-.0002	-.0004	.0001	.0003	-.0004
#3	.0002	-.0000	-.0002	-.0003	.0005	-.0009	.0001	-.0002	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**-.0004**	**-.0011**	**-.0002**	**-.0000**	**-.0003**	**-.0005**	**.0141**
Stddev	.0001	.0002	.0009	.0005	.0003	.0004	.0012	.0075	.0045
%RSD	40.35	130.7	230.5	43.99	195.6	2468.	413.7	1504.	32.02
#1	.0002	-.0003	-.0014	-.0007	-.0005	.0003	.0010	.0079	.0172
#2	.0004	-.0002	.0003	-.0016	.0000	-.0004	-.0005	-.0030	.0089
#3	.0002	.0001	-.0001	-.0010	.0000	.0001	-.0014	-.0064	.0162

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068**	**-.0139**	**-.0344**	**.0410**	**-.0003**	**-.0000**	**.0068**	**-.0005**	**-.0000**
Stddev	.0030	.0218	.0194	.0122	.0003	.0001	.0009	.0001	.0001
%RSD	44.48	156.4	56.53	29.76	107.2	338.3	12.55	23.19	494.7
#1	.0081	-.0357	-.0343	.0518	-.0004	.0001	.0060	-.0006	-.0001
#2	.0089	.0078	-.0538	.0434	-.0005	-.0001	.0067	-.0004	.0001
#3	.0033	-.0139	-.0150	.0278	.0001	-.0001	.0077	-.0006	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0028**	**.0003**	**.0083**	**-.0013**	**.0003**	**.0034**
Stddev	.0002	.0005	.0001	.0023	.0014	.0010	.0007
%RSD	100.8	16.73	29.46	27.40	112.0	283.3	21.28
#1	-.0002	.0031	.0002	.0063	-.0008	.0014	.0031
#2	-.0000	.0029	.0004	.0079	-.0028	.0001	.0042
#3	-.0004	.0022	.0003	.0108	-.0002	-.0005	.0029

Zoom In Zoom Out

Sample Name: mp13765-mb1 7 Acquired: 4/3/2019 13:15:59 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111420.**	**10492.**	**4426.3**	**9742.5**
Stddev	55.	25.	5.9	14.3
%RSD	.04950	.24145	.13224	.14691
#1	111430.	10479.	4428.1	9740.4
#2	111360.	10475.	4431.0	9757.8
#3	111470.	10521.	4419.7	9729.4

Zoom In Zoom Out

Sample Name: mp13765-b1 Acquired: 4/3/2019 13:21:26 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.905**	**1.929**	**1.910**	**1.907**	**1.921**	**1.879**	**1.927**	**1.901**
Stddev	.001	.001	.019	.015	.002	.004	.003	.013
%RSD	.0701	.0400	.9936	.8098	.1249	.2036	.1549	.6953
#1	1.907	1.930	1.914	1.914	1.922	1.878	1.930	1.906
#2	1.905	1.929	1.890	1.890	1.921	1.876	1.928	1.886
#3	1.904	1.929	1.927	1.919	1.918	1.883	1.924	1.911

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2419**	**1.885**	**1.933**	**1.878**	**1.998**	**1.930**	**1.901**	**1.915**
Stddev	.0002	.002	.016	.019	.018	.014	.017	.018
%RSD	.0674	.0885	.8204	1.009	.9263	.7280	.9134	.9243
#1	.2418	1.886	1.938	1.887	2.008	1.936	1.908	1.922
#2	.2418	1.883	1.916	1.856	1.977	1.914	1.881	1.895
#3	.2421	1.885	1.947	1.890	2.011	1.940	1.914	1.928

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.51**	**25.06**	**25.19**	**24.65**	**24.67**	**24.60**	**1.933**	**1.928**
Stddev	.06	.06	.03	.09	.03	.03	.019	.018
%RSD	.2378	.2408	.1147	.3792	.1235	.1342	.9861	.9513
#1	24.58	25.11	25.20	24.75	24.70	24.64	1.941	1.935
#2	24.48	25.00	25.21	24.62	24.64	24.60	1.911	1.907
#3	24.48	25.08	25.16	24.57	24.67	24.57	1.946	1.942

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1002**	**1.955**	**1.900**	**1.864**	**1.876**	**1.863**	F **-.0803**	**-.0007**
Stddev	.0013	.025	.002	.001	.018	.000	.0018	.0002
%RSD	1.297	1.293	.1144	.0424	.9845	.0228	2.266	35.12
#1	.1009	1.973	1.901	1.864	1.883	1.863	-.0786	-.0010
#2	.0987	1.926	1.901	1.865	1.855	1.863	-.0799	-.0007
#3	.1011	1.965	1.897	1.863	1.889	1.863	-.0822	-.0005

Zoom In Zoom Out

Sample Name: mp13765-b1 Acquired: 4/3/2019 13:21:26 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0010**	**1.914**
Stddev	.0014	.019
%RSD	134.4	.9931
#1	-.0021	1.927
#2	.0005	1.892
#3	-.0016	1.923

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107090.**	**10399.**	**4325.4**	**8969.7**
Stddev	417.	28.	31.2	52.2
%RSD	.38951	.26755	.72158	.58164
#1	106650.	10368.	4317.0	8952.2
#2	107130.	10422.	4360.0	9028.4
#3	107480.	10407.	4299.3	8928.5

Zoom In Zoom Out

Sample Name: jc85589-1a Acquired: 4/3/2019 13:26:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0000**	**.0001**	**.0002**	**.0002**	**-.0003**	**.0004**	**.0013**	**-.0006**
Stddev	.0003	.0001	.0001	.0000	.0002	.0001	.0001	.0002	.0002
%RSD	41.93	444.2	136.8	10.86	112.4	36.22	14.95	18.53	28.20
#1	.0007	-.0000	-.0001	.0003	.0003	-.0005	.0005	.0016	-.0009
#2	.0010	-.0001	.0002	.0002	.0003	-.0003	.0005	.0012	-.0006
#3	.0004	.0001	.0002	.0003	-.0001	-.0002	.0004	.0011	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0184**	**-.0007**	**.0000**	**.0007**	**-.0000**	**-.0004**	**-.0012**	**.1338**
Stddev	.0002	.0000	.0013	.0013	.0003	.0024	.0005	.0012	.0024
%RSD	68.73	.2521	199.9	3130.	37.24	7608.	117.4	98.53	1.824
#1	.0003	.0184	-.0013	.0012	.0006	-.0022	-.0006	-.0010	.1313
#2	.0003	.0184	-.0015	-.0013	.0011	-.0003	-.0007	-.0024	.1362
#3	.0001	.0184	.0009	.0002	.0006	.0024	.0001	-.0001	.1340

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**.0049**	**-.0086**	**.0423**	**.0010**	**.0001**	**.0452**	**-.0010**	**.0026**
Stddev	.0020	.0116	.0317	.0044	.0001	.0000	.0007	.0002	.0001
%RSD	39.07	235.7	366.5	10.49	8.521	17.93	1.439	15.76	3.266
#1	.0070	.0092	.0273	.0474	.0010	.0001	.0458	-.0008	.0025
#2	.0030	-.0082	-.0206	.0396	.0011	.0001	.0445	-.0010	.0026
#3	.0055	.0137	-.0326	.0399	.0010	.0001	.0453	-.0011	.0027

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0021**	**.0004**	**.0025**	**-.0005**	**.0008**	**.0051**
Stddev	.0003	.0006	.0001	.0008	.0021	.0017	.0001
%RSD	101.7	27.84	22.65	30.05	460.0	203.4	2.398
#1	.0007	.0014	.0004	.0021	.0001	-.0005	.0050
#2	.0003	.0023	.0006	.0021	.0014	.0002	.0052
#3	.0000	.0026	.0004	.0034	-.0028	.0027	.0051

Zoom In Zoom Out

Sample Name: jc85589-1a Acquired: 4/3/2019 13:26:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111170.**	**10535.**	**4403.4**	**9699.2**
Stddev	54.	14.	1.5	5.4
%RSD	.04878	.12871	.03409	.05521
#1	111180.	10520.	4401.7	9695.0
#2	111110.	10547.	4404.2	9697.4
#3	111220.	10537.	4404.4	9705.3

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 13:31:59 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.974**	**1.998**	**1.994**	**2.006**	**2.005**	**1.945**	**2.008**	**1.999**	**.2433**
Stddev	.001	.001	.003	.004	.005	.004	.004	.003	.0002
%RSD	.0691	.0616	.1645	.1741	.2415	.1826	.1815	.1234	.1010
#1	1.974	1.999	1.993	2.010	2.005	1.941	2.007	2.001	.2431
#2	1.976	1.998	1.997	2.003	2.010	1.947	2.012	1.996	.2435
#3	1.973	1.996	1.991	2.004	2.000	1.947	2.005	2.000	.2432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.964**	**2.024**	**2.018**	**2.072**	**2.025**	**1.998**	**2.033**	**39.02**	**39.89**
Stddev	.003	.002	.002	.005	.005	.002	.003	.05	.03
%RSD	.1572	.0819	.0794	.2372	.2296	.0749	.1648	.1180	.0676
#1	1.964	2.025	2.019	2.075	2.029	1.996	2.032	38.96	39.86
#2	1.967	2.025	2.019	2.067	2.025	1.999	2.036	39.04	39.91
#3	1.961	2.022	2.016	2.075	2.020	1.999	2.030	39.05	39.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.10**	**39.67**	**39.61**	**39.31**	**2.047**	**2.035**	**5.084**	**2.061**	**1.971**
Stddev	.04	.03	.08	.02	.002	.001	.005	.002	.000
%RSD	.1075	.0731	.2058	.0419	.0864	.0472	.0973	.1119	.0219
#1	40.15	39.66	39.52	39.29	2.048	2.034	5.080	2.063	1.971
#2	40.07	39.70	39.68	39.32	2.048	2.035	5.089	2.059	1.971
#3	40.08	39.65	39.63	39.32	2.045	2.036	5.082	2.060	1.972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 13:31:59 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.978**	**1.997**	**1.983**	**2.018**	**2.026**	**1.986**	**2.011**
Stddev	.002	.003	.003	.005	.001	.001	.003
%RSD	.1209	.1542	.1357	.2288	.0619	.0648	.1445
#1	1.978	1.995	1.982	2.024	2.024	1.986	2.007
#2	1.981	2.001	1.986	2.015	2.027	1.988	2.013
#3	1.976	1.997	1.981	2.017	2.026	1.985	2.012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104710.**	**10215.**	**4269.5**	**8699.4**
Stddev	170.	31.	.9	11.7
%RSD	.16199	.30336	.02002	.13435
#1	104840.	10251.	4270.2	8686.5
#2	104520.	10197.	4268.5	8709.2
#3	104780.	10198.	4269.8	8702.6

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 13:37:00 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	F **.0007**	**.0005**	**.0005**	**.0005**	**.0002**	**.0007**	**.0002**	**-.0006**
Stddev	.0002	.0000	.0003	.0003	.0002	.0002	.0001	.0001	.0000
%RSD	22.37	6.535	63.16	60.27	47.41	105.2	8.158	69.80	7.585
#1	.0006	.0007	.0009	.0007	.0004	.0001	.0008	.0000	-.0005
#2	.0010	.0006	.0005	.0006	.0004	.0003	.0007	.0003	-.0006
#3	.0010	.0007	.0002	.0002	.0008	.0000	.0007	.0003	-.0006
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0004**	**.0007**	**.0006**	**.0008**	**.0003**	**-.0003**	**.0029**	**.0155**
Stddev	.0001	.0003	.0006	.0009	.0008	.0008	.0008	.0031	.0047
%RSD	13.76	66.56	90.69	135.3	108.4	259.0	281.3	107.7	30.24
#1	.0007	.0007	.0007	-.0004	.0017	-.0004	.0000	.0060	.0110
#2	.0008	.0004	.0001	.0011	.0002	.0012	-.0012	.0027	.0152
#3	.0010	.0001	.0014	.0012	.0003	.0002	.0003	-.0002	.0203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0151**	**.0203**	**.0491**	**.0289**	**.0014**	**.0007**	**.0018**	**.0001**	**.0008**
Stddev	.0050	.0312	.0286	.0095	.0002	.0004	.0005	.0001	.0001
%RSD	33.23	154.0	58.15	33.06	14.88	54.77	25.32	98.90	6.604
#1	.0110	.0385	.0812	.0388	.0016	.0010	.0023	.0002	.0007
#2	.0136	.0380	.0396	.0197	.0014	.0007	.0018	-.0000	.0007
#3	.0207	-.0158	.0266	.0281	.0012	.0003	.0014	.0002	.0008
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 13:37:00 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0018**	**.0008**	**.0010**	**-.0015**	**.0018**	**.0042**
Stddev	.0002	.0007	.0001	.0019	.0009	.0004	.0008
%RSD	149.9	39.41	7.310	186.2	61.67	20.76	18.97
#1	.0002	.0019	.0007	-.0011	-.0021	.0022	.0047
#2	-.0001	.0025	.0008	.0023	-.0004	.0015	.0046
#3	.0002	.0011	.0008	.0019	-.0020	.0016	.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110660.**	**10372.**	**4422.9**	**9722.6**
Stddev	160.	16.	8.4	15.2
%RSD	.14463	.15129	.18973	.15600
#1	110500.	10356.	4427.4	9726.6
#2	110670.	10387.	4413.2	9705.8
#3	110820.	10375.	4428.0	9735.3

Zoom In Zoom Out

Sample Name: mp13765-s1 Acquired: 4/3/2019 13:42:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.255**	**1.911**	**1.909**	**1.914**	**1.903**	**1.878**	**2.765**	**1.905**	**.2435**
Stddev	.003	.003	.039	.036	.003	.002	.001	.035	.0004
%RSD	.1192	.1629	2.025	1.867	.1295	.1160	.0360	1.861	.1459
#1	2.252	1.907	1.912	1.918	1.906	1.880	2.764	1.908	.2439
#2	2.256	1.913	1.946	1.947	1.901	1.875	2.766	1.939	.2432
#3	2.257	1.912	1.869	1.876	1.902	1.879	2.766	1.869	.2434

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.878**	**1.919**	**1.897**	**1.950**	**1.921**	**1.904**	**1.922**	**24.23**	**49.97**
Stddev	.001	.035	.036	.037	.034	.038	.040	.07	.04
%RSD	.0466	1.832	1.924	1.880	1.751	2.013	2.091	.2698	.0877
#1	1.879	1.924	1.903	1.957	1.923	1.914	1.926	24.23	49.98
#2	1.879	1.951	1.931	1.984	1.953	1.936	1.960	24.29	50.01
#3	1.877	1.882	1.858	1.911	1.886	1.861	1.880	24.16	49.92

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.43**	**30.04**	**26.06**	**73.25**	**1.976**	**1.922**	**6.842**	**1.926**	**2.043**
Stddev	.11	.11	.05	.04	.041	.040	.145	.040	.002
%RSD	.3262	.3719	.1834	.0501	2.054	2.060	2.123	2.062	.0970
#1	32.38	29.95	26.02	73.23	1.979	1.925	6.852	1.930	2.040
#2	32.56	30.16	26.04	73.30	2.014	1.961	6.982	1.963	2.044
#3	32.37	29.99	26.11	73.23	1.933	1.882	6.692	1.884	2.044

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.865**	**1.892**	**1.868**	**8.096**	**-.0005**	**.0022**	**1.947**
Stddev	.001	.039	.002	.160	.0007	.0007	.042
%RSD	.0674	2.068	.1001	1.976	162.9	30.26	2.176
#1	1.865	1.897	1.868	8.109	-.0003	.0028	1.958
#2	1.863	1.928	1.866	8.250	-.0013	.0015	1.984
#3	1.866	1.850	1.870	7.931	.0002	.0024	1.901

Zoom In Zoom Out

Sample Name: mp13765-s1 Acquired: 4/3/2019 13:42:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105550.**	**10497.**	**4253.3**	**8695.6**
Stddev	76.	39.	70.7	129.3
%RSD	.07159	.37092	1.6625	1.4868
#1	105580.	10511.	4245.4	8678.9
#2	105470.	10453.	4186.8	8575.4
#3	105610.	10527.	4327.6	8832.4

Zoom In Zoom Out

Sample Name: mp13765-s2 Acquired: 4/3/2019 13:47:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.313**	**1.959**	**1.954**	**1.952**	**1.932**	**1.919**	**2.826**	**1.946**	**.2470**
Stddev	.004	.002	.002	.001	.004	.003	.005	.001	.0003
%RSD	.1651	.0870	.1047	.0410	.2000	.1281	.1887	.0304	.1164
#1	2.317	1.961	1.952	1.952	1.930	1.921	2.826	1.946	.2467
#2	2.309	1.960	1.956	1.953	1.937	1.918	2.831	1.947	.2473
#3	2.312	1.957	1.954	1.952	1.930	1.917	2.821	1.946	.2471

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.919**	**1.961**	**1.930**	**1.994**	**1.959**	**1.949**	**1.958**	**24.75**	**51.18**
Stddev	.005	.003	.004	.008	.001	.003	.006	.06	.09
%RSD	.2420	.1654	.2023	.3981	.0723	.1751	.3297	.2516	.1739
#1	1.919	1.963	1.928	1.989	1.961	1.946	1.951	24.82	51.28
#2	1.924	1.963	1.929	1.989	1.959	1.952	1.959	24.71	51.10
#3	1.915	1.957	1.935	2.003	1.958	1.949	1.963	24.73	51.17

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.24**	**30.85**	**26.69**	**75.21**	**2.019**	**1.960**	**7.036**	**1.960**	**2.097**
Stddev	.02	.06	.04	.10	.003	.002	.012	.003	.002
%RSD	.0725	.2033	.1454	.1344	.1623	.1117	.1675	.1502	.0951
#1	33.24	30.86	26.71	75.32	2.015	1.958	7.024	1.963	2.099
#2	33.21	30.90	26.64	75.12	2.022	1.962	7.037	1.960	2.096
#3	33.26	30.78	26.70	75.19	2.019	1.961	7.048	1.957	2.096

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.896**	**1.927**	**1.898**	**8.351**	**-.0002**	**.0012**	**1.998**
Stddev	.003	.002	.003	.022	.0011	.0009	.012
%RSD	.1664	.0784	.1645	.2635	432.3	76.27	.6172
#1	1.895	1.926	1.896	8.338	-.0001	.0009	1.991
#2	1.899	1.926	1.901	8.339	-.0014	.0005	1.991
#3	1.893	1.929	1.895	8.377	.0008	.0022	2.012

Zoom In Zoom Out

Sample Name: mp13765-s2 Acquired: 4/3/2019 13:47:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105540.**	**10372.**	**4238.3**	**8674.9**
Stddev	246.	14.	3.3	3.2
%RSD	.23334	.13479	.07765	.03673
#1	105610.	10364.	4238.1	8671.5
#2	105270.	10389.	4235.1	8675.2
#3	105750.	10365.	4241.7	8677.9

Zoom In Zoom Out

Sample Name: jc85513-5f Acquired: 4/3/2019 13:52:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3689**	**.0003**	**.0004**	**.0047**	**.0007**	**.0006**	**.8812**	**.0025**	**-.0002**
Stddev	.0005	.0001	.0000	.0002	.0001	.0001	.0018	.0006	.0003
%RSD	.1324	41.08	5.055	4.023	7.861	19.56	.2050	24.88	188.0
#1	.3694	.0004	.0004	.0049	.0008	.0007	.8810	.0025	-.0006
#2	.3688	.0002	.0004	.0048	.0008	.0005	.8831	.0032	.0001
#3	.3685	.0002	.0003	.0045	.0007	.0005	.8795	.0019	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0044**	**.0013**	**.0002**	**.0007**	**-.0007**	**-.0002**	**.0100**	**25.78**
Stddev	.0004	.0001	.0017	.0006	.0007	.0008	.0008	.0134	.06
%RSD	36.20	1.565	129.2	248.5	99.42	117.9	379.1	133.3	.2454
#1	.0006	.0043	-.0004	.0004	.0015	-.0010	-.0009	.0040	25.71
#2	.0014	.0044	.0014	-.0004	.0001	-.0014	.0007	.0008	25.83
#3	.0010	.0045	.0029	.0007	.0005	.0002	-.0004	.0254	25.80

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.923**	**6.143**	**1.593**	**49.48**	**.0507**	**.0003**	**6.849**	**-.0013**	**.1635**
Stddev	.051	.040	.013	.02	.0006	.0002	.011	.0005	.0003
%RSD	.6485	.6479	.8118	.0448	1.152	61.03	.1587	36.68	.1828
#1	7.869	6.099	1.583	49.49	.0514	.0004	6.862	-.0014	.1632
#2	7.931	6.157	1.608	49.49	.0503	.0001	6.842	-.0008	.1636
#3	7.971	6.175	1.590	49.45	.0504	.0004	6.844	-.0017	.1638

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0089**	**-.0002**	**8.291**	**-.0023**	**.0021**	**.0316**
Stddev	.0004	.0008	.0000	.008	.0015	.0013	.0004
%RSD	40.96	8.622	15.49	.1003	63.93	60.94	1.404
#1	-.0007	.0095	-.0002	8.296	-.0039	.0013	.0315
#2	-.0009	.0092	-.0003	8.282	-.0011	.0015	.0313
#3	-.0015	.0081	-.0002	8.296	-.0018	.0036	.0321

Zoom In Zoom Out

Sample Name: jc85513-5f Acquired: 4/3/2019 13:52:28 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107620.**	**10471.**	**4284.9**	**9069.0**
Stddev	424.	54.	3.0	7.4
%RSD	.39423	.51408	.06958	.08212
#1	107580.	10510.	4285.9	9073.0
#2	107220.	10409.	4287.2	9073.6
#3	108070.	10493.	4281.5	9060.4

Zoom In Zoom Out

Sample Name: mp13765-sd1 Acquired: 4/3/2019 13:57:49 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3750**	**-.0000**	**.0015**	**.0042**	**.0037**	**.0014**	**.9093**	**.0028**	**-.0018**
Stddev	.0008	.0007	.0007	.0019	.0006	.0017	.0174	.0009	.0022
%RSD	.2085	3119.	43.32	43.95	16.71	119.3	1.919	31.61	125.1
#1	.3759	-.0002	.0017	.0021	.0030	-.0001	.8993	.0038	.0008
#2	.3747	-.0007	.0008	.0048	.0040	.0011	.8992	.0026	-.0027
#3	.3745	.0008	.0020	.0057	.0040	.0032	.9294	.0021	-.0033

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0009**	**.0046**	**.0016**	**.0026**	**-.0004**	**-.0033**	**.0046**	**26.66**
Stddev	.0013	.0003	.0008	.0037	.0021	.0048	.0052	.0555	.03
%RSD	59.95	30.43	17.81	233.1	80.32	1231.	155.6	1207.	.1053
#1	.0009	.0009	.0037	.0011	.0049	-.0034	-.0013	.0132	26.63
#2	.0020	.0011	.0053	.0055	.0019	.0052	.0005	-.0547	26.67
#3	.0035	.0006	.0048	-.0019	.0009	-.0030	-.0093	.0552	26.68

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.011**	**6.327**	**1.580**	**50.22**	**.0517**	**.0005**	**6.956**	**-.0020**	**.1666**
Stddev	.049	.103	.136	.04	.0003	.0004	.019	.0003	.0014
%RSD	.6111	1.629	8.605	.0771	.5507	88.56	.2673	15.48	.8664
#1	7.981	6.252	1.704	50.19	.0515	.0005	6.950	-.0018	.1652
#2	8.068	6.284	1.601	50.26	.0517	.0009	6.977	-.0018	.1666
#3	7.985	6.445	1.435	50.22	.0521	.0001	6.942	-.0024	.1681

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0145**	**.0007**	**8.231**	**-.0036**	**.0011**	**.0441**
Stddev	.0010	.0024	.0004	.027	.0027	.0043	.0057
%RSD	2107.	16.31	60.87	.3332	76.79	386.5	13.02
#1	.0009	.0145	.0010	8.199	-.0056	.0025	.0396
#2	.0001	.0169	.0002	8.246	-.0004	.0046	.0506
#3	-.0011	.0122	.0010	8.248	-.0047	-.0037	.0422

Zoom In Zoom Out

Sample Name: mp13765-sd1 Acquired: 4/3/2019 13:57:49 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108850.**	**10404.**	**4392.5**	**9547.9**
Stddev	1745.	52.	16.1	27.3
%RSD	1.6032	.50450	.36751	.28563
#1	110000.	10344.	4381.2	9529.0
#2	109700.	10426.	4385.3	9535.5
#3	106840.	10441.	4411.0	9579.1

Zoom In Zoom Out

Sample Name: mp13751-mb1 Acquired: 4/3/2019 14:03:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0001**	**.0002**	**.0000**	**.0012**	**.0022**	**.0006**	**.0005**	**-.0003**
Stddev	.0002	.0001	.0001	.0003	.0002	.0002	.0000	.0002	.0002
%RSD	48.38	84.87	27.82	1048.	21.27	10.88	3.067	45.05	52.68
#1	.0005	.0002	.0002	.0002	.0011	.0025	.0006	.0005	-.0002
#2	.0003	.0001	.0003	-.0003	.0015	.0020	.0006	.0002	-.0005
#3	.0007	.0000	.0002	.0002	.0010	.0021	.0005	.0006	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0155**	**.0008**	**.0006**	**.0003**	**-.0005**	**.0001**	**.0157**	**.1391**
Stddev	.0000	.0001	.0011	.0008	.0007	.0011	.0006	.0028	.0030
%RSD	585.7	.6486	144.6	137.3	238.2	219.8	817.7	17.73	2.151
#1	.0000	.0156	-.0005	-.0003	.0002	-.0010	-.0004	.0187	.1418
#2	-.0001	.0154	.0011	.0010	-.0004	.0008	.0008	.0132	.1359
#3	.0000	.0155	.0017	.0011	.0011	-.0013	-.0002	.0153	.1396

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0391**	**.0466**	**.0463**	**.0872**	**.0007**	**.0003**	**.0097**	**.0205**	**.0003**
Stddev	.0019	.0197	.0381	.0104	.0006	.0001	.0007	.0010	.0001
%RSD	4.757	42.32	82.36	11.91	85.24	29.25	6.760	4.699	37.42
#1	.0387	.0689	.0704	.0849	.0011	.0003	.0105	.0198	.0003
#2	.0374	.0393	.0660	.0986	.0010	.0004	.0092	.0216	.0002
#3	.0411	.0316	.0023	.0782	.0000	.0002	.0095	.0201	.0004

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0006**	**.0004**	**.0176**	**.0001**	**-.0004**	**.0247**
Stddev	.0002	.0004	.0001	.0011	.0012	.0008	.0008
%RSD	38.55	63.27	34.80	6.033	831.0	209.9	3.111
#1	.0007	.0004	.0005	.0186	.0015	-.0012	.0251
#2	.0005	.0004	.0005	.0177	-.0004	-.0005	.0238
#3	.0004	.0011	.0002	.0165	-.0007	.0005	.0251

Zoom In Zoom Out

Sample Name: mp13751-mb1 Acquired: 4/3/2019 14:03:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112050.**	**10551.**	**4459.3**	**9821.5**
Stddev	321.	9.	16.0	27.2
%RSD	.28692	.08657	.35871	.27708
#1	111710.	10547.	4472.6	9842.7
#2	112080.	10544.	4463.6	9830.9
#3	112350.	10561.	4441.5	9790.8

Zoom In Zoom Out

Sample Name: mp13751-b1 Acquired: 4/3/2019 14:08:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.878**	**1.892**	**1.905**	**1.882**	**1.897**	**1.852**	**1.901**	**1.885**
Stddev	.001	.003	.002	.004	.003	.004	.003	.001
%RSD	.0728	.1607	.1013	.1926	.1311	.2132	.1702	.0451
#1	1.879	1.890	1.906	1.886	1.900	1.856	1.901	1.886
#2	1.877	1.891	1.906	1.879	1.895	1.853	1.897	1.884
#3	1.879	1.896	1.903	1.882	1.897	1.848	1.903	1.885

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2398**	**1.841**	**1.940**	**1.930**	**1.999**	**1.919**	**1.884**	**1.957**
Stddev	.0007	.001	.003	.003	.003	.001	.002	.001
%RSD	.3102	.0746	.1572	.1392	.1618	.0587	.0794	.0708
#1	.2394	1.842	1.944	1.931	1.995	1.920	1.886	1.959
#2	.2406	1.840	1.939	1.932	2.001	1.918	1.883	1.956
#3	.2393	1.843	1.938	1.927	2.000	1.918	1.883	1.957

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.00**	**24.61**	**24.62**	**23.99**	**24.20**	**24.21**	**1.874**	**1.931**
Stddev	.01	.06	.06	.09	.06	.03	.002	.003
%RSD	.0532	.2423	.2383	.3670	.2671	.1197	.0804	.1271
#1	24.02	24.54	24.56	23.88	24.12	24.18	1.874	1.934
#2	23.99	24.64	24.63	24.04	24.24	24.24	1.875	1.930
#3	23.99	24.64	24.67	24.04	24.23	24.22	1.872	1.930

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0364**	**2.004**	**1.869**	**1.895**	**1.117**	**1.903**	W **-.0375**	**-.0000**
Stddev	.0012	.003	.003	.002	.005	.002	.0021	.0008
%RSD	3.248	.1234	.1608	.0833	.4443	.0951	5.472	6042.
#1	.0351	2.006	1.866	1.896	1.112	1.905	-.0352	.0005
#2	.0375	2.001	1.867	1.894	1.118	1.901	-.0392	-.0010
#3	.0366	2.006	1.872	1.894	1.122	1.902	-.0381	.0004

Zoom In Zoom Out

Sample Name: mp13751-b1 Acquired: 4/3/2019 14:08:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0014**	**1.920**
Stddev	.0008	.005
%RSD	59.60	.2443
#1	-.0015	1.915
#2	-.0005	1.922
#3	-.0021	1.924

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107370.**	**10496.**	**4340.2**	**9017.4**
Stddev	262.	68.	6.1	10.9
%RSD	.24438	.65232	.13981	.12048
#1	107350.	10574.	4333.2	9006.1
#2	107640.	10447.	4343.3	9027.7
#3	107120.	10465.	4344.0	9018.5

Zoom In Zoom Out

Sample Name: mp13751-s1conf Acquired: 4/3/2019 14:13:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.850**	**1.738**	**1.751**	**1.882**	**1.895**	**1.971**	**4.064**	**2.023**	**.2118**
Stddev	.003	.003	.003	.004	.007	.004	.012	.004	.0008
%RSD	.1823	.1858	.1798	.2297	.3760	.2174	.2955	.2038	.3795
#1	1.847	1.735	1.754	1.887	1.895	1.972	4.067	2.027	.2120
#2	1.849	1.741	1.752	1.879	1.902	1.975	4.073	2.020	.2125
#3	1.853	1.737	1.748	1.880	1.888	1.967	4.050	2.020	.2109

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.881**	**2.271**	**1.787**	**1.874**	**1.880**	**1.657**	**1.346**	**99.34**	**41.54**
Stddev	.005	.004	.004	.004	.005	.003	.004	.07	.13
%RSD	.2949	.1732	.2226	.2213	.2626	.1569	.2916	.0716	.3203
#1	1.881	2.275	1.791	1.879	1.886	1.655	1.349	99.26	41.46
#2	1.887	2.272	1.787	1.874	1.878	1.655	1.347	99.36	41.70
#3	1.876	2.267	1.783	1.871	1.877	1.660	1.341	99.40	41.47

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **442.0**	**32.60**	**25.53**	**25.21**	**1.650**	**1.769**	**3.558**	**1.790**	**1.775**
Stddev	.6	.19	.08	.04	.003	.004	.009	.004	.003
%RSD	.1446	.5724	.3054	.1673	.1590	.2275	.2556	.2533	.1665
#1	441.6	32.40	25.44	25.16	1.651	1.774	3.568	1.790	1.772
#2	442.8	32.78	25.59	25.24	1.651	1.768	3.556	1.795	1.777
#3	441.8	32.61	25.55	25.23	1.647	1.766	3.551	1.786	1.778

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.320**	**1.600**	**1.800**	**.0469**	**.0015**	**.0154**	**6.212**
Stddev	.007	.007	.004	.0031	.0027	.0013	.016
%RSD	.3226	.4289	.2481	6.588	177.0	8.711	.2541
#1	2.328	1.607	1.801	.0464	-.0015	.0159	6.223
#2	2.320	1.599	1.804	.0502	.0025	.0139	6.194
#3	2.313	1.593	1.795	.0440	.0036	.0164	6.218

Zoom In Zoom Out

Sample Name: mp13751-s1conf Acquired: 4/3/2019 14:13:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**115450.**	**11356.**	**4680.9**	**9159.1**
Stddev	460.	25.	4.4	6.1
%RSD	.39834	.21887	.09353	.06702
#1	115270.	11378.	4679.6	9152.1
#2	115100.	11329.	4677.3	9163.6
#3	115970.	11362.	4685.8	9161.6

Zoom In Zoom Out

Sample Name: mp13751-s2conf Acquired: 4/3/2019 14:18:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.890**	**1.741**	**1.764**	**1.877**	**1.899**	**1.926**	**4.359**	**2.001**	**.2147**
Stddev	.001	.006	.003	.001	.002	.004	.006	.003	.0010
%RSD	.0604	.3306	.1556	.0608	.1232	.1813	.1319	.1538	.4657
#1	1.890	1.735	1.761	1.878	1.901	1.922	4.363	2.004	.2143
#2	1.889	1.745	1.764	1.876	1.900	1.929	4.361	1.998	.2140
#3	1.891	1.745	1.767	1.876	1.896	1.926	4.353	2.001	.2159

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.883**	**2.241**	**1.790**	**1.887**	**1.883**	**1.681**	**1.347**	**95.18**	**49.81**
Stddev	.003	.003	.004	.002	.004	.004	.004	.11	.08
%RSD	.1686	.1428	.2363	.1259	.2254	.2248	.2710	.1200	.1627
#1	1.886	2.243	1.790	1.887	1.887	1.685	1.352	95.21	49.82
#2	1.884	2.237	1.785	1.885	1.879	1.680	1.346	95.27	49.89
#3	1.880	2.242	1.794	1.890	1.883	1.677	1.345	95.05	49.73

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**388.3**	**37.70**	**25.79**	**25.41**	**1.669**	**1.779**	**3.485**	**1.799**	**1.795**
Stddev	.8	.12	.03	.06	.004	.001	.004	.006	.002
%RSD	.2074	.3298	.1278	.2469	.2172	.0291	.1195	.3416	.1196
#1	387.4	37.56	25.76	25.34	1.671	1.779	3.483	1.806	1.793
#2	388.7	37.76	25.83	25.46	1.665	1.779	3.489	1.794	1.797
#3	388.8	37.78	25.77	25.43	1.671	1.779	3.482	1.797	1.796

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.289**	**1.571**	**1.795**	**.0114**	**-.0013**	**.0154**	**5.723**
Stddev	.003	.003	.001	.0039	.0027	.0027	.030
%RSD	.1108	.1943	.0318	34.42	203.4	17.32	.5255
#1	2.290	1.573	1.795	.0159	-.0044	.0152	5.749
#2	2.290	1.567	1.795	.0088	.0003	.0129	5.731
#3	2.286	1.572	1.796	.0094	.0002	.0182	5.690

Zoom In Zoom Out

Sample Name: mp13751-s2conf Acquired: 4/3/2019 14:18:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**114500.**	**11265.**	**4642.7**	**9134.6**
Stddev	273.	23.	10.0	13.8
%RSD	.23807	.20132	.21549	.15108
#1	114390.	11291.	4646.6	9131.3
#2	114300.	11256.	4650.1	9149.8
#3	114810.	11248.	4631.3	9122.9

Zoom In Zoom Out

Sample Name: jc85273-1conf Acquired: 4/3/2019 14:23:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0437**	**.0037**	**-.0015**	**.0863**	**.1146**	**.2103**	**2.414**	**.2221**
Stddev	.0031	.0003	.0003	.0057	.0087	.0144	.176	.0166
%RSD	7.183	7.820	17.42	6.637	7.621	6.868	7.283	7.494
#1	.0408	.0033	-.0016	.0800	.1060	.1958	2.240	.2041
#2	.0433	.0038	-.0012	.0875	.1143	.2104	2.409	.2254
#3	.0470	.0038	-.0017	.0913	.1234	.2246	2.592	.2369

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0249**	**.1455**	**.5679**	**.0762**	F **-.0100**	**.0460**	F **-.0320**	**.0006**
Stddev	.0027	.0093	.0340	.0044	.0005	.0037	.0036	.0009
%RSD	10.74	6.361	5.980	5.730	5.160	8.055	11.40	143.0
#1	-.0228	.1362	.5312	.0716	-.0096	.0417	-.0302	.0010
#2	-.0241	.1457	.5742	.0768	-.0106	.0482	-.0295	-.0004
#3	-.0279	.1547	.5983	.0803	-.0098	.0481	-.0362	.0012

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.38**	**8.480**	**274.1**	**4.431**	**.5990**	**1.386**	**.0056**	**.0056**
Stddev	1.37	.494	15.3	.234	.0484	.093	.0011	.0003
%RSD	5.846	5.824	5.583	5.292	8.079	6.724	19.01	5.466
#1	22.04	7.998	258.8	4.182	.5477	1.286	.0066	.0054
#2	23.34	8.456	274.1	4.462	.6055	1.403	.0058	.0054
#3	24.77	8.985	289.5	4.648	.6439	1.470	.0045	.0060

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.053**	**.0243**	**.0238**	**.5783**	**.0119**	**.0657**	**.1009**	**.0138**
Stddev	.130	.0014	.0014	.0398	.0024	.0048	.0074	.0019
%RSD	6.338	5.671	6.089	6.874	19.83	7.242	7.288	13.72
#1	1.911	.0243	.0223	.5402	.0134	.0609	.0928	.0150
#2	2.081	.0229	.0238	.5751	.0092	.0660	.1072	.0116
#3	2.167	.0257	.0252	.6195	.0130	.0704	.1029	.0148

Zoom In Zoom Out

Sample Name: jc85273-1conf Acquired: 4/3/2019 14:23:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0003**	**4.989**
Stddev	.0032	.337
%RSD	1230.	6.749
#1	.0033	4.631
#2	.0004	5.039
#3	-.0030	5.299

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**118060.**	**11223.**	**4850.2**	**9498.1**
Stddev	355.	68.	23.8	8.9
%RSD	.30050	.60278	.49142	.09341
#1	117660.	11176.	4824.2	9506.2
#2	118190.	11193.	4855.1	9499.5
#3	118340.	11301.	4871.1	9488.6

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 14:28:54 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.980**	**1.985**	**1.996**	**1.997**	**1.992**	**1.940**	**1.998**	**1.997**	**.2441**
Stddev	.008	.010	.004	.003	.007	.004	.004	.005	.0001
%RSD	.3985	.5224	.2078	.1591	.3736	.2037	.2019	.2434	.0521
#1	1.989	1.996	1.992	1.995	2.001	1.936	2.003	1.993	.2439
#2	1.976	1.982	2.000	2.000	1.987	1.940	1.996	2.003	.2442
#3	1.974	1.976	1.997	1.995	1.988	1.944	1.996	1.996	.2441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.958**	**2.012**	**2.002**	**2.061**	**2.017**	**1.992**	**2.025**	**39.17**	**39.72**
Stddev	.002	.004	.002	.004	.006	.006	.004	.11	.15
%RSD	.0934	.1809	.1082	.1812	.3212	.2943	.1810	.2792	.3673
#1	1.960	2.008	2.000	2.059	2.015	1.996	2.024	39.30	39.85
#2	1.958	2.015	2.004	2.058	2.024	1.994	2.029	39.09	39.76
#3	1.956	2.012	2.002	2.065	2.012	1.985	2.022	39.13	39.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.84**	**39.35**	**39.41**	**39.20**	**2.045**	**2.027**	**5.076**	**2.045**	**1.974**
Stddev	.14	.10	.15	.12	.005	.004	.011	.004	.009
%RSD	.3571	.2444	.3716	.3076	.2599	.1790	.2234	.2097	.4304
#1	40.01	39.46	39.58	39.33	2.041	2.024	5.069	2.040	1.983
#2	39.76	39.32	39.38	39.16	2.051	2.031	5.089	2.049	1.970
#3	39.76	39.27	39.29	39.10	2.042	2.026	5.070	2.046	1.968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 14:28:54 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.976**	**2.001**	**1.979**	**2.000**	**2.020**	**1.975**	**2.002**
Stddev	.002	.004	.001	.004	.006	.004	.001
%RSD	.1214	.1810	.0666	.1987	.2940	.2298	.0498
#1	1.979	1.997	1.980	1.997	2.018	1.980	2.002
#2	1.975	2.004	1.978	2.005	2.027	1.971	2.001
#3	1.975	2.002	1.979	1.999	2.016	1.973	2.003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105280.**	**10296.**	**4283.9**	**8732.7**
Stddev	320.	18.	5.4	11.7
%RSD	.30373	.17943	.12578	.13410
#1	105000.	10275.	4289.9	8744.0
#2	105200.	10307.	4279.5	8720.6
#3	105630.	10306.	4282.3	8733.6

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 14:41:44 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	F **.0008**	**.0005**	**.0004**	**.0006**	**.0002**	**.0009**	**.0003**	**-.0003**
Stddev	.0002	.0001	.0004	.0003	.0003	.0002	.0003	.0004	.0005
%RSD	21.28	17.39	79.10	69.62	42.83	136.0	29.15	153.2	172.8
#1	.0008	.0006	.0008	.0006	.0008	.0002	.0012	.0005	-.0000
#2	.0011	.0009	.0006	.0004	.0007	.0004	.0009	.0004	-.0008
#3	.0013	.0009	.0001	.0001	.0003	-.0001	.0007	-.0002	.0000
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0004**	**.0012**	**.0000**	**.0003**	**.0009**	**-.0002**	**.0195**	**.0187**
Stddev	.0003	.0002	.0001	.0004	.0004	.0009	.0012	.0039	.0021
%RSD	40.68	38.49	11.53	1819.	134.4	94.62	780.0	20.18	11.03
#1	.0007	.0006	.0013	.0001	.0003	.0015	.0010	.0239	.0163
#2	.0009	.0005	.0012	.0004	.0007	.0014	-.0001	.0182	.0199
#3	.0004	.0002	.0011	-.0004	-.0001	-.0001	-.0014	.0164	.0199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0381**	**.0197**	**.0021**	**.0214**	**.0005**	**.0005**	**.0019**	**.0002**	**.0007**
Stddev	.0051	.0181	.0147	.0014	.0002	.0001	.0006	.0004	.0001
%RSD	13.50	91.88	687.3	6.496	43.09	29.94	32.27	250.9	14.19
#1	.0346	.0008	.0061	.0207	.0008	.0006	.0020	.0002	.0007
#2	.0358	.0215	.0144	.0206	.0003	.0004	.0013	-.0002	.0007
#3	.0440	.0368	-.0141	.0230	.0005	.0004	.0025	.0005	.0009
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 14:41:44 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0027**	**.0005**	**-.0000**	**-.0008**	**.0006**	**.0022**
Stddev	.0001	.0008	.0001	.0019	.0009	.0003	.0005
%RSD	21.18	29.13	11.16	7278.	115.6	52.12	21.56
#1	.0007	.0035	.0006	.0022	-.0001	.0009	.0026
#2	.0005	.0025	.0005	-.0014	-.0005	.0006	.0017
#3	.0008	.0020	.0005	-.0008	-.0019	.0003	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111000.**	**10420.**	**4448.8**	**9793.8**
Stddev	319.	43.	7.0	6.8
%RSD	.28768	.41371	.15657	.06955
#1	111360.	10459.	4444.3	9786.8
#2	110790.	10374.	4456.8	9800.4
#3	110840.	10429.	4445.2	9794.3

Zoom In Zoom Out

Sample Name: mp13751-sd1conf Acquired: 4/3/2019 14:47:15 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0556**	**.0057**	**.0014**	**.0820**	**.1274**	**.2289**	**2.639**	**.2099**	**-.0125**
Stddev	.0007	.0016	.0018	.0079	.0059	.0061	.073	.0222	.0055
%RSD	1.222	27.80	126.6	9.667	4.608	2.666	2.754	10.56	43.67
#1	.0558	.0072	-.0000	.0737	.1211	.2236	2.567	.1854	-.0078
#2	.0548	.0040	.0034	.0827	.1283	.2274	2.636	.2157	-.0112
#3	.0561	.0060	.0009	.0895	.1327	.2356	2.712	.2286	-.0185

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1604**	**.5900**	**.0824**	**.0001**	**.0431**	**-.0265**	**.0013**	**29.94**	**10.85**
Stddev	.0038	.0520	.0087	.0024	.0078	.0078	.0130	.33	.10
%RSD	2.352	8.813	10.51	1737.	18.03	29.51	994.2	1.088	.8967
#1	.1578	.5333	.0742	-.0021	.0349	-.0193	.0043	29.62	10.74
#2	.1585	.6012	.0914	-.0002	.0441	-.0348	-.0129	29.95	10.93
#3	.1647	.6355	.0814	.0027	.0504	-.0254	.0126	30.27	10.87

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**356.1**	**5.607**	**.6524**	**1.736**	**.0029**	**.0068**	**2.064**	**.0233**	**.0312**
Stddev	3.9	.321	.1546	.103	.0033	.0016	.151	.0020	.0009
%RSD	1.090	5.724	23.70	5.932	114.7	24.21	7.302	8.443	2.751
#1	351.7	5.727	.5723	1.657	-.0009	.0071	1.897	.0219	.0317
#2	357.8	5.243	.8306	1.853	.0051	.0083	2.103	.0255	.0317
#3	358.9	5.851	.5542	1.699	.0044	.0050	2.191	.0224	.0302

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6255**	**.0261**	**.0716**	**.1127**	**.0073**	**.0064**	**5.066**
Stddev	.0189	.0024	.0032	.0052	.0037	.0136	.442
%RSD	3.026	9.318	4.505	4.647	50.58	211.7	8.717
#1	.6069	.0288	.0696	.1069	.0076	.0214	4.590
#2	.6249	.0242	.0698	.1172	.0035	.0030	5.144
#3	.6448	.0252	.0753	.1140	.0109	-.0052	5.463

Zoom In Zoom Out

Sample Name: mp13751-sd1conf Acquired: 4/3/2019 14:47:15 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112490.**	**10616.**	**4574.9**	**9730.5**
Stddev	623.	30.	49.4	63.7
%RSD	.55352	.28434	1.0797	.65433
#1	113210.	10641.	4527.3	9670.3
#2	112130.	10582.	4571.7	9724.0
#3	112140.	10624.	4625.9	9797.1

Zoom In Zoom Out

Sample Name: mp13751-ps1 Acquired: 4/3/2019 14:52:36 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.745**	**1.670**	**1.724**	**1.965**	**1.795**	**1.949**	**4.177**	**2.077**	**.1985**
Stddev	.002	.004	.003	.002	.004	.001	.003	.002	.0004
%RSD	.0874	.2226	.1633	.1144	.1979	.0598	.0805	.0733	.1811
#1	1.745	1.671	1.722	1.966	1.791	1.949	4.173	2.076	.1986
#2	1.747	1.673	1.727	1.967	1.798	1.948	4.177	2.079	.1987
#3	1.744	1.666	1.722	1.963	1.797	1.950	4.180	2.077	.1981

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.797**	**2.131**	**1.808**	**1.936**	**1.930**	**1.681**	**1.733**	**51.87**	**31.66**
Stddev	.002	.002	.001	.005	.002	.001	.001	.06	.06
%RSD	.0837	.0915	.0600	.2725	.0815	.0552	.0431	.1249	.2033
#1	1.797	2.133	1.808	1.934	1.929	1.682	1.733	51.88	31.73
#2	1.798	2.129	1.809	1.942	1.929	1.682	1.733	51.93	31.66
#3	1.795	2.130	1.806	1.932	1.932	1.680	1.732	51.80	31.60

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **360.2**	**25.95**	**21.86**	**22.86**	**1.699**	**1.657**	**1.718**	**1.727**	**1.707**
Stddev	.6	.09	.03	.03	.003	.001	.009	.002	.003
%RSD	.1783	.3492	.1199	.1184	.1644	.0463	.4963	.1275	.1808
#1	360.6	26.04	21.84	22.86	1.698	1.656	1.728	1.726	1.706
#2	360.4	25.93	21.89	22.89	1.702	1.658	1.714	1.729	1.710
#3	359.4	25.86	21.85	22.84	1.697	1.657	1.712	1.725	1.705

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.297**	**1.451**	**1.756**	**.0209**	**.0007**	**.0015**	**5.767**
Stddev	.002	.006	.001	.0038	.0016	.0018	.015
%RSD	.0786	.3918	.0294	17.99	249.5	121.6	.2567
#1	2.296	1.447	1.755	.0203	.0016	.0033	5.757
#2	2.295	1.449	1.756	.0175	.0016	.0016	5.784
#3	2.299	1.458	1.756	.0250	-.0012	-.0004	5.760

Zoom In Zoom Out

Sample Name: mp13751-ps1 Acquired: 4/3/2019 14:52:36 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**125260.**	**12530.**	**5029.5**	**9119.5**
Stddev	304.	14.	4.8	9.8
%RSD	.24258	.11176	.09543	.10696
#1	125610.	12538.	5032.8	9130.6
#2	125110.	12539.	5024.0	9112.1
#3	125060.	12514.	5031.8	9115.9

Zoom In Zoom Out

Sample Name: jc85273-1conf Acquired: 4/3/2019 14:57:36 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0665**	**.0057**	**-.0007**	**.0784**	**.1392**	**.2656**	**2.920**	**.1986**
Stddev	.0003	.0001	.0002	.0024	.0004	.0004	.001	.0055
%RSD	.5036	1.488	32.83	3.119	.2755	.1348	.0453	2.758
#1	.0669	.0057	-.0009	.0799	.1390	.2659	2.919	.2018
#2	.0663	.0057	-.0005	.0756	.1389	.2652	2.921	.1922
#3	.0663	.0056	-.0006	.0798	.1396	.2657	2.921	.2016

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.0099**	**.1767**	**.5244**	**.0774**	**-.0028**	**.0357**	**-.0085**	**-.0018**
Stddev	.0011	.0010	.0150	.0023	.0006	.0017	.0063	.0031
%RSD	11.50	.5391	2.865	2.920	19.57	4.811	74.00	170.7
#1	-.0085	.1767	.5325	.0779	-.0034	.0376	-.0125	.0015
#2	-.0105	.1777	.5070	.0749	-.0028	.0350	-.0013	-.0046
#3	-.0106	.1758	.5335	.0794	-.0023	.0344	-.0117	-.0024

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**35.11**	**12.53**	F **403.3**	**6.542**	**.9576**	**2.080**	**.0035**	**.0121**
Stddev	.07	.12	.4	.052	.0453	.016	.0011	.0010
%RSD	.2100	.9266	.1085	.8016	4.729	.7900	32.27	8.163
#1	35.03	12.40	403.2	6.570	1.004	2.061	.0022	.0132
#2	35.16	12.61	403.7	6.574	.9549	2.090	.0040	.0119
#3	35.14	12.59	402.9	6.481	.9137	2.089	.0043	.0113

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.287**	**.0225**	**.0366**	**.7019**	**.0476**	**.0842**	**.0963**	**-.0016**
Stddev	.033	.0008	.0004	.0024	.0048	.0005	.0028	.0003
%RSD	1.458	3.637	1.148	.3358	10.19	.5684	2.886	15.60
#1	2.323	.0216	.0364	.7032	.0525	.0843	.0937	-.0019
#2	2.257	.0226	.0363	.7033	.0475	.0847	.0960	-.0015
#3	2.281	.0232	.0371	.6992	.0428	.0838	.0992	-.0015

Zoom In Zoom Out

Sample Name: jc85273-1conf Acquired: 4/3/2019 14:57:36 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0016**	**4.603**
Stddev	.0027	.121
%RSD	164.2	2.633
#1	-.0014	4.664
#2	.0036	4.463
#3	.0028	4.681

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**119770.**	**11591.**	**4886.5**	**9644.5**
Stddev	247.	41.	115.5	228.3
%RSD	.20625	.35721	2.3636	2.3674
#1	120010.	11559.	4819.5	9518.0
#2	119800.	11577.	5019.8	9908.1
#3	119510.	11638.	4820.1	9507.5

Zoom In Zoom Out

Sample Name: mp13751-s1 Acquired: 4/3/2019 15:02:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.045**	**1.919**	**1.901**	**1.984**	**2.071**	**2.094**	**4.447**	**2.136**	**.2347**
Stddev	.079	.074	.001	.004	.002	.007	.012	.005	.0050
%RSD	3.879	3.842	.0530	.1853	.0854	.3192	.2762	.2302	2.122
#1	2.027	1.903	1.902	1.982	2.071	2.091	4.446	2.134	.2352
#2	1.976	1.854	1.901	1.981	2.070	2.089	4.435	2.133	.2295
#3	2.132	1.999	1.900	1.988	2.073	2.101	4.459	2.142	.2395

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.043**	**2.497**	**1.936**	**2.027**	**1.996**	**1.802**	**1.458**	**109.9**	**46.39**
Stddev	.000	.004	.013	.007	.003	.004	.005	4.3	1.75
%RSD	.0122	.1665	.6680	.3233	.1417	.2202	.3706	3.941	3.770
#1	2.044	2.498	1.928	2.020	1.993	1.803	1.454	109.1	46.08
#2	2.043	2.492	1.951	2.028	1.997	1.797	1.455	106.0	44.81
#3	2.043	2.500	1.930	2.033	1.999	1.805	1.464	114.5	48.27

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**498.9**	**36.15**	**27.75**	**27.76**	**1.805**	**1.957**	**3.797**	**1.980**	**1.959**
Stddev	19.2	1.33	.98	1.02	.003	.004	.022	.004	.074
%RSD	3.846	3.665	3.523	3.687	.1551	.2109	.5909	.2199	3.776
#1	494.3	35.75	27.49	27.56	1.808	1.952	3.801	1.981	1.942
#2	482.5	35.07	26.93	26.85	1.803	1.958	3.817	1.975	1.895
#3	520.0	37.63	28.83	28.87	1.805	1.961	3.773	1.983	2.040

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.528**	**1.783**	**1.941**	**.0303**	**-.0071**	**.0127**	**6.765**
Stddev	.010	.007	.005	.0153	.0018	.0060	.025
%RSD	.4013	.3991	.2543	50.61	25.72	47.38	.3684
#1	2.529	1.783	1.939	.0227	-.0072	.0075	6.746
#2	2.518	1.776	1.937	.0480	-.0053	.0193	6.756
#3	2.538	1.790	1.947	.0202	-.0090	.0112	6.793

Zoom In Zoom Out

Sample Name: mp13751-s1 Acquired: 4/3/2019 15:02:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112810.**	**10717.**	**4565.6**	**9368.5**
Stddev	633.	371.	1.5	12.9
%RSD	.56078	3.4615	.03202	.13820
#1	112590.	10711.	4565.1	9377.6
#2	113530.	11091.	4567.2	9374.2
#3	112330.	10349.	4564.3	9353.7

Zoom In Zoom Out

Sample Name: mp13751-s2 Acquired: 4/3/2019 15:07:55 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.034**	**1.868**	**1.886**	**1.946**	**2.042**	**2.018**	**4.708**	**2.084**	**.2300**
Stddev	.003	.002	.005	.002	.003	.004	.007	.005	.0029
%RSD	.1592	.1165	.2865	.1117	.1619	.1821	.1449	.2588	1.269
#1	2.037	1.871	1.880	1.943	2.045	2.020	4.713	2.083	.2320
#2	2.036	1.868	1.888	1.947	2.039	2.014	4.700	2.080	.2315
#3	2.031	1.866	1.890	1.947	2.042	2.020	4.710	2.090	.2267

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.025**	**2.428**	**1.899**	**1.999**	**1.965**	**1.788**	**1.443**	**102.6**	**54.04**
Stddev	.001	.004	.004	.004	.003	.004	.002	.2	.26
%RSD	.0629	.1720	.2172	.1797	.1687	.2380	.1207	.1925	.4898
#1	2.026	2.424	1.903	1.995	1.961	1.793	1.445	102.7	54.16
#2	2.023	2.426	1.898	2.000	1.966	1.784	1.442	102.7	54.22
#3	2.025	2.432	1.895	2.002	1.967	1.788	1.441	102.4	53.74

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**425.2**	**40.85**	**27.43**	**27.18**	**1.791**	**1.934**	**3.879**	**1.967**	**1.932**
Stddev	.8	.22	.30	.08	.014	.006	.006	.005	.003
%RSD	.1866	.5471	1.097	.3003	.7694	.3193	.1460	.2326	.1532
#1	425.0	40.70	27.71	27.13	1.782	1.936	3.885	1.965	1.933
#2	426.1	41.10	27.46	27.27	1.783	1.927	3.873	1.963	1.935
#3	424.5	40.73	27.11	27.13	1.806	1.939	3.880	1.972	1.929

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.456**	**1.723**	**1.911**	**.0191**	**.0008**	**.0172**	**6.144**
Stddev	.004	.004	.005	.0124	.0024	.0053	.008
%RSD	.1422	.2005	.2832	64.91	289.1	30.96	.1248
#1	2.457	1.723	1.915	.0053	.0003	.0147	6.151
#2	2.452	1.720	1.905	.0292	-.0012	.0136	6.136
#3	2.458	1.727	1.913	.0229	.0035	.0233	6.146

Zoom In Zoom Out

Sample Name: mp13751-s2 Acquired: 4/3/2019 15:07:55 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112350.**	**10828.**	**4544.3**	**9356.0**
Stddev	238.	72.	5.4	5.0
%RSD	.21186	.66606	.11829	.05363
#1	112170.	10844.	4545.5	9357.7
#2	112620.	10749.	4549.0	9359.9
#3	112250.	10891.	4538.4	9350.3

Zoom In Zoom Out

Sample Name: jc85273-1 Acquired: 4/3/2019 15:12:58 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0740**	**.0057**	**-.0003**	**.0816**	**.1492**	**.2829**	**3.143**	**.2088**	**-.0101**
Stddev	.0016	.0005	.0004	.0006	.0016	.0033	.012	.0016	.0009
%RSD	2.220	8.687	113.5	.6881	1.068	1.169	.3853	.7631	8.707
#1	.0731	.0058	-.0007	.0809	.1485	.2865	3.147	.2074	-.0103
#2	.0758	.0051	-.0001	.0820	.1510	.2824	3.129	.2105	-.0108
#3	.0729	.0061	-.0001	.0819	.1480	.2799	3.152	.2084	-.0091

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1912**	**.5904**	**.0812**	**-.0030**	**.0351**	**-.0069**	**-.0045**	**38.97**	**13.70**
Stddev	.0016	.0024	.0065	.0022	.0008	.0084	.0065	.17	.09
%RSD	.8257	.4074	7.940	75.13	2.239	121.4	145.2	.4261	.6221
#1	.1927	.5897	.0769	-.0017	.0357	.0004	-.0089	39.11	13.78
#2	.1896	.5930	.0887	-.0055	.0354	-.0160	-.0076	39.01	13.71
#3	.1914	.5884	.0782	-.0016	.0342	-.0050	.0030	38.79	13.61

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**440.2**	**7.053**	**1.031**	**2.253**	**.0020**	**.0100**	**3.847**	**.0222**	**.0402**
Stddev	1.7	.118	.115	.045	.0031	.0003	.193	.0007	.0011
%RSD	.3806	1.677	11.17	2.018	156.0	2.554	5.017	3.240	2.705
#1	441.5	6.957	1.093	2.279	.0019	.0101	4.043	.0215	.0401
#2	440.9	7.185	1.102	2.200	.0051	.0102	3.841	.0220	.0414
#3	438.3	7.018	.8981	2.278	-.0010	.0097	3.657	.0230	.0392

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8036**	**.0309**	**.0906**	**.1112**	**-.0054**	**.0028**	**5.019**
Stddev	.0372	.0024	.0006	.0066	.0056	.0053	.033
%RSD	4.624	7.695	.6613	5.970	104.1	189.2	.6616
#1	.8088	.0327	.0908	.1035	-.0018	-.0025	5.028
#2	.7642	.0319	.0899	.1150	-.0118	.0080	5.047
#3	.8379	.0282	.0911	.1151	-.0025	.0029	4.982

Zoom In Zoom Out

Sample Name: jc85273-1 Acquired: 4/3/2019 15:12:58 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**114500.**	**10924.**	**4602.1**	**9572.7**
Stddev	141.	38.	16.0	33.2
%RSD	.12339	.34337	.34758	.34731
#1	114410.	10895.	4605.5	9582.1
#2	114660.	10909.	4584.6	9535.8
#3	114420.	10966.	4616.1	9600.3

Zoom In Zoom Out

Sample Name: mp13751-sd1 Acquired: 4/3/2019 15:18:16 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0728**	**.0069**	**.0044**	**.0838**	**.1628**	**.2874**	**3.324**	**.2155**	**-.0076**
Stddev	.0023	.0008	.0024	.0054	.0106	.0055	.012	.0015	.0061
%RSD	3.138	12.19	54.32	6.429	6.486	1.926	.3683	.6851	80.62
#1	.0754	.0072	.0068	.0810	.1636	.2840	3.311	.2149	-.0044
#2	.0718	.0059	.0020	.0805	.1729	.2938	3.336	.2145	-.0146
#3	.0712	.0075	.0044	.0901	.1519	.2844	3.326	.2172	-.0037

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2099**	**.7058**	**.0860**	**.0004**	**.0461**	**-.0119**	**-.0390**	**40.91**	**15.00**
Stddev	.0043	.0039	.0157	.0190	.0132	.0464	.0165	.55	.07
%RSD	2.057	.5518	18.23	5069.	28.70	389.8	42.31	1.356	.4487
#1	.2134	.7049	.0682	-.0099	.0494	-.0137	-.0257	40.38	14.93
#2	.2051	.7101	.0924	-.0113	.0315	-.0573	-.0338	40.86	15.01
#3	.2111	.7025	.0975	.0223	.0574	.0353	-.0575	41.48	15.06

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**470.9**	**7.268**	**.7608**	**2.317**	**-.0037**	**.0179**	**3.816**	**.0121**	**.0387**
Stddev	3.9	.516	.4971	.100	.0051	.0042	.102	.0146	.0027
%RSD	.8258	7.104	65.34	4.293	135.8	23.49	2.667	121.0	7.029
#1	469.2	6.674	.3939	2.233	-.0072	.0167	3.899	-.0047	.0356
#2	475.3	7.531	1.326	2.427	.0021	.0144	3.703	.0220	.0406
#3	468.1	7.601	.5619	2.291	-.0060	.0226	3.847	.0189	.0400

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8535**	**.1062**	**.0985**	**.1602**	**-.0320**	**-.0046**	**5.285**
Stddev	.0899	.0231	.0031	.0286	.0053	.0450	.019
%RSD	10.53	21.74	3.199	17.87	16.47	977.1	.3666
#1	.9571	.1297	.0949	.1509	-.0292	.0383	5.300
#2	.7962	.1053	.1000	.1374	-.0380	-.0006	5.293
#3	.8073	.0835	.1006	.1923	-.0287	-.0515	5.263

Zoom In Zoom Out

Sample Name: mp13751-sd1 Acquired: 4/3/2019 15:18:16 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111200.**	**10571.**	**4466.4**	**9699.6**
Stddev	98.	31.	4.3	3.3
%RSD	.08851	.29627	.09682	.03446
#1	111260.	10594.	4471.1	9703.3
#2	111080.	10584.	4462.6	9698.4
#3	111250.	10535.	4465.6	9696.9

Zoom In Zoom Out

Sample Name: jc85402-1 Acquired: 4/3/2019 15:23:41 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4318**	**.0062**	**.0007**	**.0518**	**.1683**	**.1331**	**3.260**	**.1148**
Stddev	.0147	.0001	.0000	.0003	.0004	.0014	.007	.0003
%RSD	3.405	1.580	4.895	.5038	.2283	1.066	.2212	.2391
#1	.4432	.0063	.0007	.0521	.1686	.1344	3.268	.1151
#2	.4152	.0061	.0007	.0516	.1685	.1316	3.259	.1145
#3	.4371	.0063	.0007	.0516	.1679	.1333	3.253	.1149

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.0040**	**.2480**	**.4648**	**.0696**	**-.0010**	**.0702**	**-.0048**	**.0002**
Stddev	.0016	.0005	.0011	.0004	.0015	.0014	.0023	.0014
%RSD	39.87	.1999	.2371	.5846	140.0	2.037	47.48	634.8
#1	-.0027	.2484	.4660	.0697	.0001	.0713	-.0027	.0004
#2	-.0058	.2482	.4642	.0692	-.0027	.0706	-.0073	.0016
#3	-.0035	.2474	.4640	.0699	-.0005	.0686	-.0046	-.0013

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**77.69**	F **580.4**	**188.5**	**202.1**	**10.11**	**3.495**	**.0496**	**.0197**
Stddev	2.74	19.5	6.5	7.1	.35	.127	.0012	.0003
%RSD	3.525	3.367	3.471	3.520	3.415	3.636	2.349	1.481
#1	79.80	597.7	193.6	207.8	10.38	3.601	.0501	.0200
#2	74.60	559.2	181.1	194.1	9.721	3.354	.0483	.0196
#3	78.68	584.2	190.8	204.5	10.23	3.530	.0505	.0194

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.662**	**.0252**	**1.346**	**3.758**	**.0123**	**.0697**	**12.26**	**.0101**
Stddev	.004	.0003	.046	.010	.0003	.0006	.03	.0008
%RSD	.2701	1.324	3.401	.2668	2.042	.9025	.2197	7.950
#1	1.663	.0250	1.381	3.770	.0121	.0703	12.24	.0101
#2	1.657	.0251	1.294	3.754	.0123	.0691	12.25	.0109
#3	1.666	.0256	1.363	3.751	.0126	.0698	12.29	.0093

Zoom In Zoom Out

Sample Name: jc85402-1 Acquired: 4/3/2019 15:23:41 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0667**	**3.154**
Stddev	.0031	.012
%RSD	4.616	.3863
#1	.0691	3.160
#2	.0632	3.140
#3	.0678	3.163

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103400.**	**10996.**	**4152.3**	**7852.5**
Stddev	286.	339.	3.4	4.9
%RSD	.27661	3.0864	.08102	.06259
#1	103280.	10725.	4156.1	7856.9
#2	103190.	11377.	4151.4	7847.2
#3	103720.	10887.	4149.5	7853.3

Zoom In Zoom Out

Sample Name: jc85402-1 Acquired: 4/3/2019 15:29:01 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4588**	**.0065**	**.0001**	**.0541**	**.1882**	**.1402**	**3.588**	**.1204**	**-.0025**
Stddev	.0098	.0001	.0002	.0025	.0031	.0002	.019	.0014	.0003
%RSD	2.140	1.877	222.9	4.684	1.621	.1424	.5230	1.191	12.05
#1	.4495	.0065	-.0000	.0528	.1850	.1403	3.567	.1203	-.0022
#2	.4578	.0064	.0003	.0525	.1884	.1400	3.599	.1218	-.0025
#3	.4690	.0066	-.0000	.0570	.1911	.1404	3.600	.1190	-.0028

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2685**	**.5331**	**.0739**	**-.0025**	**.0718**	**-.0018**	**.0015**	**82.19**	**665.3**
Stddev	.0016	.0013	.0030	.0006	.0016	.0040	.0116	.92	10.0
%RSD	.5784	.2465	4.066	22.31	2.182	217.2	784.4	1.124	1.499
#1	.2671	.5318	.0717	-.0022	.0723	-.0017	-.0099	81.23	655.6
#2	.2702	.5330	.0773	-.0022	.0731	-.0059	.0011	82.27	664.6
#3	.2683	.5344	.0726	-.0032	.0701	.0021	.0132	83.07	675.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**215.0**	**224.2**	**10.36**	**3.648**	**.0489**	**.0229**	**1.763**	**.0269**	**1.438**
Stddev	3.4	3.5	.18	.060	.0013	.0004	.003	.0008	.028
%RSD	1.600	1.576	1.708	1.651	2.572	1.747	.1864	2.790	1.925
#1	211.8	220.8	10.21	3.614	.0484	.0233	1.764	.0276	1.411
#2	214.6	223.9	10.32	3.612	.0503	.0225	1.759	.0261	1.437
#3	218.6	227.9	10.56	3.717	.0479	.0230	1.766	.0271	1.466

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.030**	**.0193**	**.0758**	**12.92**	**.0076**	**.0628**	**3.350**
Stddev	.019	.0045	.0008	.05	.0045	.0019	.015
%RSD	.4683	23.25	.9924	.4006	59.74	3.025	.4436
#1	4.008	.0153	.0762	12.86	.0024	.0621	3.333
#2	4.040	.0185	.0749	12.94	.0104	.0613	3.361
#3	4.042	.0241	.0762	12.95	.0099	.0649	3.357

Zoom In Zoom Out

Sample Name: jc85402-1 Acquired: 4/3/2019 15:29:01 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107100.**	**10420.**	**4303.6**	**8787.1**
Stddev	265.	46.	5.4	9.2
%RSD	.24698	.44134	.12657	.10481
#1	107230.	10368.	4297.9	8777.1
#2	106790.	10453.	4308.7	8795.3
#3	107260.	10440.	4304.2	8788.8

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 15:34:19 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.976**	**1.972**	**2.002**	**1.992**	**1.993**	**1.947**	**2.001**	**2.000**	**.2447**
Stddev	.003	.003	.006	.007	.005	.003	.002	.006	.0008
%RSD	.1509	.1676	.3060	.3788	.2313	.1347	.1215	.3030	.3219
#1	1.973	1.969	1.996	1.985	1.998	1.949	2.003	1.995	.2454
#2	1.979	1.975	2.008	2.000	1.992	1.944	2.000	2.007	.2447
#3	1.977	1.970	2.003	1.990	1.989	1.947	1.999	1.997	.2439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.964**	**2.013**	**2.008**	**2.067**	**2.013**	**1.994**	**2.026**	**39.10**	**39.61**
Stddev	.002	.006	.009	.007	.006	.003	.009	.11	.09
%RSD	.1042	.2881	.4251	.3576	.2804	.1311	.4471	.2767	.2392
#1	1.966	2.012	2.000	2.066	2.010	1.992	2.016	38.98	39.51
#2	1.962	2.020	2.017	2.074	2.020	1.997	2.034	39.19	39.69
#3	1.964	2.008	2.008	2.060	2.010	1.993	2.029	39.14	39.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.50**	**38.85**	**39.12**	**39.06**	**2.043**	**2.033**	**5.083**	**2.052**	**1.967**
Stddev	.14	.13	.04	.06	.011	.007	.023	.004	.004
%RSD	.3597	.3346	.0988	.1647	.5216	.3707	.4473	.1846	.1838
#1	39.36	38.89	39.08	38.99	2.031	2.025	5.056	2.049	1.964
#2	39.65	38.96	39.13	39.09	2.049	2.040	5.097	2.056	1.971
#3	39.48	38.71	39.16	39.11	2.049	2.032	5.095	2.050	1.968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 15:34:19 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.985**	**2.002**	**1.987**	**2.009**	**2.021**	**1.965**	**2.015**
Stddev	.002	.005	.002	.011	.009	.003	.006
%RSD	.1167	.2661	.1085	.5602	.4604	.1459	.2898
#1	1.988	1.996	1.988	2.007	2.011	1.962	2.012
#2	1.983	2.007	1.985	2.021	2.024	1.965	2.021
#3	1.985	2.003	1.988	1.998	2.028	1.968	2.011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105240.**	**10325.**	**4271.6**	**8721.7**
Stddev	166.	62.	14.8	27.6
%RSD	.15767	.59678	.34705	.31678
#1	105060.	10355.	4285.4	8740.0
#2	105270.	10254.	4256.0	8689.9
#3	105390.	10366.	4273.5	8735.1

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 15:39:21 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	F **.0012**	**.0005**	**.0007**	**.0008**	**.0004**	**.0012**	**.0005**	**-.0002**
Stddev	.0001	.0001	.0000	.0002	.0006	.0001	.0002	.0001	.0003
%RSD	7.198	4.453	5.263	23.41	73.87	31.21	20.53	27.01	150.4
#1	.0013	.0011	.0005	.0009	.0008	.0005	.0014	.0004	.0000
#2	.0011	.0012	.0005	.0006	.0013	.0005	.0012	.0006	-.0006
#3	.0013	.0012	.0006	.0006	.0002	.0003	.0010	.0004	-.0001
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0006**	**-.0002**	**.0006**	**.0003**	**-.0000**	**.0002**	F **.0307**	**.1003**
Stddev	.0004	.0001	.0009	.0005	.0002	.0010	.0004	.0101	.0014
%RSD	35.05	13.60	560.5	76.46	72.66	5598.	166.7	32.89	1.445
#1	.0017	.0007	.0005	.0007	.0003	-.0011	.0006	.0379	.1013
#2	.0013	.0005	.0001	.0001	.0001	.0008	.0000	.0351	.1010
#3	.0008	.0006	-.0011	.0011	.0004	.0002	-.0000	.0192	.0986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								.0200	
Low Limit								-.0200	

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0529**	**.0423**	**.0405**	**.0285**	**.0009**	**.0010**	**.0019**	**.0009**	F **.0013**
Stddev	.0108	.0176	.0312	.0087	.0003	.0001	.0013	.0001	.0001
%RSD	20.47	41.59	76.91	30.35	36.17	10.43	68.80	6.019	7.297
#1	.0405	.0616	.0647	.0381	.0012	.0011	.0009	.0009	.0013
#2	.0578	.0272	.0053	.0262	.0009	.0009	.0034	.0008	.0014
#3	.0603	.0380	.0516	.0213	.0006	.0009	.0014	.0009	.0013
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	.0100								.0010
Low Limit	-.0100								-.0010

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 15:39:21 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0035**	**.0007**	**.0009**	**-.0006**	**.0016**	**.0029**
Stddev	.0002	.0003	.0001	.0034	.0003	.0005	.0006
%RSD	22.96	7.593	9.671	362.1	42.32	33.35	21.47
#1	.0011	.0038	.0006	.0040	-.0007	.0011	.0030
#2	.0008	.0032	.0008	-.0027	-.0008	.0022	.0022
#3	.0007	.0036	.0007	.0016	-.0003	.0015	.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111620.**	**10420.**	**4433.4**	**9759.1**
Stddev	381.	3.	11.3	27.9
%RSD	.34153	.02957	.25507	.28606
#1	111190.	10422.	4437.9	9768.5
#2	111770.	10416.	4420.5	9727.7
#3	111910.	10421.	4441.7	9781.1

Zoom In Zoom Out

Sample Name: jc85419-1 Acquired: 4/3/2019 15:44:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5840**	**.0043**	**.0026**	**.0456**	**.2608**	**.3384**	**1.920**	**.1451**	**.0045**
Stddev	.0016	.0002	.0002	.0004	.0006	.0006	.001	.0007	.0007
%RSD	.2694	3.749	8.935	.9134	.2450	.1639	.0697	.4541	14.66
#1	.5850	.0043	.0024	.0454	.2602	.3380	1.920	.1459	.0037
#2	.5821	.0044	.0029	.0452	.2614	.3390	1.918	.1449	.0049
#3	.5847	.0041	.0026	.0460	.2607	.3381	1.921	.1446	.0048

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2569**	**.5973**	**.0424**	**-.0003**	**.4519**	**.0013**	**.0007**	**85.14**	**180.3**
Stddev	.0009	.0010	.0007	.0007	.0023	.0015	.0015	.09	.2
%RSD	.3673	.1598	1.540	220.6	.5010	113.8	212.6	.1021	.1108
#1	.2561	.5974	.0427	-.0008	.4515	.0023	-.0010	85.12	180.5
#2	.2566	.5981	.0417	-.0008	.4499	.0019	.0013	85.07	180.1
#3	.2579	.5962	.0429	.0005	.4544	-.0004	.0017	85.24	180.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**122.6**	**36.40**	**18.67**	**9.032**	**.2896**	**.0062**	**2.128**	**.0527**	**.9001**
Stddev	.2	.08	.05	.020	.0014	.0002	.007	.0003	.0033
%RSD	.1851	.2086	.2610	.2184	.4942	3.211	.3316	.5897	.3701
#1	122.9	36.48	18.71	9.045	.2880	.0060	2.130	.0530	.9024
#2	122.4	36.38	18.62	9.010	.2900	.0064	2.134	.0524	.8963
#3	122.6	36.33	18.67	9.043	.2907	.0063	2.120	.0526	.9016

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.496**	**.0087**	**.0280**	**15.18**	**.0051**	**.1232**	**3.619**
Stddev	.002	.0004	.0002	.01	.0014	.0018	.005
%RSD	.0495	4.228	.6236	.0497	26.76	1.482	.1276
#1	3.494	.0091	.0278	15.19	.0066	.1219	3.614
#2	3.496	.0086	.0281	15.17	.0042	.1253	3.623
#3	3.497	.0084	.0280	15.18	.0044	.1225	3.619

Zoom In Zoom Out

Sample Name: jc85419-1 Acquired: 4/3/2019 15:44:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110220.**	**11113.**	**4461.0**	**8567.8**
Stddev	222.	20.	3.2	6.4
%RSD	.20121	.18043	.07223	.07475
#1	110310.	11094.	4462.0	8567.8
#2	110390.	11110.	4457.4	8561.5
#3	109970.	11134.	4463.6	8574.3

Zoom In Zoom Out

Sample Name: jc85419-2 Acquired: 4/3/2019 15:53:48 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5088**	**.0052**	**.0005**	**.0673**	**1.878**	**.3844**	F **13.09**	**.1551**
Stddev	.0010	.0001	.0002	.0002	.008	.0012	.04	.0002
%RSD	.1912	1.050	39.33	.2823	.4394	.3224	.3318	.1162
#1	.5096	.0052	.0005	.0671	1.885	.3833	13.05	.1548
#2	.5077	.0052	.0003	.0673	1.879	.3843	13.13	.1552
#3	.5089	.0051	.0006	.0675	1.869	.3858	13.07	.1552

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.0045**	**.4637**	**.5664**	**.1021**	**-.0012**	**.2290**	**.0009**	**.0061**
Stddev	.0007	.0007	.0009	.0011	.0009	.0013	.0013	.0014
%RSD	15.11	.1426	.1659	1.110	77.31	.5692	142.9	22.91
#1	-.0047	.4629	.5672	.1009	-.0003	.2289	-.0004	.0054
#2	-.0050	.4638	.5666	.1025	-.0010	.2304	.0009	.0077
#3	-.0037	.4642	.5654	.1030	-.0021	.2278	.0022	.0052

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**98.79**	**157.9**	F **257.4**	**54.20**	**6.511**	**4.725**	**.2358**	**.0154**
Stddev	.14	.2	.4	.09	.035	.009	.0009	.0003
%RSD	.1373	.1423	.1465	.1697	.5324	.1932	.3727	1.658
#1	98.92	158.1	257.5	54.27	6.543	4.731	.2351	.0154
#2	98.65	157.6	257.0	54.09	6.517	4.715	.2368	.0156
#3	98.81	158.0	257.7	54.23	6.474	4.730	.2354	.0151

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.828**	**.0370**	**.4086**	**5.374**	**.0297**	**.1541**	**8.216**	**.0114**
Stddev	.006	.0005	.0016	.010	.0016	.0003	.037	.0007
%RSD	.1998	1.280	.3800	.1906	5.398	.1700	.4558	5.892
#1	2.823	.0365	.4096	5.383	.0297	.1543	8.173	.0106
#2	2.834	.0374	.4068	5.377	.0281	.1543	8.236	.0119
#3	2.826	.0370	.4093	5.363	.0313	.1538	8.240	.0116

Zoom In Zoom Out

Sample Name: jc85419-2 Acquired: 4/3/2019 15:53:48 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.1057**	**3.493**
Stddev	.0007	.013
%RSD	.7006	.3718
#1	.1052	3.478
#2	.1065	3.500
#3	.1052	3.500

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108160.**	**10881.**	**4323.8**	**8624.0**
Stddev	326.	49.	2.5	5.8
%RSD	.30146	.44866	.05732	.06719
#1	107900.	10901.	4325.3	8625.1
#2	108060.	10916.	4325.1	8629.1
#3	108520.	10825.	4320.9	8617.7

Zoom In Zoom Out

Sample Name: jc85419-2conf Acquired: 4/3/2019 15:59:04 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4357**	**.0047**	**.0003**	**.0750**	**1.831**	**.3619**	**12.96**	**.1719**
Stddev	.0551	.0003	.0002	.0041	.068	.0157	.51	.0088
%RSD	12.64	6.314	93.94	5.477	3.691	4.337	3.898	5.146
#1	.4278	.0044	.0001	.0704	1.763	.3489	12.48	.1617
#2	.3849	.0048	.0001	.0782	1.832	.3573	12.92	.1777
#3	.4942	.0049	.0005	.0765	1.899	.3793	13.49	.1763

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.0086**	**.4644**	**.6488**	**.1089**	**-.0031**	**.2530**	**-.0040**	**.0139**
Stddev	.0061	.0173	.0311	.0047	.0079	.0134	.0054	.0020
%RSD	70.38	3.735	4.797	4.315	253.0	5.280	132.4	14.08
#1	-.0076	.4466	.6138	.1036	.0002	.2377	.0009	.0153
#2	-.0151	.4654	.6733	.1125	-.0121	.2624	-.0097	.0117
#3	-.0031	.4812	.6592	.1105	.0026	.2588	-.0033	.0148

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**84.30**	**137.6**	**229.7**	**47.03**	**5.510**	**4.018**	**.2603**	**.0170**
Stddev	10.68	17.3	28.9	5.96	.698	.468	.0139	.0009
%RSD	12.68	12.54	12.59	12.67	12.66	11.64	5.335	5.071
#1	83.04	135.5	226.7	46.45	5.375	3.946	.2448	.0162
#2	74.29	121.5	202.4	41.39	4.890	3.591	.2715	.0169
#3	95.55	155.8	260.0	53.27	6.266	4.518	.2647	.0179

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.101**	**.0424**	**.3502**	**5.176**	**.0345**	**.1454**	**9.089**	**.0116**
Stddev	.137	.0014	.0443	.208	.0014	.0063	.490	.0054
%RSD	4.407	3.320	12.64	4.012	4.161	4.335	5.391	46.46
#1	2.953	.0410	.3439	4.964	.0331	.1396	8.528	.0078
#2	3.222	.0438	.3094	5.185	.0359	.1445	9.432	.0177
#3	3.129	.0425	.3973	5.379	.0344	.1521	9.308	.0092

Zoom In Zoom Out

Sample Name: jc85419-2conf Acquired: 4/3/2019 15:59:04 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0881**	**3.884**
Stddev	.0101	.201
%RSD	11.48	5.171
#1	.0858	3.655
#2	.0793	4.027
#3	.0991	3.971

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108430.**	**10402.**	**4289.1**	**8811.4**
Stddev	197.	960.	97.8	191.4
%RSD	.18202	9.2310	2.2794	2.1718
#1	108460.	9992.5	4344.6	8930.8
#2	108610.	11499.	4176.2	8590.6
#3	108220.	9714.7	4346.5	8912.6

Zoom In Zoom Out

Sample Name: jc85419-3 Acquired: 4/3/2019 16:04:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4292**	**.0043**	**.0006**	**.0348**	**.3648**	**.4587**	**.7453**	**.0879**	**.0124**
Stddev	.0010	.0000	.0002	.0008	.0005	.0019	.0010	.0017	.0002
%RSD	.2427	.3684	28.22	2.326	.1349	.4167	.1372	1.962	1.359
#1	.4302	.0043	.0004	.0354	.3646	.4607	.7461	.0894	.0125
#2	.4281	.0043	.0007	.0351	.3644	.4582	.7457	.0882	.0123
#3	.4293	.0043	.0007	.0338	.3653	.4570	.7442	.0860	.0122

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3520**	**.3443**	**.2692**	**-.0007**	**.5023**	**.0113**	**.1320**	**78.14**	**43.81**
Stddev	.0009	.0055	.0041	.0012	.0068	.0006	.0018	.08	.09
%RSD	.2474	1.595	1.532	175.0	1.349	5.337	1.356	.1063	.2027
#1	.3530	.3474	.2731	.0004	.5077	.0120	.1338	78.15	43.92
#2	.3516	.3475	.2697	-.0021	.5045	.0110	.1318	78.22	43.77
#3	.3514	.3380	.2649	-.0004	.4947	.0109	.1303	78.06	43.76

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**135.6**	**16.00**	**6.041**	**3.759**	**.0600**	**.0139**	**2.138**	**.0688**	**.1766**
Stddev	.6	.11	.032	.009	.0018	.0003	.043	.0009	.0003
%RSD	.4425	.6588	.5332	.2276	3.072	1.892	2.029	1.337	.1444
#1	136.2	16.09	6.047	3.758	.0607	.0142	2.168	.0697	.1767
#2	135.0	15.88	6.006	3.751	.0613	.0138	2.158	.0690	.1763
#3	135.7	16.02	6.070	3.768	.0579	.0137	2.088	.0679	.1767

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **8.255**	**.0084**	**.0765**	**6.753**	**.0029**	**.1010**	**4.384**
Stddev	.017	.0003	.0003	.149	.0005	.0007	.073
%RSD	.2092	3.339	.4237	2.207	18.70	.6538	1.676
#1	8.272	.0085	.0768	6.858	.0023	.1002	4.431
#2	8.256	.0080	.0763	6.817	.0033	.1013	4.423
#3	8.238	.0085	.0762	6.582	.0032	.1014	4.300

Zoom In Zoom Out

Sample Name: jc85419-3 Acquired: 4/3/2019 16:04:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110730.**	**10994.**	**4531.1**	**9140.7**
Stddev	50.	86.	60.4	120.3
%RSD	.04498	.77885	1.3326	1.3158
#1	110730.	10910.	4495.7	9066.9
#2	110680.	11081.	4496.7	9075.7
#3	110780.	10992.	4600.8	9279.5

Zoom In Zoom Out

Sample Name: jc85419-3 Acquired: 4/3/2019 16:09:34 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4362**	**.0044**	**.0009**	**.0348**	**.3679**	**.4575**	**.7566**	**.0888**	**.0135**
Stddev	.0002	.0002	.0001	.0002	.0009	.0012	.0018	.0004	.0009
%RSD	.0497	5.406	15.51	.5514	.2411	.2538	.2388	.4918	6.409
#1	.4362	.0043	.0007	.0346	.3669	.4574	.7586	.0890	.0131
#2	.4360	.0046	.0009	.0350	.3684	.4587	.7560	.0891	.0129
#3	.4364	.0041	.0010	.0348	.3685	.4564	.7551	.0883	.0145

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3553**	**.3587**	**.2739**	**-.0017**	**.5087**	**.0100**	**.1336**	**78.90**	**44.86**
Stddev	.0008	.0005	.0020	.0017	.0014	.0044	.0012	.18	.13
%RSD	.2231	.1309	.7452	104.1	.2708	44.27	.9192	.2290	.2821
#1	.3562	.3590	.2737	-.0012	.5095	.0122	.1347	79.10	44.99
#2	.3547	.3581	.2719	-.0036	.5071	.0128	.1323	78.74	44.74
#3	.3550	.3589	.2760	-.0002	.5095	.0049	.1340	78.87	44.85

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**141.0**	**16.66**	**6.152**	**3.825**	**.0600**	**.0147**	**2.218**	**.0710**	**.1815**
Stddev	.2	.12	.062	.024	.0003	.0001	.013	.0009	.0009
%RSD	.1154	.6933	1.010	.6294	.5282	.8551	.6039	1.203	.4736
#1	140.9	16.65	6.092	3.839	.0601	.0146	2.229	.0716	.1805
#2	141.0	16.55	6.149	3.797	.0596	.0147	2.204	.0700	.1817
#3	141.2	16.78	6.216	3.839	.0603	.0149	2.222	.0713	.1822

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.320**	**.0106**	**.0769**	**6.855**	**.0006**	**.0997**	**4.532**
Stddev	.019	.0015	.0006	.022	.0015	.0015	.009
%RSD	.2248	14.00	.8115	.3287	234.5	1.538	.2093
#1	8.342	.0111	.0764	6.865	-.0009	.0988	4.543
#2	8.307	.0089	.0766	6.829	.0021	.0987	4.524
#3	8.311	.0118	.0776	6.870	.0007	.1014	4.530

Zoom In Zoom Out

Sample Name: jc85419-3 Acquired: 4/3/2019 16:09:34 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110490.**	**10628.**	**4471.0**	**9303.1**
Stddev	330.	42.	4.4	5.3
%RSD	.29909	.39084	.09916	.05665
#1	110150.	10633.	4474.1	9308.8
#2	110510.	10667.	4473.0	9298.4
#3	110810.	10584.	4465.9	9302.2

Zoom In Zoom Out

Sample Name: jc85430-1 Acquired: 4/3/2019 16:14:47 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2355**	**.0030**	**.0020**	**.0384**	**.3034**	**.4994**	**1.124**	**.1156**	**.0011**
Stddev	.0002	.0001	.0001	.0002	.0011	.0008	.002	.0002	.0003
%RSD	.0691	2.267	2.958	.4054	.3493	.1608	.1838	.1871	27.75
#1	.2353	.0030	.0020	.0382	.3030	.4991	1.122	.1156	.0014
#2	.2357	.0029	.0019	.0385	.3026	.4988	1.124	.1158	.0009
#3	.2354	.0029	.0020	.0384	.3046	.5003	1.126	.1154	.0010

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1242**	**.9297**	**.1002**	**-.0001**	**.7196**	**.0026**	**.0033**	**48.82**	**10.22**
Stddev	.0003	.0017	.0010	.0006	.0031	.0005	.0003	.08	.02
%RSD	.2266	.1796	.9862	486.1	.4284	20.43	8.685	.1589	.2411
#1	.1245	.9317	.0991	.0000	.7161	.0025	.0031	48.83	10.21
#2	.1240	.9285	.1004	-.0007	.7221	.0032	.0036	48.89	10.24
#3	.1241	.9291	.1010	.0003	.7205	.0022	.0032	48.74	10.19

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**103.7**	**18.75**	**9.071**	**8.425**	**.0530**	**.0038**	**1.628**	**.2037**	**.1071**
Stddev	.3	.04	.040	.012	.0003	.0002	.009	.0011	.0003
%RSD	.3358	.1972	.4459	.1456	.4994	5.843	.5654	.5446	.2813
#1	104.1	18.79	9.117	8.416	.0528	.0039	1.633	.2032	.1074
#2	103.6	18.73	9.041	8.439	.0533	.0041	1.633	.2050	.1068
#3	103.4	18.73	9.056	8.419	.0528	.0036	1.617	.2030	.1070

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.478**	**.0064**	**.0349**	**37.09**	**.0043**	**.0985**	**2.931**
Stddev	.002	.0007	.0004	.06	.0005	.0015	.018
%RSD	.1239	10.78	1.129	.1518	12.46	1.498	.6122
#1	1.476	.0056	.0354	37.06	.0045	.0971	2.919
#2	1.478	.0068	.0347	37.15	.0037	.1000	2.951
#3	1.480	.0068	.0347	37.05	.0047	.0984	2.922

Zoom In Zoom Out

Sample Name: jc85430-1 Acquired: 4/3/2019 16:14:47 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110730.**	**10875.**	**4472.1**	**9248.6**
Stddev	352.	19.	3.1	14.0
%RSD	.31798	.17879	.06956	.15176
#1	110950.	10854.	4470.9	9261.0
#2	110910.	10892.	4475.6	9251.3
#3	110320.	10879.	4469.8	9233.4

Zoom In Zoom Out

Sample Name: jc85430-2 Acquired: 4/3/2019 16:19:59 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2402**	**.0039**	**.0015**	**.0511**	**.4425**	**.6716**	**1.133**	**.1630**	**.0015**
Stddev	.0004	.0000	.0001	.0001	.0010	.0018	.002	.0002	.0004
%RSD	.1484	.5426	7.712	.1397	.2266	.2645	.1450	.1461	26.80
#1	.2399	.0039	.0015	.0512	.4437	.6697	1.134	.1629	.0019
#2	.2406	.0039	.0013	.0512	.4422	.6733	1.131	.1633	.0011
#3	.2401	.0039	.0015	.0511	.4418	.6718	1.132	.1628	.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1658**	**1.051**	**.1849**	**-.0004**	**.8544**	**.0027**	**.0117**	**66.67**	**10.57**
Stddev	.0004	.002	.0019	.0006	.0031	.0007	.0006	.13	.04
%RSD	.2608	.2111	1.042	133.2	.3619	27.02	4.731	.2021	.3356
#1	.1655	1.053	.1838	.0002	.8577	.0024	.0121	66.80	10.58
#2	.1656	1.051	.1871	-.0007	.8539	.0021	.0111	66.53	10.53
#3	.1663	1.048	.1838	-.0008	.8515	.0035	.0121	66.68	10.59

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**134.9**	**24.40**	**11.94**	**7.972**	**.0652**	**.0067**	**1.626**	**.2318**	**.1107**
Stddev	.1	.14	.01	.012	.0009	.0001	.012	.0004	.0008
%RSD	.0976	.5808	.0859	.1490	1.335	.7717	.7346	.1790	.6822
#1	134.8	24.40	11.95	7.984	.0644	.0068	1.637	.2313	.1099
#2	134.9	24.27	11.94	7.961	.0651	.0067	1.613	.2319	.1109
#3	135.1	24.55	11.93	7.971	.0661	.0067	1.629	.2321	.1114

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.641**	**.0057**	**.0477**	**66.93**	**.0070**	**.1326**	**2.155**
Stddev	.002	.0004	.0002	.14	.0006	.0008	.005
%RSD	.1287	7.073	.4072	.2064	9.127	.6222	.2437
#1	1.644	.0053	.0478	66.77	.0063	.1320	2.149
#2	1.640	.0058	.0474	67.00	.0075	.1322	2.160
#3	1.640	.0061	.0477	67.01	.0073	.1335	2.155

Zoom In Zoom Out

Sample Name: jc85430-2 Acquired: 4/3/2019 16:19:59 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111300.**	**10951.**	**4489.9**	**9208.5**
Stddev	186.	64.	1.3	1.8
%RSD	.16700	.58766	.02797	.01962
#1	111130.	10937.	4491.3	9210.5
#2	111490.	11022.	4488.8	9207.0
#3	111270.	10896.	4489.6	9207.9

Zoom In Zoom Out

Sample Name: jc85456-27 Acquired: 4/3/2019 16:25:09 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2135**	**.0025**	**.0002**	**.0346**	**.1015**	**.0640**	**2.267**	**.0820**	**.0003**
Stddev	.0005	.0001	.0001	.0003	.0005	.0003	.003	.0005	.0003
%RSD	.2456	2.410	44.36	.7834	.5375	.4944	.1246	.6241	120.2
#1	.2133	.0024	.0001	.0343	.1017	.0642	2.268	.0826	.0002
#2	.2141	.0025	.0003	.0347	.1019	.0636	2.269	.0817	.0006
#3	.2131	.0025	.0003	.0348	.1009	.0641	2.264	.0818	-.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1606**	**.2459**	**.0292**	**-.0003**	**.0984**	**-.0003**	**.0003**	**52.62**	**27.79**
Stddev	.0005	.0001	.0005	.0009	.0002	.0010	.0011	.07	.05
%RSD	.3156	.0523	1.661	321.8	.1615	340.0	323.0	.1299	.1653
#1	.1602	.2461	.0294	-.0013	.0982	.0008	.0013	52.58	27.83
#2	.1605	.2458	.0286	.0002	.0985	-.0010	-.0009	52.70	27.79
#3	.1612	.2459	.0295	.0003	.0984	-.0007	.0006	52.58	27.74

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**95.98**	**25.71**	**13.67**	**6.012**	**.0310**	**.0126**	**1.324**	**.0433**	**.1585**
Stddev	.20	.05	.04	.017	.0001	.0001	.005	.0004	.0001
%RSD	.2121	.2007	.3169	.2844	.3505	.7869	.3458	.9813	.0585
#1	96.14	25.72	13.66	6.016	.0309	.0126	1.324	.0436	.1586
#2	96.06	25.75	13.72	6.028	.0311	.0127	1.319	.0433	.1586
#3	95.75	25.65	13.63	5.994	.0310	.0125	1.328	.0428	.1584

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.582**	**.0052**	**.0408**	**36.55**	**.0019**	**.1335**	**2.206**
Stddev	.003	.0002	.0001	.09	.0007	.0016	.004
%RSD	.1107	4.389	.3060	.2507	35.67	1.196	.1737
#1	2.581	.0053	.0407	36.64	.0023	.1325	2.210
#2	2.585	.0049	.0408	36.55	.0023	.1354	2.205
#3	2.580	.0053	.0409	36.45	.0011	.1326	2.203

Zoom In Zoom Out

Sample Name: jc85456-27 Acquired: 4/3/2019 16:25:09 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109350.**	**10828.**	**4435.7**	**9130.5**
Stddev	471.	47.	2.9	6.4
%RSD	.43095	.43609	.06568	.07028
#1	109390.	10785.	4433.0	9126.8
#2	108860.	10821.	4438.8	9126.9
#3	109790.	10879.	4435.3	9138.0

Zoom In Zoom Out

Sample Name: jc85494-4 Acquired: 4/3/2019 16:30:22 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0289**	**.0019**	**-.0007**	**-.0011**	**1.024**	**.0374**	**.0196**	**.0077**	**-.0048**
Stddev	.0005	.0002	.0004	.0005	.003	.0004	.0002	.0004	.0018
%RSD	1.616	9.320	54.08	42.32	.3083	1.071	1.223	5.107	36.88
#1	.0292	.0018	-.0003	-.0016	1.023	.0370	.0194	.0074	-.0068
#2	.0292	.0018	-.0011	-.0007	1.021	.0375	.0198	.0076	-.0033
#3	.0284	.0021	-.0007	-.0011	1.027	.0378	.0197	.0082	-.0043

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2660**	**.0502**	**.1169**	**.0004**	**.0307**	**.0083**	**.0008**	**21.24**	**.7605**
Stddev	.0026	.0004	.0018	.0029	.0017	.0033	.0023	.15	.0196
%RSD	.9719	.8627	1.560	762.1	5.388	39.74	295.4	.6967	2.577
#1	.2682	.0498	.1182	.0035	.0304	.0120	.0004	21.08	.7379
#2	.2665	.0501	.1148	-.0003	.0292	.0070	.0033	21.37	.7720
#3	.2632	.0507	.1176	-.0021	.0325	.0058	-.0013	21.28	.7718

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**324.8**	**2.547**	**6.239**	**.7474**	**.0370**	**.1011**	**1.786**	**.0214**	**.0122**
Stddev	3.4	.068	.111	.0103	.0013	.0013	.022	.0012	.0002
%RSD	1.051	2.682	1.783	1.377	3.421	1.244	1.257	5.647	1.851
#1	321.0	2.471	6.115	.7359	.0385	.1004	1.769	.0205	.0120
#2	327.7	2.566	6.329	.7559	.0365	.1004	1.778	.0208	.0125
#3	325.8	2.604	6.274	.7504	.0361	.1026	1.811	.0227	.0122

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7630**	**.0077**	**.1140**	**3.989**	**.0170**	**.0046**	**.6080**
Stddev	.0030	.0003	.0004	.028	.0004	.0007	.0068
%RSD	.3953	3.973	.3573	.7102	2.609	14.93	1.114
#1	.7628	.0081	.1138	3.963	.0166	.0041	.6023
#2	.7601	.0075	.1144	3.984	.0175	.0054	.6063
#3	.7661	.0076	.1137	4.019	.0169	.0043	.6155

Zoom In Zoom Out

Sample Name: jc85494-4 Acquired: 4/3/2019 16:30:22 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109640.**	**10527.**	**4374.3**	**9517.0**
Stddev	508.	17.	28.7	62.1
%RSD	.46365	.16226	.65640	.65229
#1	109710.	10543.	4390.8	9550.8
#2	109100.	10530.	4391.0	9554.8
#3	110110.	10509.	4341.2	9445.3

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 16:35:42 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.986**	**1.971**	**2.008**	**1.990**	**1.990**	**1.950**	**1.995**	**2.002**	**.2457**
Stddev	.004	.002	.030	.029	.003	.000	.002	.030	.0003
%RSD	.1764	.0990	1.508	1.436	.1288	.0221	.1140	1.488	.1103
#1	1.986	1.972	1.995	1.978	1.987	1.951	1.995	1.987	.2454
#2	1.990	1.969	1.986	1.969	1.992	1.950	1.997	1.982	.2459
#3	1.983	1.972	2.042	2.022	1.992	1.950	1.993	2.036	.2457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.958**	**2.009**	**2.005**	**2.060**	**2.012**	**1.999**	**2.022**	**39.24**	**39.51**
Stddev	.004	.033	.030	.030	.030	.030	.034	.06	.07
%RSD	.1918	1.645	1.495	1.461	1.516	1.485	1.692	.1482	.1738
#1	1.955	1.992	1.994	2.043	1.996	1.991	2.011	39.29	39.57
#2	1.962	1.987	1.982	2.042	1.992	1.973	1.995	39.17	39.44
#3	1.958	2.047	2.039	2.094	2.047	2.031	2.060	39.25	39.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.50**	**38.71**	**39.16**	**39.19**	**2.046**	**2.031**	**5.090**	**2.051**	**1.977**
Stddev	.10	.11	.04	.02	.029	.031	.073	.033	.002
%RSD	.2632	.2782	.0981	.0632	1.424	1.539	1.437	1.598	.0929
#1	39.45	38.70	39.15	39.21	2.033	2.017	5.061	2.038	1.976
#2	39.43	38.60	39.12	39.16	2.025	2.010	5.035	2.026	1.979
#3	39.62	38.82	39.20	39.19	2.079	2.067	5.173	2.088	1.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 16:35:42 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.984**	**2.003**	**1.985**	**2.012**	**2.024**	**1.961**	**2.016**
Stddev	.003	.030	.001	.024	.030	.003	.028
%RSD	.1535	1.482	.0716	1.206	1.474	.1398	1.374
#1	1.981	1.988	1.985	2.008	2.013	1.962	2.000
#2	1.987	1.983	1.986	1.990	2.002	1.964	2.000
#3	1.985	2.037	1.983	2.038	2.058	1.959	2.048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105330.**	**10280.**	**4254.6**	**8696.3**
Stddev	149.	47.	62.1	118.8
%RSD	.14164	.45443	1.4595	1.3662
#1	105470.	10274.	4284.4	8755.6
#2	105170.	10330.	4296.1	8773.9
#3	105350.	10237.	4183.2	8559.5

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 16:40:43 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	F **.0003**	**.0004**	**.0003**	**-.0000**	**-.0003**	**.0002**	**.0004**	**-.0001**
Stddev	.0002	.0001	.0001	.0001	.0003	.0003	.0000	.0002	.0004
%RSD	56.39	23.68	18.17	33.40	690.3	106.1	15.45	50.80	412.3
#1	.0005	.0002	.0004	.0003	-.0002	-.0007	.0002	.0005	-.0006
#2	.0004	.0002	.0003	.0003	.0003	-.0001	.0002	.0002	.0003
#3	.0001	.0003	.0003	.0002	-.0003	-.0001	.0002	.0004	-.0000
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0001**	**-.0002**	**-.0003**	**.0003**	**.0005**	**.0002**	**.0004**	**.0003**
Stddev	.0002	.0000	.0003	.0007	.0009	.0003	.0014	.0006	.0016
%RSD	62.83	42.66	167.3	192.2	329.3	50.83	793.7	139.8	628.7
#1	.0003	.0001	-.0001	.0004	-.0004	.0004	-.0011	.0010	.0012
#2	.0007	.0000	.0001	-.0005	-.0001	.0008	.0001	-.0001	.0012
#3	.0002	.0001	-.0005	-.0010	.0013	.0003	.0016	.0004	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084**	**.0062**	**.0216**	**.0020**	**.0005**	**.0005**	**.0013**	**-.0003**	**.0001**
Stddev	.0072	.0123	.0223	.0083	.0004	.0002	.0001	.0005	.0001
%RSD	85.58	200.0	103.1	413.0	84.51	37.99	6.683	153.9	92.80
#1	.0094	.0019	-.0041	-.0075	.0009	.0006	.0012	-.0000	.0000
#2	.0008	-.0035	.0350	.0078	.0000	.0003	.0014	-.0001	.0001
#3	.0150	.0200	.0339	.0056	.0006	.0006	.0012	-.0010	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 16:40:43 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0013**	**.0003**	**.0002**	**-.0001**	**.0011**	**.0014**
Stddev	.0003	.0004	.0001	.0025	.0009	.0014	.0003
%RSD	255.3	30.62	28.68	1177.	833.6	125.4	25.56
#1	-.0004	.0013	.0002	.0008	-.0010	-.0004	.0018
#2	-.0001	.0017	.0002	-.0025	-.0003	.0013	.0012
#3	.0001	.0009	.0004	.0023	.0009	.0023	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110740.**	**10356.**	**4429.1**	**9765.8**
Stddev	169.	41.	3.1	10.1
%RSD	.15224	.39417	.06894	.10299
#1	110660.	10315.	4425.8	9755.8
#2	110630.	10356.	4431.7	9775.9
#3	110930.	10397.	4429.9	9765.8

Zoom In Zoom Out

Sample Name: icsa Acquired: 4/3/2019 16:46:12 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0003**	**-.0004**	**-.0009**	**.0005**	**.0033**	**-.0022**	**.0006**	**-.0029**
Stddev	.0002	.0000	.0001	.0002	.0002	.0003	.0001	.0003	.0004
%RSD	66.84	14.05	27.40	26.36	35.87	9.362	5.544	43.13	12.52
#1	-.0002	.0003	-.0005	-.0010	.0007	.0030	-.0024	.0006	-.0026
#2	-.0005	.0002	-.0003	-.0012	.0005	.0036	-.0021	.0009	-.0033
#3	-.0002	.0003	-.0004	-.0007	.0003	.0031	-.0022	.0004	-.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**-.0019**	**-.0006**	**-.0011**	**.0016**	**-.0036**	**.0029**	**503.3**	**387.7**
Stddev	.0005	.0003	.0018	.0016	.0005	.0019	.0018	.1	.6
%RSD	39.22	15.49	332.1	149.4	31.45	53.15	61.61	.0274	.1492
#1	.0016	-.0021	.0010	-.0004	.0012	-.0020	.0021	503.1	387.6
#2	.0008	-.0020	-.0026	-.0030	.0022	-.0057	.0050	503.3	388.4
#3	.0018	-.0015	-.0000	.0000	.0015	-.0032	.0017	503.4	387.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**191.8**	**491.3**	**-.4097**	**-.0069**	**-.0073**	**-.0012**	**-.0100**	**-.0017**	**-.0031**
Stddev	.2	1.2	.0183	.0087	.0013	.0004	.0004	.0006	.0001
%RSD	.1059	.2444	4.474	126.5	18.27	33.30	3.800	36.12	1.716
#1	191.6	491.2	-.3904	.0031	-.0082	-.0013	-.0101	-.0017	-.0032
#2	192.0	492.5	-.4117	-.0129	-.0080	-.0008	-.0095	-.0023	-.0031
#3	191.8	490.1	-.4269	-.0109	-.0058	-.0016	-.0103	-.0011	-.0031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icsa Acquired: 4/3/2019 16:46:12 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**.0121**	**-.0020**	**-.0041**	**.0085**	**-.0116**	**.0024**
Stddev	.0001	.0012	.0001	.0017	.0006	.0012	.0014
%RSD	9.961	9.629	5.423	40.45	7.369	10.65	59.00
#1	-.0012	.0108	-.0021	-.0024	.0085	-.0128	.0039
#2	-.0010	.0125	-.0019	-.0057	.0079	-.0104	.0021
#3	-.0011	.0131	-.0019	-.0042	.0092	-.0116	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96892.**	**10027.**	**3954.9**	**7681.0**
Stddev	28.	24.	2.5	3.4
%RSD	.02908	.23954	.06304	.04444
#1	96924.	10034.	3954.4	7683.4
#2	96879.	10001.	3957.6	7677.1
#3	96872.	10047.	3952.8	7682.5

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2019 16:51:26 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5031**	**.4849**	**1.006**	**.4819**	**.4753**	**.4972**	**.4848**	**.9644**	**1.019**
Stddev	.0005	.0005	.003	.0003	.0019	.0018	.0009	.0009	.003
%RSD	.1076	.0942	.2949	.0533	.3911	.3548	.1770	.0912	.3014
#1	.5029	.4848	1.008	.4820	.4773	.4964	.4848	.9644	1.023
#2	.5037	.4854	1.003	.4821	.4737	.4993	.4839	.9653	1.018
#3	.5026	.4846	1.008	.4816	.4749	.4960	.4856	.9636	1.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4813**	**.9269**	**1.063**	**.9869**	**.9591**	**1.037**	**1.062**	**506.7**	**382.6**
Stddev	.0013	.0001	.002	.0033	.0037	.004	.002	1.4	.9
%RSD	.2777	.0126	.1454	.3355	.3831	.4299	.2061	.2721	.2300
#1	.4803	.9268	1.064	.9907	.9603	1.042	1.062	506.0	382.2
#2	.4828	.9269	1.061	.9853	.9549	1.033	1.060	508.3	383.6
#3	.4808	.9270	1.064	.9847	.9619	1.036	1.064	505.7	382.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**185.4**	**491.8**	**-.4438**	**.0101**	**.4772**	**.4821**	**.5223**	**.4536**	**.5531**
Stddev	.5	1.3	.0176	.0039	.0015	.0009	.0025	.0020	.0009
%RSD	.2703	.2643	3.959	38.52	.3200	.1809	.4710	.4439	.1689
#1	185.3	491.3	-.4360	.0098	.4787	.4830	.5211	.4557	.5522
#2	186.0	493.3	-.4640	.0064	.4772	.4812	.5207	.4517	.5541
#3	185.0	490.9	-.4316	.0142	.4756	.4821	.5251	.4534	.5530
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 4/3/2019 16:51:26 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4829**	**.4715**	**.5094**	**.4773**	**.4931**	**.5066**	**.5112**
Stddev	.0007	.0018	.0005	.0025	.0018	.0008	.0041
%RSD	.1517	.3892	.1048	.5191	.3585	.1577	.8080
#1	.4837	.4727	.5088	.4760	.4947	.5057	.5146
#2	.4829	.4694	.5096	.4758	.4912	.5067	.5066
#3	.4822	.4725	.5098	.4802	.4933	.5073	.5125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97129.**	**9954.1**	**3962.2**	**7686.9**
Stddev	423.	36.9	4.9	4.1
%RSD	.43532	.37037	.12466	.05335
#1	96729.	9977.7	3960.2	7684.5
#2	97571.	9911.6	3967.8	7684.6
#3	97087.	9972.9	3958.6	7691.6

Zoom In Zoom Out

Sample Name: jc85419-2 Acquired: 4/3/2019 16:56:31 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5166**	**.0053**	**.0007**	**.0673**	**1.928**	**.3873**	**13.95**	**.1568**	**-.0004**
Stddev	.0013	.0001	.0003	.0004	.004	.0006	.03	.0010	.0006
%RSD	.2541	1.054	37.20	.6643	.1901	.1557	.2466	.6400	154.7
#1	.5165	.0053	.0006	.0678	1.929	.3866	13.92	.1580	-.0010
#2	.5153	.0053	.0006	.0669	1.930	.3878	13.99	.1563	.0002
#3	.5179	.0054	.0011	.0671	1.924	.3875	13.93	.1562	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4902**	**.5951**	**.1039**	**.0000**	**.2324**	**-.0022**	**.0096**	**99.24**	**162.2**
Stddev	.0012	.0007	.0023	.0025	.0015	.0026	.0013	.14	.3
%RSD	.2517	.1209	2.199	10840.	.6421	115.0	13.59	.1400	.1804
#1	.4898	.5959	.1015	-.0004	.2334	-.0052	.0103	99.17	161.9
#2	.4916	.5944	.1061	-.0022	.2330	-.0006	.0081	99.40	162.3
#3	.4893	.5951	.1040	.0027	.2307	-.0009	.0104	99.16	162.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**270.7**	**56.08**	**6.467**	**4.729**	**.2391**	**.0159**	**2.989**	**.0369**	**.4158**
Stddev	.5	.04	.065	.013	.0008	.0002	.014	.0002	.0008
%RSD	.1973	.0797	1.006	.2736	.3183	1.283	.4558	.6650	.1996
#1	270.1	56.12	6.392	4.714	.2383	.0157	3.001	.0370	.4152
#2	270.8	56.10	6.500	4.737	.2398	.0160	2.991	.0370	.4168
#3	271.1	56.03	6.509	4.736	.2393	.0161	2.974	.0366	.4156

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.466**	**.0353**	**.1586**	**8.251**	**.0078**	**.1025**	**3.555**
Stddev	.009	.0006	.0002	.011	.0011	.0009	.005
%RSD	.1611	1.701	.1036	.1367	14.16	.8478	.1293
#1	5.476	.0348	.1588	8.239	.0076	.1033	3.559
#2	5.466	.0351	.1585	8.253	.0090	.1016	3.556
#3	5.458	.0359	.1584	8.261	.0068	.1026	3.550

Zoom In Zoom Out

Sample Name: jc85419-2 Acquired: 4/3/2019 16:56:31 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109360.**	**10684.**	**4372.0**	**8991.2**
Stddev	135.	39.	2.1	10.5
%RSD	.12389	.36685	.04845	.11690
#1	109500.	10726.	4369.6	8981.3
#2	109330.	10676.	4373.7	8990.0
#3	109230.	10649.	4372.8	9002.2

Zoom In Zoom Out

Sample Name: mp13761-b1 Acquired: 4/3/2019 17:01:52 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.898**	**1.894**	**1.890**	**1.874**	**1.885**	**1.866**	**1.899**	**1.879**
Stddev	.006	.006	.004	.003	.006	.006	.004	.001
%RSD	.3445	.3115	.1843	.1600	.3160	.3002	.2245	.0547
#1	1.890	1.887	1.893	1.877	1.887	1.872	1.902	1.879
#2	1.902	1.897	1.886	1.872	1.878	1.862	1.894	1.881
#3	1.901	1.897	1.889	1.872	1.890	1.863	1.900	1.879

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2373**	**1.863**	**1.915**	**1.896**	**1.960**	**1.891**	**1.855**	**1.922**
Stddev	.0011	.005	.003	.002	.003	.003	.002	.003
%RSD	.4648	.2924	.1637	.1169	.1624	.1306	.0804	.1325
#1	.2379	1.869	1.917	1.897	1.960	1.890	1.856	1.925
#2	.2361	1.858	1.916	1.894	1.957	1.894	1.856	1.921
#3	.2380	1.863	1.911	1.898	1.963	1.890	1.854	1.920

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.15**	**24.54**	**24.67**	**23.94**	**24.00**	**24.25**	**1.868**	**1.962**
Stddev	.10	.09	.09	.09	.08	.07	.003	.001
%RSD	.4207	.3748	.3779	.3774	.3523	.2866	.1531	.0571
#1	24.04	24.45	24.56	23.87	23.92	24.17	1.869	1.963
#2	24.17	24.54	24.74	23.90	23.99	24.29	1.870	1.961
#3	24.24	24.63	24.71	24.04	24.09	24.29	1.864	1.961

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1686**	**1.992**	**1.892**	**1.901**	**1.774**	**1.898**	F **-.0729**	**-.0008**
Stddev	.0013	.002	.006	.005	.004	.003	.0007	.0005
%RSD	.7568	.1114	.3155	.2775	.2485	.1574	1.025	57.59
#1	.1672	1.993	1.885	1.905	1.779	1.901	-.0732	-.0007
#2	.1690	1.994	1.896	1.895	1.772	1.895	-.0735	-.0013
#3	.1696	1.990	1.894	1.903	1.771	1.899	-.0721	-.0004

Zoom In Zoom Out

Sample Name: mp13761-b1 Acquired: 4/3/2019 17:01:52 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0021**	**1.916**
Stddev	.0014	.003
%RSD	67.01	.1664
#1	-.0005	1.912
#2	-.0027	1.918
#3	-.0031	1.917

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107740.**	**10406.**	**4305.6**	**8960.2**
Stddev	338.	50.	8.4	12.4
%RSD	.31327	.47784	.19524	.13868
#1	107720.	10436.	4299.6	8955.3
#2	108090.	10434.	4302.0	8951.0
#3	107420.	10349.	4315.2	8974.3

Zoom In Zoom Out

Sample Name: mp13761-mb1 Acquired: 4/3/2019 17:06:53 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0001**	**.0002**	**-.0000**	**.0011**	**.0009**	**.0006**	**.0004**	**-.0003**
Stddev	.0001	.0000	.0000	.0001	.0003	.0003	.0001	.0002	.0004
%RSD	49.66	46.99	11.91	758.4	23.31	40.17	8.536	50.60	119.8
#1	.0003	.0000	.0002	-.0002	.0013	.0006	.0007	.0002	-.0001
#2	.0003	.0001	.0002	.0001	.0011	.0007	.0007	.0007	-.0001
#3	.0001	.0000	.0002	-.0000	.0008	.0012	.0006	.0004	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0020**	**-.0009**	**-.0001**	**.0004**	**.0009**	**-.0007**	**.0193**	**.0629**
Stddev	.0004	.0001	.0012	.0006	.0004	.0007	.0003	.0066	.0026
%RSD	477.1	3.208	133.2	823.1	100.0	78.48	49.92	34.25	4.175
#1	.0004	.0021	-.0012	.0002	.0005	.0015	-.0005	.0128	.0651
#2	-.0003	.0021	.0004	.0004	.0008	.0010	-.0010	.0260	.0636
#3	.0001	.0020	-.0020	-.0008	-.0000	.0001	-.0005	.0191	.0600

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0362**	**.0006**	**.0260**	**.0546**	**.0012**	**.0005**	**.0134**	**.0196**	**.0003**
Stddev	.0076	.0094	.0052	.0043	.0007	.0001	.0003	.0003	.0001
%RSD	20.98	1611.	19.94	7.896	60.46	17.13	2.341	1.289	27.10
#1	.0429	.0106	.0320	.0498	.0020	.0006	.0131	.0193	.0004
#2	.0279	-.0008	.0230	.0559	.0010	.0006	.0136	.0197	.0003
#3	.0378	-.0080	.0231	.0582	.0006	.0004	.0137	.0197	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0036**	**.0008**	**.0064**	**-.0015**	**-.0014**	**.0232**
Stddev	.0004	.0003	.0000	.0014	.0016	.0004	.0008
%RSD	50.31	7.896	4.175	21.47	106.8	28.21	3.589
#1	.0009	.0035	.0007	.0060	.0002	-.0016	.0224
#2	.0009	.0034	.0008	.0080	-.0029	-.0010	.0241
#3	.0003	.0039	.0007	.0053	-.0018	-.0017	.0231

Zoom In Zoom Out

Sample Name: mp13761-mb1 Acquired: 4/3/2019 17:06:53 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112800.**	**10590.**	**4443.8**	**9802.1**
Stddev	91.	44.	4.5	13.4
%RSD	.08051	.41400	.10154	.13713
#1	112700.	10583.	4447.1	9814.8
#2	112800.	10551.	4438.6	9788.0
#3	112880.	10637.	4445.5	9803.6

Zoom In Zoom Out

Sample Name: mp13761-s1 Acquired: 4/3/2019 17:12:20 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.682**	**1.825**	**1.853**	**1.900**	**1.933**	**2.001**	**5.790**	**1.955**	**.2362**
Stddev	.004	.003	.002	.002	.006	.003	.011	.001	.0004
%RSD	.1358	.1479	.1006	.1002	.3208	.1344	.1958	.0587	.1765
#1	2.682	1.823	1.852	1.901	1.931	2.003	5.795	1.955	.2360
#2	2.678	1.824	1.855	1.901	1.940	2.003	5.798	1.956	.2367
#3	2.685	1.828	1.853	1.898	1.929	1.998	5.777	1.954	.2359

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.057**	**2.214**	**1.856**	**1.926**	**2.183**	**1.799**	**1.182**	**131.5**	**37.82**
Stddev	.003	.005	.004	.003	.001	.002	.004	.1	.03
%RSD	.1560	.2131	.2026	.1788	.0454	.1265	.3689	.0580	.0852
#1	2.058	2.214	1.858	1.922	2.183	1.800	1.181	131.4	37.81
#2	2.059	2.219	1.859	1.928	2.181	1.801	1.186	131.5	37.85
#3	2.053	2.209	1.852	1.929	2.183	1.797	1.177	131.6	37.79

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**138.9**	**47.65**	**36.71**	**24.66**	**1.812**	**1.814**	**2.071**	**1.943**	**1.887**
Stddev	.1	.21	.05	.03	.005	.004	.002	.002	.002
%RSD	.0462	.4367	.1274	.1170	.2801	.2344	.0876	.1059	.1250
#1	138.8	47.41	36.65	24.69	1.810	1.813	2.069	1.943	1.888
#2	138.8	47.79	36.74	24.63	1.818	1.819	2.073	1.944	1.884
#3	138.9	47.74	36.73	24.66	1.809	1.810	2.070	1.940	1.889

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.558**	**.9462**	**1.446**	**1.173**	**.0036**	**.0971**	**6.768**
Stddev	.010	.0023	.002	.002	.0021	.0013	.003
%RSD	.1557	.2446	.1313	.1298	56.57	1.311	.0486
#1	6.559	.9436	1.444	1.174	.0024	.0966	6.772
#2	6.567	.9481	1.448	1.174	.0060	.0986	6.766
#3	6.547	.9467	1.445	1.171	.0025	.0962	6.766

Zoom In Zoom Out

Sample Name: mp13761-s1 Acquired: 4/3/2019 17:12:20 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109390.**	**10896.**	**4448.0**	**8818.0**
Stddev	175.	76.	6.3	2.9
%RSD	.15969	.69878	.14183	.03326
#1	109400.	10971.	4450.8	8820.6
#2	109210.	10818.	4440.8	8814.8
#3	109550.	10899.	4452.5	8818.6

Zoom In Zoom Out

Sample Name: mp13761-s2 Acquired: 4/3/2019 17:17:18 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.779**	**1.823**	**1.853**	**1.906**	**1.915**	**1.982**	**6.034**	**1.964**	**.2351**
Stddev	.009	.007	.016	.013	.054	.057	.149	.015	.0057
%RSD	.3403	.4136	.8628	.6540	2.810	2.862	2.470	.7632	2.439
#1	2.788	1.832	1.864	1.918	1.863	1.923	5.894	1.978	.2288
#2	2.781	1.822	1.834	1.893	1.911	1.989	6.017	1.948	.2366
#3	2.769	1.817	1.861	1.909	1.970	2.035	6.191	1.967	.2400

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.013**	**2.241**	**1.860**	**1.921**	**2.214**	**1.796**	**1.172**	**137.8**	**37.17**
Stddev	.056	.021	.019	.012	.017	.016	.012	.5	.12
%RSD	2.799	.9255	1.004	.6405	.7550	.9115	.9788	.3702	.3179
#1	1.957	2.259	1.876	1.928	2.230	1.807	1.185	138.1	37.24
#2	2.012	2.219	1.840	1.907	2.196	1.778	1.162	138.0	37.23
#3	2.069	2.245	1.866	1.928	2.217	1.805	1.170	137.2	37.03

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**139.5**	**47.16**	**36.53**	**24.64**	**1.816**	**1.823**	**2.104**	**1.956**	**1.890**
Stddev	.5	.29	.14	.10	.016	.016	.016	.016	.009
%RSD	.3789	.6210	.3752	.3932	.8820	.8631	.7449	.8268	.4494
#1	140.1	47.37	36.68	24.74	1.829	1.835	2.113	1.969	1.899
#2	139.4	47.28	36.50	24.65	1.798	1.805	2.086	1.938	1.891
#3	139.1	46.82	36.41	24.54	1.819	1.829	2.113	1.961	1.882

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.176**	**1.029**	**1.374**	**1.285**	**.0036**	**.1004**	**7.481**
Stddev	.172	.008	.040	.011	.0001	.0009	.073
%RSD	2.781	.7431	2.880	.8655	3.496	.8679	.9798
#1	6.004	1.034	1.335	1.294	.0037	.1011	7.540
#2	6.179	1.020	1.373	1.272	.0037	.1007	7.399
#3	6.347	1.032	1.414	1.288	.0035	.0994	7.504

Zoom In Zoom Out

Sample Name: mp13761-s2 Acquired: 4/3/2019 17:17:18 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110410.**	**10893.**	**4434.4**	**8778.9**
Stddev	2421.	41.	32.0	50.8
%RSD	2.1931	.37588	.72134	.57896
#1	112820.	10905.	4412.3	8742.2
#2	110430.	10847.	4471.1	8836.9
#3	107980.	10926.	4419.8	8757.7

Zoom In Zoom Out

Sample Name: jc85321-4 Acquired: 4/3/2019 17:22:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8323**	**.0046**	**.0011**	**.0463**	**.1047**	**.1513**	**4.078**	**.0919**	**.0007**
Stddev	.0217	.0000	.0001	.0001	.0005	.0003	.007	.0004	.0008
%RSD	2.608	1.025	12.72	.2292	.4971	.1738	.1623	.4388	115.6
#1	.8573	.0045	.0010	.0464	.1041	.1516	4.078	.0924	.0016
#2	.8201	.0046	.0010	.0462	.1051	.1511	4.084	.0917	.0000
#3	.8194	.0046	.0012	.0463	.1047	.1513	4.071	.0917	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2285**	**.4107**	**.0213**	**.0005**	**.3132**	**-.0004**	**.0080**	**88.18**	**11.50**
Stddev	.0002	.0012	.0018	.0015	.0014	.0022	.0008	2.36	.30
%RSD	.0876	.2818	8.621	309.8	.4577	583.4	10.36	2.676	2.569
#1	.2287	.4117	.0233	.0010	.3146	-.0027	.0089	90.90	11.84
#2	.2285	.4108	.0211	-.0012	.3134	.0002	.0073	86.73	11.32
#3	.2283	.4094	.0196	.0016	.3117	.0015	.0079	86.90	11.33

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**116.4**	**22.90**	**7.485**	**.8024**	**.0373**	**.0033**	**1.430**	**.3110**	**.0532**
Stddev	3.3	.57	.191	.0244	.0003	.0002	.004	.0007	.0013
%RSD	2.823	2.468	2.546	3.038	.9294	6.728	.3066	.2185	2.479
#1	120.2	23.55	7.705	.8305	.0369	.0036	1.425	.3105	.0547
#2	114.6	22.63	7.384	.7892	.0374	.0031	1.433	.3118	.0526
#3	114.4	22.51	7.367	.7875	.0375	.0033	1.432	.3107	.0522

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.605**	**.0079**	**.0048**	**1.202**	**.0019**	**.0963**	**5.084**
Stddev	.005	.0009	.0002	.003	.0015	.0038	.013
%RSD	.1386	11.20	3.725	.2062	78.81	3.977	.2551
#1	3.600	.0070	.0050	1.199	.0015	.1007	5.078
#2	3.610	.0079	.0046	1.203	.0035	.0942	5.098
#3	3.605	.0088	.0048	1.203	.0006	.0940	5.074

Zoom In Zoom Out

Sample Name: jc85321-4 Acquired: 4/3/2019 17:22:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111910.**	**10872.**	**4550.1**	**9245.6**
Stddev	180.	302.	6.3	7.5
%RSD	.16071	2.7804	.13892	.08112
#1	111970.	10524.	4551.2	9236.9
#2	111710.	11031.	4543.3	9249.4
#3	112050.	11062.	4555.8	9250.4

Zoom In Zoom Out

Sample Name: mp13761-sd1 Acquired: 4/3/2019 17:27:35 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8646**	**.0049**	**.0019**	**.0461**	**.1098**	**.1558**	**4.332**	**.0939**	**.0014**
Stddev	.0082	.0002	.0010	.0007	.0012	.0016	.020	.0010	.0006
%RSD	.9520	4.736	52.29	1.476	1.087	1.057	.4615	1.063	42.51
#1	.8735	.0048	.0011	.0467	.1110	.1541	4.346	.0927	.0013
#2	.8628	.0048	.0016	.0454	.1086	.1574	4.341	.0945	.0021
#3	.8573	.0052	.0030	.0462	.1097	.1559	4.309	.0944	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2434**	**.4393**	**.0231**	**.0016**	**.3192**	**.0012**	**.0099**	**91.18**	**12.21**
Stddev	.0023	.0017	.0063	.0041	.0017	.0004	.0045	1.07	.07
%RSD	.9588	.3757	27.13	248.2	.5481	35.88	45.12	1.170	.5353
#1	.2456	.4402	.0274	-.0030	.3184	.0012	.0147	92.37	12.28
#2	.2435	.4402	.0261	.0031	.3212	.0016	.0091	90.84	12.20
#3	.2410	.4373	.0159	.0047	.3179	.0007	.0059	90.32	12.15

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**124.0**	**23.91**	**7.691**	**.8248**	**.0397**	**.0035**	**1.501**	**.3306**	**.0549**
Stddev	1.1	.21	.141	.0176	.0042	.0003	.005	.0025	.0003
%RSD	.8485	.8816	1.832	2.137	10.60	9.065	.3089	.7412	.4939
#1	125.2	23.89	7.846	.8420	.0443	.0037	1.500	.3327	.0552
#2	123.7	24.13	7.655	.8255	.0360	.0037	1.506	.3312	.0550
#3	123.1	23.71	7.571	.8068	.0387	.0031	1.497	.3279	.0547

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.744**	**.0155**	**.0057**	**1.241**	**-.0022**	**.1008**	**5.386**
Stddev	.014	.0010	.0008	.018	.0091	.0050	.019
%RSD	.3813	6.683	14.30	1.494	420.5	4.998	.3536
#1	3.756	.0164	.0054	1.229	.0083	.0973	5.408
#2	3.749	.0144	.0050	1.231	-.0074	.0984	5.378
#3	3.728	.0157	.0066	1.262	-.0074	.1065	5.373

Zoom In Zoom Out

Sample Name: mp13761-sd1 Acquired: 4/3/2019 17:27:35 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112040.**	**10526.**	**4498.8**	**9598.9**
Stddev	656.	79.	2.4	5.6
%RSD	.58512	.75260	.05305	.05788
#1	111790.	10485.	4496.5	9592.6
#2	111540.	10474.	4501.3	9601.2
#3	112780.	10617.	4498.6	9603.0

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 17:32:55 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.977**	**1.959**	**1.996**	**1.971**	**1.977**	**1.949**	**1.987**	**1.988**	**.2454**
Stddev	.004	.004	.001	.002	.003	.005	.002	.000	.0004
%RSD	.1976	.2247	.0699	.0946	.1515	.2764	.0796	.0155	.1746
#1	1.981	1.963	1.996	1.973	1.981	1.949	1.988	1.987	.2455
#2	1.977	1.958	1.997	1.969	1.976	1.954	1.988	1.987	.2458
#3	1.974	1.955	1.994	1.971	1.975	1.944	1.985	1.988	.2450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.953**	**1.987**	**1.990**	**2.051**	**1.992**	**1.984**	**2.008**	**39.04**	**39.31**
Stddev	.004	.001	.002	.005	.003	.003	.001	.15	.18
%RSD	.2196	.0708	.0786	.2404	.1577	.1317	.0692	.3853	.4522
#1	1.952	1.988	1.990	2.057	1.995	1.986	2.007	39.18	39.49
#2	1.958	1.986	1.991	2.049	1.989	1.985	2.007	39.06	39.30
#3	1.950	1.986	1.988	2.047	1.993	1.981	2.010	38.88	39.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.20**	**38.41**	**38.66**	**38.92**	**2.031**	**2.018**	**5.053**	**2.031**	**1.968**
Stddev	.04	.16	.11	.14	.003	.002	.007	.002	.003
%RSD	.1010	.4135	.2950	.3604	.1583	.0855	.1383	.1015	.1533
#1	39.21	38.51	38.77	39.03	2.031	2.018	5.053	2.033	1.971
#2	39.24	38.50	38.66	38.96	2.034	2.019	5.060	2.029	1.968
#3	39.16	38.23	38.54	38.76	2.027	2.016	5.046	2.030	1.965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 17:32:55 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.979**	**1.990**	**1.983**	**2.000**	**2.008**	**1.948**	**2.005**
Stddev	.003	.001	.002	.005	.002	.005	.004
%RSD	.1656	.0686	.1058	.2338	.0966	.2814	.1933
#1	1.978	1.991	1.983	2.005	2.008	1.953	2.009
#2	1.983	1.989	1.985	1.995	2.009	1.948	2.005
#3	1.977	1.989	1.980	2.001	2.005	1.942	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106140.**	**10381.**	**4301.9**	**8787.0**
Stddev	171.	41.	1.9	1.3
%RSD	.16107	.39510	.04336	.01469
#1	106020.	10376.	4301.6	8785.6
#2	106340.	10343.	4300.2	8787.4
#3	106070.	10425.	4303.9	8788.1

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 17:37:57 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	F **.0006**	**.0007**	**.0006**	**.0013**	**.0007**	F **.0015**	**.0007**	**.0001**
Stddev	.0002	.0003	.0001	.0002	.0002	.0005	.0002	.0002	.0001
%RSD	18.22	57.71	13.55	27.25	13.86	61.72	10.64	22.86	117.5
#1	.0007	.0003	.0008	.0008	.0012	.0013	.0017	.0007	.0000
#2	.0009	.0005	.0006	.0006	.0016	.0006	.0016	.0008	-.0000
#3	.0010	.0009	.0007	.0005	.0013	.0004	.0014	.0005	.0001
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		.0002					.0015		
Low Limit		-.0002					-.0015		

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0007**	**.0012**	**.0016**	**.0012**	**.0000**	**-.0003**	**.0181**	**.0149**
Stddev	.0001	.0000	.0012	.0009	.0002	.0006	.0006	.0079	.0107
%RSD	5.276	6.447	103.1	56.86	16.69	3767.	204.0	43.95	71.92
#1	.0013	.0007	.0020	.0017	.0012	.0002	-.0001	.0120	.0061
#2	.0014	.0006	-.0002	.0024	.0014	-.0006	-.0009	.0151	.0117
#3	.0014	.0007	.0017	.0006	.0011	.0005	.0002	.0271	.0268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0135**	**.0182**	**.0543**	**.0160**	**.0015**	**.0009**	**.0025**	**.0009**	**.0006**
Stddev	.0143	.0444	.0164	.0058	.0005	.0002	.0002	.0004	.0004
%RSD	106.4	244.2	30.20	36.32	34.97	18.22	8.785	44.92	63.56
#1	-.0022	.0235	.0521	.0118	.0021	.0010	.0025	.0012	.0003
#2	.0167	-.0286	.0391	.0137	.0010	.0010	.0027	.0010	.0005
#3	.0258	.0598	.0717	.0227	.0014	.0007	.0023	.0004	.0011
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 17:37:57 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0023**	**.0010**	**.0002**	**.0003**	**.0010**	**.0007**
Stddev	.0004	.0001	.0001	.0015	.0008	.0004	.0003
%RSD	43.73	2.949	10.12	617.7	245.7	45.26	45.99
#1	.0012	.0023	.0011	.0008	.0011	.0005	.0010
#2	.0012	.0024	.0010	.0014	.0004	.0010	.0005
#3	.0005	.0023	.0009	-.0015	-.0005	.0014	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111780.**	**10444.**	**4460.5**	**9829.4**
Stddev	259.	17.	5.6	15.4
%RSD	.23198	.16549	.12558	.15681
#1	111630.	10461.	4454.0	9811.6
#2	112080.	10446.	4464.0	9839.6
#3	111620.	10426.	4463.5	9836.8

Zoom In Zoom Out

Sample Name: jc85321-1 Acquired: 4/3/2019 17:43:27 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6171**	**.0044**	**.0024**	**.0533**	**.1008**	**.2197**	**3.319**	**.0907**	**.0009**
Stddev	.0010	.0001	.0001	.0004	.0019	.0050	.073	.0005	.0007
%RSD	.1592	2.704	5.496	.8059	1.905	2.290	2.213	.5426	80.97
#1	.6180	.0045	.0025	.0532	.1000	.2179	3.291	.0902	.0011
#2	.6161	.0043	.0023	.0538	.0995	.2158	3.264	.0910	.0015
#3	.6171	.0045	.0025	.0529	.1030	.2254	3.402	.0911	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2798**	**1.206**	**.0229**	**-.0000**	**.4490**	**.0008**	**.0033**	**75.76**	**25.18**
Stddev	.0064	.002	.0012	.0003	.0005	.0011	.0013	.08	.01
%RSD	2.284	.1416	5.024	4663.	.1208	136.6	40.91	.1093	.0534
#1	.2768	1.208	.0236	-.0001	.4496	.0020	.0048	75.81	25.16
#2	.2754	1.204	.0216	-.0003	.4485	.0002	.0023	75.66	25.18
#3	.2871	1.205	.0236	.0003	.4490	.0001	.0027	75.80	25.19

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**121.8**	**23.68**	**8.110**	**1.789**	**.0465**	**.0029**	**1.349**	**.0977**	**.1661**
Stddev	.1	.02	.052	.007	.0005	.0002	.006	.0006	.0005
%RSD	.1063	.0656	.6453	.4131	1.033	5.582	.4376	.6223	.3107
#1	121.9	23.68	8.171	1.790	.0470	.0029	1.355	.0983	.1662
#2	121.7	23.67	8.082	1.781	.0467	.0027	1.346	.0975	.1656
#3	121.8	23.70	8.079	1.796	.0460	.0030	1.345	.0972	.1666

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.066**	**.0057**	**.0151**	**1.934**	**.0018**	**.1075**	**5.201**
Stddev	.093	.0008	.0003	.006	.0014	.0007	.031
%RSD	2.285	13.56	1.730	.3346	80.01	.6600	.5886
#1	4.027	.0052	.0148	1.941	.0033	.1082	5.220
#2	3.998	.0053	.0152	1.930	.0005	.1068	5.216
#3	4.172	.0066	.0153	1.931	.0015	.1077	5.165

Zoom In Zoom Out

Sample Name: jc85321-1 Acquired: 4/3/2019 17:43:27 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110890.**	**10887.**	**4534.7**	**9231.8**
Stddev	1946.	27.	1.6	8.1
%RSD	1.7545	.24607	.03526	.08742
#1	111510.	10857.	4532.9	9236.7
#2	112450.	10901.	4535.6	9236.3
#3	108710.	10905.	4535.7	9222.5

Zoom In Zoom Out

Sample Name: jc85321-2 Acquired: 4/3/2019 17:48:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4836**	**.0036**	**.0011**	**.0460**	**.0873**	**.1272**	**3.145**	**.0732**	**.0003**
Stddev	.0003	.0001	.0001	.0004	.0005	.0004	.002	.0003	.0003
%RSD	.0636	2.014	12.87	.7862	.6257	.2754	.0768	.4738	104.2
#1	.4838	.0037	.0013	.0463	.0870	.1274	3.143	.0730	.0003
#2	.4832	.0035	.0011	.0463	.0870	.1268	3.148	.0736	.0005
#3	.4837	.0036	.0010	.0456	.0879	.1275	3.144	.0730	-.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2791**	**.3678**	**.0187**	**-.0002**	**.1700**	**-.0006**	**-.0010**	**72.17**	**11.37**
Stddev	.0005	.0009	.0005	.0001	.0004	.0018	.0013	.04	.01
%RSD	.1786	.2434	2.841	39.75	.2419	280.1	127.8	.0550	.0562
#1	.2795	.3686	.0182	-.0001	.1696	.0008	-.0017	72.20	11.38
#2	.2793	.3680	.0186	-.0002	.1702	-.0000	-.0017	72.19	11.36
#3	.2785	.3668	.0192	-.0002	.1703	-.0027	.0005	72.12	11.37

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**115.4**	**19.78**	**7.194**	**1.047**	**.0302**	**.0022**	**1.263**	**.0409**	**.0481**
Stddev	.1	.08	.006	.006	.0004	.0001	.002	.0003	.0001
%RSD	.1227	.3911	.0872	.5801	1.169	4.650	.1628	.7458	.1872
#1	115.5	19.87	7.190	1.045	.0304	.0023	1.265	.0411	.0480
#2	115.4	19.74	7.190	1.053	.0304	.0023	1.261	.0406	.0482
#3	115.2	19.73	7.201	1.042	.0298	.0021	1.264	.0411	.0480

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.379**	**.0055**	**.0235**	**1.257**	**.0018**	**.0761**	**3.598**
Stddev	.004	.0006	.0002	.008	.0013	.0012	.008
%RSD	.0797	11.71	.7057	.6315	72.24	1.571	.2240
#1	4.375	.0061	.0237	1.249	.0032	.0774	3.593
#2	4.381	.0048	.0233	1.264	.0016	.0750	3.608
#3	4.381	.0056	.0236	1.258	.0006	.0758	3.594

Zoom In Zoom Out

Sample Name: jc85321-2 Acquired: 4/3/2019 17:48:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112060.**	**10941.**	**4547.2**	**9299.1**
Stddev	85.	23.	6.0	11.2
%RSD	.07573	.21155	.13134	.12074
#1	112160.	10961.	4542.7	9289.7
#2	112000.	10947.	4545.0	9296.0
#3	112030.	10916.	4554.0	9311.5

Zoom In Zoom Out

Sample Name: jc85321-3 Acquired: 4/3/2019 17:53:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4378**	**.0037**	**.0007**	**.0397**	**.0897**	**.0973**	**2.147**	**.0718**	**.0011**
Stddev	.0008	.0001	.0002	.0004	.0001	.0002	.002	.0002	.0004
%RSD	.1749	1.687	30.68	.9046	.0824	.2127	.0888	.2903	35.25
#1	.4384	.0038	.0006	.0401	.0897	.0975	2.149	.0720	.0011
#2	.4381	.0037	.0009	.0395	.0896	.0972	2.148	.0716	.0007
#3	.4370	.0037	.0005	.0395	.0897	.0972	2.145	.0718	.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1929**	**.2906**	**.0177**	**.0002**	**.1660**	**-.0010**	**.0023**	**69.81**	**6.026**
Stddev	.0003	.0002	.0004	.0003	.0005	.0018	.0005	.05	.024
%RSD	.1725	.0688	2.277	201.3	.3308	178.4	19.87	.0667	.4007
#1	.1932	.2906	.0178	.0005	.1657	-.0023	.0028	69.80	6.032
#2	.1930	.2904	.0181	.0001	.1656	-.0017	.0023	69.86	6.046
#3	.1926	.2908	.0173	-.0001	.1666	.0010	.0019	69.77	5.999

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**95.44**	**20.27**	**8.181**	**.8275**	**.0263**	**.0026**	**1.356**	**.0668**	**.0319**
Stddev	.31	.01	.010	.0003	.0016	.0000	.005	.0002	.0001
%RSD	.3245	.0254	.1210	.0390	6.126	1.245	.3592	.3078	.3175
#1	95.52	20.28	8.174	.8272	.0271	.0026	1.360	.0666	.0318
#2	95.69	20.28	8.192	.8274	.0272	.0026	1.357	.0670	.0320
#3	95.09	20.27	8.177	.8278	.0244	.0025	1.351	.0668	.0319

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.301**	**.0060**	**.0068**	**.9176**	**-.0001**	**.0851**	**3.505**
Stddev	.001	.0000	.0001	.0010	.0012	.0007	.017
%RSD	.0326	.6930	1.276	.1102	2342.	.8075	.4786
#1	3.302	.0059	.0067	.9181	.0013	.0853	3.515
#2	3.301	.0060	.0068	.9183	-.0003	.0843	3.514
#3	3.300	.0060	.0067	.9164	-.0012	.0856	3.485

Zoom In Zoom Out

Sample Name: jc85321-3 Acquired: 4/3/2019 17:53:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112010.**	**10835.**	**4541.0**	**9315.4**
Stddev	37.	45.	1.8	2.2
%RSD	.03276	.41913	.04062	.02384
#1	112000.	10846.	4541.4	9317.4
#2	111980.	10785.	4542.7	9315.9
#3	112050.	10874.	4539.0	9313.0

Zoom In Zoom Out

Sample Name: mp13693-b1 Acquired: 4/3/2019 17:59:04 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.889**	**1.875**	**1.892**	**1.848**	**1.872**	**1.852**	**1.885**	**1.865**
Stddev	.002	.004	.001	.003	.002	.003	.001	.002
%RSD	.1220	.2316	.0748	.1461	.1145	.1483	.0686	.1268
#1	1.891	1.874	1.894	1.851	1.871	1.854	1.887	1.867
#2	1.889	1.880	1.891	1.848	1.870	1.849	1.884	1.863
#3	1.886	1.872	1.891	1.845	1.874	1.852	1.885	1.865

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2377**	**1.839**	**1.891**	**1.876**	**1.960**	**1.878**	**1.849**	**1.899**
Stddev	.0004	.001	.002	.002	.004	.001	.003	.001
%RSD	.1872	.0784	.1225	.1085	.2026	.0288	.1411	.0497
#1	.2378	1.840	1.894	1.878	1.957	1.878	1.852	1.899
#2	.2381	1.837	1.891	1.874	1.958	1.879	1.847	1.900
#3	.2372	1.839	1.889	1.876	1.964	1.878	1.850	1.898

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.93**	**24.14**	**24.20**	**23.56**	**23.73**	**23.98**	**1.854**	**1.901**
Stddev	.06	.05	.14	.14	.07	.03	.002	.001
%RSD	.2522	.2227	.5747	.6031	.2982	.1200	.0852	.0331
#1	24.00	24.14	24.22	23.62	23.80	23.98	1.855	1.901
#2	23.93	24.19	24.33	23.67	23.74	24.01	1.853	1.901
#3	23.88	24.08	24.05	23.40	23.66	23.96	1.853	1.902

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0767**	**1.957**	**1.881**	**1.879**	**1.337**	**1.882**	F **-.0506**	**-.0007**
Stddev	.0008	.002	.003	.003	.005	.002	.0034	.0007
%RSD	1.094	.0975	.1433	.1487	.3949	.0853	6.747	99.34
#1	.0767	1.959	1.881	1.882	1.331	1.883	-.0516	-.0005
#2	.0775	1.955	1.884	1.876	1.338	1.880	-.0535	-.0015
#3	.0758	1.956	1.878	1.879	1.341	1.883	-.0468	-.0001

Zoom In Zoom Out

Sample Name: mp13693-b1 Acquired: 4/3/2019 17:59:04 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0018**	**1.911**
Stddev	.0010	.010
%RSD	55.18	.5368
#1	-.0027	1.904
#2	-.0008	1.907
#3	-.0018	1.923

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108320.**	**10484.**	**4359.2**	**9083.6**
Stddev	104.	56.	5.0	10.1
%RSD	.09635	.53425	.11563	.11150
#1	108200.	10477.	4353.7	9072.3
#2	108330.	10431.	4360.4	9091.8
#3	108410.	10543.	4363.6	9086.8

Zoom In Zoom Out

Sample Name: mp13693-mb1 Acquired: 4/3/2019 18:04:07 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0003**	**.0003**	**.0014**	**.0005**	**.0004**	**.0004**	**.0001**
Stddev	.0002	.0000	.0002	.0002	.0002	.0005	.0000	.0001	.0002
%RSD	92.16	4.689	51.94	59.47	12.76	91.47	6.281	21.15	237.0
#1	.0003	.0001	.0002	.0002	.0012	.0002	.0004	.0005	-.0002
#2	.0003	.0001	.0003	.0002	.0015	.0002	.0004	.0004	.0003
#3	-.0000	.0001	.0005	.0005	.0014	.0010	.0004	.0003	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0065**	**-.0005**	**.0003**	**.0005**	**.0009**	**-.0002**	**.0163**	**.0415**
Stddev	.0002	.0001	.0001	.0016	.0007	.0012	.0007	.0030	.0049
%RSD	32.29	.9337	11.57	564.8	144.1	133.1	322.5	18.26	11.72
#1	.0005	.0065	-.0005	.0019	.0011	.0022	-.0009	.0197	.0359
#2	.0006	.0065	-.0005	.0003	.0005	-.0002	-.0001	.0145	.0444
#3	.0003	.0064	-.0004	-.0013	-.0002	.0007	.0004	.0147	.0442

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0193**	**.0186**	**.0195**	**.0414**	**.0015**	**.0007**	**.0083**	**.0247**	**.0003**
Stddev	.0046	.0195	.0324	.0073	.0001	.0002	.0010	.0001	.0001
%RSD	23.61	104.4	166.4	17.59	7.000	26.17	11.63	.5035	40.15
#1	.0179	-.0036	.0110	.0445	.0013	.0008	.0076	.0245	.0002
#2	.0245	.0325	.0553	.0331	.0015	.0005	.0094	.0247	.0003
#3	.0157	.0271	-.0078	.0467	.0015	.0008	.0079	.0248	.0005

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0085**	**.0006**	**.0069**	**-.0002**	**.0003**	**.0245**
Stddev	.0002	.0014	.0003	.0008	.0013	.0003	.0006
%RSD	34.01	16.46	44.11	11.31	601.9	108.9	2.543
#1	.0008	.0093	.0007	.0078	.0013	.0005	.0240
#2	.0004	.0093	.0009	.0062	-.0010	-.0001	.0243
#3	.0005	.0069	.0003	.0068	-.0009	.0004	.0252

Zoom In Zoom Out

Sample Name: mp13693-mb1 Acquired: 4/3/2019 18:04:07 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113130.**	**10711.**	**4480.0**	**9904.8**
Stddev	309.	25.	3.0	8.4
%RSD	.27269	.23043	.06586	.08432
#1	113160.	10722.	4476.6	9896.8
#2	113420.	10728.	4481.3	9903.9
#3	112810.	10683.	4482.1	9913.5

Zoom In Zoom Out

Sample Name: mp13693-b2 Acquired: 4/3/2019 18:09:35 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.814**	**1.796**	**1.837**	**1.780**	**1.813**	**1.787**	**1.820**	**1.801**
Stddev	.002	.005	.002	.003	.001	.002	.002	.002
%RSD	.0999	.3035	.1205	.1658	.0699	.0917	.1235	.0917
#1	1.815	1.802	1.839	1.781	1.815	1.788	1.823	1.799
#2	1.815	1.793	1.839	1.782	1.812	1.786	1.818	1.802
#3	1.812	1.793	1.835	1.777	1.813	1.785	1.820	1.800

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2316**	**1.771**	**1.831**	**1.807**	**1.902**	**1.818**	**1.790**	**1.832**
Stddev	.0003	.001	.004	.002	.009	.002	.003	.004
%RSD	.1263	.0614	.2136	.0974	.4957	.1275	.1374	.2091
#1	.2317	1.772	1.835	1.809	1.913	1.820	1.792	1.836
#2	.2318	1.770	1.831	1.806	1.895	1.817	1.791	1.830
#3	.2312	1.771	1.827	1.806	1.898	1.816	1.787	1.829

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.92**	**23.13**	**23.11**	**22.37**	**22.60**	**22.96**	**1.790**	**1.824**
Stddev	.02	.04	.08	.17	.03	.03	.004	.003
%RSD	.1064	.1881	.3580	.7457	.1327	.1318	.2471	.1645
#1	22.93	23.18	23.20	22.53	22.60	22.98	1.787	1.826
#2	22.93	23.10	23.05	22.37	22.57	22.96	1.795	1.825
#3	22.89	23.11	23.07	22.20	22.63	22.92	1.788	1.821

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0687**	**1.883**	**1.801**	**1.807**	**1.199**	**1.810**	W **-.0486**	**.0009**
Stddev	.0011	.004	.004	.001	.005	.001	.0005	.0001
%RSD	1.612	.2358	.2126	.0376	.4111	.0475	.9623	6.780
#1	.0677	1.888	1.806	1.807	1.194	1.811	-.0483	.0009
#2	.0699	1.879	1.800	1.806	1.203	1.809	-.0491	.0009
#3	.0686	1.882	1.798	1.806	1.202	1.809	-.0484	.0010

Zoom In Zoom Out

Sample Name: mp13693-b2 Acquired: 4/3/2019 18:09:35 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0009**	**1.848**
Stddev	.0012	.004
%RSD	124.7	.2419
#1	-.0019	1.853
#2	-.0014	1.845
#3	.0004	1.846

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108540.**	**10603.**	**4379.6**	**9141.7**
Stddev	81.	68.	6.6	8.3
%RSD	.07427	.64386	.15161	.09099
#1	108450.	10536.	4373.4	9132.9
#2	108560.	10672.	4378.7	9142.7
#3	108610.	10602.	4386.6	9149.4

Zoom In Zoom Out

Sample Name: jc85075-1 Acquired: 4/3/2019 18:14:37 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096**	**.0003**	**.0006**	**.0005**	**.0073**	**.0086**	**.0182**	**.0047**	**.0006**
Stddev	.0001	.0000	.0003	.0001	.0001	.0002	.0001	.0002	.0002
%RSD	.7855	6.546	41.43	13.61	1.481	1.786	.3300	5.196	41.05
#1	.0097	.0003	.0005	.0005	.0074	.0087	.0182	.0050	.0007
#2	.0095	.0003	.0004	.0006	.0072	.0085	.0182	.0048	.0003
#3	.0097	.0003	.0009	.0006	.0074	.0084	.0183	.0045	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.1700**	**.0018**	**-.0005**	**.0278**	**.0019**	**.0011**	**.2410**	**2.955**
Stddev	.0002	.0007	.0006	.0008	.0005	.0019	.0011	.0022	.018
%RSD	32.08	.3930	34.23	149.9	1.845	99.89	95.24	.9117	.6145
#1	.0009	.1693	.0026	.0002	.0272	-.0003	.0024	.2427	2.939
#2	.0005	.1706	.0015	-.0005	.0280	.0030	.0005	.2417	2.951
#3	.0007	.1699	.0015	-.0013	.0281	.0030	.0005	.2385	2.975

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.202**	**.8256**	**.6089**	**2.144**	**.0049**	**.0016**	**.6129**	**.0347**	**.0136**
Stddev	.009	.0150	.0196	.012	.0007	.0001	.0018	.0003	.0001
%RSD	.2737	1.813	3.216	.5445	13.53	9.194	.2994	.9596	.6258
#1	3.191	.8095	.5931	2.150	.0047	.0015	.6108	.0343	.0135
#2	3.208	.8282	.6308	2.131	.0044	.0015	.6141	.0350	.0136
#3	3.205	.8391	.6027	2.152	.0057	.0018	.6137	.0349	.0136

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0107**	**.0134**	**.0033**	**.5133**	**.0007**	**.0003**	**.1574**
Stddev	.0003	.0015	.0001	.0031	.0007	.0007	.0014
%RSD	3.222	11.27	3.519	.5967	108.9	228.2	.9055
#1	.0110	.0151	.0034	.5165	.0015	.0002	.1574
#2	.0108	.0125	.0034	.5129	.0005	.0010	.1588
#3	.0103	.0126	.0032	.5105	.0000	-.0003	.1560

Zoom In Zoom Out

Sample Name: jc85075-1 Acquired: 4/3/2019 18:14:37 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113270.**	**10744.**	**4447.3**	**9845.2**
Stddev	159.	35.	15.7	34.0
%RSD	.14017	.32991	.35271	.34522
#1	113410.	10785.	4462.5	9871.9
#2	113320.	10719.	4431.2	9807.0
#3	113100.	10729.	4448.1	9856.9

Zoom In Zoom Out

Sample Name: mp13693-sd1 Acquired: 4/3/2019 18:19:59 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090**	**.0002**	**-.0002**	**.0004**	**.0059**	**.0084**	**.0191**	**.0041**	**.0014**
Stddev	.0012	.0006	.0001	.0012	.0009	.0018	.0001	.0008	.0018
%RSD	13.48	329.3	44.82	281.6	15.84	20.92	.3161	19.60	128.4
#1	.0082	-.0000	-.0003	-.0008	.0048	.0077	.0191	.0045	.0009
#2	.0104	.0008	-.0001	.0004	.0066	.0104	.0191	.0032	.0034
#3	.0084	-.0003	-.0002	.0017	.0062	.0071	.0192	.0047	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.1772**	**.0018**	**-.0024**	**.0279**	**.0074**	**-.0020**	**.1866**	**3.012**
Stddev	.0007	.0005	.0019	.0010	.0032	.0030	.0026	.0334	.010
%RSD	106.8	.2765	102.1	43.82	11.35	39.66	131.7	17.92	.3399
#1	.0006	.1773	.0035	-.0033	.0294	.0070	-.0021	.1804	3.023
#2	.0013	.1775	-.0002	-.0013	.0301	.0106	.0007	.1567	3.005
#3	-.0000	.1766	.0021	-.0025	.0243	.0048	-.0045	.2226	3.006

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.137**	**.8405**	**.4652**	**2.128**	**.0025**	**.0010**	**.6123**	**.0326**	**.0131**
Stddev	.026	.0750	.0935	.006	.0010	.0003	.0040	.0013	.0002
%RSD	.8329	8.925	20.10	.3063	40.60	29.65	.6467	4.028	1.499
#1	3.127	.9208	.5468	2.131	.0019	.0010	.6100	.0313	.0130
#2	3.166	.7722	.4856	2.133	.0019	.0012	.6168	.0326	.0131
#3	3.116	.8285	.3631	2.121	.0036	.0007	.6100	.0340	.0133

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104**	**.0339**	**.0021**	**.5225**	**.0044**	**.0004**	**.1576**
Stddev	.0002	.0013	.0003	.0009	.0020	.0070	.0049
%RSD	1.843	3.934	13.56	.1793	44.89	1663.	3.079
#1	.0104	.0353	.0019	.5231	.0061	.0001	.1612
#2	.0105	.0328	.0024	.5215	.0049	-.0064	.1596
#3	.0102	.0334	.0019	.5231	.0022	.0076	.1521

Zoom In Zoom Out

Sample Name: mp13693-sd1 Acquired: 4/3/2019 18:19:59 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112770.**	**10575.**	**4481.4**	**9858.7**
Stddev	149.	29.	12.2	19.9
%RSD	.13195	.27511	.27261	.20156
#1	112930.	10542.	4486.7	9862.0
#2	112630.	10588.	4467.5	9837.4
#3	112740.	10596.	4490.1	9876.7

Zoom In Zoom Out

Sample Name: jc85075-2 Acquired: 4/3/2019 18:25:27 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0147**	**.0000**	**.0003**	**.0004**	**.0101**	**.0114**	**.0178**	**.0066**	**.0007**
Stddev	.0002	.0000	.0001	.0001	.0002	.0003	.0001	.0002	.0001
%RSD	1.438	43.76	50.46	31.59	2.012	2.522	.6421	2.566	9.533
#1	.0148	.0000	.0003	.0006	.0102	.0116	.0177	.0067	.0007
#2	.0149	.0000	.0004	.0003	.0103	.0111	.0179	.0064	.0007
#3	.0145	.0000	.0002	.0005	.0099	.0116	.0179	.0066	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0580**	**.0018**	**-.0012**	**.0118**	**.0016**	**.0011**	**.4176**	**6.619**
Stddev	.0004	.0003	.0009	.0006	.0007	.0010	.0008	.0072	.046
%RSD	43.22	.4411	48.77	50.00	6.260	62.64	72.45	1.727	.7001
#1	.0013	.0583	.0012	-.0005	.0111	.0005	.0017	.4173	6.662
#2	.0009	.0579	.0014	-.0013	.0118	.0019	.0013	.4250	6.624
#3	.0005	.0579	.0028	-.0017	.0126	.0025	.0002	.4106	6.570

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.237**	**3.342**	**.5803**	**3.751**	**.0069**	**.0007**	**.7623**	**.0234**	**.0184**
Stddev	.016	.056	.0097	.007	.0004	.0001	.0017	.0006	.0001
%RSD	1.298	1.660	1.667	.1842	5.946	15.87	.2192	2.745	.3437
#1	1.252	3.403	.5873	3.759	.0073	.0007	.7640	.0241	.0185
#2	1.239	3.327	.5693	3.750	.0065	.0009	.7607	.0229	.0183
#3	1.220	3.295	.5845	3.745	.0070	.0007	.7622	.0231	.0184

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0199**	**.0043**	**.0078**	**1.708**	**.0008**	**-.0004**	**.2155**
Stddev	.0001	.0010	.0000	.008	.0010	.0006	.0009
%RSD	.4396	22.61	.6345	.4534	129.0	140.0	.4388
#1	.0199	.0054	.0079	1.710	-.0001	-.0009	.2158
#2	.0199	.0040	.0078	1.699	.0018	-.0006	.2144
#3	.0198	.0036	.0078	1.715	.0006	.0003	.2161

Zoom In Zoom Out

Sample Name: jc85075-2 Acquired: 4/3/2019 18:25:27 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113050.**	**10695.**	**4453.4**	**9824.1**
Stddev	360.	100.	5.3	14.1
%RSD	.31823	.93163	.11983	.14402
#1	113370.	10624.	4459.4	9836.7
#2	113140.	10653.	4451.6	9826.9
#3	112660.	10809.	4449.1	9808.8

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 18:30:49 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.957**	**1.940**	**1.968**	**1.946**	**1.949**	**1.919**	**1.960**	**1.962**	**.2411**
Stddev	.004	.005	.002	.001	.006	.003	.002	.002	.0005
%RSD	.2103	.2709	.0813	.0353	.3326	.1302	.0900	.0906	.1874
#1	1.960	1.947	1.970	1.946	1.952	1.918	1.962	1.962	.2413
#2	1.958	1.938	1.968	1.946	1.942	1.922	1.958	1.961	.2405
#3	1.952	1.937	1.967	1.947	1.954	1.917	1.961	1.964	.2413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.926**	**1.965**	**1.961**	**2.017**	**1.968**	**1.951**	**1.978**	**38.61**	**38.94**
Stddev	.002	.002	.001	.006	.002	.004	.003	.14	.18
%RSD	.0797	.1037	.0562	.3243	.0777	.2174	.1343	.3681	.4500
#1	1.928	1.963	1.962	2.024	1.967	1.955	1.981	38.67	39.07
#2	1.925	1.965	1.960	2.010	1.970	1.952	1.976	38.72	39.00
#3	1.925	1.967	1.962	2.018	1.969	1.946	1.977	38.45	38.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.87**	**38.18**	**38.40**	**38.60**	**2.000**	**1.990**	**4.973**	**2.005**	**1.950**
Stddev	.10	.15	.14	.13	.001	.001	.004	.004	.004
%RSD	.2573	.3994	.3587	.3298	.0401	.0285	.0741	.2075	.1956
#1	38.94	38.30	38.54	38.71	2.000	1.990	4.976	2.010	1.954
#2	38.91	38.23	38.40	38.62	2.000	1.989	4.969	2.002	1.950
#3	38.75	38.01	38.26	38.46	2.001	1.989	4.973	2.003	1.947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 18:30:49 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.949**	**1.961**	**1.952**	**1.963**	**1.975**	**1.921**	**1.973**
Stddev	.001	.001	.002	.003	.001	.007	.003
%RSD	.0433	.0689	.1018	.1419	.0453	.3921	.1663
#1	1.950	1.962	1.954	1.961	1.976	1.929	1.972
#2	1.949	1.962	1.952	1.962	1.975	1.921	1.971
#3	1.949	1.960	1.951	1.966	1.974	1.914	1.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107240.**	**10331.**	**4341.8**	**8867.1**
Stddev	102.	71.	4.8	7.5
%RSD	.09534	.69107	.10966	.08411
#1	107170.	10289.	4344.3	8869.8
#2	107350.	10291.	4336.3	8858.7
#3	107180.	10414.	4344.7	8872.8

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 18:35:50 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0000**	**-.0000**	**-.0000**	**-.0001**	**-.0004**	**-.0000**	**.0001**	**.0004**
Stddev	.0001	.0001	.0003	.0002	.0004	.0002	.0000	.0001	.0003
%RSD	198.4	185.3	787.3	3007.	315.0	48.06	140.4	95.96	76.42
#1	.0001	.0000	.0000	.0001	.0002	-.0002	.0000	.0001	.0001
#2	-.0001	.0002	.0002	.0001	.0000	-.0005	-.0001	.0003	.0006
#3	-.0001	-.0000	-.0004	-.0002	-.0006	-.0005	-.0000	.0000	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0005**	**.0002**	**-.0001**	**-.0003**	**.0004**	**.0004**	**-.0066**	**-.0072**
Stddev	.0001	.0001	.0002	.0003	.0004	.0004	.0001	.0058	.0007
%RSD	49.29	19.92	107.6	345.3	124.9	97.97	28.22	87.48	9.415
#1	.0003	-.0006	-.0000	-.0003	.0000	.0005	.0005	-.0000	-.0076
#2	.0004	-.0004	.0002	-.0002	-.0002	.0008	.0004	-.0091	-.0076
#3	.0001	-.0005	.0005	.0003	-.0007	-.0000	.0003	-.0108	-.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0045**	**-.0019**	**.0317**	**.0025**	**.0006**	**.0005**	**.0005**	**-.0002**	**-.0001**
Stddev	.0023	.0145	.0207	.0095	.0004	.0001	.0005	.0006	.0001
%RSD	50.40	767.9	65.32	378.8	64.31	18.38	113.5	311.0	55.34
#1	-.0035	.0025	.0500	.0090	.0011	.0005	-.0001	.0004	-.0002
#2	-.0071	.0099	.0092	-.0084	.0005	.0006	.0009	-.0008	-.0001
#3	-.0029	-.0181	.0361	.0070	.0003	.0004	.0006	-.0003	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 18:35:50 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0029**	**.0000**	**-.0008**	**-.0009**	**.0013**	**-.0001**
Stddev	.0001	.0010	.0001	.0013	.0008	.0002	.0011
%RSD	15.96	35.15	332.9	168.3	80.95	17.24	1441.
#1	-.0005	.0036	-.0001	-.0020	-.0016	.0012	.0011
#2	-.0003	.0017	.0000	-.0008	-.0001	.0012	-.0004
#3	-.0004	.0034	.0001	.0005	-.0011	.0016	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112480.**	**10483.**	**4483.3**	**9877.2**
Stddev	215.	69.	10.3	14.8
%RSD	.19153	.65412	.23072	.14999
#1	112340.	10404.	4480.0	9879.0
#2	112380.	10521.	4494.9	9891.0
#3	112730.	10524.	4475.0	9861.6

Zoom In Zoom Out

Sample Name: jc85075-3 Acquired: 4/3/2019 18:41:20 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0505**	**-.0000**	**.0001**	**.0001**	**.0038**	**.0041**	**.0079**	**.0022**	**.0001**
Stddev	.0005	.0000	.0001	.0001	.0002	.0002	.0000	.0002	.0001
%RSD	.9263	63.91	77.83	161.8	5.655	5.383	.2145	8.430	151.1
#1	.0499	-.0001	.0000	.0000	.0039	.0044	.0079	.0024	-.0001
#2	.0507	-.0001	.0002	.0002	.0039	.0040	.0079	.0021	.0002
#3	.0508	-.0000	.0001	-.0000	.0035	.0041	.0079	.0022	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0382**	**.0013**	**-.0006**	**.0124**	**.0008**	**-.0005**	**.1786**	**2.349**
Stddev	.0002	.0014	.0011	.0004	.0006	.0007	.0011	.0050	.018
%RSD	49.49	3.698	89.15	68.49	4.770	83.37	242.2	2.787	.7782
#1	.0002	.0398	.0014	-.0003	.0125	.0003	-.0004	.1730	2.335
#2	.0006	.0376	.0024	-.0011	.0129	.0006	-.0016	.1826	2.342
#3	.0003	.0371	.0001	-.0004	.0118	.0016	.0006	.1801	2.369

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4547**	**.6069**	**.4219**	**2.761**	**.0045**	**.0009**	**.5031**	**.0220**	**.0142**
Stddev	.0021	.0211	.0263	.016	.0007	.0001	.0017	.0003	.0001
%RSD	.4553	3.475	6.227	.5684	16.50	11.15	.3316	1.350	.8454
#1	.4524	.5930	.4162	2.755	.0037	.0008	.5020	.0223	.0142
#2	.4551	.5964	.3989	2.750	.0052	.0010	.5022	.0217	.0142
#3	.4565	.6311	.4505	2.779	.0046	.0010	.5050	.0219	.0144

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057**	**.0052**	**.0039**	**.4421**	**-.0007**	**.0000**	**.1958**
Stddev	.0002	.0005	.0002	.0028	.0009	.0018	.0011
%RSD	3.688	8.771	5.159	.6258	120.0	237600.	.5703
#1	.0058	.0047	.0041	.4417	-.0008	-.0010	.1946
#2	.0055	.0056	.0037	.4396	.0002	-.0011	.1962
#3	.0058	.0053	.0040	.4451	-.0016	.0021	.1967

Zoom In Zoom Out

Sample Name: jc85075-3 Acquired: 4/3/2019 18:41:20 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113330.**	**10709.**	**4466.9**	**9866.9**
Stddev	413.	53.	3.5	7.3
%RSD	.36458	.49508	.07747	.07395
#1	113640.	10745.	4470.9	9873.9
#2	113480.	10735.	4464.9	9859.3
#3	112860.	10648.	4464.9	9867.5

Zoom In Zoom Out

Sample Name: jc85075-4 Acquired: 4/3/2019 18:46:45 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0169**	**-.0000**	**.0019**	**.0002**	**.0128**	**.0104**	**.0188**	**.0110**	**.0002**
Stddev	.0006	.0000	.0001	.0001	.0002	.0002	.0001	.0004	.0002
%RSD	3.501	116.6	6.304	35.63	1.729	1.444	.6985	3.499	81.31
#1	.0172	.0000	.0020	.0001	.0127	.0105	.0187	.0112	.0001
#2	.0162	-.0000	.0019	.0003	.0127	.0103	.0189	.0106	.0004
#3	.0174	-.0001	.0017	.0002	.0131	.0106	.0188	.0112	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.1058**	**.0015**	**-.0005**	**.0840**	**.0011**	**.0037**	**.4647**	**5.736**
Stddev	.0002	.0003	.0006	.0010	.0003	.0008	.0011	.0165	.193
%RSD	16.66	.2706	41.88	207.9	.3956	70.16	28.63	3.552	3.358
#1	.0010	.1060	.0009	.0007	.0840	.0019	.0025	.4798	5.860
#2	.0014	.1060	.0014	-.0010	.0844	.0010	.0043	.4471	5.514
#3	.0011	.1055	.0022	-.0010	.0837	.0004	.0043	.4672	5.835

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.155**	**1.830**	**.4901**	**3.363**	**.0044**	**.0009**	**1.012**	**.0407**	**.0294**
Stddev	.041	.101	.0325	.119	.0002	.0002	.002	.0002	.0009
%RSD	3.565	5.504	6.640	3.532	3.768	25.85	.1803	.5207	3.222
#1	1.179	1.880	.5063	3.431	.0042	.0006	1.011	.0405	.0298
#2	1.107	1.714	.4526	3.226	.0044	.0009	1.014	.0409	.0283
#3	1.177	1.896	.5113	3.432	.0045	.0011	1.012	.0408	.0301

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0194**	**.0041**	**.0025**	**2.031**	**-.0006**	**.0027**	**.2935**
Stddev	.0001	.0003	.0001	.002	.0004	.0004	.0010
%RSD	.7666	7.333	3.558	.1078	62.97	14.36	.3383
#1	.0193	.0039	.0026	2.028	-.0003	.0030	.2924
#2	.0196	.0045	.0025	2.032	-.0005	.0023	.2944
#3	.0193	.0040	.0024	2.032	-.0011	.0027	.2936

Zoom In Zoom Out

Sample Name: jc85075-4 Acquired: 4/3/2019 18:46:45 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112680.**	**10750.**	**4456.5**	**9817.8**
Stddev	457.	286.	7.6	10.3
%RSD	.40588	2.6575	.17091	.10453
#1	112200.	10570.	4448.0	9806.4
#2	112710.	11079.	4458.7	9820.8
#3	113120.	10601.	4462.7	9826.2

Zoom In Zoom Out

Sample Name: jc85075-5 Acquired: 4/3/2019 18:52:06 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0129**	**-.0000**	**.0010**	**.0003**	**.0050**	**.0111**	**.0104**	**.0037**	**.0002**
Stddev	.0003	.0001	.0003	.0001	.0003	.0005	.0001	.0001	.0001
%RSD	2.002	545.5	28.91	22.85	6.053	4.517	1.111	2.918	60.21
#1	.0129	-.0001	.0009	.0003	.0046	.0112	.0104	.0038	.0001
#2	.0132	.0000	.0008	.0002	.0052	.0115	.0103	.0037	.0002
#3	.0126	.0000	.0013	.0002	.0051	.0105	.0105	.0036	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.1954**	**.0015**	**-.0007**	**.0109**	**.0015**	**.0008**	**.2705**	**3.394**
Stddev	.0002	.0005	.0009	.0005	.0005	.0013	.0013	.0094	.016
%RSD	29.47	.2329	60.38	66.28	4.528	87.54	162.9	3.457	.4626
#1	.0008	.1959	.0005	-.0012	.0106	.0013	-.0006	.2700	3.393
#2	.0008	.1955	.0022	-.0002	.0115	.0003	.0009	.2801	3.409
#3	.0004	.1950	.0019	-.0007	.0107	.0028	.0021	.2614	3.378

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6131**	**1.069**	**.5152**	**3.020**	**.0039**	**.0007**	**.8102**	**.0258**	**.0117**
Stddev	.0056	.010	.0074	.003	.0003	.0001	.0013	.0001	.0001
%RSD	.9182	.9099	1.445	.1118	8.686	9.144	.1566	.5411	.8080
#1	.6129	1.061	.5150	3.017	.0039	.0007	.8115	.0257	.0117
#2	.6188	1.080	.5078	3.024	.0042	.0007	.8090	.0259	.0116
#3	.6075	1.067	.5227	3.019	.0035	.0008	.8102	.0259	.0118

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0111**	**.0024**	**.0023**	**1.232**	**.0005**	**-.0002**	**.1696**
Stddev	.0003	.0007	.0000	.006	.0010	.0005	.0012
%RSD	2.399	30.58	1.195	.5170	215.6	201.6	.7271
#1	.0109	.0025	.0023	1.236	-.0006	-.0002	.1699
#2	.0109	.0030	.0023	1.224	.0006	.0002	.1683
#3	.0114	.0016	.0023	1.235	.0014	-.0007	.1707

Zoom In Zoom Out

Sample Name: jc85075-5 Acquired: 4/3/2019 18:52:06 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113310.**	**10610.**	**4467.1**	**9876.3**
Stddev	439.	31.	8.2	12.3
%RSD	.38750	.28837	.18422	.12483
#1	113630.	10609.	4458.5	9866.2
#2	112810.	10580.	4467.8	9872.7
#3	113480.	10641.	4474.9	9890.0

Zoom In Zoom Out

Sample Name: jc85075-6 Acquired: 4/3/2019 18:57:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0082**	**-.0000**	**.0002**	**.0002**	**.0027**	**.0050**	**.0065**	**.0019**	**.0001**
Stddev	.0003	.0001	.0001	.0001	.0002	.0001	.0000	.0002	.0002
%RSD	3.789	291.5	72.86	81.20	8.930	1.885	.5478	11.90	140.1
#1	.0085	-.0001	.0001	.0000	.0029	.0051	.0065	.0016	.0000
#2	.0079	.0001	.0001	.0001	.0024	.0051	.0065	.0020	.0004
#3	.0084	-.0001	.0003	.0003	.0028	.0049	.0065	.0020	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0471**	**.0015**	**-.0008**	**.0032**	**.0014**	**.0010**	**.1100**	**2.100**
Stddev	.0001	.0001	.0013	.0005	.0005	.0003	.0012	.0116	.003
%RSD	24.02	.1997	81.66	64.91	15.44	25.38	121.0	10.52	.1200
#1	.0004	.0471	.0005	-.0013	.0026	.0016	.0024	.0991	2.102
#2	.0005	.0470	.0012	-.0010	.0036	.0010	.0004	.1221	2.100
#3	.0006	.0472	.0030	-.0002	.0033	.0015	.0002	.1089	2.097

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1614**	**.8946**	**.4572**	**3.608**	**.0049**	**.0006**	**.3072**	**.0259**	**.0083**
Stddev	.0039	.0171	.0113	.012	.0006	.0001	.0002	.0002	.0001
%RSD	2.389	1.912	2.465	.3423	11.66	18.59	.0695	.7718	.9916
#1	.1658	.8863	.4482	3.602	.0047	.0005	.3069	.0260	.0083
#2	.1585	.8832	.4699	3.600	.0056	.0007	.3073	.0260	.0083
#3	.1598	.9143	.4537	3.622	.0045	.0005	.3072	.0257	.0082

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036**	**.0027**	**.0034**	**1.501**	**-.0000**	**.0011**	**.2691**
Stddev	.0002	.0005	.0000	.007	.0010	.0006	.0013
%RSD	5.730	20.14	1.366	.4552	19160.	58.02	.4942
#1	.0034	.0021	.0034	1.500	-.0003	.0015	.2676
#2	.0037	.0031	.0034	1.508	-.0007	.0004	.2699
#3	.0038	.0029	.0035	1.494	.0011	.0014	.2699

Zoom In Zoom Out

Sample Name: jc85075-6 Acquired: 4/3/2019 18:57:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113080.**	**10614.**	**4457.6**	**9856.5**
Stddev	211.	56.	2.9	8.4
%RSD	.18672	.53121	.06466	.08548
#1	113220.	10553.	4456.2	9848.6
#2	112840.	10624.	4455.7	9865.4
#3	113190.	10664.	4461.0	9855.4

Zoom In Zoom Out

Sample Name: jc85075-8 Acquired: 4/3/2019 19:02:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0388**	**-.0001**	**.0002**	**.0001**	**.0044**	**.9947**	**.0110**	**.0025**	**.0101**
Stddev	.0003	.0001	.0001	.0001	.0002	.0016	.0001	.0002	.0002
%RSD	.8359	93.25	40.24	158.4	4.234	.1559	.7274	8.437	2.391
#1	.0387	.0000	.0002	.0002	.0042	.9937	.0110	.0022	.0104
#2	.0385	-.0001	.0001	.0001	.0046	.9938	.0111	.0026	.0099
#3	.0391	-.0001	.0002	-.0000	.0045	.9965	.0109	.0025	.0101

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**1.079**	**.0019**	**-.0012**	**.0093**	**.0022**	**.0104**	**.3692**	**3.987**
Stddev	.0001	.001	.0005	.0006	.0003	.0007	.0006	.0034	.016
%RSD	13.86	.0731	23.90	47.77	3.384	32.54	5.577	.9076	.3888
#1	.0007	1.080	.0015	-.0010	.0090	.0030	.0109	.3729	4.000
#2	.0009	1.080	.0017	-.0007	.0096	.0016	.0106	.3686	3.970
#3	.0009	1.079	.0024	-.0018	.0093	.0021	.0098	.3662	3.991

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5132**	**1.476**	**.7643**	**2.808**	**.0145**	**.0007**	**.9471**	**.2152**	**.0294**
Stddev	.0107	.016	.0106	.016	.0005	.0001	.0023	.0008	.0002
%RSD	2.082	1.102	1.387	.5689	3.277	20.96	.2425	.3839	.7991
#1	.5067	1.494	.7744	2.794	.0149	.0005	.9468	.2146	.0295
#2	.5074	1.469	.7654	2.826	.0140	.0008	.9495	.2150	.0291
#3	.5255	1.464	.7532	2.805	.0146	.0007	.9449	.2162	.0296

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0120**	**.0040**	**.0037**	**.8188**	**.0005**	**.0004**	**.3252**
Stddev	.0001	.0006	.0001	.0054	.0014	.0007	.0008
%RSD	.9141	16.24	1.895	.6536	281.4	196.0	.2603
#1	.0119	.0034	.0037	.8154	.0018	.0005	.3251
#2	.0119	.0047	.0037	.8160	-.0009	.0010	.3261
#3	.0121	.0038	.0038	.8250	.0006	-.0004	.3245

Zoom In Zoom Out

Sample Name: jc85075-8 Acquired: 4/3/2019 19:02:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112900.**	**10572.**	**4464.9**	**9821.3**
Stddev	125.	37.	3.9	2.7
%RSD	.11106	.34769	.08758	.02745
#1	113030.	10603.	4468.2	9824.1
#2	112780.	10582.	4465.9	9818.7
#3	112890.	10532.	4460.6	9821.1

Zoom In Zoom Out

Sample Name: jc85075-9 Acquired: 4/3/2019 19:08:14 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0223**	**-.0000**	**.0002**	**.0001**	**.0043**	**.0347**	**.0088**	**.0025**	**.0000**
Stddev	.0002	.0001	.0001	.0000	.0002	.0002	.0001	.0002	.0004
%RSD	.9476	669.8	65.29	64.55	3.874	.5828	.7075	7.365	1383.
#1	.0224	-.0001	.0001	.0000	.0042	.0349	.0089	.0023	.0001
#2	.0221	.0001	.0002	.0001	.0045	.0347	.0088	.0026	.0004
#3	.0225	.0000	.0004	.0000	.0042	.0345	.0088	.0026	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0767**	**.0012**	**-.0007**	**.0073**	**.0017**	**.0012**	**.1535**	**1.981**
Stddev	.0002	.0002	.0005	.0004	.0002	.0005	.0021	.0057	.007
%RSD	41.45	.3004	37.71	52.20	3.168	29.36	170.0	3.703	.3481
#1	.0004	.0769	.0015	-.0003	.0073	.0017	-.0011	.1470	1.986
#2	.0005	.0764	.0014	-.0008	.0076	.0012	.0021	.1567	1.973
#3	.0008	.0767	.0007	-.0011	.0071	.0022	.0027	.1569	1.984

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3040**	**.8568**	**.2523**	**2.222**	**.0093**	**.0006**	**.9394**	**.0272**	**.0104**
Stddev	.0089	.0178	.0186	.013	.0003	.0002	.0023	.0005	.0001
%RSD	2.933	2.077	7.378	.5794	3.594	27.85	.2411	1.664	.7348
#1	.3142	.8563	.2334	2.232	.0094	.0006	.9386	.0275	.0105
#2	.3000	.8748	.2529	2.227	.0090	.0007	.9376	.0275	.0103
#3	.2977	.8393	.2706	2.208	.0096	.0004	.9419	.0267	.0104

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090**	**.0022**	**.0037**	**.4844**	**-.0011**	**-.0014**	**.2442**
Stddev	.0001	.0002	.0001	.0017	.0011	.0013	.0013
%RSD	1.153	10.12	3.570	.3469	95.95	96.32	.5516
#1	.0090	.0022	.0038	.4825	-.0022	-.0019	.2435
#2	.0088	.0020	.0039	.4854	-.0001	.0001	.2457
#3	.0090	.0024	.0036	.4853	-.0010	-.0024	.2433

Zoom In Zoom Out

Sample Name: jc85075-9 Acquired: 4/3/2019 19:08:14 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113210.**	**10584.**	**4475.7**	**9867.6**
Stddev	451.	7.	5.8	7.2
%RSD	.39814	.06634	.12859	.07299
#1	112940.	10591.	4475.1	9872.9
#2	113730.	10583.	4481.8	9870.5
#3	112960.	10577.	4470.3	9859.4

Zoom In Zoom Out

Sample Name: jc85075-10 Acquired: 4/3/2019 19:13:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0178**	**-.0000**	**.0000**	**.0001**	**.0026**	**.0035**	**.0064**	**.0010**	**.0002**
Stddev	.0003	.0001	.0001	.0003	.0002	.0005	.0001	.0002	.0002
%RSD	1.755	218.4	225.7	329.8	6.273	15.26	1.116	22.32	75.68
#1	.0174	-.0001	-.0001	.0001	.0028	.0032	.0063	.0012	.0000
#2	.0178	.0000	.0001	-.0002	.0026	.0033	.0065	.0012	.0003
#3	.0180	-.0001	.0001	.0004	.0024	.0041	.0063	.0008	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0359**	**.0007**	**-.0003**	**.0037**	**.0016**	**.0010**	**.1276**	**3.019**
Stddev	.0003	.0002	.0005	.0009	.0006	.0013	.0011	.0016	.014
%RSD	46.72	.4323	76.93	330.7	15.68	79.89	104.2	1.258	.4565
#1	.0003	.0360	.0009	-.0000	.0031	.0028	.0018	.1285	3.013
#2	.0005	.0358	.0011	.0005	.0037	.0019	.0015	.1286	3.010
#3	.0008	.0361	.0001	-.0013	.0042	.0002	-.0002	.1258	3.035

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2042**	**.8509**	**.6606**	**3.438**	**.0088**	**.0005**	**.9086**	**.0234**	**.0087**
Stddev	.0012	.0442	.0140	.005	.0002	.0001	.0037	.0007	.0001
%RSD	.5717	5.200	2.117	.1471	2.444	20.42	.4052	2.958	.7343
#1	.2049	.8259	.6628	3.441	.0089	.0004	.9091	.0240	.0087
#2	.2048	.8247	.6734	3.432	.0089	.0006	.9047	.0226	.0088
#3	.2029	.9019	.6457	3.442	.0085	.0007	.9120	.0236	.0088

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0072**	**.0026**	**.0031**	**1.272**	**-.0001**	**-.0003**	**.2282**
Stddev	.0001	.0006	.0001	.006	.0007	.0010	.0017
%RSD	1.208	21.36	3.572	.4723	500.3	354.2	.7591
#1	.0071	.0020	.0032	1.272	-.0004	-.0006	.2293
#2	.0072	.0030	.0030	1.266	.0007	.0008	.2262
#3	.0072	.0028	.0032	1.278	-.0007	-.0011	.2291

Zoom In Zoom Out

Sample Name: jc85075-10 Acquired: 4/3/2019 19:13:38 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113450.**	**10568.**	**4465.7**	**9819.0**
Stddev	227.	26.	7.3	6.2
%RSD	.20017	.24886	.16385	.06284
#1	113530.	10552.	4463.6	9812.8
#2	113630.	10599.	4473.8	9825.1
#3	113190.	10554.	4459.6	9819.2

Zoom In Zoom Out

Sample Name: jc85075-11 Acquired: 4/3/2019 19:19:01 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0223**	**-.0000**	**.0004**	**.0001**	**.0034**	**.0096**	**.0098**	**.0026**	**-.0004**
Stddev	.0002	.0001	.0001	.0001	.0004	.0001	.0000	.0003	.0004
%RSD	.6743	320.0	36.36	93.08	10.48	1.441	.1417	10.35	87.79
#1	.0225	.0000	.0005	.0002	.0030	.0095	.0098	.0026	-.0008
#2	.0222	.0000	.0005	-.0000	.0038	.0098	.0098	.0028	-.0001
#3	.0224	-.0001	.0002	.0003	.0034	.0096	.0098	.0023	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.1095**	**.0013**	**-.0009**	**.0738**	**.0009**	**.0012**	**.2215**	**3.553**
Stddev	.0000	.0006	.0012	.0001	.0005	.0014	.0007	.0070	.017
%RSD	7.453	.5894	91.95	12.30	.6476	152.3	56.60	3.169	.4787
#1	.0005	.1102	.0026	-.0008	.0740	.0008	.0012	.2169	3.553
#2	.0006	.1089	.0009	-.0009	.0733	.0023	.0005	.2296	3.536
#3	.0005	.1095	.0003	-.0010	.0741	-.0004	.0018	.2180	3.570

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3657**	**1.100**	**.5645**	**2.260**	**.0090**	**.0008**	**1.016**	**.0241**	**.0125**
Stddev	.0049	.024	.0189	.008	.0005	.0002	.004	.0003	.0001
%RSD	1.329	2.202	3.348	.3605	5.480	21.14	.3456	1.410	.6777
#1	.3713	1.088	.5434	2.262	.0095	.0006	1.020	.0245	.0124
#2	.3625	1.085	.5799	2.251	.0085	.0008	1.015	.0239	.0125
#3	.3633	1.128	.5701	2.267	.0091	.0009	1.013	.0238	.0126

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0091**	**.0026**	**.0022**	**.6409**	**-.0007**	**.0009**	**.2459**
Stddev	.0000	.0002	.0000	.0041	.0004	.0010	.0006
%RSD	.4504	7.515	2.103	.6327	54.86	108.6	.2316
#1	.0091	.0028	.0022	.6403	-.0005	-.0002	.2465
#2	.0090	.0024	.0022	.6372	-.0011	.0015	.2454
#3	.0091	.0026	.0023	.6452	-.0004	.0016	.2459

Zoom In Zoom Out

Sample Name: jc85075-11 Acquired: 4/3/2019 19:19:01 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113130.**	**10561.**	**4477.8**	**9855.2**
Stddev	109.	70.	5.0	1.4
%RSD	.09614	.66354	.11228	.01433
#1	113240.	10523.	4474.2	9856.7
#2	113020.	10642.	4475.6	9854.9
#3	113140.	10518.	4483.5	9853.9

Zoom In Zoom Out

Sample Name: jc85075-12 Acquired: 4/3/2019 19:24:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0531**	**.0001**	**.0009**	**.0012**	**.0091**	**.0550**	**.0373**	**.0079**	**.0000**
Stddev	.0005	.0001	.0001	.0003	.0003	.0002	.0001	.0001	.0002
%RSD	.9489	74.50	9.595	23.74	2.826	.4361	.3986	1.599	2292.
#1	.0530	.0000	.0010	.0014	.0093	.0553	.0374	.0081	.0002
#2	.0526	.0001	.0010	.0012	.0092	.0549	.0374	.0078	.0000
#3	.0536	.0001	.0008	.0009	.0088	.0549	.0371	.0078	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**.2612**	**.0031**	**-.0007**	**.0152**	**.0006**	**.0035**	**1.284**	**12.33**
Stddev	.0002	.0008	.0007	.0001	.0007	.0018	.0007	.002	.02
%RSD	8.116	.3105	24.25	20.49	4.514	321.7	19.57	.1320	.1547
#1	.0024	.2606	.0022	-.0009	.0160	.0006	.0043	1.285	12.35
#2	.0029	.2609	.0034	-.0007	.0146	.0023	.0032	1.282	12.31
#3	.0027	.2621	.0036	-.0006	.0151	-.0013	.0031	1.285	12.32

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.501**	**3.146**	**.6017**	**3.911**	**.0225**	**.0013**	**1.152**	**.0306**	**.0503**
Stddev	.011	.057	.0388	.019	.0008	.0000	.002	.0006	.0003
%RSD	.7039	1.813	6.457	.4833	3.334	2.257	.1784	2.074	.5768
#1	1.498	3.167	.6415	3.911	.0230	.0012	1.154	.0304	.0503
#2	1.492	3.082	.5639	3.892	.0217	.0013	1.150	.0313	.0501
#3	1.512	3.190	.5996	3.930	.0229	.0012	1.152	.0301	.0506

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0699**	**.0026**	**.0080**	**2.716**	**-.0004**	**.0014**	**.3014**
Stddev	.0002	.0006	.0001	.004	.0016	.0012	.0014
%RSD	.3268	24.30	1.247	.1617	399.4	88.96	.4610
#1	.0699	.0022	.0079	2.718	-.0004	.0026	.2999
#2	.0702	.0022	.0080	2.719	-.0021	.0001	.3016
#3	.0698	.0033	.0081	2.710	.0012	.0014	.3027

Zoom In Zoom Out

Sample Name: jc85075-12 Acquired: 4/3/2019 19:24:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112600.**	**10532.**	**4469.5**	**9726.5**
Stddev	134.	57.	2.6	4.2
%RSD	.11872	.53815	.05736	.04300
#1	112480.	10498.	4470.8	9723.6
#2	112590.	10597.	4471.1	9731.3
#3	112740.	10500.	4466.5	9724.6

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 19:29:46 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.929**	**1.924**	**1.952**	**1.954**	**1.960**	**1.904**	**1.961**	**1.957**	**.2400**
Stddev	.001	.002	.003	.002	.001	.003	.002	.001	.0004
%RSD	.0622	.0917	.1287	.0764	.0666	.1384	.0835	.0361	.1736
#1	1.930	1.926	1.952	1.955	1.962	1.905	1.963	1.957	.2404
#2	1.927	1.924	1.954	1.952	1.960	1.901	1.959	1.958	.2396
#3	1.929	1.923	1.949	1.954	1.959	1.905	1.962	1.957	.2400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.918**	**1.976**	**1.956**	**2.017**	**1.975**	**1.936**	**1.967**	**38.30**	**38.94**
Stddev	.002	.001	.004	.006	.001	.003	.002	.07	.10
%RSD	.1163	.0630	.2322	.2819	.0360	.1674	.1238	.1946	.2652
#1	1.920	1.977	1.952	2.012	1.976	1.937	1.968	38.39	39.05
#2	1.916	1.975	1.961	2.023	1.975	1.939	1.964	38.27	38.90
#3	1.918	1.976	1.954	2.015	1.976	1.933	1.968	38.25	38.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.54**	**38.28**	**38.18**	**38.37**	**1.986**	**1.982**	**4.941**	**2.006**	**1.919**
Stddev	.08	.08	.02	.02	.002	.002	.003	.004	.001
%RSD	.2122	.2007	.0521	.0643	.1099	.0735	.0671	.2023	.0253
#1	38.60	38.37	38.16	38.39	1.983	1.983	4.945	2.007	1.919
#2	38.45	38.26	38.20	38.36	1.988	1.982	4.938	2.010	1.919
#3	38.57	38.22	38.18	38.34	1.986	1.980	4.940	2.002	1.920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 19:29:46 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.938**	**1.954**	**1.939**	**1.949**	**1.962**	**1.911**	**1.969**
Stddev	.001	.001	.001	.005	.003	.002	.007
%RSD	.0576	.0407	.0292	.2700	.1323	.0862	.3393
#1	1.938	1.955	1.939	1.952	1.962	1.912	1.976
#2	1.937	1.954	1.938	1.951	1.965	1.909	1.969
#3	1.939	1.954	1.939	1.942	1.960	1.910	1.963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106880.**	**10256.**	**4359.1**	**8870.0**
Stddev	129.	32.	6.2	12.9
%RSD	.12077	.30832	.14320	.14576
#1	107020.	10241.	4352.4	8859.6
#2	106870.	10235.	4364.7	8884.5
#3	106770.	10293.	4360.2	8866.0

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 19:34:47 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0002**	**-.0000**	**-.0000**	**-.0005**	**.0000**	**.0002**	**-.0003**
Stddev	.0001	.0001	.0001	.0001	.0003	.0003	.0001	.0003	.0001
%RSD	120.4	95.67	36.43	400.6	738.6	61.65	188.3	177.4	24.21
#1	.0001	.0000	.0001	-.0002	-.0001	-.0008	.0000	.0005	-.0004
#2	.0001	.0001	.0002	.0001	-.0003	-.0002	-.0000	.0000	-.0003
#3	-.0000	.0002	.0002	.0000	.0003	-.0005	.0001	-.0000	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0002**	**.0001**	**.0000**	**.0006**	**-.0006**	**-.0004**	**.0036**	**-.0044**
Stddev	.0001	.0000	.0008	.0003	.0004	.0014	.0008	.0135	.0037
%RSD	47.74	15.35	684.6	1105.	65.77	243.5	205.9	379.9	83.79
#1	.0003	-.0002	.0001	-.0003	.0002	.0002	-.0013	-.0034	-.0087
#2	.0002	-.0002	-.0007	.0004	.0009	-.0023	-.0000	-.0050	-.0019
#3	.0004	-.0003	.0009	.0000	.0007	.0003	.0001	.0191	-.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068**	**.0125**	**.0002**	**-.0071**	**-.0004**	**.0003**	**.0013**	**.0000**	**-.0001**
Stddev	.0018	.0235	.0322	.0119	.0002	.0002	.0007	.0002	.0000
%RSD	26.45	188.4	16340.	167.8	45.95	64.33	53.02	6321.	46.91
#1	.0079	-.0028	-.0328	.0013	-.0002	.0004	.0016	.0001	-.0001
#2	.0047	.0396	.0021	-.0206	-.0004	.0001	.0018	.0002	-.0000
#3	.0077	.0007	.0314	-.0018	-.0005	.0003	.0005	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 19:34:47 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0010**	**.0002**	**-.0019**	**-.0009**	**.0005**	**.0015**
Stddev	.0003	.0002	.0002	.0007	.0012	.0010	.0003
%RSD	111.1	22.39	81.10	36.22	141.8	182.0	20.34
#1	-.0005	.0009	.0000	-.0025	-.0008	.0009	.0017
#2	.0001	.0008	.0004	-.0011	-.0021	-.0006	.0012
#3	-.0003	.0012	.0003	-.0020	.0003	.0013	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112700.**	**10346.**	**4498.8**	**9881.6**
Stddev	220.	62.	.5	6.0
%RSD	.19506	.59474	.01191	.06029
#1	112910.	10339.	4499.4	9888.1
#2	112470.	10289.	4498.4	9876.5
#3	112710.	10411.	4498.6	9880.1

Zoom In Zoom Out

Sample Name: jc85075-13 Acquired: 4/3/2019 19:40:17 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0261**	**.0001**	**.0002**	**.0006**	**.0027**	**.0224**	**.0067**	**.0016**	**.0002**
Stddev	.0004	.0000	.0001	.0002	.0002	.0004	.0001	.0002	.0004
%RSD	1.655	49.77	61.38	27.75	6.531	1.620	.9840	14.60	196.9
#1	.0261	.0001	.0002	.0006	.0029	.0226	.0066	.0013	-.0002
#2	.0256	.0000	.0001	.0004	.0026	.0226	.0068	.0018	.0003
#3	.0265	.0000	.0004	.0008	.0026	.0220	.0068	.0017	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.2454**	**.0015**	**-.0007**	**.0097**	**.0008**	**.0004**	**.2323**	**2.369**
Stddev	.0004	.0003	.0008	.0011	.0001	.0020	.0006	.0090	.003
%RSD	88.63	.1273	54.87	150.2	.7417	258.3	152.5	3.895	.1298
#1	.0006	.2451	.0022	.0001	.0096	-.0005	.0003	.2407	2.370
#2	.0000	.2457	.0018	-.0020	.0098	.0031	.0010	.2227	2.366
#3	.0008	.2453	.0006	-.0003	.0097	-.0002	-.0001	.2336	2.371

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1665**	**.8468**	**.4196**	**2.771**	**.0084**	**.0009**	**.8753**	**.0246**	**.0129**
Stddev	.0033	.0220	.0154	.001	.0001	.0002	.0049	.0001	.0001
%RSD	1.992	2.600	3.665	.0474	.8601	18.10	.5544	.2974	.5924
#1	.1674	.8538	.4023	2.773	.0084	.0009	.8783	.0245	.0129
#2	.1692	.8645	.4317	2.770	.0085	.0007	.8778	.0246	.0129
#3	.1628	.8222	.4248	2.772	.0083	.0010	.8697	.0247	.0130

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051**	**.0056**	**.0056**	**.7661**	**.0001**	**.0008**	**.2266**
Stddev	.0004	.0004	.0001	.0043	.0014	.0010	.0007
%RSD	6.977	7.727	1.927	.5653	1144.	127.0	.3080
#1	.0052	.0059	.0057	.7708	-.0012	-.0003	.2263
#2	.0054	.0058	.0055	.7651	.0001	.0015	.2261
#3	.0047	.0051	.0055	.7623	.0015	.0011	.2274

Zoom In Zoom Out

Sample Name: jc85075-13 Acquired: 4/3/2019 19:40:17 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**114280.**	**10699.**	**4484.7**	**9867.8**
Stddev	280.	59.	8.5	8.6
%RSD	.24539	.54938	.18867	.08692
#1	114420.	10645.	4486.8	9875.3
#2	114470.	10692.	4475.4	9858.4
#3	113960.	10761.	4491.9	9869.7

Zoom In Zoom Out

Sample Name: jc85075-14 Acquired: 4/3/2019 19:45:41 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204**	**.0000**	**.0002**	**.0008**	**.0026**	**.0483**	**.0061**	**.0014**	**-.0000**
Stddev	.0001	.0001	.0001	.0001	.0003	.0004	.0000	.0003	.0003
%RSD	.6591	277.2	39.32	13.66	10.55	.9188	.1879	25.34	658.5
#1	.0204	-.0000	.0001	.0008	.0024	.0488	.0061	.0016	-.0001
#2	.0203	.0000	.0002	.0007	.0029	.0480	.0061	.0015	-.0003
#3	.0206	.0001	.0003	.0009	.0024	.0482	.0061	.0010	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.1533**	**.0009**	**-.0003**	**.0020**	**.0015**	**.0003**	**.3282**	**2.812**
Stddev	.0001	.0006	.0005	.0001	.0007	.0004	.0007	.0021	.005
%RSD	19.65	.3748	57.02	36.18	36.42	28.24	212.1	.6318	.1785
#1	.0004	.1533	.0011	-.0003	.0025	.0014	.0010	.3306	2.808
#2	.0003	.1527	.0012	-.0002	.0024	.0011	-.0004	.3266	2.810
#3	.0004	.1538	.0003	-.0004	.0012	.0019	.0003	.3275	2.817

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1497**	**.9064**	**.4707**	**2.684**	**.0095**	**.0006**	**.9081**	**.0250**	**.0098**
Stddev	.0036	.0243	.0204	.006	.0004	.0001	.0030	.0001	.0001
%RSD	2.372	2.680	4.340	.2419	3.995	16.79	.3351	.4014	.6183
#1	.1498	.8819	.4930	2.682	.0091	.0007	.9069	.0249	.0097
#2	.1461	.9069	.4528	2.692	.0095	.0006	.9058	.0251	.0098
#3	.1532	.9305	.4664	2.680	.0099	.0005	.9116	.0251	.0098

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040**	**.0015**	**.0009**	**.7245**	**.0001**	**-.0016**	**.2237**
Stddev	.0002	.0006	.0002	.0024	.0011	.0004	.0016
%RSD	6.167	42.06	25.50	.3356	1646.	28.06	.7059
#1	.0042	.0022	.0009	.7232	.0013	-.0015	.2218
#2	.0040	.0011	.0012	.7229	-.0008	-.0020	.2248
#3	.0037	.0012	.0007	.7273	-.0002	-.0011	.2244

Zoom In Zoom Out

Sample Name: jc85075-14 Acquired: 4/3/2019 19:45:41 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**114300.**	**10575.**	**4488.0**	**9873.6**
Stddev	85.	19.	9.9	12.8
%RSD	.07434	.18359	.22148	.12927
#1	114270.	10556.	4484.9	9864.6
#2	114400.	10595.	4499.1	9888.2
#3	114240.	10573.	4479.9	9868.0

Zoom In Zoom Out

Sample Name: jc85075-15 Acquired: 4/3/2019 19:51:04 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1142**	**-.0000**	**.0005**	**.0006**	**.0066**	**.2756**	**.0213**	**.0095**	**.0010**
Stddev	.0005	.0001	.0000	.0002	.0003	.0008	.0001	.0001	.0002
%RSD	.4633	184.7	2.859	25.81	5.086	.2904	.3136	1.073	21.13
#1	.1146	-.0001	.0005	.0005	.0068	.2760	.0213	.0094	.0012
#2	.1136	-.0001	.0005	.0008	.0068	.2761	.0214	.0095	.0008
#3	.1144	.0000	.0005	.0006	.0062	.2747	.0212	.0096	.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.3440**	**.0011**	**-.0008**	**.0228**	**.0019**	**.0015**	**2.393**	**7.944**
Stddev	.0003	.0010	.0010	.0001	.0002	.0004	.0005	.013	.013
%RSD	29.34	.2849	96.66	13.80	.9459	20.55	35.77	.5325	.1689
#1	.0014	.3438	.0009	-.0009	.0228	.0023	.0011	2.406	7.960
#2	.0009	.3451	.0001	-.0009	.0231	.0017	.0013	2.380	7.936
#3	.0009	.3431	.0022	-.0007	.0226	.0016	.0021	2.394	7.937

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.793**	**1.657**	**.6659**	**2.889**	**.0149**	**.0021**	**1.056**	**.0247**	**.0499**
Stddev	.018	.030	.0199	.007	.0004	.0000	.005	.0004	.0002
%RSD	.9971	1.807	2.983	.2341	2.731	2.204	.4683	1.609	.3521
#1	1.813	1.637	.6886	2.892	.0154	.0022	1.062	.0251	.0501
#2	1.780	1.691	.6515	2.881	.0145	.0021	1.054	.0245	.0499
#3	1.786	1.642	.6577	2.893	.0149	.0021	1.053	.0244	.0497

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211**	**.0024**	**.0063**	**1.248**	**-.0000**	**.0033**	**.2855**
Stddev	.0002	.0007	.0000	.002	.0011	.0007	.0015
%RSD	.9459	28.76	.5951	.1809	4269.	21.12	.5229
#1	.0209	.0026	.0063	1.250	-.0000	.0028	.2861
#2	.0212	.0016	.0063	1.246	-.0011	.0031	.2865
#3	.0212	.0029	.0062	1.247	.0010	.0041	.2838

Zoom In Zoom Out

Sample Name: jc85075-15 Acquired: 4/3/2019 19:51:04 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113280.**	**10444.**	**4503.9**	**9816.7**
Stddev	441.	89.	5.0	7.7
%RSD	.38894	.85644	.10997	.07891
#1	112950.	10369.	4498.2	9808.3
#2	113780.	10543.	4506.4	9823.6
#3	113100.	10422.	4507.0	9818.2

Zoom In Zoom Out

Sample Name: jc85075-16 Acquired: 4/3/2019 19:56:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3871**	**-.0001**	**.0003**	**.0007**	**.0067**	**.1689**	**.0158**	**.0031**	**-.0000**
Stddev	.0007	.0001	.0002	.0001	.0003	.0014	.0000	.0002	.0004
%RSD	.1874	72.15	62.65	12.96	4.559	.8233	.1300	7.199	1165.
#1	.3872	-.0002	.0001	.0007	.0064	.1698	.0158	.0030	-.0002
#2	.3877	-.0001	.0003	.0006	.0069	.1673	.0158	.0034	.0004
#3	.3863	-.0000	.0005	.0007	.0068	.1696	.0157	.0030	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.2264**	**.0012**	**-.0006**	**.0211**	**.0003**	**.0023**	**1.517**	**7.231**
Stddev	.0004	.0004	.0012	.0006	.0010	.0005	.0006	.002	.068
%RSD	50.78	.1621	96.52	96.40	4.793	186.4	23.66	.1241	.9362
#1	.0013	.2260	.0013	-.0010	.0222	.0006	.0024	1.518	7.309
#2	.0006	.2267	-.0000	.0001	.0207	-.0003	.0029	1.517	7.196
#3	.0005	.2266	.0023	-.0008	.0203	.0005	.0018	1.515	7.188

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7541**	**1.356**	**.5499**	**3.919**	**.0129**	**.0072**	**.9329**	**.0252**	**.1964**
Stddev	.0075	.028	.0157	.008	.0003	.0000	.0017	.0000	.0004
%RSD	.9991	2.065	2.857	.1977	2.334	.6544	.1812	.0743	.2033
#1	.7551	1.383	.5452	3.927	.0128	.0072	.9309	.0252	.1968
#2	.7610	1.357	.5371	3.912	.0132	.0072	.9335	.0252	.1965
#3	.7461	1.327	.5675	3.918	.0126	.0072	.9342	.0252	.1960

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125**	**.0044**	**.0060**	**.8389**	**-.0009**	**.0159**	**.2627**
Stddev	.0001	.0005	.0001	.0053	.0009	.0010	.0027
%RSD	.4011	10.70	1.092	.6370	98.40	6.483	1.039
#1	.0125	.0049	.0060	.8346	-.0008	.0150	.2620
#2	.0125	.0044	.0061	.8449	-.0001	.0170	.2657
#3	.0126	.0040	.0060	.8372	-.0019	.0156	.2604

Zoom In Zoom Out

Sample Name: jc85075-16 Acquired: 4/3/2019 19:56:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113280.**	**10473.**	**4495.2**	**9825.2**
Stddev	288.	28.	2.5	11.5
%RSD	.25455	.27008	.05601	.11720
#1	113360.	10440.	4496.1	9832.0
#2	113510.	10490.	4492.3	9811.9
#3	112960.	10488.	4497.1	9831.7

Zoom In Zoom Out

Sample Name: jc85503-1 Acquired: 4/3/2019 20:01:47 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: mp13765

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0441**	**.0010**	**.0002**	**.0031**	**.0736**	**.0025**	**.0259**	**.0120**	**.0009**
Stddev	.0003	.0000	.0001	.0001	.0006	.0003	.0001	.0003	.0003
%RSD	.7165	4.050	49.27	2.583	.7868	10.36	.3189	2.193	34.52
#1	.0444	.0010	.0001	.0031	.0741	.0024	.0258	.0121	.0007
#2	.0439	.0011	.0002	.0031	.0730	.0022	.0260	.0122	.0012
#3	.0439	.0010	.0003	.0030	.0736	.0027	.0259	.0117	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1075**	**.0750**	**.0085**	**-.0002**	**.0077**	**-.0002**	**.0016**	**7.733**	**1.418**
Stddev	.0003	.0005	.0006	.0010	.0004	.0011	.0008	.008	.008
%RSD	.2543	.6442	6.931	442.6	4.636	519.9	51.48	.1002	.5660
#1	.1075	.0752	.0084	-.0013	.0078	-.0004	.0024	7.726	1.418
#2	.1073	.0753	.0079	.0006	.0073	-.0012	.0018	7.741	1.425
#3	.1078	.0744	.0091	.0000	.0080	.0009	.0007	7.733	1.409

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.40**	**1.431**	**13.01**	**1.552**	**.0181**	**.0007**	**14.83**	**-.0010**	**.0148**
Stddev	.07	.038	.02	.004	.0004	.0001	.09	.0001	.0001
%RSD	.1836	2.682	.1730	.2746	2.083	11.24	.5868	6.878	.9066
#1	40.45	1.470	13.00	1.550	.0177	.0006	14.81	-.0010	.0149
#2	40.43	1.430	13.04	1.557	.0183	.0007	14.92	-.0010	.0149
#3	40.31	1.394	12.99	1.550	.0183	.0008	14.75	-.0011	.0147

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2521**	**.0145**	**.0034**	**3.605**	**-.0010**	**.0052**	**.7677**
Stddev	.0014	.0010	.0001	.015	.0005	.0009	.0028
%RSD	.5404	7.037	3.957	.4183	50.08	17.94	.3640
#1	.2510	.0145	.0033	3.595	-.0005	.0045	.7683
#2	.2516	.0155	.0033	3.622	-.0015	.0048	.7701
#3	.2536	.0135	.0035	3.598	-.0009	.0062	.7646

Zoom In Zoom Out

Sample Name: jc85503-1 Acquired: 4/3/2019 20:01:47 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: mp13765

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113260.**	**10562.**	**4522.8**	**9688.7**
Stddev	121.	89.	25.6	46.8
%RSD	.10669	.84556	.56621	.48290
#1	113190.	10497.	4519.3	9682.1
#2	113200.	10526.	4499.0	9645.5
#3	113400.	10664.	4549.9	9738.4

Zoom In Zoom Out

Sample Name: jc85503-2 Acquired: 4/3/2019 20:07:05 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0996**	**.0008**	**.0004**	**.0055**	**.0407**	**.0015**	**.0360**	**.0142**	**.0000**
Stddev	.0006	.0001	.0000	.0002	.0006	.0001	.0001	.0001	.0005
%RSD	.6305	9.078	4.920	3.122	1.491	9.277	.3674	1.024	7204.
#1	.0994	.0007	.0005	.0057	.0414	.0014	.0359	.0141	-.0006
#2	.0991	.0008	.0004	.0054	.0402	.0015	.0360	.0142	.0004
#3	.1003	.0007	.0004	.0055	.0405	.0017	.0362	.0144	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0593**	**.0827**	**.0047**	**.0003**	**.0046**	**-.0008**	**.0008**	**4.516**	**4.508**
Stddev	.0001	.0002	.0007	.0011	.0005	.0003	.0006	.023	.006
%RSD	.2315	.2586	15.10	342.1	11.36	31.14	70.09	.5104	.1345
#1	.0594	.0826	.0042	.0015	.0041	-.0011	.0006	4.489	4.509
#2	.0592	.0825	.0055	.0001	.0052	-.0009	.0015	4.524	4.502
#3	.0594	.0829	.0044	-.0007	.0046	-.0006	.0004	4.533	4.514

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.82**	**4.757**	**5.425**	**10.80**	**.0286**	**.0006**	**12.65**	**-.0012**	**.0425**
Stddev	.05	.013	.010	.03	.0002	.0001	.01	.0004	.0002
%RSD	.2323	.2622	.1855	.2606	.6099	24.36	.1162	33.18	.5087
#1	21.79	4.763	5.432	10.80	.0285	.0005	12.66	-.0015	.0426
#2	21.78	4.743	5.430	10.78	.0284	.0007	12.65	-.0007	.0423
#3	21.88	4.766	5.414	10.83	.0288	.0005	12.64	-.0013	.0427

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1404**	**.0128**	**.0020**	**1.399**	**-.0010**	**.0055**	**.4344**
Stddev	.0005	.0010	.0001	.002	.0011	.0018	.0009
%RSD	.3388	7.832	5.959	.1487	110.3	32.17	.2151
#1	.1399	.0136	.0018	1.398	-.0018	.0070	.4335
#2	.1409	.0131	.0020	1.401	-.0015	.0035	.4354
#3	.1405	.0117	.0020	1.397	.0003	.0059	.4344

Zoom In Zoom Out

Sample Name: jc85503-2 Acquired: 4/3/2019 20:07:05 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112200.**	**10468.**	**4532.5**	**9627.5**
Stddev	245.	37.	4.1	8.1
%RSD	.21851	.35222	.09127	.08426
#1	112350.	10439.	4527.8	9619.9
#2	112330.	10509.	4533.9	9636.0
#3	111910.	10455.	4535.7	9626.6

Zoom In Zoom Out

Sample Name: jc85503-3 Acquired: 4/3/2019 20:12:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0992**	**.0009**	**.0005**	**.0102**	**.0511**	**.0034**	**.1265**	**.0183**	**.0001**
Stddev	.0002	.0000	.0002	.0002	.0004	.0001	.0004	.0002	.0004
%RSD	.1589	4.258	40.00	2.094	.8543	3.770	.2849	.9700	292.3
#1	.0991	.0009	.0005	.0100	.0510	.0032	.1269	.0182	-.0002
#2	.0991	.0009	.0006	.0102	.0507	.0035	.1263	.0185	.0005
#3	.0994	.0009	.0003	.0104	.0515	.0034	.1264	.0183	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0708**	**.0864**	**.0056**	**-.0007**	**.0074**	**-.0016**	**.0009**	**6.253**	**14.93**
Stddev	.0005	.0002	.0009	.0011	.0010	.0011	.0014	.020	.04
%RSD	.6414	.1845	16.40	157.5	14.21	67.39	159.0	.3165	.2604
#1	.0710	.0864	.0046	-.0002	.0084	-.0013	.0024	6.262	14.90
#2	.0703	.0862	.0057	.0001	.0063	-.0008	-.0001	6.267	14.98
#3	.0711	.0865	.0065	-.0020	.0074	-.0029	.0003	6.231	14.92

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.56**	**3.885**	**5.511**	**55.65**	**.0236**	**.0007**	**14.71**	**-.0012**	**.1239**
Stddev	.04	.006	.018	.07	.0005	.0003	.03	.0003	.0005
%RSD	.1469	.1657	.3207	.1306	2.015	46.04	.1954	22.13	.4381
#1	25.58	3.892	5.521	55.58	.0241	.0008	14.69	-.0013	.1233
#2	25.59	3.880	5.522	55.72	.0232	.0009	14.70	-.0009	.1244
#3	25.52	3.883	5.491	55.64	.0235	.0003	14.75	-.0015	.1240

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1678**	**.0149**	**.0021**	**.6306**	**-.0007**	**.0042**	**.4986**
Stddev	.0008	.0003	.0002	.0018	.0011	.0002	.0028
%RSD	.4566	1.685	11.16	.2846	169.8	3.828	.5667
#1	.1678	.0152	.0020	.6286	.0005	.0043	.4953
#2	.1685	.0148	.0019	.6317	-.0018	.0040	.4998
#3	.1670	.0147	.0024	.6316	-.0008	.0042	.5005

Zoom In Zoom Out

Sample Name: jc85503-3 Acquired: 4/3/2019 20:12:24 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109790.**	**10413.**	**4441.7**	**9233.6**
Stddev	351.	50.	2.6	6.2
%RSD	.32015	.47861	.05843	.06669
#1	109430.	10376.	4438.7	9229.0
#2	109800.	10393.	4443.4	9231.2
#3	110130.	10469.	4443.1	9240.6

Zoom In Zoom Out

Sample Name: jc85503-4 Acquired: 4/3/2019 20:17:44 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1320**	**.0006**	**.0017**	**.0228**	**.0235**	**.0019**	**.0502**	**.0459**	**.0003**
Stddev	.0002	.0000	.0002	.0003	.0003	.0005	.0001	.0002	.0002
%RSD	.1390	5.862	11.67	1.465	1.396	24.92	.1834	.3963	73.75
#1	.1321	.0006	.0016	.0226	.0236	.0017	.0502	.0461	.0003
#2	.1318	.0006	.0019	.0232	.0231	.0025	.0503	.0457	.0005
#3	.1322	.0006	.0015	.0227	.0238	.0017	.0501	.0458	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0320**	**.1773**	**.0026**	**.0000**	**.0032**	**-.0002**	**-.0006**	**2.394**	**12.69**
Stddev	.0004	.0001	.0006	.0016	.0006	.0003	.0004	.016	.02
%RSD	1.337	.0411	24.42	29150.	18.88	207.2	78.62	.6466	.1523
#1	.0323	.1773	.0030	.0010	.0027	.0002	-.0005	2.384	12.67
#2	.0322	.1772	.0028	-.0018	.0031	-.0005	-.0001	2.412	12.71
#3	.0315	.1773	.0018	.0009	.0039	-.0002	-.0010	2.386	12.69

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.81**	**10.55**	**5.036**	**15.06**	**.0136**	**.0005**	**9.583**	**-.0008**	**.0922**
Stddev	.01	.10	.052	.04	.0003	.0002	.023	.0004	.0002
%RSD	.0565	.9276	1.036	.2325	2.539	31.69	.2387	49.54	.1631
#1	10.81	10.48	5.022	15.03	.0135	.0003	9.587	-.0012	.0922
#2	10.82	10.66	5.094	15.10	.0133	.0006	9.604	-.0006	.0923
#3	10.81	10.51	4.993	15.05	.0140	.0006	9.559	-.0005	.0920

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0775**	**.0096**	**.0012**	**.3119**	**-.0014**	**.0054**	**.2068**
Stddev	.0008	.0004	.0002	.0013	.0010	.0006	.0012
%RSD	1.041	4.470	19.57	.4291	73.40	11.37	.5877
#1	.0776	.0101	.0014	.3114	-.0015	.0050	.2076
#2	.0766	.0095	.0010	.3134	-.0024	.0051	.2073
#3	.0782	.0093	.0014	.3109	-.0003	.0061	.2054

Zoom In Zoom Out

Sample Name: jc85503-4 Acquired: 4/3/2019 20:17:44 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112010.**	**10524.**	**4491.4**	**9518.1**
Stddev	184.	41.	7.1	12.6
%RSD	.16393	.38816	.15769	.13216
#1	111980.	10569.	4490.1	9510.0
#2	111850.	10489.	4485.1	9511.7
#3	112210.	10513.	4499.0	9532.6

Zoom In Zoom Out

Sample Name: jc85513-1 Acquired: 4/3/2019 20:23:05 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0717**	**-.0001**	**-.0001**	**-.0001**	**.0004**	**.0001**	**.0017**	**.0003**	**.0001**
Stddev	.0003	.0001	.0003	.0002	.0003	.0001	.0001	.0003	.0004
%RSD	.4453	97.71	219.7	293.8	72.77	185.2	6.126	90.23	451.3
#1	.0718	-.0002	-.0003	-.0002	.0001	.0002	.0016	.0005	-.0001
#2	.0720	.0000	.0002	.0001	.0005	.0001	.0018	-.0000	-.0001
#3	.0714	-.0002	-.0002	-.0001	.0006	-.0001	.0017	.0005	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0002**	**-.0009**	**-.0005**	**.0002**	**.0004**	**-.0006**	**.0048**	**20.56**
Stddev	.0002	.0002	.0002	.0008	.0005	.0006	.0005	.0072	.04
%RSD	44.71	84.86	25.71	163.4	233.1	134.9	77.58	150.9	.1941
#1	.0004	.0002	-.0010	-.0012	.0008	.0009	-.0008	.0023	20.61
#2	.0002	.0000	-.0006	.0004	-.0001	-.0002	-.0010	-.0009	20.55
#3	.0005	.0004	-.0010	-.0007	-.0000	.0006	-.0001	.0129	20.53

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0172**	**4.507**	**2.328**	**37.12**	**.0495**	**.0003**	**4.206**	**-.0012**	**.0852**
Stddev	.0035	.027	.009	.10	.0006	.0001	.070	.0004	.0003
%RSD	20.14	.6004	.4070	.2728	1.252	45.61	1.653	35.01	.3363
#1	.0151	4.480	2.337	37.23	.0492	.0002	4.195	-.0008	.0849
#2	.0154	4.534	2.328	37.09	.0491	.0002	4.143	-.0016	.0854
#3	.0212	4.508	2.318	37.03	.0502	.0004	4.280	-.0012	.0854

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0091**	**-.0001**	**3.561**	**-.0012**	**-.0012**	**.0044**
Stddev	.0002	.0009	.0001	.062	.0002	.0005	.0008
%RSD	30.79	10.42	56.68	1.738	17.98	37.18	17.83
#1	-.0008	.0086	-.0002	3.551	-.0015	-.0013	.0045
#2	-.0004	.0085	-.0001	3.505	-.0010	-.0007	.0036
#3	-.0006	.0102	-.0001	3.627	-.0012	-.0016	.0051

Zoom In Zoom Out

Sample Name: jc85513-1 Acquired: 4/3/2019 20:23:05 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109740.**	**10352.**	**4434.9**	**9414.1**
Stddev	90.	114.	61.0	126.8
%RSD	.08172	1.1047	1.3751	1.3467
#1	109750.	10220.	4438.2	9410.8
#2	109650.	10425.	4494.2	9542.5
#3	109830.	10410.	4372.4	9289.0

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 20:28:30 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.955**	**1.940**	**1.973**	**1.952**	**1.957**	**1.916**	**1.976**	**1.976**	**.2399**
Stddev	.002	.002	.004	.004	.003	.002	.002	.004	.0006
%RSD	.1084	.0985	.2170	.2210	.1437	.0807	.0761	.2264	.2628
#1	1.955	1.942	1.971	1.951	1.956	1.918	1.974	1.973	.2394
#2	1.957	1.939	1.978	1.957	1.961	1.915	1.977	1.981	.2397
#3	1.953	1.938	1.970	1.949	1.955	1.915	1.977	1.974	.2406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.939**	**1.982**	**1.964**	**2.029**	**1.981**	**1.955**	**1.975**	**38.62**	**38.99**
Stddev	.002	.005	.002	.008	.004	.004	.003	.09	.08
%RSD	.1164	.2557	.0828	.3766	.1746	.1918	.1671	.2221	.2028
#1	1.936	1.980	1.965	2.023	1.979	1.955	1.973	38.52	38.94
#2	1.940	1.988	1.962	2.027	1.985	1.959	1.979	38.69	39.08
#3	1.940	1.978	1.965	2.037	1.980	1.952	1.974	38.64	38.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.92**	**38.45**	**38.46**	**38.60**	**1.988**	**1.992**	**4.955**	**2.009**	**1.950**
Stddev	.09	.17	.04	.11	.004	.004	.009	.002	.002
%RSD	.2200	.4452	.1027	.2889	.2242	.1804	.1834	.0881	.0976
#1	38.92	38.25	38.50	38.59	1.985	1.990	4.960	2.009	1.949
#2	39.01	38.54	38.42	38.71	1.993	1.996	4.960	2.010	1.952
#3	38.83	38.55	38.46	38.49	1.985	1.989	4.944	2.007	1.950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 20:28:30 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.957**	**1.961**	**1.956**	**1.953**	**1.959**	**1.918**	**1.981**
Stddev	.001	.005	.002	.009	.001	.004	.004
%RSD	.0596	.2720	.0930	.4703	.0451	.2296	.2010
#1	1.956	1.962	1.955	1.960	1.959	1.915	1.981
#2	1.958	1.966	1.955	1.943	1.960	1.923	1.978
#3	1.958	1.955	1.958	1.956	1.958	1.915	1.986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107580.**	**10365.**	**4384.4**	**8926.7**
Stddev	160.	26.	9.6	14.4
%RSD	.14863	.25311	.21991	.16125
#1	107720.	10365.	4387.6	8930.4
#2	107400.	10339.	4373.6	8910.8
#3	107610.	10391.	4392.0	8938.9

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 20:33:32 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	**.0003**	**.0003**	**-.0001**	**.0001**	**.0001**	**.0001**	**.0004**
Stddev	.0002	.0001	.0003	.0002	.0003	.0002	.0001	.0002	.0003
%RSD	567.8	48.94	116.2	69.00	376.3	187.6	49.20	163.1	86.73
#1	-.0001	.0001	.0006	.0003	-.0003	-.0001	.0001	.0001	.0002
#2	-.0000	.0002	.0001	.0005	-.0002	.0002	.0001	.0003	.0007
#3	.0002	.0001	.0001	.0001	.0002	.0002	.0002	-.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**.0001**	**.0014**	**-.0002**	**.0004**	**-.0002**	**-.0019**	**-.0030**
Stddev	.0002	.0001	.0007	.0010	.0003	.0012	.0003	.0091	.0033
%RSD	78.29	122.6	640.0	71.66	209.1	273.3	149.1	480.3	112.6
#1	.0001	.0000	-.0003	.0019	-.0005	.0015	.0001	-.0116	.0008
#2	.0001	-.0001	-.0003	.0020	.0001	-.0009	-.0004	-.0006	-.0043
#3	.0004	-.0002	.0009	.0002	-.0000	.0008	-.0003	.0065	-.0055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**-.0085**	**.0169**	**.0104**	**.0004**	**.0003**	**.0011**	**.0001**	**-.0000**
Stddev	.0036	.0219	.0327	.0057	.0005	.0003	.0007	.0002	.0001
%RSD	173.9	257.3	193.5	54.57	153.8	93.99	67.47	202.8	1725.
#1	.0047	.0139	.0534	.0040	.0009	.0006	.0016	.0003	-.0000
#2	.0035	-.0299	.0071	.0147	.0003	.0004	.0015	-.0001	.0001
#3	-.0020	-.0095	-.0098	.0126	-.0001	-.0000	.0002	.0001	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 20:33:32 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0012**	**.0004**	**-.0015**	**-.0000**	**.0026**	**-.0011**
Stddev	.0002	.0014	.0002	.0008	.0015	.0009	.0002
%RSD	629.2	111.5	46.80	52.52	3717.	35.14	14.23
#1	-.0002	.0014	.0003	-.0007	.0013	.0020	-.0011
#2	.0001	.0024	.0003	-.0017	-.0017	.0036	-.0009
#3	.0003	-.0002	.0006	-.0022	.0003	.0021	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112880.**	**10299.**	**4543.4**	**9972.6**
Stddev	407.	64.	4.0	12.7
%RSD	.36056	.61696	.08799	.12689
#1	112650.	10227.	4545.6	9981.6
#2	112650.	10321.	4545.7	9978.0
#3	113350.	10348.	4538.7	9958.1

Zoom In Zoom Out

Sample Name: vconf Acquired: 4/3/2019 20:39:02 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0005**	**-.0006**	**.0003**	**-.0002**	**.0002**	**-.0001**	**.0002**	**.0003**
Stddev	.0002	.0000	.0001	.0002	.0004	.0001	.0000	.0001	.0003
%RSD	41.90	7.738	21.91	66.54	274.5	52.67	30.84	43.42	116.3
#1	.0005	.0005	-.0006	.0002	-.0003	.0001	-.0001	.0003	.0001
#2	.0008	.0005	-.0005	.0001	-.0005	.0001	-.0002	.0001	.0007
#3	.0003	.0006	-.0007	.0005	.0003	.0003	-.0001	.0003	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.78**	**.0003**	**.0004**	**-.0016**	**-.0007**	**-.0003**	**.0013**	**.0084**	**.0083**
Stddev	.01	.0001	.0001	.0015	.0002	.0006	.0006	.0023	.0022
%RSD	.0504	26.58	26.62	96.32	30.84	190.0	47.44	27.76	25.96
#1	10.78	.0002	.0004	-.0003	-.0006	-.0003	.0010	.0058	.0081
#2	10.78	.0003	.0003	-.0012	-.0009	.0003	.0019	.0104	.0063
#3	10.77	.0004	.0006	-.0032	-.0005	-.0008	.0008	.0089	.0106

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057**	**-.0090**	**-.0022**	**.0635**	**.0246**	**.0006**	**.4835**	**-.0007**	**-.0002**
Stddev	.0038	.0389	.0131	.0016	.0010	.0002	.0042	.0002	.0001
%RSD	66.68	432.4	592.3	2.584	4.093	39.39	.8741	24.54	46.75
#1	.0077	.0046	.0074	.0652	.0240	.0005	.4815	-.0006	-.0002
#2	.0013	.0213	-.0171	.0619	.0241	.0005	.4806	-.0009	-.0001
#3	.0081	-.0529	.0031	.0632	.0258	.0009	.4884	-.0007	-.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0032**	**-.0006**	**-.0033**	**-.0008**	**.0005**	**-.0066**
Stddev	.0004	.0002	.0002	.0013	.0006	.0003	.0004
%RSD	152.5	5.897	25.45	37.64	77.40	53.25	5.810
#1	.0001	.0030	-.0005	-.0037	-.0003	.0005	-.0065
#2	.0007	.0033	-.0007	-.0019	-.0006	.0002	-.0070
#3	-.0000	.0032	-.0008	-.0044	-.0015	.0008	-.0063

Zoom In Zoom Out

Sample Name: vconf Acquired: 4/3/2019 20:39:02 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112580.**	**10375.**	**4536.0**	**9925.0**
Stddev	198.	74.	3.6	13.1
%RSD	.17604	.71471	.07842	.13163
#1	112360.	10429.	4537.2	9930.8
#2	112610.	10291.	4532.0	9910.0
#3	112760.	10406.	4538.8	9934.1

Zoom In Zoom Out

Sample Name: moconf Acquired: 4/3/2019 20:44:30 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0002**	**.0002**	**.0020**	**-.0017**	**-.0002**	**-.0006**	**-.0003**	**.0015**
Stddev	.0001	.0001	.0002	.0002	.0002	.0003	.0001	.0002	.0002
%RSD	60.23	42.10	71.99	9.711	10.50	186.7	10.78	70.63	14.92
#1	-.0002	-.0001	.0003	.0019	-.0016	-.0005	-.0006	-.0001	.0014
#2	-.0001	-.0003	.0003	.0018	-.0019	.0000	-.0006	-.0004	.0014
#3	-.0003	-.0002	.0000	.0022	-.0016	-.0000	-.0005	-.0005	.0018

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081**	**-.0014**	**-.0013**	**-.0019**	**.0007**	**-.0022**	**.0057**	**.0226**	**-.0048**
Stddev	.0015	.0001	.0016	.0009	.0006	.0011	.0002	.0054	.0017
%RSD	18.47	4.820	122.2	46.25	88.72	50.26	3.703	24.05	34.44
#1	.0098	-.0014	.0005	-.0014	.0006	-.0035	.0059	.0263	-.0052
#2	.0076	-.0013	-.0018	-.0013	.0002	-.0016	.0058	.0251	-.0030
#3	.0070	-.0014	-.0027	-.0029	.0014	-.0015	.0055	.0164	-.0063

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0029**	**.0678**	**-.0130**	**.0124**	**.0271**	F **10.23**	**.0092**	**-.0005**	**-.0002**
Stddev	.0016	.0475	.0251	.0039	.0005	.01	.0012	.0007	.0001
%RSD	54.39	69.95	192.7	31.44	1.956	.1047	12.73	135.3	32.53
#1	-.0038	.1121	.0075	.0144	.0276	10.24	.0093	.0002	-.0001
#2	-.0011	.0177	-.0055	.0079	.0271	10.22	.0103	-.0013	-.0002
#3	-.0038	.0737	-.0411	.0149	.0266	10.22	.0080	-.0005	-.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0051**	**.0051**	**-.0029**	**.0003**	**-.0005**	**-.0008**
Stddev	.0005	.0003	.0002	.0014	.0009	.0014	.0019
%RSD	66.05	5.612	3.372	48.23	323.5	287.7	236.4
#1	.0005	.0052	.0049	-.0020	.0010	-.0006	.0013
#2	.0004	.0053	.0052	-.0045	.0005	.0010	-.0014
#3	.0013	.0048	.0052	-.0022	-.0007	-.0019	-.0022

Zoom In Zoom Out

Sample Name: moconf Acquired: 4/3/2019 20:44:30 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113780.**	**10384.**	**4537.1**	**9999.9**
Stddev	314.	186.	3.2	11.6
%RSD	.27628	1.7889	.06983	.11571
#1	114150.	10313.	4533.9	9987.7
#2	113590.	10244.	4540.2	10011.
#3	113610.	10595.	4537.2	10001.

Zoom In Zoom Out

Sample Name: siconf Acquired: 4/3/2019 20:49:54 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0001**	**.0003**	**-.0003**	**.0007**	**-.0003**	**-.0004**	**.0003**	**.0002**
Stddev	.0003	.0000	.0002	.0001	.0002	.0006	.0000	.0001	.0003
%RSD	9575.	2.913	67.01	20.68	29.12	166.5	11.37	47.62	142.0
#1	.0003	-.0001	.0001	-.0004	.0006	.0001	-.0005	.0003	-.0001
#2	-.0001	-.0001	.0004	-.0003	.0006	-.0010	-.0004	.0002	.0004
#3	-.0002	-.0001	.0003	-.0003	.0010	-.0001	-.0004	.0004	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0006**	**.0001**	**-.0002**	**.0005**	**-.0008**	**-.0006**	**-.0029**	**-.0015**
Stddev	.0002	.0002	.0007	.0007	.0011	.0011	.0012	.0050	.0031
%RSD	245.3	26.66	552.0	404.7	214.6	132.1	208.8	173.3	202.2
#1	.0003	-.0008	-.0003	-.0005	-.0008	-.0007	-.0005	-.0061	-.0010
#2	.0002	-.0005	.0010	-.0006	.0010	.0002	-.0018	-.0055	.0013
#3	-.0002	-.0006	-.0003	.0006	.0013	-.0020	.0006	.0029	-.0049

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**-.0120**	**.0050**	**-.0065**	**.0033**	**.0014**	**10.25**	**-.0012**	**-.0001**
Stddev	.0031	.0213	.0248	.0080	.0003	.0002	.03	.0001	.0001
%RSD	126.3	177.9	492.1	123.5	8.217	13.18	.2807	7.634	99.59
#1	-.0009	-.0162	-.0193	-.0093	.0030	.0015	10.28	-.0013	-.0002
#2	.0052	-.0308	.0302	.0025	.0034	.0012	10.22	-.0012	.0000
#3	.0029	.0111	.0042	-.0127	.0035	.0015	10.25	-.0011	-.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0111**	**.0005**	**-.0018**	**-.0013**	**-.0016**	**-.0009**
Stddev	.0002	.0006	.0000	.0012	.0013	.0005	.0002
%RSD	58.43	5.605	7.943	64.49	102.5	29.49	24.68
#1	-.0007	.0104	.0005	-.0017	-.0025	-.0014	-.0011
#2	-.0002	.0113	.0006	-.0007	.0001	-.0012	-.0007
#3	-.0004	.0116	.0005	-.0031	-.0015	-.0021	-.0011

Zoom In Zoom Out

Sample Name: siconf Acquired: 4/3/2019 20:49:54 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113520.**	**10309.**	**4569.3**	**9998.9**
Stddev	438.	40.	8.0	13.1
%RSD	.38586	.39165	.17506	.13107
#1	113040.	10271.	4561.0	9983.8
#2	113630.	10303.	4576.9	10005.
#3	113890.	10351.	4570.1	10007.

Zoom In Zoom Out

Sample Name: ticonf Acquired: 4/3/2019 20:55:22 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0000**	**.0001**	**-.0003**	**-.0000**	**.0027**	**-.0000**	**.0001**
Stddev	.0002	.0000	.0000	.0002	.0001	.0001	.0001	.0001
%RSD	99.53	23.13	46.22	65.54	401.5	4.366	335.2	117.5
#1	-.0004	.0000	.0001	-.0003	.0001	.0026	-.0000	-.0000
#2	-.0000	.0000	.0001	-.0001	-.0000	.0028	-.0001	.0002
#3	-.0002	.0000	.0001	-.0004	-.0002	.0027	.0000	.0001

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0004**	**-.0001**	**-.0000**	F **-.0022**	**-.0000**	**-.0002**	**-.0002**
Stddev	.0002	.0003	.0001	.0003	.0012	.0003	.0009	.0006
%RSD	10.56	74.53	61.30	9026.	55.11	11670.	391.5	321.0
#1	.0026	.0002	-.0001	-.0001	-.0020	-.0000	-.0008	-.0007
#2	.0023	.0008	-.0000	.0003	-.0035	-.0002	.0008	.0005
#3	.0021	.0003	-.0002	-.0002	-.0011	.0003	-.0008	-.0004

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0023**	**.0008**	**-.0415**	**-.0247**	**-.0057**	**-.0005**	**.0000**
Stddev	.0094	.0014	.0022	.0264	.0174	.0062	.0004	.0001
%RSD	383.1	61.84	282.2	63.65	70.45	108.6	72.68	339.2
#1	-.0073	.0038	.0028	-.0235	-.0322	-.0005	-.0002	.0002
#2	.0114	.0020	.0009	-.0292	-.0371	-.0041	-.0009	-.0001
#3	.0032	.0011	-.0015	-.0719	-.0048	-.0126	-.0005	.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0260**	**.0005**	**-.0001**	F **9.340**	**-.0004**	**.0000**	**-.0041**	**-.0066**
Stddev	.0004	.0007	.0000	.026	.0002	.0002	.0008	.0007
%RSD	1.360	143.0	58.48	.2768	53.00	770.0	20.78	10.01
#1	.0257	.0002	-.0000	9.369	-.0005	.0000	-.0050	-.0059
#2	.0258	.0013	-.0001	9.323	-.0001	-.0002	-.0040	-.0070
#3	.0264	-.0000	-.0001	9.326	-.0005	.0003	-.0033	-.0070

Zoom In Zoom Out

Sample Name: ticonf Acquired: 4/3/2019 20:55:22 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0006**	**-.0022**
Stddev	.0015	.0001
%RSD	251.2	4.697
#1	-.0008	-.0022
#2	.0010	-.0023
#3	-.0020	-.0021

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113350.**	**10320.**	**4554.4**	**9977.9**
Stddev	472.	6.	1.9	9.8
%RSD	.41644	.06285	.04179	.09828
#1	113210.	10313.	4556.6	9976.9
#2	113880.	10326.	4553.4	9988.2
#3	112970.	10322.	4553.2	9968.6

Zoom In Zoom Out

Sample Name: snconf Acquired: 4/3/2019 21:00:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0000**	**-.0001**	**-.0002**	**.0007**	**-.0000**	**-.0008**	**.0013**
Stddev	.0002	.0001	.0001	.0003	.0002	.0004	.0000	.0001	.0005
%RSD	680.4	280.7	1040.	285.4	149.0	51.59	77.62	12.64	38.33
#1	.0002	.0001	-.0001	.0002	-.0002	.0007	-.0000	-.0007	.0019
#2	-.0001	.0002	.0001	-.0004	-.0003	.0011	-.0000	-.0009	.0009
#3	-.0000	-.0001	.0000	-.0001	.0001	.0003	-.0001	-.0007	.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0008**	**.0013**	**.0007**	**-.0000**	**.0005**	**.0002**	**.0018**	**.0044**
Stddev	.0003	.0001	.0009	.0007	.0007	.0005	.0008	.0020	.0028
%RSD	281.7	16.43	66.23	110.7	1580.	90.12	441.3	112.3	62.20
#1	-.0000	-.0006	.0011	-.0002	-.0008	.0002	.0004	-.0000	.0013
#2	-.0004	-.0008	.0005	.0010	.0001	.0003	-.0007	.0039	.0053
#3	.0001	-.0009	.0022	.0011	.0006	.0011	.0008	.0014	.0066

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**-.0073**	**-.0034**	**-.0103**	**-.0008**	**.0001**	**.0947**	F **10.16**	**-.0001**
Stddev	.0013	.0213	.0168	.0072	.0006	.0001	.0003	.01	.0001
%RSD	50.92	290.1	500.2	69.48	66.28	160.2	.3580	.1254	81.81
#1	.0023	.0074	-.0221	-.0027	-.0012	-.0000	.0944	10.16	-.0002
#2	.0015	.0023	.0015	-.0169	-.0002	.0000	.0947	10.15	-.0002
#3	.0040	-.0317	.0105	-.0115	-.0011	.0002	.0951	10.17	-.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0001**	**.0046**	**-.0008**	**-.0006**	**-.0007**	**-.0021**
Stddev	.0002	.0001	.0002	.0020	.0003	.0007	.0009
%RSD	1006.	119.0	3.456	254.4	56.12	103.9	43.50
#1	.0002	.0002	.0048	-.0002	-.0009	.0001	-.0028
#2	-.0002	.0001	.0046	.0009	-.0003	-.0010	-.0025
#3	.0000	-.0000	.0045	-.0031	-.0004	-.0013	-.0011

Zoom In Zoom Out

Sample Name: snconf Acquired: 4/3/2019 21:00:51 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112400.**	**10364.**	**4548.8**	**9983.0**
Stddev	109.	60.	4.2	4.5
%RSD	.09720	.58226	.09200	.04528
#1	112530.	10332.	4550.4	9981.6
#2	112330.	10326.	4544.1	9979.4
#3	112350.	10433.	4552.0	9988.1

Zoom In Zoom Out

Sample Name: mnconf Acquired: 4/3/2019 21:06:19 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0001**	**.0000**	**-.0002**	**.0007**	F **10.10**	**-.0001**	**-.0012**
Stddev	.0002	.0001	.0002	.0002	.0004	.0002	.01	.0001	.0003
%RSD	191.6	56.65	143.2	1347.	225.6	25.81	.1202	69.55	28.94
#1	-.0001	.0001	.0003	.0000	.0001	.0010	10.10	-.0001	-.0010
#2	.0000	.0001	-.0001	.0002	-.0007	.0007	10.09	-.0001	-.0010
#3	.0004	.0002	.0001	-.0002	.0000	.0006	10.12	-.0002	-.0016

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0032**	**.0000**	**-.0014**	**-.0015**	**-.0011**	**.0005**	**.0002**	**.0046**	**.0006**
Stddev	.0002	.0001	.0004	.0006	.0007	.0007	.0004	.0125	.0028
%RSD	6.513	536.9	29.96	43.13	57.96	147.9	249.1	270.6	466.5
#1	-.0031	.0001	-.0009	-.0020	-.0012	.0004	.0001	-.0065	.0020
#2	-.0034	-.0001	-.0017	-.0008	-.0018	.0012	-.0002	.0182	-.0026
#3	-.0031	.0001	-.0015	-.0017	-.0005	-.0002	.0007	.0022	.0024

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0118**	**-.0292**	**-.0392**	**-.0168**	**-.0005**	**-.0002**	**.0015**	**-.0017**	**-.0001**
Stddev	.0057	.0316	.0042	.0057	.0004	.0002	.0005	.0003	.0001
%RSD	48.19	108.0	10.80	34.11	69.43	124.2	31.10	19.56	103.6
#1	.0177	-.0062	-.0431	-.0218	-.0005	.0001	.0020	-.0019	-.0000
#2	.0063	-.0163	-.0347	-.0105	-.0009	-.0004	.0015	-.0018	-.0000
#3	.0116	-.0652	-.0399	-.0180	-.0002	-.0002	.0010	-.0013	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0014**	**-.0001**	**.0070**	**.0000**	**.0002**	**.0193**
Stddev	.0004	.0004	.0001	.0012	.0016	.0003	.0008
%RSD	765.5	26.25	113.5	16.60	7572.	159.1	3.981
#1	-.0004	.0017	.0000	.0076	-.0000	.0003	.0197
#2	.0003	.0013	-.0001	.0056	-.0015	-.0002	.0197
#3	.0003	.0010	-.0002	.0077	.0016	.0005	.0184

Zoom In Zoom Out

Sample Name: mnconf Acquired: 4/3/2019 21:06:19 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**112470.**	**10382.**	**4520.0**	**9891.5**
Stddev	103.	6.	10.9	29.5
%RSD	.09147	.06039	.24207	.29837
#1	112500.	10375.	4529.9	9918.1
#2	112360.	10387.	4521.9	9896.6
#3	112560.	10385.	4508.3	9859.7

Zoom In Zoom Out

Sample Name: sconf Acquired: 4/3/2019 21:11:56 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0000**	**.0002**	**-.0002**	**.0007**	**.0156**	**.0004**	**-.0000**	**.0007**
Stddev	.0002	.0001	.0001	.0001	.0004	.0002	.0000	.0001	.0001
%RSD	588.9	342.2	54.79	61.35	52.67	.9725	7.001	917.7	9.869
#1	-.0002	-.0002	.0001	-.0001	.0009	.0157	.0004	-.0000	.0006
#2	.0001	-.0000	.0002	-.0003	.0010	.0157	.0004	-.0001	.0007
#3	.0002	.0001	.0004	-.0002	.0003	.0155	.0004	.0001	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0003**	**-.0005**	**-.0015**	**.0005**	**.0002**	**-.0009**	**-.0001**	**-.0008**
Stddev	.0001	.0001	.0003	.0007	.0006	.0007	.0012	.0081	.0009
%RSD	166.9	40.52	50.53	46.65	112.6	406.2	124.2	11160.	109.4
#1	-.0000	-.0004	-.0004	-.0022	.0002	.0005	.0001	.0034	-.0013
#2	.0002	-.0002	-.0008	-.0009	.0011	-.0006	-.0008	.0057	.0002
#3	.0000	-.0003	-.0003	-.0014	.0002	.0006	-.0022	-.0093	-.0013

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0297**	**-.0049**	**-.0224**	**-.0129**	**-.0007**	**.0002**	**.0057**	**-.0006**	**-.0001**
Stddev	.0021	.0100	.0244	.0193	.0005	.0001	.0004	.0005	.0000
%RSD	7.069	202.1	108.7	150.4	68.68	62.46	7.821	90.85	12.49
#1	.0276	.0029	-.0347	-.0219	-.0013	.0001	.0058	-.0008	-.0001
#2	.0318	-.0162	.0056	-.0260	-.0003	.0003	.0052	.0000	-.0002
#3	.0297	-.0015	-.0381	.0093	-.0007	.0001	.0061	-.0009	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0010**	**.0002**	**91.92**	**-.0007**	**-.0014**	**-.0027**
Stddev	.0003	.0006	.0001	.11	.0007	.0008	.0010
%RSD	183.5	56.98	44.64	.1160	106.8	59.82	35.96
#1	-.0005	.0015	.0002	91.99	-.0012	-.0024	-.0038
#2	-.0001	.0004	.0001	91.79	-.0011	-.0009	-.0021
#3	.0001	.0010	.0002	91.96	.0002	-.0009	-.0021

Zoom In Zoom Out

Sample Name: sconf Acquired: 4/3/2019 21:11:56 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113090.**	**10338.**	**4574.7**	**10072.**
Stddev	69.	64.	1.4	4.
%RSD	.06139	.61556	.03049	.03740
#1	113110.	10397.	4575.1	10072.
#2	113020.	10346.	4573.1	10077.
#3	113150.	10271.	4575.8	10069.

Zoom In Zoom Out

Sample Name: coconf Acquired: 4/3/2019 21:17:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0001**	**-.0005**	F **10.45**	**.0000**	**-.0007**	**.0000**	**.0001**	**.0003**
Stddev	.0001	.0001	.0002	.00	.0001	.0002	.0000	.0001	.0005
%RSD	192.1	201.3	30.54	.0253	1235.	34.20	49.06	160.8	150.6
#1	-.0001	-.0001	-.0004	10.45	.0001	-.0008	.0000	.0002	.0009
#2	.0001	.0001	-.0004	10.44	-.0001	-.0004	.0000	-.0001	.0001
#3	-.0002	-.0002	-.0007	10.45	.0001	-.0008	.0000	.0001	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0003**	**-.0002**	**.0011**	**-.0002**	**.0002**	**-.0003**	**-.0208**	**-.0130**
Stddev	.0002	.0000	.0007	.0016	.0011	.0014	.0013	.0045	.0042
%RSD	53.59	16.77	382.1	143.7	459.8	691.8	460.7	21.48	32.39
#1	.0004	-.0003	.0003	.0013	-.0008	-.0003	-.0002	-.0182	-.0118
#2	.0005	-.0002	-.0010	.0026	.0010	-.0009	-.0016	-.0182	-.0177
#3	.0001	-.0003	.0001	-.0006	-.0010	.0018	.0010	-.0260	-.0096

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**-.0031**	**-.0142**	**-.0148**	**-.0025**	**-.0000**	**-.0009**	**-.0000**	**-.0001**
Stddev	.0015	.0165	.0181	.0063	.0004	.0002	.0005	.0004	.0001
%RSD	126.5	533.0	127.4	42.15	14.18	1014.	57.29	825.7	86.97
#1	-.0013	-.0175	.0041	-.0208	-.0021	-.0002	-.0015	-.0000	-.0002
#2	.0004	.0149	-.0320	-.0083	-.0026	.0002	-.0006	.0003	-.0001
#3	-.0026	-.0068	-.0147	-.0154	-.0028	-.0000	-.0006	-.0004	-.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**-.0016**	**.0002**	**.0088**	**.0131**	**-.0003**	**-.0037**
Stddev	.0004	.0007	.0001	.0010	.0003	.0012	.0008
%RSD	51.24	44.91	31.99	11.38	2.501	476.4	20.49
#1	-.0011	-.0023	.0002	.0096	.0134	.0011	-.0034
#2	-.0003	-.0016	.0003	.0076	.0128	-.0010	-.0046
#3	-.0010	-.0008	.0002	.0090	.0130	-.0010	-.0032

Zoom In Zoom Out

Sample Name: coconf Acquired: 4/3/2019 21:17:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113030.**	**10342.**	**4547.3**	**10035.**
Stddev	368.	28.	9.7	10.
%RSD	.32545	.27058	.21305	.09902
#1	113420.	10371.	4541.4	10040.
#2	112700.	10316.	4558.5	10043.
#3	112960.	10338.	4542.0	10024.

Zoom In Zoom Out

Sample Name: alconf Acquired: 4/3/2019 21:22:54 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**-.0001**	**.0002**	**-.0001**	**.0004**	**.0010**	**-.0009**	**-.0010**	**.0007**
Stddev	.0003	.0000	.0001	.0001	.0004	.0004	.0000	.0002	.0005
%RSD	23.39	6.298	85.72	147.4	95.68	43.53	2.036	17.14	75.21
#1	-.0013	-.0001	.0000	-.0001	.0007	.0009	-.0009	-.0012	.0013
#2	-.0008	-.0001	.0003	-.0002	-.0000	.0006	-.0009	-.0008	.0006
#3	-.0012	-.0001	.0001	.0001	.0005	.0015	-.0009	-.0011	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0005**	**.0002**	**-.0007**	**-.0009**	**-.0012**	**.0020**	F **533.6**	**.0012**
Stddev	.0003	.0002	.0012	.0008	.0010	.0025	.0026	.8	.0029
%RSD	121.8	28.98	606.8	117.3	110.9	205.3	131.3	.1516	237.9
#1	.0001	.0007	.0011	.0001	.0002	.0013	.0001	533.7	-.0006
#2	-.0003	.0004	.0006	-.0007	-.0012	-.0036	.0009	534.4	.0046
#3	-.0005	.0005	-.0012	-.0014	-.0016	-.0013	.0049	532.8	-.0003

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**.0104**	**-.2016**	**-.0157**	**-.0042**	**-.0017**	**.0051**	**-.0012**	**-.0000**
Stddev	.0054	.0333	.0256	.0067	.0015	.0000	.0014	.0004	.0001
%RSD	90.13	320.9	12.71	43.00	35.67	2.802	27.23	29.47	135.9
#1	.0050	.0373	-.2167	-.0176	-.0028	-.0017	.0066	-.0016	-.0001
#2	.0117	-.0268	-.2161	-.0082	-.0058	-.0018	.0048	-.0010	-.0001
#3	.0011	.0206	-.1720	-.0212	-.0041	-.0017	.0038	-.0010	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0044**	**.0000**	**-.0074**	**-.0020**	**-.0001**	**.0024**
Stddev	.0002	.0015	.0002	.0035	.0011	.0013	.0011
%RSD	44.47	32.79	4062.	47.78	58.78	1901.	46.93
#1	-.0005	.0059	-.0002	-.0034	-.0015	.0013	.0035
#2	-.0007	.0045	.0002	-.0101	-.0011	-.0003	.0012
#3	-.0003	.0030	.0000	-.0087	-.0033	-.0012	.0024

Zoom In Zoom Out

Sample Name: alconf Acquired: 4/3/2019 21:22:54 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105890.**	**10612.**	**4705.7**	**8916.6**
Stddev	161.	43.	10.2	10.7
%RSD	.15165	.40982	.21664	.12055
#1	106050.	10660.	4712.0	8926.2
#2	105880.	10576.	4693.9	8905.0
#3	105730.	10599.	4711.2	8918.5

Zoom In Zoom Out

Sample Name: caconf Acquired: 4/3/2019 21:28:14 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0002**	**-.0001**	**.0001**	**.0003**	**.0003**	**.0003**	**-.0002**
Stddev	.0002	.0000	.0001	.0002	.0001	.0003	.0000	.0003
%RSD	39.03	13.02	176.8	106.6	30.77	84.02	12.02	143.9
#1	.0006	-.0002	.0001	.0001	.0003	.0005	.0004	-.0000
#2	.0002	-.0002	-.0001	.0001	.0003	.0004	.0003	-.0000
#3	.0005	-.0002	-.0001	.0003	.0002	.0000	.0003	-.0005

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**-.0003**	**-.0017**	**.0001**	**.0009**	**-.0013**	**-.0012**	**.0008**
Stddev	.0004	.0001	.0001	.0007	.0004	.0003	.0010	.0010
%RSD	22.20	19.63	6.170	973.7	49.42	22.10	83.90	134.1
#1	.0021	-.0003	-.0017	-.0003	.0010	-.0013	-.0011	.0008
#2	.0014	-.0003	-.0016	.0009	.0004	-.0016	-.0023	-.0003
#3	.0022	-.0002	-.0018	-.0004	.0013	-.0010	-.0003	.0017

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0223**	F **390.1**	**-.0030**	**.0060**	**-.1592**	**-.0191**	**-.0012**	**-.0012**
Stddev	.0096	37.5	.0033	.0226	.0196	.0062	.0002	.0001
%RSD	43.06	9.621	109.6	375.9	12.30	32.47	18.21	9.751
#1	-.0316	392.2	-.0025	-.0146	-.1783	-.0236	-.0013	-.0012
#2	-.0229	351.6	-.0066	.0024	-.1392	-.0120	-.0012	-.0011
#3	-.0124	426.5	.0000	.0302	-.1601	-.0218	-.0009	-.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**-.0017**	W **-.0030**	**-.0011**	**.0014**	**-.0001**	**.0160**	**.0006**
Stddev	.0006	.0003	.0002	.0006	.0003	.0002	.0025	.0008
%RSD	10.10	18.24	5.858	57.87	21.78	242.3	15.81	126.7
#1	.0050	-.0020	-.0030	-.0009	.0016	.0000	.0135	.0002
#2	.0061	-.0015	-.0028	-.0006	.0010	-.0002	.0186	.0015
#3	.0055	-.0015	-.0032	-.0018	.0014	.0000	.0159	.0001

Zoom In Zoom Out

Sample Name: caconf Acquired: 4/3/2019 21:28:14 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	W **-.0143**	**-.0081**
Stddev	.0015	.0015
%RSD	10.45	18.15
#1	-.0137	-.0079
#2	-.0133	-.0068
#3	-.0161	-.0097

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103880.**	**10220.**	**4164.5**	**8596.7**
Stddev	209.	829.	2.8	7.7
%RSD	.20111	8.1150	.06723	.08962
#1	104100.	10104.	4161.4	8593.6
#2	103860.	11101.	4165.5	8590.9
#3	103690.	9454.5	4166.7	8605.4

Zoom In Zoom Out

Sample Name: mgconf Acquired: 4/3/2019 21:33:41 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0000**	**-.0001**	**-.0004**	**-.0006**	**.0006**	**.0015**	**-.0001**	**.0005**
Stddev	.0001	.0001	.0001	.0001	.0001	.0002	.0000	.0001	.0001
%RSD	142.2	147.3	138.5	13.49	12.97	32.81	1.311	113.4	24.22
#1	.0000	-.0001	.0000	-.0004	-.0007	.0004	.0015	.0000	.0005
#2	-.0000	-.0001	-.0001	-.0003	-.0007	.0008	.0015	-.0003	.0004
#3	-.0001	.0000	-.0001	-.0003	-.0006	.0008	.0015	-.0001	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0014**	**-.0003**	**-.0009**	**-.0013**	**.0004**	**-.0004**	**.0035**	**.0346**
Stddev	.0005	.0000	.0005	.0014	.0006	.0013	.0008	.0049	.0031
%RSD	54.52	2.398	193.6	156.4	49.80	288.8	215.2	140.0	9.072
#1	-.0006	.0014	-.0002	.0002	-.0010	.0007	-.0007	.0090	.0315
#2	-.0014	.0014	-.0009	-.0025	-.0020	.0016	.0005	-.0001	.0346
#3	-.0005	.0014	.0002	-.0005	-.0008	-.0009	-.0009	.0015	.0378

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0074**	F **535.7**	**-.2031**	**.0085**	**-.0006**	**.0007**	**.0032**	**-.0005**	**-.0000**
Stddev	.0026	2.0	.0334	.0135	.0009	.0001	.0003	.0002	.0000
%RSD	34.68	.3818	16.44	158.5	139.4	10.53	9.808	45.95	58.55
#1	.0093	537.6	-.1940	.0021	-.0010	.0008	.0029	-.0003	-.0000
#2	.0045	536.1	-.2402	-.0006	.0004	.0006	.0035	-.0007	-.0000
#3	.0084	533.5	-.1753	.0240	-.0013	.0006	.0032	-.0006	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0047**	**-.0001**	**-.0080**	**-.0002**	**-.0009**	**.0013**
Stddev	.0003	.0004	.0000	.0013	.0003	.0010	.0018
%RSD	49.16	7.541	42.55	15.90	154.1	115.2	132.9
#1	-.0008	.0051	-.0001	-.0088	-.0005	-.0005	-.0007
#2	-.0003	.0045	-.0000	-.0087	.0001	-.0020	.0021
#3	-.0005	.0044	-.0001	-.0065	-.0003	-.0001	.0025

Zoom In Zoom Out

Sample Name: mgconf Acquired: 4/3/2019 21:33:41 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102650.**	**9861.9**	**4168.9**	**8562.7**
Stddev	170.	29.4	7.0	4.7
%RSD	.16568	.29762	.16910	.05472
#1	102460.	9828.3	4175.8	8567.8
#2	102790.	9874.8	4161.7	8558.7
#3	102700.	9882.6	4169.2	8561.4

Zoom In Zoom Out

Sample Name: niconf Acquired: 4/3/2019 21:39:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0001**	W **-.0010**	**.0002**	**.0000**	**.0000**	**-.0003**	F **9.741**
Stddev	.0001	.0001	.0001	.0002	.0002	.0003	.0000	.014
%RSD	3474.	57.22	7.785	117.1	829.4	1889.	16.70	.1473
#1	.0001	-.0001	-.0010	.0004	-.0001	.0000	-.0003	9.751
#2	-.0001	-.0001	-.0009	-.0001	.0002	-.0003	-.0003	9.747
#3	-.0001	-.0000	-.0011	.0002	-.0001	.0003	-.0002	9.725

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0002**	**.0003**	**-.0003**	**-.0005**	**-.0007**	**-.0009**	**.0006**
Stddev	.0003	.0001	.0000	.0003	.0005	.0006	.0007	.0009
%RSD	46.22	36.69	8.036	124.1	111.3	79.41	85.18	145.5
#1	.0005	.0001	.0002	-.0002	-.0010	-.0001	-.0012	.0015
#2	.0010	.0002	.0003	-.0000	-.0000	-.0010	-.0000	-.0003
#3	.0006	.0003	.0002	-.0006	-.0004	-.0011	-.0013	.0006

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**-.0075**	**-.0018**	**.0407**	**-.0430**	**-.0089**	**-.0012**	**.0000**
Stddev	.0119	.0025	.0019	.0193	.0082	.0060	.0007	.0001
%RSD	343.8	33.84	106.4	47.44	18.96	68.00	54.02	1635.
#1	.0143	-.0092	-.0029	.0214	-.0396	-.0157	-.0005	-.0001
#2	-.0092	-.0046	-.0029	.0600	-.0523	-.0043	-.0015	.0001
#3	.0053	-.0088	.0004	.0406	-.0372	-.0067	-.0017	-.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**-.0007**	**-.0001**	**-.0005**	**.0025**	**.0001**	**-.0037**	**-.0017**
Stddev	.0006	.0002	.0001	.0002	.0002	.0002	.0007	.0007
%RSD	26.99	26.99	147.5	46.42	7.417	161.3	20.27	41.91
#1	.0026	-.0009	-.0001	-.0007	.0024	.0002	-.0039	-.0021
#2	.0024	-.0008	-.0001	-.0003	.0028	.0002	-.0043	-.0021
#3	.0015	-.0005	.0000	-.0006	.0024	-.0001	-.0028	-.0009

Zoom In Zoom Out

Sample Name: niconf Acquired: 4/3/2019 21:39:11 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0008**	**.0063**
Stddev	.0011	.0010
%RSD	148.3	16.32
#1	-.0019	.0057
#2	.0004	.0075
#3	-.0007	.0058

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113110.**	**10317.**	**4547.6**	**9991.3**
Stddev	89.	12.	8.0	24.2
%RSD	.07831	.11452	.17632	.24219
#1	113080.	10305.	4553.6	10003.
#2	113040.	10316.	4538.5	9963.4
#3	113210.	10329.	4550.7	10007.

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 21:44:39 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.950**	**1.934**	**1.962**	**1.927**	**1.947**	**1.901**	**1.970**	**1.962**	**.2391**
Stddev	.004	.006	.002	.001	.004	.006	.001	.001	.0001
%RSD	.2155	.3048	.0993	.0749	.1983	.2961	.0585	.0576	.0562
#1	1.954	1.940	1.961	1.928	1.943	1.906	1.968	1.963	.2392
#2	1.949	1.933	1.962	1.925	1.946	1.895	1.969	1.961	.2390
#3	1.945	1.929	1.965	1.927	1.951	1.903	1.971	1.962	.2392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.933**	**1.970**	**1.932**	**2.006**	**1.961**	**1.924**	**1.936**	**38.63**	**38.85**
Stddev	.002	.004	.002	.002	.002	.005	.003	.05	.09
%RSD	.0763	.1895	.1257	.0979	.0815	.2721	.1291	.1247	.2424
#1	1.934	1.971	1.933	2.003	1.960	1.922	1.935	38.69	38.95
#2	1.931	1.966	1.930	2.006	1.963	1.920	1.933	38.60	38.76
#3	1.933	1.973	1.935	2.007	1.961	1.930	1.938	38.61	38.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.93**	**38.63**	**38.30**	**38.60**	**1.960**	**1.967**	**4.885**	**1.989**	**1.950**
Stddev	.11	.29	.09	.07	.001	.001	.007	.004	.005
%RSD	.2884	.7549	.2428	.1800	.0399	.0578	.1364	.2132	.2468
#1	39.05	38.92	38.40	38.66	1.960	1.967	4.878	1.994	1.955
#2	38.83	38.34	38.22	38.52	1.960	1.966	4.888	1.986	1.948
#3	38.90	38.64	38.28	38.61	1.961	1.968	4.890	1.987	1.946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 21:44:39 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.955**	**1.948**	**1.946**	**1.920**	**1.930**	**1.905**	**1.956**
Stddev	.001	.004	.001	.005	.001	.001	.004
%RSD	.0700	.1879	.0716	.2541	.0259	.0645	.2304
#1	1.954	1.948	1.947	1.915	1.929	1.905	1.954
#2	1.953	1.945	1.946	1.921	1.930	1.906	1.952
#3	1.956	1.952	1.944	1.925	1.930	1.904	1.961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106920.**	**10133.**	**4409.7**	**8983.5**
Stddev	332.	101.	6.1	10.2
%RSD	.31092	.99903	.13734	.11335
#1	107180.	10077.	4408.9	8978.0
#2	107030.	10250.	4416.1	8995.2
#3	106550.	10072.	4404.1	8977.2

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 21:49:40 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**.0002**	**.0000**	**-.0000**	**.0002**	**.0003**	**.0001**	**.0005**
Stddev	.0001	.0002	.0001	.0003	.0003	.0002	.0000	.0002	.0003
%RSD	56.07	784.3	56.36	1153.	2237.	127.4	12.18	214.0	68.65
#1	.0001	-.0001	.0002	.0003	.0003	.0003	.0004	.0003	.0008
#2	.0002	-.0001	.0003	-.0003	-.0001	.0003	.0003	-.0001	.0005
#3	.0001	.0002	.0001	-.0000	-.0003	-.0001	.0003	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**.0004**	**-.0003**	**-.0002**	**.0009**	**-.0006**	**.0045**	**-.0014**
Stddev	.0001	.0001	.0008	.0012	.0003	.0012	.0011	.0147	.0045
%RSD	22.51	138.1	210.7	348.3	165.6	141.0	181.6	326.1	325.8
#1	.0003	-.0000	.0008	.0008	.0001	.0001	-.0006	-.0112	-.0051
#2	.0002	.0000	-.0005	-.0016	-.0002	.0003	.0005	.0066	-.0025
#3	.0003	-.0002	.0009	-.0003	-.0005	.0023	-.0017	.0181	.0035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**-.0022**	**.0052**	**-.0040**	**.0003**	**.0002**	**.0003**	**.0002**	**.0000**
Stddev	.0018	.0146	.0126	.0166	.0001	.0002	.0006	.0002	.0001
%RSD	111.0	651.6	241.7	410.3	37.28	108.0	182.4	73.31	258.6
#1	.0014	-.0188	.0171	.0072	.0004	.0002	.0001	.0001	-.0001
#2	.0036	.0031	-.0080	-.0231	.0002	.0004	.0011	.0004	.0000
#3	-.0000	.0089	.0066	.0038	.0003	-.0000	-.0001	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 21:49:40 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0005**	**.0002**	**-.0032**	**.0005**	**.0001**	**-.0038**
Stddev	.0004	.0004	.0002	.0005	.0007	.0009	.0002
%RSD	357.8	80.67	73.80	16.90	139.9	1157.	6.236
#1	.0005	.0009	.0002	-.0033	.0013	-.0009	-.0036
#2	-.0003	.0001	.0004	-.0038	.0005	.0002	-.0040
#3	.0001	.0005	.0001	-.0027	-.0002	.0010	-.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113160.**	**10262.**	**4549.3**	**10002.**
Stddev	289.	30.	5.5	3.
%RSD	.25526	.28905	.12053	.02666
#1	112840.	10228.	4554.2	10002.
#2	113250.	10282.	4543.4	9999.4
#3	113400.	10275.	4550.3	10005.

Zoom In Zoom Out

Sample Name: jc85513-2 Acquired: 4/3/2019 21:55:09 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0706**	**-.0001**	**.0000**	**-.0003**	**.0007**	**.0007**	**.0008**	**-.0000**	**.0008**
Stddev	.0001	.0001	.0002	.0003	.0002	.0002	.0000	.0003	.0001
%RSD	.1086	56.96	1002.	117.3	31.96	22.91	4.524	1877.	18.45
#1	.0706	-.0002	.0002	-.0006	.0005	.0006	.0008	.0003	.0009
#2	.0705	-.0001	-.0002	.0000	.0006	.0009	.0007	-.0003	.0006
#3	.0705	-.0000	.0001	-.0002	.0009	.0006	.0008	.0000	.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0001**	**-.0002**	**-.0007**	**-.0000**	**-.0002**	**-.0006**	**-.0090**	**20.10**
Stddev	.0003	.0001	.0005	.0009	.0006	.0010	.0004	.0094	.05
%RSD	269.3	65.31	242.2	129.4	19440.	464.1	71.24	105.0	.2268
#1	.0003	-.0000	.0002	-.0017	-.0005	-.0014	-.0010	-.0163	20.15
#2	.0001	-.0001	-.0007	-.0004	-.0001	.0004	-.0004	-.0124	20.06
#3	-.0002	-.0001	-.0001	.0000	.0006	.0003	-.0003	.0017	20.10

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0130**	**4.399**	**2.261**	**36.92**	**.0489**	**.0003**	**4.156**	**-.0011**	**.0847**
Stddev	.0028	.027	.022	.12	.0004	.0002	.003	.0007	.0003
%RSD	21.50	.6123	.9818	.3162	.8437	67.24	.0798	64.67	.2982
#1	.0100	4.369	2.271	37.06	.0490	.0006	4.157	-.0003	.0847
#2	.0132	4.421	2.235	36.85	.0493	.0004	4.159	-.0017	.0845
#3	.0156	4.406	2.276	36.86	.0485	.0001	4.153	-.0014	.0850

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0051**	**-.0001**	**3.499**	**-.0017**	**-.0005**	**.0006**
Stddev	.0003	.0002	.0001	.006	.0007	.0003	.0005
%RSD	30.63	3.952	105.7	.1710	40.79	54.13	78.15
#1	-.0007	.0048	-.0003	3.503	-.0010	-.0007	.0004
#2	-.0007	.0051	-.0000	3.501	-.0024	-.0002	.0012
#3	-.0012	.0052	-.0001	3.492	-.0017	-.0007	.0003

Zoom In Zoom Out

Sample Name: jc85513-2 Acquired: 4/3/2019 21:55:09 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109640.**	**10343.**	**4444.0**	**9457.7**
Stddev	363.	77.	5.4	3.3
%RSD	.33150	.74120	.12201	.03495
#1	109230.	10277.	4439.9	9454.3
#2	109810.	10326.	4441.9	9458.0
#3	109890.	10427.	4450.1	9460.9

Zoom In Zoom Out

Sample Name: jc85513-3 Acquired: 4/3/2019 22:00:31 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0652**	**-.0000**	**.0001**	**-.0001**	**.0009**	**.0008**	**.0097**	**.0003**	**.0007**
Stddev	.0003	.0001	.0002	.0001	.0003	.0003	.0000	.0002	.0002
%RSD	.3845	869.7	294.6	215.8	39.65	31.79	.4057	65.31	32.57
#1	.0651	-.0001	.0004	-.0001	.0005	.0006	.0098	.0003	.0008
#2	.0650	-.0001	-.0000	-.0002	.0010	.0007	.0097	.0001	.0009
#3	.0655	.0001	-.0001	.0001	.0011	.0011	.0097	.0004	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0005**	**-.0001**	**-.0001**	**.0008**	**.0002**	**-.0005**	**.0697**	**14.59**
Stddev	.0002	.0001	.0013	.0011	.0013	.0012	.0009	.0116	.01
%RSD	41.66	17.29	1073.	808.0	168.6	658.1	172.3	16.65	.0897
#1	.0007	.0005	.0001	-.0013	.0016	-.0002	-.0000	.0830	14.59
#2	.0003	.0005	.0011	-.0001	-.0007	-.0008	-.0015	.0613	14.60
#3	.0006	.0004	-.0015	.0010	.0015	.0015	.0000	.0650	14.58

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1186**	**2.821**	**1.127**	**46.79**	**.0327**	**-.0001**	**4.382**	**-.0012**	**.0740**
Stddev	.0063	.022	.022	.02	.0002	.0001	.006	.0004	.0003
%RSD	5.301	.7859	1.938	.0438	.6056	97.14	.1388	32.78	.3727
#1	.1199	2.797	1.151	46.77	.0329	-.0000	4.389	-.0010	.0738
#2	.1241	2.824	1.122	46.81	.0325	-.0000	4.377	-.0017	.0738
#3	.1117	2.841	1.108	46.78	.0327	-.0002	4.379	-.0009	.0743

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0057**	**-.0000**	**3.856**	**-.0012**	**.0002**	**.0117**
Stddev	.0002	.0005	.0001	.009	.0008	.0007	.0005
%RSD	11.15	8.974	2226.	.2316	64.95	303.1	4.510
#1	.0018	.0060	.0000	3.866	-.0004	-.0005	.0115
#2	.0021	.0051	-.0002	3.849	-.0020	.0009	.0113
#3	.0022	.0059	.0001	3.852	-.0012	.0002	.0123

Zoom In Zoom Out

Sample Name: jc85513-3 Acquired: 4/3/2019 22:00:31 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110190.**	**10318.**	**4428.0**	**9421.6**
Stddev	223.	35.	4.8	6.4
%RSD	.20254	.34234	.10774	.06760
#1	109940.	10342.	4424.3	9417.9
#2	110300.	10335.	4426.3	9417.9
#3	110340.	10277.	4433.4	9428.9

Zoom In Zoom Out

Sample Name: jc85513-4 Acquired: 4/3/2019 22:05:53 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1366**	**-.0000**	**.0002**	**-.0001**	**.0009**	**.0009**	**.0044**	**.0003**	**.0005**
Stddev	.0002	.0000	.0001	.0002	.0004	.0004	.0000	.0003	.0002
%RSD	.1538	20.49	44.77	120.0	40.62	48.06	.3220	95.75	35.04
#1	.1367	-.0000	.0003	-.0002	.0005	.0010	.0044	.0001	.0004
#2	.1364	-.0000	.0002	-.0002	.0012	.0004	.0044	.0002	.0004
#3	.1368	-.0001	.0001	.0001	.0010	.0012	.0044	.0007	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0003**	**-.0009**	**.0004**	**.0005**	**.0004**	**-.0011**	**.0108**	**23.02**
Stddev	.0003	.0001	.0007	.0003	.0008	.0003	.0005	.0020	.01
%RSD	184.4	20.67	83.32	84.58	169.3	78.68	46.18	18.65	.0515
#1	.0002	.0003	-.0002	.0007	-.0005	.0004	-.0017	.0115	23.03
#2	-.0002	.0003	-.0016	.0003	.0010	.0001	-.0010	.0085	23.01
#3	.0005	.0002	-.0007	.0001	.0009	.0006	-.0007	.0123	23.01

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0288**	**4.512**	**1.680**	**53.64**	**.0834**	**-.0002**	**4.276**	**-.0012**	**.1290**
Stddev	.0008	.033	.005	.04	.0010	.0001	.004	.0002	.0002
%RSD	2.722	.7388	.2757	.0746	1.152	42.71	.1035	19.29	.1782
#1	.0282	4.483	1.676	53.68	.0831	-.0002	4.275	-.0010	.1292
#2	.0284	4.505	1.685	53.64	.0845	-.0002	4.280	-.0013	.1288
#3	.0297	4.549	1.679	53.60	.0826	-.0001	4.272	-.0014	.1290

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0050**	**-.0003**	**3.688**	**-.0020**	**-.0005**	**.0042**
Stddev	.0006	.0008	.0003	.016	.0012	.0015	.0008
%RSD	126.2	15.49	80.54	.4371	58.54	315.0	20.27
#1	-.0004	.0045	-.0001	3.693	-.0032	.0012	.0042
#2	.0001	.0046	-.0006	3.700	-.0009	-.0008	.0033
#3	-.0010	.0059	-.0003	3.669	-.0019	-.0018	.0050

Zoom In Zoom Out

Sample Name: jc85513-4 Acquired: 4/3/2019 22:05:53 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109470.**	**10333.**	**4410.7**	**9342.1**
Stddev	236.	32.	2.1	6.3
%RSD	.21543	.30994	.04766	.06763
#1	109640.	10317.	4412.1	9349.3
#2	109560.	10370.	4408.3	9337.9
#3	109200.	10312.	4411.6	9339.0

Zoom In Zoom Out

Sample Name: jc85513-7 Acquired: 4/3/2019 22:11:15 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0001**	**.0002**	**-.0001**	**.0011**	**.0027**	**.0002**	**.0003**	**.0006**
Stddev	.0002	.0001	.0002	.0001	.0003	.0003	.0000	.0001	.0002
%RSD	31.47	227.8	89.09	111.7	24.47	9.934	23.22	17.29	29.47
#1	.0004	.0001	.0003	-.0001	.0008	.0025	.0001	.0004	.0004
#2	.0006	-.0001	.0002	.0000	.0014	.0026	.0002	.0003	.0007
#3	.0008	.0002	.0000	-.0003	.0012	.0030	.0002	.0004	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0008**	**-.0006**	**.0001**	**.0001**	**-.0001**	**.0002**	**.0222**	**.0540**
Stddev	.0001	.0000	.0006	.0006	.0004	.0009	.0011	.0067	.0018
%RSD	50.44	5.736	97.61	690.2	568.5	741.3	713.6	30.23	3.324
#1	.0001	.0008	.0001	-.0000	-.0002	-.0001	-.0009	.0221	.0529
#2	.0004	.0009	-.0011	.0008	.0006	-.0010	.0001	.0289	.0530
#3	.0003	.0008	-.0008	-.0005	-.0001	.0007	.0013	.0155	.0561

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098**	**-.0130**	**-.0255**	**.3686**	**.0013**	**-.0000**	**.1206**	**-.0004**	**.0004**
Stddev	.0026	.0365	.0050	.0017	.0004	.0001	.0004	.0002	.0001
%RSD	26.58	280.6	19.47	.4479	30.33	691.3	.3373	62.95	20.61
#1	.0114	.0139	-.0309	.3705	.0010	-.0001	.1207	-.0007	.0004
#2	.0068	-.0546	-.0247	.3682	.0012	-.0001	.1201	-.0002	.0005
#3	.0112	.0017	-.0210	.3673	.0018	.0001	.1209	-.0002	.0004

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0010**	**.0003**	**.0038**	**-.0010**	**.0007**	**-.0030**
Stddev	.0001	.0006	.0000	.0001	.0010	.0012	.0010
%RSD	33.61	60.48	4.946	1.904	98.71	160.3	33.48
#1	.0002	.0012	.0003	.0039	-.0003	.0020	-.0019
#2	.0004	.0014	.0003	.0037	-.0021	.0004	-.0038
#3	.0004	.0003	.0003	.0038	-.0006	-.0003	-.0034

Zoom In Zoom Out

Sample Name: jc85513-7 Acquired: 4/3/2019 22:11:15 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113520.**	**10389.**	**4554.5**	**10019.**
Stddev	485.	7.	2.1	2.
%RSD	.42733	.06480	.04507	.01989
#1	113000.	10382.	4553.6	10021.
#2	113960.	10391.	4556.8	10019.
#3	113610.	10395.	4553.1	10017.

Zoom In Zoom Out

Sample Name: jc85527-1 Acquired: 4/3/2019 22:16:42 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2344**	**.0002**	**.0001**	**.0020**	**.0093**	**.0115**	**3.565**	**.0069**	**.0068**
Stddev	.0005	.0001	.0002	.0001	.0001	.0005	.004	.0002	.0004
%RSD	.1962	54.29	257.7	5.727	1.138	3.990	.1070	3.289	6.593
#1	.2345	.0001	.0003	.0020	.0094	.0110	3.569	.0068	.0063
#2	.2347	.0001	.0001	.0021	.0094	.0119	3.565	.0068	.0070
#3	.2338	.0003	-.0001	.0019	.0092	.0116	3.561	.0072	.0071

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0123**	**.0487**	**.0078**	**-.0017**	**.0145**	**-.0028**	**-.0006**	**3.169**	**102.6**
Stddev	.0001	.0002	.0006	.0007	.0008	.0009	.0014	.006	.2
%RSD	.7415	.3401	7.655	44.41	5.321	33.62	226.7	.1791	.2321
#1	.0123	.0487	.0076	-.0008	.0151	-.0039	-.0015	3.175	102.7
#2	.0122	.0489	.0073	-.0020	.0146	-.0022	-.0012	3.164	102.7
#3	.0124	.0486	.0085	-.0022	.0136	-.0023	.0010	3.167	102.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.05**	**200.4**	**80.82**	F **1111.**	**1.329**	**.0154**	**23.80**	**-.0008**	**1.464**
Stddev	.01	.4	.12	21.	.004	.0003	.05	.0003	.000
%RSD	.0330	.1805	.1452	1.853	.2851	1.625	.2110	44.11	.0214
#1	24.05	200.8	80.88	1123.	1.332	.0153	23.85	-.0011	1.464
#2	24.05	200.5	80.89	1123.	1.331	.0152	23.79	-.0006	1.464
#3	24.06	200.1	80.68	1087.	1.325	.0157	23.75	-.0006	1.463

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0877**	**.0263**	**.0004**	**13.68**	**.0012**	**.0265**	**4.327**
Stddev	.0016	.0008	.0001	.08	.0010	.0025	.023
%RSD	1.768	2.854	25.43	.6021	85.04	9.390	.5218
#1	.0872	.0269	.0003	13.78	.0018	.0254	4.352
#2	.0894	.0267	.0005	13.62	.0000	.0294	4.308
#3	.0864	.0255	.0004	13.65	.0018	.0248	4.320

Zoom In Zoom Out

Sample Name: jc85527-1 Acquired: 4/3/2019 22:16:42 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94060.**	**9867.5**	**3812.4**	**7378.0**
Stddev	41.	36.9	1.9	3.1
%RSD	.04401	.37399	.04996	.04268
#1	94096.	9838.3	3810.7	7381.0
#2	94069.	9855.1	3814.4	7374.7
#3	94015.	9909.0	3812.1	7378.3

Zoom In Zoom Out

Sample Name: jc85527-2 Acquired: 4/3/2019 22:22:06 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3232**	**.0000**	**-.0001**	**.0026**	**.0070**	**.0106**	**4.693**	**.0046**
Stddev	.0005	.0001	.0002	.0003	.0002	.0001	.007	.0003
%RSD	.1541	2484.	167.6	10.53	2.214	.6879	.1404	7.266
#1	.3237	-.0001	.0001	.0023	.0069	.0105	4.695	.0049
#2	.3227	.0001	-.0001	.0027	.0071	.0106	4.698	.0047
#3	.3232	-.0000	-.0002	.0028	.0068	.0106	4.685	.0042

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0091**	**.0102**	**.0530**	**.0057**	F **-.0022**	**.0216**	**-.0005**	**.0002**
Stddev	.0010	.0004	.0002	.0005	.0010	.0003	.0014	.0014
%RSD	10.58	3.555	.3009	9.228	46.40	1.256	301.8	883.6
#1	.0096	.0106	.0530	.0063	-.0030	.0214	.0010	-.0001
#2	.0080	.0100	.0531	.0053	-.0024	.0214	-.0005	-.0012
#3	.0096	.0100	.0528	.0056	-.0011	.0219	-.0018	.0017

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7934**	**153.6**	**26.07**	F **319.0**	**113.0**	F **1440.**	**1.723**	**.2008**
Stddev	.0067	.3	.03	1.4	.2	44.	.004	.0007
%RSD	.8466	.2076	.1126	.4371	.1728	3.067	.2599	.3590
#1	.7871	154.0	26.09	320.6	113.1	1486.	1.726	.2015
#2	.8005	153.5	26.04	318.7	112.7	1436.	1.717	.2001
#3	.7926	153.4	26.09	317.8	113.0	1398.	1.725	.2008

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.22**	**-.0003**	**2.282**	**.0303**	**.0299**	**.0026**	**52.02**	**.0013**
Stddev	.01	.0003	.001	.0004	.0009	.0003	.11	.0003
%RSD	.0625	126.0	.0442	1.445	2.927	12.33	.2155	26.54
#1	23.23	-.0007	2.282	.0307	.0292	.0029	51.91	.0017
#2	23.20	-.0000	2.281	.0305	.0309	.0024	52.01	.0012
#3	23.23	-.0001	2.283	.0298	.0297	.0023	52.14	.0011

Zoom In Zoom Out

Sample Name: jc85527-2 Acquired: 4/3/2019 22:22:06 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0410**	**6.388**
Stddev	.0008	.017
%RSD	1.846	.2581
#1	.0402	6.374
#2	.0417	6.383
#3	.0411	6.406

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**89032.**	**9586.4**	**3622.1**	**6981.4**
Stddev	199.	55.9	2.1	4.7
%RSD	.22353	.58282	.05796	.06700
#1	88938.	9521.9	3623.1	6981.3
#2	88898.	9619.3	3619.7	6976.7
#3	89261.	9618.1	3623.6	6986.0

Zoom In Zoom Out

Sample Name: jc85527-3 Acquired: 4/3/2019 22:27:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.449**	**.0000**	**-.0000**	**.0002**	**.0030**	**.0197**	**.5834**	**.0017**
Stddev	.017	.0000	.0001	.0001	.0004	.0008	.0096	.0004
%RSD	1.184	94.28	161.5	49.99	12.26	3.815	1.650	22.46
#1	1.431	.0000	.0000	.0004	.0032	.0205	.5939	.0014
#2	1.450	.0000	-.0001	.0002	.0026	.0195	.5812	.0017
#3	1.466	.0001	-.0001	.0001	.0033	.0191	.5751	.0022

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0018**	**.0586**	**.0006**	**-.0001**	**.0573**	**-.0028**	**.0011**
Stddev	.0004	.0002	.0001	.0016	.0013	.0020	.0005	.0008
%RSD	9.168	9.837	.1352	270.3	2046.	3.482	19.76	72.13
#1	.0035	.0020	.0586	.0004	-.0015	.0577	-.0021	.0007
#2	.0039	.0019	.0585	-.0009	.0002	.0551	-.0030	.0020
#3	.0042	.0016	.0587	.0023	.0011	.0591	-.0031	.0006

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1884**	**160.0**	**41.89**	**26.28**	**21.07**	**190.9**	**.4095**	**-.0000**
Stddev	.0101	1.9	.51	.35	.26	2.6	.0025	.0001
%RSD	5.371	1.193	1.229	1.322	1.211	1.340	.6226	180.4
#1	.1780	158.1	41.41	26.00	20.81	188.3	.4121	-.0001
#2	.1888	159.9	41.84	26.17	21.07	190.9	.4070	.0000
#3	.1982	161.9	42.43	26.67	21.32	193.4	.4093	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.16**	**.0057**	**1.110**	**.0084**	**.0219**	W **-.0015**	**1.085**	**.0011**
Stddev	.04	.0005	.014	.0009	.0003	.0001	.003	.0023
%RSD	.2166	9.255	1.223	10.42	1.324	8.002	.2683	203.1
#1	20.21	.0054	1.098	.0085	.0222	-.0014	1.088	.0011
#2	20.12	.0063	1.109	.0075	.0217	-.0015	1.082	-.0011
#3	20.16	.0054	1.125	.0092	.0217	-.0017	1.085	.0035

Zoom In Zoom Out

Sample Name: jc85527-3 Acquired: 4/3/2019 22:27:29 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0988**	**.8015**
Stddev	.0015	.0007
%RSD	1.563	.0827
#1	.0972	.8022
#2	.1003	.8009
#3	.0988	.8016

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103370.**	**9962.5**	**4186.1**	**8484.7**
Stddev	1420.	78.9	3.8	15.0
%RSD	1.3735	.79166	.09155	.17622
#1	101830.	10026.	4186.4	8483.3
#2	103680.	9986.6	4189.7	8500.3
#3	104620.	9874.3	4182.1	8470.4

Zoom In Zoom Out

Sample Name: jc85527-4 Acquired: 4/3/2019 22:32:44 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6047**	**.0001**	**-.0000**	**.0014**	**.0034**	**.0061**	**.8450**	**.0046**	**.0029**
Stddev	.0012	.0001	.0001	.0004	.0003	.0001	.0003	.0003	.0004
%RSD	.2024	66.35	659.7	25.52	8.601	2.422	.0382	7.411	14.15
#1	.6058	.0001	-.0001	.0015	.0031	.0060	.8453	.0047	.0028
#2	.6048	.0000	.0001	.0010	.0036	.0062	.8450	.0050	.0025
#3	.6034	.0001	-.0000	.0016	.0036	.0063	.8446	.0043	.0033

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0229**	**.0077**	**-.0006**	**.0147**	**-.0029**	**-.0000**	**.4288**	**127.2**
Stddev	.0001	.0001	.0013	.0013	.0006	.0002	.0006	.0081	.3
%RSD	4.293	.6271	16.20	216.5	3.853	5.385	3268.	1.891	.2720
#1	.0034	.0231	.0091	-.0015	.0149	-.0030	-.0007	.4353	127.6
#2	.0037	.0228	.0067	.0009	.0151	-.0029	.0003	.4197	126.9
#3	.0034	.0228	.0074	-.0011	.0140	-.0027	.0003	.4313	127.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.35**	**18.35**	**14.98**	**172.8**	**.3000**	**.0035**	**15.78**	**-.0008**	**.8374**
Stddev	.07	.06	.07	.5	.0007	.0003	.03	.0012	.0034
%RSD	.3861	.3492	.4395	.2737	.2466	8.173	.1641	159.1	.4100
#1	19.35	18.39	15.01	173.4	.3008	.0036	15.79	-.0018	.8390
#2	19.43	18.38	15.03	172.6	.2995	.0032	15.80	-.0010	.8398
#3	19.28	18.27	14.91	172.5	.2996	.0037	15.75	.0005	.8335

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0139**	**.0199**	**-.0008**	**3.512**	**-.0010**	**.0654**	**.5212**
Stddev	.0000	.0008	.0000	.028	.0004	.0006	.0040
%RSD	.2453	3.974	4.670	.7911	45.76	.8499	.7739
#1	.0139	.0196	-.0009	3.532	-.0006	.0654	.5236
#2	.0139	.0207	-.0008	3.524	-.0008	.0659	.5236
#3	.0139	.0192	-.0008	3.480	-.0014	.0648	.5166

Zoom In Zoom Out

Sample Name: jc85527-4 Acquired: 4/3/2019 22:32:44 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105160.**	**10145.**	**4220.6**	**8602.4**
Stddev	156.	42.	3.8	7.9
%RSD	.14799	.41888	.08906	.09214
#1	105340.	10097.	4220.7	8599.4
#2	105110.	10163.	4216.8	8596.4
#3	105040.	10176.	4224.3	8611.3

Zoom In Zoom Out

Sample Name: jc85527-5 Acquired: 4/3/2019 22:38:02 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**-.0001**	**.0001**	**.0000**	**.0002**	**.0006**	**.0002**	**.0003**	**.0007**
Stddev	.0002	.0001	.0002	.0001	.0001	.0003	.0000	.0002	.0004
%RSD	11.72	173.1	339.9	655.7	69.92	52.97	12.42	65.05	50.57
#1	.0012	-.0000	.0002	-.0001	.0002	.0005	.0002	.0005	.0008
#2	.0013	-.0002	-.0001	.0000	.0000	.0010	.0002	.0002	.0003
#3	.0015	.0000	.0001	.0001	.0003	.0004	.0003	.0001	.0010

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0010**	**.0008**	**.0001**	**-.0002**	**-.0005**	**-.0003**	**.0288**	**.0563**
Stddev	.0002	.0002	.0004	.0006	.0005	.0017	.0002	.0099	.0031
%RSD	99.92	15.46	45.16	1042.	242.1	369.0	77.83	34.28	5.460
#1	.0003	.0009	.0004	-.0002	-.0001	-.0024	-.0001	.0212	.0597
#2	-.0000	.0010	.0011	-.0004	.0002	.0004	-.0003	.0252	.0537
#3	.0004	.0012	.0007	.0008	-.0007	.0007	-.0005	.0399	.0554

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0129**	**.0097**	**.0228**	**.2753**	**.0009**	**.0002**	**.0899**	**-.0008**	**.0011**
Stddev	.0025	.0323	.0122	.0111	.0004	.0002	.0003	.0008	.0000
%RSD	19.24	332.4	53.58	4.046	45.16	96.14	.3049	95.35	4.188
#1	.0125	.0179	.0368	.2868	.0006	.0003	.0902	-.0017	.0010
#2	.0156	-.0259	.0162	.2745	.0008	.0004	.0897	-.0004	.0010
#3	.0107	.0371	.0153	.2646	.0013	-.0000	.0899	-.0003	.0011

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0008**	**.0002**	**.0065**	**-.0015**	**.0001**	**-.0021**
Stddev	.0002	.0006	.0001	.0017	.0003	.0003	.0004
%RSD	412.2	77.61	52.15	26.11	16.65	464.3	17.74
#1	-.0001	.0013	.0001	.0046	-.0016	.0002	-.0017
#2	.0002	.0001	.0002	.0071	-.0013	.0003	-.0023
#3	-.0000	.0011	.0003	.0079	-.0018	-.0003	-.0024

Zoom In Zoom Out

Sample Name: jc85527-5 Acquired: 4/3/2019 22:38:02 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113300.**	**10253.**	**4568.1**	**10053.**
Stddev	273.	54.	5.5	5.
%RSD	.24081	.52571	.12019	.04485
#1	113160.	10208.	4564.4	10050.
#2	113120.	10238.	4565.5	10058.
#3	113610.	10313.	4574.4	10050.

Zoom In Zoom Out

Sample Name: jc85531-1 Acquired: 4/3/2019 22:43:30 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1561**	**.0000**	**.0000**	**.0006**	**.0012**	**.0024**	**.1448**	**.0040**
Stddev	.0002	.0000	.0001	.0002	.0002	.0005	.0001	.0003
%RSD	.1136	140.3	3358.	40.71	14.29	18.99	.0921	6.622
#1	.1562	.0000	.0001	.0003	.0010	.0024	.1449	.0042
#2	.1559	-.0000	-.0001	.0007	.0013	.0019	.1446	.0040
#3	.1563	.0001	-.0000	.0008	.0012	.0028	.1449	.0037

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036**	**.0017**	**.0055**	**.0020**	**.0001**	**.0003**	**-.0001**	**-.0010**
Stddev	.0006	.0005	.0000	.0008	.0004	.0006	.0018	.0001
%RSD	16.79	27.16	.2863	39.83	607.0	173.8	1309.	11.23
#1	.0037	.0016	.0055	.0011	-.0003	-.0003	.0014	-.0010
#2	.0030	.0023	.0055	.0024	.0005	.0005	.0004	-.0010
#3	.0042	.0013	.0056	.0024	.0000	.0008	-.0021	-.0008

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3440**	**29.51**	**5.827**	**14.57**	**36.00**	W **222.3**	**4.241**	**.0030**
Stddev	.0084	.10	.013	.06	.02	.7	.007	.0002
%RSD	2.448	.3532	.2242	.4287	.0524	.3024	.1551	5.869
#1	.3471	29.49	5.817	14.51	36.01	222.9	4.248	.0029
#2	.3504	29.62	5.822	14.63	35.98	221.5	4.239	.0032
#3	.3344	29.42	5.842	14.59	36.02	222.4	4.235	.0028

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.297**	**-.0010**	**.1607**	**.0002**	**.0084**	**.0007**	**6.424**	**-.0017**
Stddev	.005	.0005	.0004	.0002	.0008	.0001	.032	.0009
%RSD	.1507	47.03	.2437	99.03	9.579	16.12	.4930	52.37
#1	3.302	-.0013	.1602	.0004	.0094	.0008	6.452	-.0007
#2	3.295	-.0004	.1609	.0001	.0081	.0006	6.389	-.0025
#3	3.293	-.0012	.1609	.0000	.0078	.0007	6.430	-.0019

Zoom In Zoom Out

Sample Name: jc85531-1 Acquired: 4/3/2019 22:43:30 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0021**	**.0251**
Stddev	.0006	.0014
%RSD	29.97	5.638
#1	.0027	.0254
#2	.0015	.0264
#3	.0019	.0236

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104930.**	**10093.**	**4267.2**	**8701.7**
Stddev	227.	71.	8.6	10.9
%RSD	.21602	.70188	.20216	.12497
#1	104820.	10124.	4259.7	8693.9
#2	104780.	10013.	4265.3	8697.0
#3	105190.	10144.	4276.6	8714.1

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 22:48:55 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.959**	**1.927**	**1.974**	**1.913**	**1.948**	**1.916**	**1.979**	**1.968**	**.2415**
Stddev	.004	.004	.001	.003	.003	.005	.001	.003	.0004
%RSD	.1765	.2207	.0253	.1433	.1679	.2564	.0697	.1352	.1827
#1	1.956	1.925	1.974	1.913	1.951	1.919	1.980	1.968	.2419
#2	1.959	1.924	1.975	1.916	1.944	1.919	1.977	1.970	.2416
#3	1.963	1.931	1.975	1.910	1.949	1.911	1.979	1.965	.2411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.946**	**1.968**	**1.928**	**1.997**	**1.955**	**1.927**	**1.926**	**38.81**	**38.72**
Stddev	.002	.004	.003	.003	.002	.006	.004	.10	.10
%RSD	.0826	.1940	.1761	.1492	.0871	.3035	.2053	.2602	.2453
#1	1.947	1.969	1.924	1.996	1.956	1.924	1.922	38.73	38.63
#2	1.944	1.972	1.931	1.995	1.955	1.934	1.930	38.79	38.70
#3	1.947	1.964	1.929	2.001	1.953	1.924	1.925	38.92	38.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.63**	**38.27**	**38.14**	**38.17**	**1.959**	**1.968**	**4.879**	**1.991**	**1.959**
Stddev	.11	.08	.04	.09	.002	.002	.008	.005	.003
%RSD	.2951	.2102	.1090	.2257	.1027	.1185	.1698	.2497	.1480
#1	38.65	38.25	38.15	38.10	1.961	1.965	4.874	1.992	1.956
#2	38.51	38.21	38.09	38.14	1.959	1.970	4.889	1.994	1.959
#3	38.73	38.36	38.17	38.26	1.957	1.967	4.874	1.985	1.962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 22:48:55 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.971**	**1.948**	**1.960**	**1.914**	**1.927**	**1.910**	**1.960**
Stddev	.001	.006	.001	.005	.004	.003	.002
%RSD	.0445	.3212	.0615	.2596	.2156	.1402	.0820
#1	1.972	1.949	1.962	1.915	1.924	1.908	1.958
#2	1.971	1.955	1.960	1.918	1.932	1.909	1.961
#3	1.970	1.942	1.959	1.909	1.924	1.913	1.960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107530.**	**10225.**	**4429.0**	**9044.9**
Stddev	188.	32.	2.4	4.9
%RSD	.17513	.31426	.05335	.05363
#1	107380.	10194.	4430.0	9046.0
#2	107740.	10259.	4426.3	9039.6
#3	107470.	10222.	4430.6	9049.1

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 22:53:56 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0001**	**.0001**	**.0000**	**.0002**	**.0002**	**.0001**	**.0005**
Stddev	.0003	.0001	.0001	.0000	.0002	.0001	.0001	.0002	.0005
%RSD	636.6	41.04	166.6	42.48	664.1	72.07	38.86	174.3	101.4
#1	.0004	.0001	.0002	.0001	.0002	.0003	.0003	.0002	.0001
#2	-.0001	.0001	-.0000	.0001	-.0002	.0000	.0003	.0002	.0002
#3	-.0001	.0002	.0000	.0000	.0001	.0003	.0001	-.0001	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**-.0004**	**.0010**	**.0004**	**.0008**	**-.0010**	**-.0049**	**.0022**
Stddev	.0002	.0000	.0001	.0007	.0005	.0010	.0010	.0099	.0014
%RSD	55.62	22.87	28.85	68.45	136.3	125.8	91.50	202.6	64.04
#1	.0003	-.0001	-.0003	.0016	.0005	.0001	-.0000	-.0143	.0030
#2	.0001	-.0001	-.0004	.0010	-.0002	.0020	-.0020	.0055	.0006
#3	.0004	-.0001	-.0004	.0003	.0009	.0004	-.0011	-.0059	.0030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0151**	**.0606**	**.0817**	**.0022**	**.0000**	**.0008**	**-.0000**	**-.0000**
Stddev	.0070	.0067	.0188	.0052	.0002	.0000	.0005	.0005	.0001
%RSD	870.7	44.13	31.05	6.395	8.322	143.6	71.64	4182.	189.7
#1	.0012	-.0078	.0468	.0869	.0021	.0001	.0007	-.0002	.0000
#2	-.0064	-.0208	.0820	.0764	.0024	-.0000	.0014	.0005	-.0002
#3	.0075	-.0168	.0528	.0817	.0020	.0000	.0003	-.0004	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 22:53:56 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0002**	**.0003**	**-.0006**	**-.0002**	**.0001**	**-.0051**
Stddev	.0001	.0011	.0001	.0012	.0012	.0013	.0009
%RSD	71.63	488.8	50.55	209.5	645.3	1170.	16.83
#1	.0003	-.0006	.0005	.0006	-.0013	.0000	-.0041
#2	.0003	-.0002	.0002	-.0005	.0011	-.0011	-.0052
#3	.0000	.0015	.0002	-.0018	-.0003	.0014	-.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113220.**	**10214.**	**4585.2**	**10078.**
Stddev	80.	38.	3.3	5.
%RSD	.07061	.37233	.07187	.05211
#1	113130.	10174.	4588.0	10081.
#2	113280.	10249.	4581.5	10072.
#3	113260.	10219.	4586.0	10081.

Zoom In Zoom Out

Sample Name: mp13758-mb1conf Acquired: 4/3/2019 22:59:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0001**	**.0002**	**.0001**	**.0000**	**.0002**	**.0000**	**.0000**	**.0008**
Stddev	.0000	.0001	.0001	.0002	.0005	.0003	.0000	.0002	.0005
%RSD	38.60	65.11	60.97	131.0	9195.	127.2	1400.	19520.	54.91
#1	-.0001	-.0000	.0002	.0000	.0004	.0004	-.0000	.0000	.0003
#2	-.0001	-.0001	.0001	.0001	.0002	-.0001	.0000	-.0002	.0010
#3	-.0001	-.0001	.0002	.0003	-.0006	.0003	.0000	.0002	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0011**	**.0002**	**-.0007**	**-.0001**	**.0010**	**-.0011**	**-.0110**	**.0077**
Stddev	.0001	.0001	.0006	.0001	.0006	.0017	.0008	.0071	.0022
%RSD	77.60	7.358	249.7	19.96	560.6	180.4	67.38	64.60	27.90
#1	.0001	.0010	.0007	-.0009	-.0004	.0027	-.0005	-.0103	.0066
#2	.0002	.0012	-.0004	-.0007	-.0005	-.0008	-.0009	-.0184	.0064
#3	.0000	.0011	.0004	-.0006	.0006	.0010	-.0020	-.0043	.0102

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**-.0053**	**-.0041**	**.0690**	**.0015**	**.0001**	**.0106**	**-.0004**	**-.0001**
Stddev	.0053	.0172	.0317	.0078	.0007	.0001	.0009	.0005	.0001
%RSD	220.3	326.2	771.4	11.26	48.62	42.08	8.559	130.5	87.52
#1	.0062	-.0168	.0159	.0702	.0023	.0002	.0111	-.0001	-.0000
#2	.0047	.0145	-.0406	.0761	.0010	.0001	.0111	-.0001	-.0002
#3	-.0036	-.0136	.0124	.0607	.0011	.0002	.0095	-.0009	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0008**	**.0002**	**.0022**	**-.0008**	**-.0000**	**-.0046**
Stddev	.0005	.0003	.0001	.0006	.0004	.0010	.0008
%RSD	1898.	33.17	41.69	24.98	48.18	2945.	16.96
#1	-.0006	.0010	.0002	.0018	-.0013	-.0012	-.0054
#2	.0001	.0005	.0001	.0021	-.0007	.0004	-.0039
#3	.0004	.0009	.0003	.0029	-.0005	.0007	-.0045

Zoom In Zoom Out

Sample Name: mp13758-mb1conf Acquired: 4/3/2019 22:59:25 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**114010.**	**10289.**	**4567.0**	**10055.**
Stddev	122.	70.	2.8	7.
%RSD	.10715	.68240	.06209	.06484
#1	113920.	10251.	4570.0	10063.
#2	114150.	10370.	4564.4	10050.
#3	113960.	10246.	4566.6	10052.

Zoom In Zoom Out

Sample Name: jc85611-1 Acquired: 4/3/2019 23:04:54 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0116**	**-.0000**	**-.0001**	**.0001**	**.0001**	**.0008**	**.0873**	**.0004**	**.0009**
Stddev	.0002	.0001	.0002	.0001	.0005	.0003	.0002	.0003	.0003
%RSD	1.856	260.8	167.9	100.8	308.8	36.41	.2005	72.41	27.35
#1	.0117	.0000	.0001	.0001	-.0001	.0006	.0873	.0006	.0009
#2	.0113	-.0000	-.0001	.0002	-.0001	.0011	.0872	.0001	.0007
#3	.0116	-.0001	-.0004	-.0000	.0007	.0007	.0875	.0005	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0669**	**.0006**	**.0002**	**.0003**	**.0005**	**-.0010**	**.0023**	**9.408**
Stddev	.0002	.0039	.0004	.0016	.0006	.0016	.0001	.0039	.009
%RSD	62.31	5.763	56.00	906.8	208.1	337.7	11.32	172.4	.0948
#1	.0004	.0639	.0002	-.0015	.0003	-.0004	-.0010	-.0019	9.413
#2	.0001	.0713	.0008	.0017	.0010	-.0005	-.0011	.0030	9.414
#3	.0004	.0655	.0009	.0003	-.0003	.0023	-.0009	.0057	9.398

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.180**	**3.203**	**1.968**	**32.34**	**.0430**	**.0010**	**2.300**	**-.0012**	**.0594**
Stddev	.010	.024	.014	.04	.0005	.0001	.019	.0002	.0001
%RSD	.8826	.7464	.6889	.1296	1.277	5.092	.8201	13.69	.0852
#1	1.187	3.178	1.954	32.33	.0432	.0011	2.306	-.0014	.0594
#2	1.185	3.206	1.981	32.38	.0435	.0010	2.314	-.0010	.0594
#3	1.168	3.225	1.970	32.30	.0424	.0010	2.278	-.0013	.0593

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0039**	**-.0001**	**3.462**	**.0013**	**.0003**	**-.0017**
Stddev	.0002	.0007	.0001	.032	.0004	.0005	.0006
%RSD	11.41	18.83	65.38	.9280	33.00	185.8	35.05
#1	.0016	.0032	-.0001	3.470	.0014	.0009	-.0010
#2	.0014	.0046	-.0000	3.489	.0008	.0002	-.0018
#3	.0012	.0040	-.0001	3.426	.0016	-.0002	-.0022

Zoom In Zoom Out

Sample Name: jc85611-1 Acquired: 4/3/2019 23:04:54 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110850.**	**10258.**	**4500.6**	**9649.3**
Stddev	216.	14.	29.6	55.8
%RSD	.19500	.13930	.65815	.57842
#1	110770.	10266.	4481.1	9603.6
#2	111100.	10242.	4486.0	9632.8
#3	110690.	10267.	4534.7	9711.5

Zoom In Zoom Out

Sample Name: jc85367-4f Acquired: 4/3/2019 23:10:17 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0323**	**.0001**	**.0001**	**.0024**	**.0008**	**.0014**	**3.134**	**.0003**	**.0017**
Stddev	.0002	.0001	.0002	.0002	.0003	.0004	.007	.0002	.0001
%RSD	.6220	164.2	143.8	7.728	40.67	26.38	.2293	87.93	5.212
#1	.0325	.0000	-.0000	.0025	.0005	.0017	3.130	.0000	.0017
#2	.0325	-.0000	.0003	.0025	.0008	.0010	3.143	.0005	.0017
#3	.0321	.0002	.0001	.0022	.0011	.0016	3.131	.0003	.0016

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0012**	**.0053**	**-.0014**	**-.0003**	**.0002**	**-.0010**	**.1856**	**47.52**
Stddev	.0003	.0001	.0003	.0003	.0003	.0012	.0008	.0072	.12
%RSD	10.02	8.460	5.419	19.13	103.3	551.1	78.66	3.854	.2440
#1	.0038	.0011	.0050	-.0013	-.0006	.0016	-.0019	.1872	47.60
#2	.0031	.0013	.0056	-.0012	-.0003	-.0000	-.0009	.1778	47.39
#3	.0035	.0011	.0053	-.0017	-.0000	-.0009	-.0003	.1918	47.58

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.91**	**27.44**	**2.499**	**51.06**	**.0675**	**.0008**	**5.122**	**-.0021**	**.1986**
Stddev	.06	.06	.017	.04	.0002	.0001	.011	.0005	.0005
%RSD	.2023	.2127	.6586	.0750	.2804	18.59	.2213	21.41	.2623
#1	30.91	27.49	2.486	51.08	.0674	.0009	5.133	-.0023	.1990
#2	30.97	27.46	2.518	51.08	.0674	.0007	5.124	-.0016	.1989
#3	30.84	27.38	2.493	51.01	.0677	.0007	5.110	-.0024	.1980

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0066**	**-.0004**	**47.59**	**.0011**	**-.0015**	**.0067**
Stddev	.0002	.0003	.0002	.13	.0013	.0004	.0004
%RSD	15.04	3.874	56.47	.2660	110.7	28.24	6.371
#1	-.0014	.0063	-.0001	47.74	.0026	-.0014	.0071
#2	-.0015	.0068	-.0005	47.50	.0002	-.0012	.0064
#3	-.0011	.0065	-.0004	47.54	.0006	-.0020	.0065

Zoom In Zoom Out

Sample Name: jc85367-4f Acquired: 4/3/2019 23:10:17 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107790.**	**10199.**	**4356.9**	**9194.2**
Stddev	103.	31.	5.9	3.7
%RSD	.09560	.30785	.13460	.03972
#1	107820.	10177.	4350.7	9192.1
#2	107680.	10235.	4357.6	9192.0
#3	107880.	10185.	4362.4	9198.4

Zoom In Zoom Out

Sample Name: mp13672-mb1conf Acquired: 4/3/2019 23:15:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0001**	**.0001**	**.0000**	**.0004**	**.0012**	**.0001**	**-.0003**	**.0010**
Stddev	.0002	.0001	.0001	.0001	.0006	.0003	.0000	.0002	.0003
%RSD	265.1	123.1	133.5	306.7	142.8	25.48	6.489	91.89	31.87
#1	.0001	.0000	.0002	-.0001	.0008	.0013	.0002	-.0000	.0012
#2	-.0002	-.0001	-.0000	.0001	.0007	.0015	.0001	-.0003	.0011
#3	.0000	-.0001	.0001	.0000	-.0003	.0009	.0001	-.0005	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0036**	**-.0003**	**.0002**	**-.0000**	**-.0007**	**.0002**	**-.0002**	**.0158**
Stddev	.0003	.0001	.0007	.0009	.0010	.0009	.0002	.0101	.0013
%RSD	749.2	3.768	200.6	474.1	28460.	121.7	105.0	4183.	8.485
#1	.0004	.0035	-.0004	-.0001	-.0002	-.0000	.0002	-.0080	.0154
#2	-.0002	.0037	.0004	-.0005	.0010	-.0004	.0004	.0112	.0147
#3	-.0001	.0037	-.0010	.0012	-.0008	-.0017	-.0000	-.0038	.0173

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**.0148**	**.0048**	**.0677**	**.0005**	**.0002**	**.0155**	**-.0008**	**.0001**
Stddev	.0021	.0192	.0250	.0073	.0003	.0001	.0021	.0005	.0001
%RSD	70.21	129.7	523.9	10.84	73.31	54.17	13.55	67.24	66.78
#1	.0024	-.0074	-.0093	.0759	.0008	.0003	.0143	-.0007	.0000
#2	.0013	.0262	-.0101	.0616	.0004	.0001	.0179	-.0014	.0001
#3	.0054	.0255	.0336	.0657	.0001	.0002	.0143	-.0003	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0011**	**.0002**	**.0131**	**-.0010**	**-.0003**	**-.0065**
Stddev	.0003	.0002	.0001	.0025	.0006	.0006	.0005
%RSD	75.66	21.43	32.78	19.00	65.90	218.7	8.002
#1	-.0004	.0013	.0002	.0103	-.0006	-.0005	-.0070
#2	-.0001	.0009	.0001	.0149	-.0017	-.0008	-.0064
#3	-.0008	.0010	.0003	.0142	-.0006	.0004	-.0060

Zoom In Zoom Out

Sample Name: mp13672-mb1conf Acquired: 4/3/2019 23:15:39 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113550.**	**10339.**	**4554.8**	**10043.**
Stddev	520.	37.	5.4	15.
%RSD	.45776	.35329	.11756	.15156
#1	113670.	10304.	4552.3	10034.
#2	112980.	10377.	4561.0	10061.
#3	113990.	10335.	4551.2	10035.

Zoom In Zoom Out

Sample Name: mp13672-sd1 Acquired: 4/3/2019 23:21:08 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046**	**.0000**	**-.0001**	**-.0003**	**-.0009**	**.0024**	**.0034**	**.0004**	**.0036**
Stddev	.0004	.0004	.0002	.0014	.0014	.0005	.0002	.0011	.0009
%RSD	9.770	5678.	284.3	518.5	160.2	22.03	6.652	248.9	24.33
#1	.0041	.0002	-.0002	-.0017	-.0003	.0020	.0034	.0006	.0041
#2	.0048	.0003	.0002	.0012	.0002	.0022	.0036	-.0007	.0026
#3	.0048	-.0004	-.0001	-.0004	-.0025	.0030	.0032	.0014	.0041

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0201**	**-.0003**	**.0012**	**.0024**	**-.0023**	**-.0000**	**-.0479**	**9.743**
Stddev	.0011	.0008	.0022	.0034	.0015	.0097	.0026	.0310	.041
%RSD	197.4	3.882	764.3	278.4	61.07	417.7	218000.	64.74	.4162
#1	-.0013	.0208	.0009	.0020	.0008	.0077	-.0005	-.0231	9.720
#2	-.0011	.0193	-.0028	.0043	.0038	-.0029	-.0024	-.0380	9.790
#3	.0007	.0202	.0010	-.0025	.0027	-.0117	.0028	-.0827	9.719

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0175**	**.9732**	**1.654**	**79.83**	**.0331**	**-.0003**	**1.698**	**-.0015**	**.1091**
Stddev	.0172	.0979	.042	.12	.0028	.0004	.002	.0005	.0004
%RSD	98.43	10.06	2.563	.1443	8.594	102.4	.1263	33.23	.4016
#1	.0288	.8856	1.617	79.75	.0330	-.0004	1.696	-.0014	.1093
#2	.0259	1.079	1.644	79.78	.0303	.0000	1.700	-.0011	.1093
#3	-.0023	.9550	1.700	79.97	.0360	-.0007	1.698	-.0021	.1086

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**.0030**	**-.0004**	**4.128**	**-.0069**	**-.0009**	**-.0257**
Stddev	.0013	.0056	.0005	.010	.0083	.0047	.0050
%RSD	110.5	185.7	112.1	.2439	120.3	515.7	19.55
#1	-.0015	.0090	-.0000	4.135	-.0107	.0008	-.0257
#2	-.0024	.0019	-.0010	4.133	.0026	.0027	-.0207
#3	.0002	-.0020	-.0003	4.117	-.0127	-.0062	-.0308

Zoom In Zoom Out

Sample Name: mp13672-sd1 Acquired: 4/3/2019 23:21:08 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111580.**	**10169.**	**4538.4**	**9834.2**
Stddev	686.	43.	4.7	11.6
%RSD	.61498	.42466	.10294	.11844
#1	111130.	10129.	4541.8	9845.9
#2	111240.	10163.	4533.1	9834.1
#3	112370.	10214.	4540.2	9822.7

Zoom In Zoom Out

Sample Name: jc85533-2 Acquired: 4/3/2019 23:26:35 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: as only mp13761

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9538**	**.0094**	**.0002**	**.0858**	**.2239**	**.2140**	**4.142**	**.1681**	**.0027**
Stddev	.0207	.0001	.0004	.0006	.0001	.0012	.012	.0005	.0026
%RSD	2.169	.7571	243.6	.6815	.0402	.5494	.2894	.2866	97.26
#1	.9754	.0095	.0006	.0854	.2240	.2140	4.132	.1677	.0053
#2	.9341	.0094	-.0002	.0864	.2239	.2129	4.139	.1680	.0001
#3	.9519	.0095	.0001	.0855	.2239	.2152	4.155	.1687	.0028

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3409**	**.4127**	**.0633**	**.0023**	**.1509**	**.0016**	**-.0020**	**170.4**	**4.836**
Stddev	.0011	.0014	.0013	.0019	.0031	.0036	.0009	4.4	.116
%RSD	.3154	.3293	2.131	83.31	2.083	223.6	46.80	2.588	2.401
#1	.3397	.4133	.0629	.0018	.1545	-.0025	-.0019	175.3	4.958
#2	.3418	.4137	.0648	.0006	.1487	.0039	-.0012	166.8	4.727
#3	.3412	.4112	.0622	.0044	.1495	.0033	-.0030	169.2	4.825

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**271.4**	**22.36**	**11.47**	**.7068**	**.0321**	**.0043**	**1.540**	**.0220**	**.0831**
Stddev	6.9	.69	.19	.0110	.0018	.0007	.004	.0012	.0019
%RSD	2.537	3.090	1.664	1.562	5.676	15.43	.2941	5.413	2.311
#1	279.0	23.07	11.60	.7117	.0301	.0037	1.544	.0208	.0853
#2	265.6	21.69	11.25	.6941	.0337	.0042	1.541	.0222	.0815
#3	269.8	22.32	11.55	.7145	.0324	.0050	1.535	.0232	.0826

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.507**	**.0057**	**.0844**	**.4270**	**-.0046**	**.0871**	**2.580**
Stddev	.015	.0005	.0006	.0049	.0024	.0025	.024
%RSD	.3224	9.043	.6675	1.159	52.66	2.903	.9197
#1	4.494	.0063	.0840	.4286	-.0072	.0875	2.599
#2	4.503	.0053	.0842	.4310	-.0025	.0844	2.554
#3	4.523	.0055	.0851	.4215	-.0041	.0894	2.588

Zoom In Zoom Out

Sample Name: jc85533-2 Acquired: 4/3/2019 23:26:35 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: as only mp13761

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**115050.**	**10534.**	**4760.1**	**9597.8**
Stddev	367.	306.	6.5	15.8
%RSD	.31866	2.9084	.13621	.16419
#1	114630.	10186.	4766.2	9615.9
#2	115320.	10764.	4753.3	9590.1
#3	115190.	10652.	4760.9	9587.4

Zoom In Zoom Out

Sample Name: jc85533-3 Acquired: 4/3/2019 23:31:50 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7208**	**.0089**	**.0003**	**.0736**	**.2308**	**.1931**	**2.880**	**.1681**	**.0002**
Stddev	.0140	.0001	.0002	.0004	.0027	.0022	.035	.0012	.0009
%RSD	1.941	1.039	82.61	.5764	1.182	1.165	1.224	.6857	390.0
#1	.7069	.0090	.0003	.0731	.2283	.1905	2.845	.1668	.0007
#2	.7205	.0089	.0006	.0738	.2303	.1943	2.881	.1685	-.0008
#3	.7348	.0089	.0001	.0739	.2337	.1945	2.916	.1690	.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3592**	**.4234**	**.0611**	**.0002**	**.1324**	**-.0016**	**-.0020**	**167.0**	**4.558**
Stddev	.0043	.0027	.0021	.0009	.0016	.0028	.0032	2.0	.091
%RSD	1.197	.6400	3.380	480.3	1.184	172.6	159.5	1.204	1.992
#1	.3556	.4203	.0592	.0012	.1340	-.0001	-.0020	165.0	4.457
#2	.3582	.4243	.0633	-.0004	.1309	-.0048	.0012	166.9	4.583
#3	.3640	.4255	.0610	-.0003	.1322	.0001	-.0053	169.0	4.634

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**255.1**	**21.99**	**10.87**	**.5749**	**.0336**	**.0048**	**1.565**	**.0229**	**.0794**
Stddev	3.3	.49	.35	.0202	.0016	.0002	.013	.0014	.0017
%RSD	1.283	2.241	3.235	3.508	4.842	5.001	.8308	6.003	2.184
#1	251.9	21.49	10.57	.5553	.0323	.0047	1.551	.0244	.0776
#2	255.0	22.02	10.78	.5739	.0330	.0050	1.570	.0219	.0796
#3	258.5	22.47	11.26	.5956	.0354	.0045	1.575	.0222	.0810

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.569**	**.0082**	**.0843**	**.4260**	**-.0037**	**.0855**	**2.624**
Stddev	.052	.0017	.0011	.0023	.0018	.0010	.009
%RSD	1.129	20.08	1.266	.5461	47.50	1.176	.3492
#1	4.519	.0083	.0836	.4236	-.0023	.0848	2.616
#2	4.567	.0066	.0838	.4263	-.0057	.0850	2.634
#3	4.622	.0099	.0855	.4282	-.0031	.0867	2.623

Zoom In Zoom Out

Sample Name: jc85533-3 Acquired: 4/3/2019 23:31:50 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**114870.**	**10657.**	**4748.5**	**9549.2**
Stddev	310.	19.	3.7	6.1
%RSD	.26987	.18072	.07699	.06393
#1	115220.	10645.	4748.6	9554.4
#2	114730.	10679.	4744.8	9542.5
#3	114650.	10646.	4752.1	9550.7

Zoom In Zoom Out

Sample Name: jc85533-4 Acquired: 4/3/2019 23:37:05 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.430**	**.0125**	**.0007**	**.1490**	**.2324**	**.2508**	**7.810**	**.2563**	**-.0027**
Stddev	.045	.0003	.0003	.0009	.0014	.0039	.091	.0016	.0011
%RSD	3.122	2.752	52.16	.6334	.6156	1.552	1.160	.6269	41.97
#1	1.382	.0122	.0009	.1480	.2309	.2471	7.714	.2547	-.0039
#2	1.436	.0125	.0009	.1493	.2324	.2505	7.824	.2579	-.0025
#3	1.470	.0128	.0003	.1498	.2338	.2549	7.894	.2564	-.0016

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3285**	**.6138**	**.0482**	**-.0002**	**.1736**	**-.0053**	**-.0026**	**172.5**	**11.07**
Stddev	.0028	.0017	.0019	.0031	.0016	.0024	.0024	3.6	.33
%RSD	.8472	.2850	4.036	1532.	.8932	45.16	92.37	2.065	2.952
#1	.3262	.6120	.0461	-.0033	.1731	-.0076	-.0043	168.8	10.75
#2	.3278	.6154	.0498	-.0002	.1722	-.0053	.0002	172.9	11.06
#3	.3316	.6142	.0488	.0030	.1753	-.0029	-.0037	175.8	11.40

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**275.1**	**20.93**	**12.73**	**.7531**	**.0335**	**.0019**	**1.601**	**.0220**	**.1327**
Stddev	6.6	.66	.61	.0471	.0012	.0003	.008	.0011	.0045
%RSD	2.385	3.152	4.796	6.255	3.657	15.17	.4767	4.919	3.390
#1	268.3	20.22	12.11	.7013	.0321	.0016	1.593	.0208	.1279
#2	275.7	21.03	12.74	.7646	.0343	.0021	1.600	.0227	.1334
#3	281.4	21.53	13.33	.7934	.0342	.0021	1.609	.0226	.1368

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.506**	**.0080**	**.0766**	**.2414**	**-.0004**	**.0831**	**4.506**
Stddev	.037	.0006	.0010	.0073	.0011	.0035	.027
%RSD	1.052	7.570	1.327	3.034	248.1	4.229	.6000
#1	3.467	.0084	.0758	.2361	.0008	.0792	4.480
#2	3.511	.0082	.0762	.2384	-.0010	.0842	4.506
#3	3.540	.0073	.0778	.2498	-.0010	.0859	4.534

Zoom In Zoom Out

Sample Name: jc85533-4 Acquired: 4/3/2019 23:37:05 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**117310.**	**10918.**	**4846.3**	**9523.9**
Stddev	41.	52.	5.7	2.6
%RSD	.03504	.48046	.11727	.02738
#1	117340.	10907.	4848.7	9526.6
#2	117320.	10975.	4839.8	9521.4
#3	117260.	10872.	4850.3	9523.8

Zoom In Zoom Out

Sample Name: jc85533-5 Acquired: 4/3/2019 23:42:19 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.259**	**.0132**	**.0001**	**.1246**	**.2130**	**.2338**	**7.084**	**.2269**	**-.0030**
Stddev	.031	.0003	.0001	.0030	.0047	.0057	.161	.0050	.0019
%RSD	2.472	2.226	101.9	2.407	2.207	2.450	2.271	2.186	62.44
#1	1.228	.0129	-.0000	.1212	.2080	.2277	6.937	.2212	-.0038
#2	1.259	.0131	.0002	.1258	.2138	.2348	7.059	.2291	-.0043
#3	1.290	.0135	.0001	.1269	.2173	.2390	7.256	.2303	-.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3106**	**.6183**	**.0425**	**-.0017**	**.1668**	**-.0052**	**-.0012**	**152.6**	**6.584**
Stddev	.0073	.0124	.0015	.0014	.0041	.0014	.0029	2.7	.158
%RSD	2.348	2.005	3.531	83.45	2.460	27.31	234.9	1.787	2.404
#1	.3039	.6040	.0440	-.0027	.1623	-.0040	.0008	149.9	6.436
#2	.3096	.6245	.0426	-.0001	.1678	-.0068	.0000	152.7	6.564
#3	.3184	.6263	.0410	-.0022	.1703	-.0049	-.0046	155.4	6.751

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**253.3**	**20.33**	**11.61**	**.6202**	**.0323**	**.0020**	**1.570**	**.0219**	**.0918**
Stddev	5.1	.47	.31	.0209	.0019	.0002	.034	.0019	.0022
%RSD	2.021	2.299	2.709	3.373	5.983	11.70	2.151	8.693	2.384
#1	248.7	19.84	11.30	.5962	.0304	.0018	1.532	.0206	.0896
#2	252.5	20.37	11.60	.6298	.0343	.0019	1.583	.0241	.0918
#3	258.8	20.77	11.93	.6346	.0323	.0022	1.596	.0210	.0940

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.007**	**.0088**	**.0617**	**.2949**	**.0016**	**.0735**	**4.303**
Stddev	.058	.0010	.0012	.0083	.0014	.0032	.091
%RSD	1.940	11.55	1.891	2.801	88.82	4.373	2.126
#1	2.951	.0095	.0606	.2854	.0025	.0722	4.200
#2	3.002	.0092	.0616	.2996	.0024	.0712	4.334
#3	3.068	.0076	.0629	.2997	-.0000	.0772	4.375

Zoom In Zoom Out

Sample Name: jc85533-5 Acquired: 4/3/2019 23:42:19 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**116460.**	**10765.**	**4802.6**	**9531.4**
Stddev	521.	23.	14.2	14.8
%RSD	.44779	.21532	.29604	.15530
#1	116130.	10771.	4793.8	9528.2
#2	117060.	10784.	4795.0	9518.4
#3	116190.	10739.	4819.0	9547.5

Zoom In Zoom Out

Sample Name: jc85533-6 Acquired: 4/3/2019 23:47:32 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7613**	**.0097**	**.0004**	**.1150**	**.2297**	**.2006**	**4.729**	**.1643**	**.0028**
Stddev	.0017	.0003	.0004	.0004	.0025	.0005	.012	.0009	.0006
%RSD	.2233	2.988	103.8	.3081	1.092	.2497	.2559	.5723	22.88
#1	.7603	.0101	.0009	.1154	.2269	.2006	4.715	.1645	.0021
#2	.7605	.0095	.0001	.1148	.2315	.2012	4.734	.1633	.0029
#3	.7633	.0096	.0002	.1147	.2308	.2002	4.737	.1651	.0034

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3561**	**.4182**	**.0617**	**.0006**	**.1487**	**.0007**	**-.0017**	**190.2**	**4.178**
Stddev	.0021	.0006	.0017	.0023	.0022	.0037	.0010	.2	.019
%RSD	.5843	.1412	2.807	392.8	1.487	521.1	60.61	.1037	.4490
#1	.3538	.4187	.0600	-.0002	.1499	-.0013	-.0023	190.3	4.157
#2	.3567	.4184	.0615	-.0012	.1461	-.0016	-.0022	189.9	4.182
#3	.3578	.4176	.0635	.0031	.1500	.0050	-.0005	190.2	4.194

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**281.4**	**21.72**	**13.08**	**.5558**	**.0354**	**.0049**	**1.562**	**.0234**	**.0740**
Stddev	.2	.12	.01	.0062	.0005	.0005	.006	.0008	.0007
%RSD	.0689	.5470	.0764	1.119	1.443	9.819	.3761	3.291	.9324
#1	281.5	21.59	13.07	.5628	.0351	.0054	1.568	.0242	.0732
#2	281.1	21.83	13.08	.5508	.0350	.0044	1.557	.0227	.0743
#3	281.4	21.75	13.08	.5539	.0360	.0048	1.561	.0233	.0745

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.905**	**.0096**	**.0899**	**.6163**	**-.0034**	**.0914**	**2.864**
Stddev	.015	.0005	.0004	.0023	.0018	.0019	.005
%RSD	.3080	4.807	.4470	.3804	54.16	2.068	.1675
#1	4.888	.0101	.0901	.6166	-.0044	.0904	2.858
#2	4.912	.0092	.0894	.6185	-.0013	.0901	2.866
#3	4.915	.0095	.0901	.6138	-.0045	.0935	2.867

Zoom In Zoom Out

Sample Name: jc85533-6 Acquired: 4/3/2019 23:47:32 Type: Unk
Method: SGS 3(v260) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113790.**	**10657.**	**4692.5**	**9519.2**
Stddev	197.	36.	7.7	12.7
%RSD	.17293	.34030	.16355	.13390
#1	114020.	10617.	4684.0	9508.3
#2	113660.	10666.	4694.4	9516.2
#3	113690.	10688.	4699.0	9533.3

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 23:52:46 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.973**	**1.944**	**1.978**	**1.912**	**1.945**	**1.915**	**1.981**	**1.970**	**.2407**
Stddev	.004	.004	.006	.006	.003	.003	.005	.006	.0001
%RSD	.1771	.2113	.3040	.2924	.1477	.1765	.2340	.2969	.0526
#1	1.970	1.941	1.983	1.917	1.948	1.918	1.984	1.974	.2406
#2	1.977	1.948	1.980	1.914	1.942	1.916	1.975	1.972	.2407
#3	1.972	1.942	1.972	1.906	1.945	1.912	1.982	1.963	.2409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.949**	**1.968**	**1.925**	**2.007**	**1.952**	**1.929**	**1.925**	**39.00**	**38.87**
Stddev	.002	.008	.010	.011	.008	.007	.008	.13	.12
%RSD	.0972	.4040	.5139	.5572	.3921	.3688	.4173	.3239	.3175
#1	1.950	1.973	1.934	2.016	1.958	1.936	1.934	38.95	38.80
#2	1.947	1.972	1.928	2.010	1.954	1.929	1.923	39.15	39.01
#3	1.950	1.959	1.914	1.995	1.943	1.922	1.918	38.91	38.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.01**	**38.81**	**38.48**	**38.76**	**1.951**	**1.966**	**4.865**	**1.988**	**1.978**
Stddev	.04	.08	.11	.13	.005	.007	.018	.010	.002
%RSD	.1152	.2054	.2765	.3373	.2689	.3736	.3691	.5190	.1145
#1	38.96	38.75	38.38	38.70	1.956	1.972	4.883	1.996	1.976
#2	39.05	38.77	38.59	38.91	1.952	1.969	4.865	1.991	1.980
#3	39.02	38.90	38.48	38.67	1.946	1.958	4.847	1.976	1.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 4/3/2019 23:52:46 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.973**	**1.949**	**1.958**	**1.914**	**1.921**	**1.915**	**1.959**
Stddev	.003	.005	.002	.010	.003	.005	.011
%RSD	.1695	.2399	.1136	.5048	.1310	.2645	.5777
#1	1.976	1.951	1.960	1.924	1.924	1.912	1.971
#2	1.969	1.951	1.956	1.911	1.919	1.921	1.957
#3	1.974	1.943	1.958	1.905	1.920	1.913	1.948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107330.**	**10038.**	**4436.9**	**9058.5**
Stddev	180.	25.	11.3	20.6
%RSD	.16727	.25227	.25364	.22775
#1	107230.	10055.	4428.5	9041.7
#2	107540.	10008.	4432.6	9052.3
#3	107220.	10049.	4449.7	9081.5

Zoom In Zoom Out

Sample Name: ccb Acquired: 4/3/2019 23:57:47 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	F **.0002**	**.0002**	**.0002**	**.0004**	**.0006**	**.0004**	**.0002**	**.0010**
Stddev	.0005	.0001	.0001	.0000	.0002	.0005	.0000	.0002	.0006
%RSD	144.9	56.55	44.71	13.59	60.94	70.26	12.55	133.1	60.49
#1	-.0002	.0001	.0002	.0002	.0006	.0005	.0003	.0001	.0010
#2	.0005	.0002	.0002	.0002	.0002	.0003	.0004	-.0000	.0004
#3	.0006	.0003	.0004	.0002	.0004	.0012	.0004	.0004	.0016
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**.0012**	**.0010**	**.0002**	**-.0005**	**-.0006**	**-.0005**	**.0055**
Stddev	.0001	.0000	.0000	.0008	.0011	.0004	.0006	.0078	.0013
%RSD	63.56	14.32	3.641	86.86	431.7	95.43	105.2	1634.	24.40
#1	.0002	-.0001	.0011	.0001	-.0003	-.0008	-.0002	-.0095	.0042
#2	.0001	-.0001	.0012	.0017	-.0004	.0000	-.0013	.0043	.0054
#3	.0004	-.0001	.0012	.0011	.0015	-.0005	-.0003	.0038	.0068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0105**	**.0059**	**.0139**	**.0216**	**.0000**	**.0003**	**.0003**	**-.0004**	**.0003**
Stddev	.0042	.0135	.0076	.0055	.0004	.0002	.0004	.0001	.0002
%RSD	40.42	227.6	54.82	25.54	1286.	83.12	114.5	26.39	59.40
#1	.0071	-.0068	.0076	.0194	-.0002	.0003	.0002	-.0003	.0001
#2	.0091	.0201	.0117	.0278	.0005	.0000	.0008	-.0005	.0004
#3	.0152	.0045	.0224	.0175	-.0002	.0005	.0000	-.0005	.0003
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In
Zoom Out

Sample Name: ccb Acquired: 4/3/2019 23:57:47 Type: QC
Method: SGS 3(v260) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0010**	**.0004**	**-.0012**	**-.0001**	**.0006**	**-.0063**
Stddev	.0001	.0004	.0000	.0012	.0006	.0016	.0008
%RSD	77.25	42.78	5.602	104.6	491.0	283.2	12.03
#1	.0000	.0011	.0004	-.0023	.0005	-.0012	-.0069
#2	.0001	.0013	.0004	-.0014	-.0002	.0020	-.0054
#3	.0001	.0005	.0004	.0001	-.0007	.0009	-.0065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**113680.**	**10138.**	**4606.5**	**10133.**
Stddev	67.	62.	2.3	14.
%RSD	.05919	.61309	.05034	.13623
#1	113660.	10070.	4607.2	10141.
#2	113630.	10155.	4608.4	10140.
#3	113760.	10190.	4603.9	10117.

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
	Ba 455.403 { 74}	☒	3	Mg	0.000001	0.000000	No
				Al	0.000002	0.000000	No
				Zr	0.000727	0.000000	No
	Be 313.042 {108}	☒	9	V	0.000161	0.000000	No
				Mo	-0.000030	0.000000	No
				Ti	-0.000643	0.000000	No
				Mn	-0.000018	0.000000	No
				Ni	0.000001	0.000000	No
				Ca	-0.000000	0.000000	No
				Cu	0.000014	0.000000	No
				Zn	-0.000010	0.000000	No
				Fe	-0.000002	0.000000	No
	Cd 228.802 {448}	☒	13	As	0.004268	0.000000	No
				Ni	-0.000800	0.000000	No
				Fe	-0.000006	0.000000	No
				V	0.000110	0.000000	No
				Ba	0.000054	0.000000	No
				Co	-0.000509	0.000000	No
				Ca	0.000000	0.000000	No
				Mn	0.000014	0.000000	No
				Cr	0.000007	0.000000	No
				Cu	0.000024	0.000000	No
				Al	0.000000	0.000000	No
				Mo	0.000004	0.000000	No
				W	0.000000	0.000000	No
	Co 228.616 {448}	☒	9	Fe	-0.000001	0.000000	No
				Cr	-0.000046	0.000000	No
				Mo	-0.001750	0.000000	No
				Ni	0.000084	0.000000	No
				Ti	0.002220	0.000000	No
				W	0.000160	0.000000	No
				Cd	-0.000188	0.000000	No
				Ca	0.000000	0.000000	No
				As	0.000150	0.000000	No
	Cr 267.716 {126}	☒	11	Mn	0.000474	0.000000	No
				Mo	0.000033	0.000000	No
				Fe	-0.000009	0.000000	No
				Cd	-0.000050	0.000000	No
				Al	-0.000000	0.000000	No
				Ca	0.000002	0.000000	No
				Mg	0.000001	0.000000	No
				Ti	0.000050	0.000000	No
				Ba	0.000013	0.000000	No
				Cu	0.000100	0.000000	No
				Sr	-0.000100	0.000000	No
	Cu 324.754 {104}2	☒	17	Cr	0.000000	0.000000	No
				V	-0.000408	0.000000	No
				Mo	0.000572	0.000000	No
				Ti	-0.000330	0.000000	No
				Fe	-0.000147	0.000000	No
				Al	0.000000	0.000000	No
				Sn	-0.000097	0.000000	No
				Co	-0.000980	0.000000	No
				Zr	-0.000500	0.000000	No
				Si	-0.000002	0.000000	No
				Mn	-0.000072	0.000000	No
				Se	0.000050	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Ag	0.000166	0.000000	No
				Sb	0.000024	0.000000	No
				Pb	0.000040	0.000000	No
				Be	-0.000031	0.000000	No
				W	0.000000	0.000000	No
	Mn 257.610 {131}	☒	6	Fe	-0.000074	0.000000	No
				Si	0.000044	0.000000	No
				Ba	0.000012	0.000000	No
				Ni	0.000028	0.000000	No
				Mo	0.000000	0.000000	No
				Cr	-0.000114	0.000000	No
	Ni 231.604 {446}	☒	11	Fe	0.000030	0.000000	No
				Zn	-0.000021	0.000000	No
				Be	-0.000112	0.000000	No
				Co	-0.000360	0.000000	No
				Tl	0.000209	0.000000	No
				V	-0.000032	0.000000	No
				Cu	0.000100	0.000000	No
				Cr	-0.000014	0.000000	No
				Si	-0.000030	0.000000	No
				Sn	0.000079	0.000000	No
				W	0.000830	0.000000	No
	Ag 328.068 {103}	☒	15	Mn	0.000291	0.000000	No
				Mo	-0.000154	0.000000	No
				Ti	-0.000913	0.000000	No
				Fe	-0.000285	0.000000	No
				V	-0.000862	0.000000	No
				Zn	0.000570	0.000000	No
				Ca	-0.000004	0.000000	No
				Al	-0.000002	0.000000	No
				Mg	-0.000000	0.000000	No
				Ba	-0.000189	0.000000	No
				Cr	-0.000038	0.000000	No
				Zr	0.005170	0.000000	No
				Sn	-0.000100	0.000000	No
				W	0.000000	0.000000	No
				K	-0.000080	0.000000	No
	V 292.402 {115}	☒	7	Ti	0.000776	0.000000	No
				Mo	-0.014700	0.000000	No
				Fe	0.000010	0.000000	No
				Sr	0.000000	0.000000	No
				Cr	-0.003290	0.000000	No
				Mn	-0.003790	0.000000	No
				W	0.000050	0.000000	No
	Zn 206.200 {464}	☒	15	Cr	-0.000874	0.000000	No
				Mo	-0.000228	0.000000	No
				Fe	0.000010	0.000000	No
				Al	0.000000	0.000000	No
				Si	0.000065	0.000000	No
				Ba	-0.000060	0.000000	No
				Ca	0.000004	0.000000	No
				Sr	0.000017	0.000000	No
				Sn	0.000069	0.000000	No
				Cu	0.000056	0.000000	No
				As	-0.000050	0.000000	No
				Be	0.000071	0.000000	No
				Bi	-0.000400	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				W	0.000000	0.000000	No
				Ti	0.000030	0.000000	No
	As 189.042 {478}	☒	23	Al	0.000002	0.000000	No
				Fe	-0.000048	0.000000	No
				Ca	0.000001	0.000000	No
				Mn	-0.000010	0.000000	No
				Mo	0.002800	0.000000	No
				Cr	0.000646	0.000000	No
				V	0.000052	0.000000	No
				Co	-0.000029	0.000000	No
				W	0.010000	0.000000	No
				Sn	-0.000123	0.000000	No
				Cd	-0.000194	0.000000	No
				Tl	0.000385	0.000000	No
				Be	-0.000017	0.000000	No
				Mg	0.000002	0.000000	No
				Si	0.000007	0.000000	No
				Zn	0.000070	0.000000	No
				Sr	-0.000080	0.000000	No
				Zr	0.000074	0.000000	No
				Ti	-0.000001	0.000000	No
				Cu	0.000077	0.000000	No
				K	0.000000	0.000000	No
				B	-0.000030	0.000000	No
				S	0.000005	0.000000	No
	Tl 190.856 {477}	☒	24	Cr	0.000289	0.000000	No
				Mo	-0.001800	0.000000	No
				Al	-0.000004	0.000000	No
				Fe	-0.000052	0.000000	No
				V	-0.020300	0.000000	No
				Mn	0.001620	0.000000	No
				Si	-0.000016	0.000000	No
				Ca	-0.000003	0.000000	No
				Ti	-0.002900	0.000000	No
				Mg	-0.000000	0.000000	No
				Co	0.004745	0.000000	No
				Sr	-0.000222	0.000000	No
				B	0.000120	0.000000	No
				Ba	0.000110	0.000000	No
				Zn	0.000025	0.000000	No
				As	0.000015	0.000000	No
				Ni	0.000051	0.000000	No
				Cu	-0.000032	0.000000	No
				W	0.010000	0.000000	No
				Sn	-0.000080	0.000000	No
				Se	0.000040	0.000000	No
				S	0.000010	0.000000	No
				K	0.000000	0.000000	No
				P	0.000000	0.000000	No
	Pb 220.353 {453}	☒	23	Al	-0.000146	0.000000	No
				Fe	0.000044	0.000000	No
				Ca	-0.000004	0.000000	No
				Mn	0.000145	0.000000	No
				Zn	-0.000036	0.000000	No
				Mo	-0.000670	0.000000	No
				Cu	0.000410	0.000000	No
				V	0.000013	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Co	0.000116	0.000000	No
			Ti	-0.000040	0.000000	No
			Si	0.000016	0.000000	No
			Ba	-0.000012	0.000000	No
			Sb	0.000006	0.000000	No
			Sr	-0.000050	0.000000	No
			W	0.000000	0.000000	No
			Mg	0.000003	0.000000	No
			Cd	0.000476	0.000000	No
			Zr	-0.000300	0.000000	No
			Ni	0.000320	0.000000	No
			S	-0.000010	0.000000	No
			Se	0.000036	0.000000	No
			As	0.000200	0.000000	No
			Cr	-0.000150	0.000000	No
Se 196.090 {472}	☒	22	Al	0.000001	0.000000	No
			Ca	0.000001	0.000000	No
			Mn	0.000651	0.000000	No
			Mo	0.000277	0.000000	No
			Fe	-0.000159	0.000000	No
			Co	-0.000029	0.000000	No
			V	0.000207	0.000000	No
			Sr	-0.000008	0.000000	No
			Cu	-0.000113	0.000000	No
			W	0.000000	0.000000	No
			Si	0.000157	0.000000	No
			Tl	0.000180	0.000000	No
			Be	-0.000143	0.000000	No
			Zn	-0.000250	0.000000	No
			B	-0.000141	0.000000	No
			Ti	0.000016	0.000000	No
			Cd	0.000090	0.000000	No
			Zr	-0.000280	0.000000	No
			Ba	0.000180	0.000000	No
			Mg	-0.000002	0.000000	No
			Cr	-0.000039	0.000000	No
			S	-0.000003	0.000000	No
Sb 206.833 {463}	☒	14	Fe	0.000016	0.000000	No
			Al	-0.000017	0.000000	No
			Ca	-0.000006	0.000000	No
			Ni	-0.001077	0.000000	No
			Cr	0.022770	0.000000	No
			V	-0.001980	0.000000	No
			Zn	-0.000200	0.000000	No
			Mo	-0.001500	0.000000	No
			Ti	0.001200	0.000000	No
			Sn	-0.015400	0.000000	No
			Mg	-0.000000	0.000000	No
			Zr	-0.000227	0.000000	No
			Sr	0.000209	0.000000	No
			W	0.000000	0.000000	No
Al 396.152 { 85}	☒	5	Si	0.000913	0.000000	No
			Ca	0.000078	0.000000	No
			Mo	0.046534	0.000000	No
			Zr	-0.006000	0.000000	No
			Ti	-0.000017	0.000000	No
Ca 317.933 {106}	☒	13	Fe	0.000130	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			W	0.003960	0.000000	No
			Tl	0.004950	0.000000	No
			Be	0.001840	0.000000	No
			Ba	0.003500	0.000000	No
			Cu	-0.001800	0.000000	No
			Cd	0.003700	0.000000	No
			Ni	0.001513	0.000000	No
			B	-0.000210	0.000000	No
			Se	0.002000	0.000000	No
			Co	0.000540	0.000000	No
			Cr	0.000640	0.000000	No
			Al	0.000026	0.000000	No
Fe 259.940 {130}	☒	13	Co	0.000004	0.000000	No
			Si	-0.000100	0.000000	No
			Tl	-0.002590	0.000000	No
			Se	-0.000050	0.000000	No
			Cr	-0.000566	0.000000	No
			Mn	-0.001433	0.000000	No
			V	-0.000064	0.000000	No
			Cu	0.000953	0.000000	No
			K	-0.000200	0.000000	No
			Zn	0.000046	0.000000	No
			Ti	-0.000631	0.000000	No
			Ca	0.000020	0.000000	No
			Ba	0.001000	0.000000	No
Mg 279.079 {121}	☒	1	Mo	-0.020780	0.000000	No
K 766.490 { 44}	☒	11	Fe	-0.000340	0.000000	No
			Al	0.000301	0.000000	No
			Ca	0.000448	0.000000	No
			Mn	0.001430	0.000000	No
			Si	-0.003000	0.000000	No
			V	-0.002000	0.000000	No
			Sn	-0.004700	0.000000	No
			Na	0.000300	0.000000	No
			Mo	-0.000850	0.000000	No
			Cu	-0.010000	0.000000	No
			Mg	0.000400	0.000000	No
Na 589.592 { 57}	☒	5	K	0.000038	0.000000	No
			Ba	0.000900	0.000000	No
			Ca	0.000055	0.000000	No
			Al	0.000040	0.000000	No
			V	-0.005000	0.000000	No
B 208.959 {462}	☒	1	Mo	0.037210	0.000000	No
Mo 202.030 {467}	☒	5	Fe	-0.000010	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	0.000003	0.000000	No
			W	0.000000	0.000000	No
			V	-0.000230	0.000000	No
Si 212.412 {459}	☒	14	Sr	0.000366	0.000000	No
			Ni	0.000106	0.000000	No
			Mo	0.028950	0.000000	No
			Ti	0.006320	0.000000	No
			Al	0.000012	0.000000	No
			Cd	0.001043	0.000000	No
			Ba	0.000170	0.000000	No
			Fe	0.000040	0.000000	No
			Sn	0.002213	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Zn	0.000385	0.000000	No
				As	-0.000560	0.000000	No
				Pb	0.000471	0.000000	No
				V	0.006165	0.000000	No
				W	-0.025000	0.000000	No
	Sn 189.989 {478}	☒	6	Ti	-0.000621	0.000000	No
				Mo	0.000011	0.000000	No
				Fe	0.000005	0.000000	No
				Mn	0.000060	0.000000	No
				Si	0.000089	0.000000	No
				W	-0.010000	0.000000	No
	Sr 407.771 { 83}	☒	2	Fe	0.000002	0.000000	No
				Ca	0.000023	0.000000	No
	Ti 334.904 {101}	☒	4	Cr	-0.000084	0.000000	No
				Mo	0.001569	0.000000	No
				Si	0.000035	0.000000	No
				Ca	-0.000003	0.000000	No
	Y 360.073 { 94}*	☒	None				
	Y 371.030 { 91}*	☒	None				
	Y 224.306 {451}*	☒	None				
	In 230.606 {446}*	☒	None				
	W 207.911 {462}	☒	25	Al	0.000002	0.000000	No
				Si	-0.000900	0.000000	No
				Fe	-0.000007	0.000000	No
				As	-0.000200	0.000000	No
				Mg	-0.000006	0.000000	No
				Mn	-0.000110	0.000000	No
				Mo	-0.000300	0.000000	No
				Ti	0.000080	0.000000	No
				Sr	-0.000850	0.000000	No
				V	-0.000140	0.000000	No
				Cd	-0.000650	0.000000	No
				Cr	-0.000390	0.000000	No
				Zn	0.012200	0.000000	No
				Sn	0.000078	0.000000	No
				Zr	0.000230	0.000000	No
				B	-0.001000	0.000000	No
				Sb	-0.003000	0.000000	No
				Co	0.000041	0.000000	No
				Ni	-0.000263	0.000000	No
				Be	-0.000130	0.000000	No
				Se	-0.000080	0.000000	No
				Cu	-0.000118	0.000000	No
				Ba	-0.000090	0.000000	No
				Tl	-0.000110	0.000000	No
				Ag	0.000224	0.000000	No
	Zr 339.198 { 99}	☒	9	Mo	0.000323	0.000000	No
				Ti	-0.000010	0.000000	No
				Fe	-0.000060	0.000000	No
				Si	0.000070	0.000000	No
				Bi	0.000295	0.000000	No
				Cr	-0.000900	0.000000	No
				V	0.000200	0.000000	No
				W	0.019000	0.000000	No
				Sn	-0.000400	0.000000	No
	S 182.034 {485}	☒	11	Ca	0.000001	0.000000	No
				Mo	-0.000040	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Al	-0.000110	0.000000	No
				Fe	-0.000023	0.000000	No
				Mn	0.003900	0.000000	No
				W	0.000000	0.000000	No
				Zn	-0.001538	0.000000	No
				Cr	-0.000200	0.000000	No
				Mg	0.000015	0.000000	No
				Ti	0.000300	0.000000	No
				Li	0.000200	0.000000	No
	Bi 223.061 {451}	☒	9	V	-0.000680	0.000000	No
				Co	-0.002200	0.000000	No
				Ca	-0.000005	0.000000	No
				Mg	-0.000002	0.000000	No
				W	0.000000	0.000000	No
				Cu	-0.001186	0.000000	No
				Fe	0.000097	0.000000	No
				Cr	0.001500	0.000000	No
				Ti	-0.004530	0.000000	No
	Li 670.784 { 50}	☒	1	Ca	0.000051	0.000000	No
	P 177.495 {490}	☒	2	Mn	-0.005600	0.000000	No
				Ca	0.000034	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ba 455.403 { 74}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.005636	1.758316	0.000000	1.000000
	Be 313.042 {108}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000250	1.418032	0.000000	1.000000
	Cd 228.802 {448}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000132	0.888765	0.000000	1.000000
	Co 228.616 {448}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000242	0.512023	0.000000	1.000000
	Cr 267.716 {126}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000005	0.056541	0.000000	1.000000
	Cu 324.754 {104}2	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.002039	0.179764	0.000000	1.000000
	Mn 257.610 {131}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000040	0.304507	0.000000	1.000000
	Ni 231.604 {446}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000153	0.371794	0.000000	1.000000
	Ag 328.068 {103}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000437	0.097755	0.000000	1.000000
	V 292.402 {115}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000006	0.097860	0.000000	1.000000
	Zn 206.200 {464}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000697	1.321125	0.000000	1.000000
	As 189.042 {478}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000185	0.127109	0.000000	1.000000
	Tl 190.856 {477}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000166	0.064396	0.000000	1.000000
	Pb 220.353 {453}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000353	0.185279	0.000000	1.000000
	Se 196.090 {472}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000199	0.102201	0.000000	1.000000
	Sb 206.833 {463}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000500	0.177417	0.000000	1.000000
	Al 396.152 { 85}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.001421	0.034567	0.000000	1.000000
	Ca 317.933 {106}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.005086	0.047623	0.000000	1.000000
	Fe 259.940 {130}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000073	0.015768	0.000000	1.000000
	Mg 279.079 {121}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000027	0.003201	0.000000	1.000000
	K 766.490 { 44}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.004826	0.030757	0.000000	1.000000
	Na 589.592 { 57}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000614	0.094423	0.000000	1.000000
	B 208.959 {462}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000428	0.212617	0.000000	1.000000
	Mo 202.030 {467}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000060	0.924275	0.000000	1.000000
	Si 212.412 {459}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.002802	0.234995	0.000000	1.000000
	Sn 189.989 {478}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000227	0.220010	0.000000	1.000000
	Sr 407.771 { 83}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.000803	3.204967	0.000000	1.000000
	Ti 334.904 {101}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000040	0.124211	0.000000	1.000000
	Y 360.073 { 94}*	4/4/2019 8:41:16	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	4/4/2019 8:41:16	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 224.306 {451}*	4/4/2019 8:41:16	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	In 230.606 {446}*	4/4/2019 8:41:16	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	W 207.911 {462}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.001398	0.460305	0.000000	1.000000
	Zr 339.198 { 99}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000169	0.313237	0.000000	1.000000
	S 182.034 {485}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.001337	0.056556	0.000000	1.000000
	Bi 223.061 {451}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.000710	0.218626	0.000000	1.000000
	Li 670.784 { 50}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	0.001169	0.678604	0.000000	1.000000
	P 177.495 {490}	4/4/2019 8:41:16	4/3/2019 10:12:49	Linear	1/Conc	-0.007957	0.135556	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ba 455.403 { 74}	1.000000	0.000000	0.000267	0.000890	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	1.000000	0.000000	0.000113	0.000375	OK.	1.000000	0.000000	1	0
	Cd 228.802 {448}	1.000000	0.000000	0.000208	0.000694	OK.	1.000000	0.000000	1	0
	Co 228.616 {448}	1.000000	0.000000	0.000266	0.000888	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	1.000000	0.000000	0.000464	0.001547	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}2	1.000000	0.000000	0.000407	0.001355	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	1.000000	0.000000	0.000074	0.000248	OK.	1.000000	0.000000	1	0
	Ni 231.604 {446}	1.000000	0.000000	0.000319	0.001063	OK.	1.000000	0.000000	1	0
	Ag 328.068 {103}	1.000000	0.000000	0.000492	0.001640	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	1.000000	0.000000	0.000379	0.001265	OK.	1.000000	0.000000	1	0
	Zn 206.200 {464}	1.000000	0.000000	0.000130	0.000434	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	1.000000	0.000000	0.001085	0.003616	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	1.000000	0.000000	0.001102	0.003674	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	1.000000	0.000000	0.000976	0.003252	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	1.000000	0.000000	0.001808	0.006028	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	1.000000	0.000000	0.001325	0.004415	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	1.000000	0.000000	0.012545	0.041816	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	1.000000	0.000000	0.004105	0.013683	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	1.000000	0.000000	0.005309	0.017698	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	1.000000	0.000000	0.034392	0.114639	OK.	1.000000	0.000000	1	0
	K 766.490 { 44}	1.000000	0.000000	0.032358	0.107859	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	1.000000	0.000000	0.009655	0.032184	OK.	1.000000	0.000000	1	0
	B 208.959 {462}	1.000000	0.000000	0.000711	0.002370	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	1.000000	0.000000	0.000220	0.000732	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	1.000000	0.000000	0.000968	0.003225	OK.	1.000000	0.000000	1	0
	Sn 189.989 {478}	1.000000	0.000000	0.000603	0.002009	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	1.000000	0.000000	0.000112	0.000373	OK.	1.000000	0.000000	1	0
	Ti 334.904 {101}	1.000000	0.000000	0.000373	0.001242	OK.	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 224.306 {451}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	W 207.911 {462}	1.000000	0.000000	0.000881	0.002936	OK.	1.000000	0.000000	1	0
	Zr 339.198 { 99}	1.000000	0.000000	0.000195	0.000650	OK.	1.000000	0.000000	1	0
	S 182.034 {485}	1.000000	0.000000	0.002581	0.008602	OK.	1.000000	0.000000	1	0
	Bi 223.061 {451}	1.000000	0.000000	0.001393	0.004642	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	1.000000	0.000000	0.001461	0.004870	OK.	1.000000	0.000000	1	0
	P 177.495 {490}	1.000000	0.000000	0.001170	0.003899	OK.	1.000000	0.000000	1	0

SGS

Mercury Hot Block Digestion Log

Product **HG / HGTCLP**
Matrix: Aq / Liq / DW

Methods (Circle as appropriate)
EPA 245.1 **SW846 7470A**
Required corrected Temp. Range is 90-95 C.

MA Batch #: MA46407
Analyst: CH/EAL
Date: 4/2/2019
Balance ID: N/A
Reagents: See attached sheet
Auto pipet ID: M72

Hot Block # 7 Start Time: 6:30 End Time: 8:30 Tube # 1-23 .
Start Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236 .
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236 .
Hot Block # 8 Start Time: 6:30 End Time: 8:30 Tube # 24-47
Start Temp: 96 Corrected Start Temp: 94 Correction: -2 Thermometer ID: 3106989 .
End Temp: 97 Corrected Start Temp: 95 Correction: -2 Thermometer ID: 3106989 .

Bot #	Sample ID	pH <2 Y/N	Initial Sample Vol ml	Final Samp Vol ml	Spiked Used Amount Spiked	Spiked Used Added- Y or N	Spikelot and Conc (mg/L)	MP Number	Comments/Lot # and Vendor
1	MP13750-MB1	N	30	30				MP13750	
2	MP13750-B1	N	30	30	2.0 ml	Y	0.03		HG-19-145-144-HGA3, IN. V.
3	MP13750-S1	Y	30	30	2.0 ml	Y	0.03		JC85339-1F, HG-19-145-144-HGA3, I. V.
4	MP13750-S2	Y	30	30	2.0 ml	Y	0.03		JC85339-1F, HG-19-145-144-HGA3, I. V.
5	JC85339-1F	Y	30	30					
6	JC85339-2F	Y	30	30					
7	JC85339-3F	Y	30	30					
8	JC85339-4F	Y	30	30					
9	JC85339-5F	Y	30	30					
10	JC85339-6F	Y	30	30					
11	JC85339-7F	Y	30	30					YELLOW
12	JC85339-8F	Y	30	30					
13	JC85339-9F	Y	30	30					
14	JC85339-10F	Y	30	30					
15	JC85409-11	Y	30	30					
16	JC85409-11F	Y	30	30					
17	JC85431-1	Y	30	30					
18	JC85431-1F	Y	30	30					
19	JC85431-2	Y	30	30					WFB
20	JC85431-2F	Y	30	30					WFBF
21	JC85498-1Q	Y	30	30					
22	JC85499-1Q	Y	30	30					
23	JC85500-1Q	Y	30	30					
24	MP13773-MB1	N	30	30				MP13773	
25	MP13773-B1	N	30	30	2.0 ml	Y	0.03		HG-19-145-144-HGA3, IN. V.
26	MP13773-S1	Y	30	30	2.0 ml	Y	0.03		JC85326-1, HG-19-145-144-HGA3, IN. V.
27	MP13773-S2	Y	30	30	2.0 ml	Y	0.03		JC85326-1, HG-19-145-144-HGA3, IN. V.
28	JC85326-1	Y	30	30					
29	JC85326-1F	Y	30	30					
30	JC85326-2	Y	30	30					
31	JC85326-2F	Y	30	30					
32	JC85326-3	Y	30	30					
33	JC85326-3F	Y	30	30					
34	JC85326-4	Y	30	30					
35	JC85326-4F	Y	30	30					

ANALYST: EAL
Spike witness: CH
QC: REVIEWER:

DATE: 4/2/19
DATE: 4/2/19
DATE: 4/2/19

DAYT-MET-0113-01-FORM-HGWATERPREP
Revision Date: 8/28/18

SGS

Mercury Hot Block Digestion Log

Product **HG / HGTCLP**
Matrix: Aq / Liq / DW

Methods (Circle as appropriate)
EPA 245.1 **SW846 7470A**
Required corrected Temp. Range is 90-95 C.

MA Batch #: MA46407
Analyst: CH/EAL
Date: 4/2/2019
Balance ID: N/A
Reagents: See attached sheet
Auto pipet ID: M72

Hot Block # 7 Start Time: 6:30 End Time: 8:30 Tube # 1-23
Start Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236
Hot Block # 8 Start Time: 6:30 End Time: 8:30 Tube # 24-47
Start Temp: 96 Corrected Start Temp: 94 Correction: -2 Thermometer ID: 3106989
End Temp: 97 Corrected Start Temp: 95 Correction: -2 Thermometer ID: 3106989

Bot #	Sample ID	pH <2 Y/N	Initial Sample Vol ml	Final Samp Vol ml	Spiked Used Amount Spiked	Spiked Used Added- Y or N	Spikelot and Conc (mg/L)	MP Number	Comments/Lot # and Vendor
36	JC85326-5	Y	30	30					
37	JC85326-5F	Y	30	30					
38	JC85326-6	Y	30	30					
39	JC85326-6F	Y	30	30					
40	JC85326-7	Y	30	30					
41	JC85326-7F	Y	30	30					
42	JC85326-8	Y	30	30					
43	JC85326-8F	Y	30	30					
44	JC85326-9	Y	30	30					
45	JC85326-9F	Y	30	30					
46	JC85326-11	Y	30	30					
47	JC85326-11F	Y	30	30					
48	MP13774-MB1	N	30	30				MP13774	
49	MP13774-B1	N	30	30	2.0 ml	Y	0.03		HG-19-145-144-HGA3, IN. V.
50	MP13774-S1	Y	30	30	2.0 ml	Y	0.03		JC85487-1F, HG-19-145-144-HGA3, I. V.
51	MP13774-S2	Y	30	30	2.0 ml	Y	0.03		JC85487-1F, HG-19-145-144-HGA3, I. V.
52	JC85487-1F	Y	30	30					
53	JC85487-1	Y	30	30					
54	JC85487-2	Y	30	30					
55	JC85487-2F	Y	30	30					
56	JC85487-3	Y	30	30					
57	JC85487-3F	Y	30	30					
58	JC85487-4	Y	30	30					
59	JC85487-4F	Y	30	30					
60	JC85487-5	Y	30	30					
61	JC85487-5F	Y	30	30					
62	JC85487-6	Y	30	30					
63	JC85487-6F	Y	30	30					
64	JC85487-7	Y	30	30					
65	JC85487-7F	Y	30	30					
66	JC85487-8	Y	30	30					
67	JC85487-8F	Y	30	30					
68	JC85487-9	Y	30	30					
69	JC85487-9F	Y	30	30					
70	JC85374-1	Y	30	30					

ANALYST: EAL DATE: 4/2/19
Spike witness: CH DATE: 4/2/19
QC: REVIEWER: DATE:

DAYT-MET-0113-01-FORM-HGWATERPREP
Revision Date: 8/28/18

SGS

Mercury Hot Block Digestion Log

Product **HG / HGTCLP**
Matrix: Aq / Liq / DW

Methods (Circle as appropriate)
EPA 245.1 **SW846 7470A**
Required corrected Temp. Range is 90-95 C.

MA Batch #: MA46407
Analyst: CH/EAL
Date: 4/2/2019
Balance ID: N/A
Reagents: See attached sheet
Auto pipet ID: M72

Hot Block # 8 Start Time: 8:30 End Time: 10:30 Tube # 48-95
Start Temp: 96 Corrected Start Temp: 94 Correction: -2 Thermometer ID: 3106989 .
End Temp: 97 Corrected Start Temp: 95 Correction: -2 Thermometer ID: 3106989 .
Hot Block # 7 Start Time: 9:00 End Time: 11:00 Tube # 96-109
Start Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236 .
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236 .

Bot #	Sample ID	pH <2 Y/N	Initial Sample Vol ml	Final Samp Vol ml	Spiked Used Amount Spiked	Spiked Used Added-Y or N	Spikelot and Conc (mg/L)	MP Number	Comments/Lot # and Vendor
71	JC85494-6	Y	30	30					
72	MP13776-MB1	N	30	30				MP13776	
73	MP13776-B1	N	30	30	2.0 ml	Y	0.03		HG-19-145-144-HGA3, IN. V.
74	MP13776-S1	Y	30	30	2.0 ml	Y	0.03		JC85409-1F, HG-19-145-144-HGA3, I. V.
75	MP13776-S2	Y	30	30	2.0 ml	Y	0.03		JC85409-1F, HG-19-145-144-HGA3, I. V.
76	JC85409-1F	Y	30	30					
77	JC85409-1	Y	30	30					SEDIMENT
78	JC85409-2	Y	30	30					SEDIMENT
79	JC85409-2F	Y	30	30					
80	JC85409-3	Y	30	30					SEDIMENT
81	JC85409-3F	Y	30	30					
82	JC85409-4	Y	30	30					
83	JC85409-4F	Y	30	30					
84	JC85409-5	Y	30	30					SEDIMENT
85	JC85409-5F	Y	30	30					
86	JC85409-6	Y	30	30					
87	JC85409-6F	Y	30	30					
88	JC85409-7	Y	30	30					
89	JC85409-7F	Y	30	30					
90	JC85409-8	Y	30	30					
91	JC85409-8F	Y	30	30					
92	JC85409-9	Y	30	30					SEDIMENT
93	JC85409-9F	Y	30	30					
94	JC85409-10	Y	30	30					
95	JC85409-10F	Y	30	30					
96	MP13777-MB1	N	30	30				MP13777	
97	MP13777-B1	N	30	30	2.0 ml	Y	0.03		HG-19-145-144-HGA3, IN. V.
98	MP13777-S1	Y	30	30	2.0 ml	Y	0.03		JC85367-1F, HG-19-145-144-HGA3, I. V.
99	MP13777-S2	Y	30	30	2.0 ml	Y	0.03		JC85367-1F, HG-19-145-144-HGA3, I. V.
100	JC85367-1F	Y	30	30					
101	JC85367-2F	Y	30	30					
102	JC85367-3F	Y	30	30					
103	JC85367-4F	Y	30	30					
104	JC85445-1F	Y	30	30					
105	JC85445-2F	Y	30	30					

ANALYST: EAL DATE: 4/2/19
Spike witness: CH DATE: 4/2/19
QC: REVIEWER: DATE:

DAYT-MET-0113-01-FORM-HGWATERPREP
Revision Date: 8/28/18

SGS

Mercury Hot Block Digestion Log

Product **HG / HGTCLP**
Matrix: Aq / Liq / DW

Methods (Circle as appropriate)
EPA 245.1 **SW846 7470A**
Required corrected Temp. Range is 90-95 C.

MA Batch #: MA46407
Analyst: CH/EAL
Date: 4/2/2019
Balance ID: N/A
Reagents: See attached sheet
Auto pipet ID: M72

Hot Block # 8 Start Time: 8:30 End Time: 10:30 Tube # 48-95
Start Temp: 96 Corrected Start Temp: 94 Correction: -2 Thermometer ID: 3106989
End Temp: 97 Corrected Start Temp: 95 Correction: -2 Thermometer ID: 3106989
Hot Block # 7 Start Time: 9:00 End Time: 11:00 Tube # 95-109
Start Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236
End Temp: 94 Corrected Start Temp: 93 Correction: -1 Thermometer ID: 6805236

Bot #	Sample ID	pH <2 Y/N	Initial Sample Vol ml	Final Samp Vol ml	Spiked Used		Spikelot and Conc (mg/L)	MP Number	Comments/Lot # and Vendor
					Amount Spiked	Added- Y or N			
106	JC85445-3F	Y	30	30					
107	JC85493-6A	Y	30	30					
108	JC85357-1	Y	30	30					
109	JC85357-2	Y	30	30					
110									
111									
112									
113									
114									
115									
116									
117									
118									
119									
120									
121									
122									
123									
124									
125									
126									
127									
128									
129									
130									
131									
132									
133									
134									
135									
136									
137									
138									
139									
140									

ANALYST: EAL
Spike witness: CH
QC: REVIEWER:

DATE: 4/2/19
DATE: 4/2/19
DATE:

DAYT-MET-0113-01-FORM-HGWATERPREP
Revision Date: 8/28/18

7.4.1

7

SGS

Mercury Hot Block Digestion Log

Product HG / EHG / HGTCLP
Matrix: Aq / Liq / DW

MA Batch #: MA46407
Analyst: CH/EAL
Date: 4/2/2019
Balance ID: B-24
Reagents: See attached sheet
Auto pipet ID M-72

Methods (Circle as appropriate)
EPA 245.1 **SW846 7470A**

Required corrected Temp. Range is 90-95 C.
Hot Block # 8 Start Time: 6:30 End Time: 8:30 Tube # S1-CRI

Start Temp: 96 Corrected Start Temp: 94 Correction: -2 Thermometer ID: 3106989
End Temp: 97 Corrected Start Temp: 95 Correction: -2 Thermometer ID: 3106989

Bot #	Sample ID	pH <2 Y/N	Initial Sample Vol ml	Final Samp Vol ml	Spiked Used Amount Spiked	Spiked Used Added-Y or N	Spikelot and Conc (mg/L)	MP Number	Comments/Lot # and Vendor
S-1	Calibration Blank	N	30 ml	30 ml	0.0 ml	N			
S-2	0.2 ug/l Standard	N	30 ml	30 ml	2.0 ml	Y	0.003		HG-19-145-145-HGA4, IN. V.
S-3	0.5 ug/l Standard	N	30 ml	30 ml	5.0 ml	Y	0.003		HG-19-145-145-HGA4, IN. V.
S-4	1.0 ug/l Standard	N	30 ml	30 ml	1.0 ml	Y	0.030		HG-19-145-144-HGA3, IN. V.
S-5	2.5 ug/l Standard	N	30 ml	30 ml	2.5 ml	Y	0.030		HG-19-145-144-HGA3, IN. V.
S-6	5.0 ug/l Standard	N	30 ml	30 ml	5.0 ml	Y	0.030		HG-19-145-144-HGA3, IN. V.
ICV	ICV (External)	N	30 ml	30 ml	3.0 ml	Y	0.03		HG-19-145-146-HGB3, ULTRA
ICB	ICB	N	30 ml	30 ml	0.0 ml	N			
CCV	CCV	N	30 ml	30 ml	2.5 ml	Y	0.03		HG-19-145-144-HGA3, IN. V.
CCB	CCB	N	30 ml	30 ml	0.0 ml	N			
CRI	CRI	N	30 ml	30 ml	2.0 ml	Y	0.003		HG-19-145-145-HGA4, IN. V.

Form HG022-03
Revision Date: 8/24/15

ANALYST: EAL
QC: REVIEWER:

DATE: 4/2/19
DATE:

SGS

Reagent Information Log- Hg Waters

MA # 46407

Reagents	Exp. Date	Reagent # or manufacturer lot #
Conc. Sulfuric Acid	3/20/2024	Fisher -188014
Conc. Nitric Acid	2/27/2021	Baker - 205793
Sodium Chloride-Hydroxylamine Hydrochloride	10/2/2019	HG-19-144-. 257 -HGHCL
Potassium Permanganate 5%	10/2/2019	HG-19-144-. 255 -HGKM2
Potassium Persulfate	10/2/2019	HG-19-144-. 256 -HGKS
Stannous Chloride	4/3/2019	HG-18-140 147 -HGS
STD Hg standard solution 1000 ppm	3/1/2020	Inorganic Ventures K2-HG669550
STD Hg standard solu tion 30 ppb	4/3/2019	HG-19-145- 144 -HGA3
STD Hg standard solu tion 3ppb	4/3/2019	HG-19-145- 145 -HGA4
ICV Hg standard solution 1000 ppm	6/30/2021	Ultra T00601
ICV Hg standard solution 30ppb	4/3/2019	HG-19-145- 146 -HGB3
Dilution Acid	9/4/2019	HG-19-145- 239 HGD2
Digestion Tubes Lot	N/A	Environmental Express 1808354
ph Paper	N/A	Hydrion: 206717

Form:GN087A79-03
Rev. Date: 6/6/17

SGS North America Inc.

Accutest Aqueous Metals Digestion Form

Batch Information

Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2
MP13758	4/2/2019	9:00	4/2/2019	14:30	JC85367-1F	

Temperature

		Block ID1	Therm. ID#	Temperature	Correction	Corrected Temp
1	Start	8	4156601	94	0	94
1	End	8	4156601	95	0	95
2	Start					
2	End					

Methods and Equipment

	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #	
	SW846 3010A	Digestion Block		M-74	1812117	

Sample ID	Bottle Number	Pres (Y/N)	Initial Sample Volume	Final Volume in ML	Reagent Groups Added	Spike Groups Added	Comments
MP13758-MB1	N/A	N	50	50	AB		
MP13758-B1	N/A	N	50	50	AB	ABCD	
MP13758-S1	1	Y	50	50	AB	ABCD	
MP13758-S2	1	Y	50	50	AB	ABCD	
MP13758-SD1	1	Y	50	50	AB		
JC85367-1F	1	Y	50	50	AB		
JC85367-2F	1	Y	50	50	AB		
JC85367-3F	1	Y	50	50	AB		
JC85367-4F	1	Y	50	50	AB		
JC85391-1	1	Y	50	50	AB		
JC85391-1F	2	Y	50	50	AB		
JC85391-2	1	Y	50	50	AB		
JC85391-2F	2	Y	50	50	AB		
JC85408-1	1	Y	50	50	AB		
JC85408-2	1	Y	50	50	AB		
JC85446-1	5	Y	50	50	AB		
JC85455-12F	5	Y	50	50	AB		
JC85455-14F	5	Y	50	50	AB		
JC85455-2F	5	Y	50	50	AB		
JC85455-4F	5	Y	50	50	AB		
JC85455-6F	5	Y	50	50	AB		
JC85514-4conf	1	Y	50	50	AB		
JC85514-6conf	1	Y	50	50	AB		
JC85528-15	1	Y	50	50	AB		

Reagents Groups

Group	Description	MLs Used
A	CONC HNO3	3
B	1:1 HCL	5
C		
D		
E		
F		
G		
H		

Spike Groups

Group	Description	MLs Used
A	ACCUTEST 13A REV-1	0.5
B	ACCUTEST 14A REV-1	0.5
C	AG 20PPM	0.625
D	MINERALS 5000PPM	0.25
E		
F	MINERALS 5000PPM	0.25
G		
H		

Comments:

Analyst BHOOMAP **Approved by** Wendyz **Approved on** 4/2/2019

Note: Reagent traceability for batch Start Date can be seen on the reagent traceability page for this batch.
Serial Dilution samples shown for QC purposes only.
Acceptable Temperature range is 90-95 degrees C unless otherwise noted

SGS

Metals Digestion Reagents Information Log

Digestion Batch ID: MP 13758 **Date:** 4/2/19

Matrix: ALL

Standard/Reagent Type	Exp. Date	Standard/Reagent ID
Spiking Solution - (ACCUTEST-13A REV1)	9/18/2019	MP-015-1146
Spiking Solution - (ACCUTEST-14A REV1)	9/18/2019	MP-015-1145
Spiking Solution - 5000 mg/l Minerals	2/15/2020	N2-MEB674932 MFG: INO. VENT.
Spiking Solution - Sulfur 1000ppm	4/11/2021	LOT: 041118 MFG: ABS. GRADE
Spiking Solution - Si 1000ppm	10/31/2019	N2-SI668066 MFG: INO. VENT.
Spiking Solution - Bi 1000ppm	1/16/2020	N2-BI669548 MFG: INO. VENT.
Spiking Solution - Se 20ppm	9/27/2019	MP-015-1149
Spiking Solution - Li 1000ppm	1/24/2020	N2-LI665824 MFG: INO. VENT.
Spiking Solution- Ag 20 ppm	9/15/2019	MP-015-1144
Spiking Solution - (ACCUTEST-13B REV1)	6/4/2019	MP-015-1118
Spiking Solution - (ACCUTEST-14B REV1)	7/3/2019	MP-015-1126
Spiking Solution - 1000ppm Minerals	6/4/2019	MP-015-1117
Spiking Solution- P		
Nitric Acid	4/1/2021	LOT: 213500 MFG: J.T. BAKER
Nitric Acid (1:1)	10/1/2019	MP-018-42-167 1:1 HNO3
Hydrochloric Acid	4/1/2021	LOT: 217157 MFG: J.T. BAKER
Hydrochloric Acid (1:1)	10/1/2019	MP-018-42-166 1:1 HCL
Hydrogen Peroxide	3/28/2021	LOT: 183575 MFG: FISHER
Soil Lab Control/Soil LC	3/31/2020	LOT: D094-540 MFG: ERA
Teflon Chips(For Soil MB and Blank Spike)	N/A	LOT: 24242815 MFG: SAINT-GOBAIN
Digestion Tubes	N/A	LOT: 1812117 MFG: ENV. EXPRESS
pH Paper	6/15/2021	LOT: 217518 MFG: HYDRION
Filter paper Q8	N/A	LOT: 16917460 MFG: FISHER
Filter paper 0.45µm	N/A	LOT: F8MA26136E MFG: FISHER

Spike witnessed By: TG

Validated By:

Validated On:

Metals Prep Reagent
1/17/18

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Solids, Total Dissolved	GN93522	10	0.0	mg/l				

Associated Samples:
Batch GN93522: JC85367-1, JC85367-2, JC85367-3, JC85367-4
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JC85367
Account: BBLNYS - Arcadis
Project: National Grid, Philly Coke, Philadelphia, PA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Solids, Total Dissolved	GN93522	JC85367-1	mg/l	560	580	3.5	0-16%

Associated Samples:
Batch GN93522: JC85367-1, JC85367-2, JC85367-3, JC85367-4
(*) Outside of QC limits

General Chemistry

Raw Data

Test: **Total Dissolved Solids**
Method: SM2540 C-11

Product: **TDS**
Units: mg/l
RL: 10.0

GN Batch ID: GN93522
Analyst: RC
Date: 3/30/2019
Balance ID: B53

SGS

QC Summary Filtration Date: 3/30/19 Filtration Time: 11:55

MB ID:	GN93522-MB1	Result:	<RDL	RDL:	10	< RDL YES
Dup ID:	GN93522-D1	Samp Result:	560	Dup Result:	580	% RPD: -3.50877193
	GN93522-D2		538		533	0.9

Acceptable Temp. Range = 178 to 182 deg. C

Therm ID: 189560
Corr Factor: 0

Date:					4/1/2019	4/1/2019									
Time (Start/Finish)					08:30/10:00	13:05/14:17									
Temp (Start/Finish)					180/180	180/180									
Bottle #	Dish #	Sample ID	Volume Filtered in ml	Filter Tare Weight in g	Weight after drying at 180 deg. C in g	Redry #1 Weight in g (a)	Redry ?	Redry # 2 Weight in g (a)	Redry ?	Redry # 3 Weight in g (a)	Constant Weight in g (a)	TDS in mg/l (Calculated)	Final TDS* in mg/l	Mass % RPD	Mass %RPD > 5%
	N12	GN93522-MB1	100	114.1431	114.1431	114.1431	NO				114.1431		0.00		
	B0	GN93522-D1	10	92.5178	92.5235	92.5236	NO				92.5236		580.00	3.5%	Y
4	P2	JC85367-1	10	97.7151	97.7206	97.7207	NO				97.7207		560.00		
5	A14	GN93522-D2	100	89.5192	89.5726	89.5725	NO				89.5725		533.00	0.9%	Y
5	B1	JC85282-1	100	94.1422	94.1960	94.1960	NO				94.1960		538.00		
5	A8	JC85282-2	100	104.8800	104.9158	104.9157	NO				104.9157		357.00		
5	P7	JC85282-3	100	96.4732	96.4732	96.4732	NO				96.4732		0.00		
5	A6	JC85282-4	100	88.4278	88.4470	88.4473	NO				88.4473		195.00		
5	P4	JC85282-5	10	89.2220	89.2276	89.2275	NO				89.2275		550.00		
5	E6	JC85282-6	50	81.6492	81.6540	81.6540	NO				81.6540		96.00		
5	B4	JC85281-1	20	87.4469	87.4503	87.4504	NO				87.4504		175.00		
5	K3	JC85281-2	20	110.2600	110.2684	110.2685	NO				110.2685		425.00		
5	L2	JC85281-3	20	106.0880	106.0969	106.0969	NO				106.0969		445.00		
2	B20	JC85367-2	10	108.5040	108.5100	108.5100	NO				108.5100		600.00		
2	A7	JC85367-3	10	96.6268	96.6345	96.6343	NO				96.6343		750.00		
2	A9	JC85367-4	10	89.3966	89.4010	89.4010	NO				89.4010		440.00		
5	J10	JC85375-1	100	103.6015	103.6277	103.6280	NO				103.6280		265.00		
5	K6	JC85375-2	50	100.3615	100.3761	100.3760	NO				100.3760		290.00		
7	A3	JC85405-3	100	102.6278	102.7329	102.7330	NO				102.7330		1052.00		
5	D5	JC85438-3	100	93.9012	93.9087	93.9087	NO				93.9087		75.00		
2	A13	JC85438-4	100	87.8797	87.9022	87.9022	NO				87.9022		225.00		
2	K9	JC85438-5	100	102.1219	102.1226	102.1226	NO				102.1226		7.00		

*TDS (mg/l)=(weight of evaporated dish + dried sample, mg - tare weight of evaporated dish, mg)x1000 ml/l / sample volume, ml

Comments:

Laboratory Sales & Services 25mm Lot# LS-1441016, Laboratory Sales & Services 42mm Lot# LS-1501006

DAYT-WET-0197-10-FORM-TDS
REV DATE 10/17/18

4/1/19

SGS

GN93522
TDS SAMPLE DESCRIPTION SHEET

	SGS Sample ID		Filter size used	Non-standard volumes. Comment with reason as shown below.	Limited Volume	
4	JC85367-1	Cloudy Orange, Slight foamy	42	10 a		QC1
5	JC85282-1	Clear		100		QC2
5	JC85282-2	clear		100		
5	JC85282-3	clear		100		
5	JC85282-4	Cloudy Orange		100		
5	JC85282-5	Slight foamy Cloudy Orange		10 a		
5	JC85282-6	Cloudy yellow		50 a		
5	JC85281-1	Slight foamy cloudy yellow		20 a		
5	JC85281-2	↓		20 a		
5	JC85281-3	↓		20 a		
2	JC85367-2	foamy cloudy yellow, Particles		10 a		
2	JC85367-3	↓		10 a		
2	JC85367-4	foamy cloudy dark orange		10 a		
5	JC85375-1	Slight Pale		100		
5	JC85375-2	Hazy yellow		50 a		
7	JC85405-3	almost Clear		100		
5	JC85438-3	↓		100		
2	JC85438-4	↓		100		
2	JC85438-5	↓		100		

Reason (a). Sample contains heavy particulates and it can be assessed by appearance that it will clog the filter at higher volumes.
Reason (b). Initial analysis of the sample at a higher volume produced clogging. Rerunning at reduced volume.

Form: GN215-02
Rev. Date: 3/2/18

Misc. Raw Data

Raw Data

SGS

Filtermet MP Batch ID: ____MP13695_____
Method Referenc: EPA 200.7
Filter Date _____3/29/2019_____
Filter Start Time___10:00_____ Filter End Time____~~12:40~~ 18:45_____

Sample ID	Pres Y / N	Initial Sample Volume	Final Volume in ML	Acids Used: Amount of Conc. HNO3(Preservative)	Acids Used: Added - Y or N	Spike Group Added	Comments
MP13695 -MB	N	200	200	2% CONC. HNO3	Y		
MP13695 -MB	N	200	200	2% CONC. HNO3	Y		
MP13695 -B (ICP)	N	200	200	2% CONC. HNO3	Y	ABCE	
MP13695 -LC (HG)	N	200	200	2% CONC. HNO3	Y	D	
1 JC85326-1F ✓	N	500	500	2ML	Y		FINISHED @12:40
2 JC85326-2F ✓	N	500	500	2ML	Y		FINISHED @12:40
3 JC85326-3F ✓	N	500	500	2ML	Y		FINISHED @12:40
4 JC85326-4F ✓	N	500	500	2ML	Y		FINISHED @12:40
5 JC85326-5F ✓	N	500	500	2ML	Y		FINISHED @12:40
6 JC85326-6F ✓	N	500	500	2ML	Y		FINISHED @12:40
7 JC85326-7F ✓	N	500	500	2ML	Y		FINISHED @12:40
8 JC85326-8F ✓	N	500	500	2ML	Y		FINISHED @12:40
9 JC85326-9F ✓	N	500	500	2ML	Y		FINISHED @12:40
10 JC85326-11F ✓	N	500	500	2ML	Y		FINISHED @12:40
11 JC85367-1F	N	500	500	2ML	Y		FINISHED @12:40
12 JC85367-2F	N	500	500	2ML	Y		FINISHED @12:40
13 JC85367-3F	N	500	500	2ML	Y		FINISHED @12:40
14 JC85367-4F	N	500	500	2ML	Y		FINISHED @18:45
15 JC85390-1F	N	500	500	2ML	Y		FINISHED @18:45
16 JC85390-2F	N	500	500	2ML	Y		FINISHED @18:45
17 JC85391-1F ✓	N	500	500	2ML	Y		FINISHED @18:45
18 JC85391-2F ✓	N	500	500	2ML	Y		FINISHED @18:45
19 JC84897-4F ✓	N	100	100	1ML	Y		FINISHED @18:45
20							

	Spike Grups		
Group	Description	MLs used	
A	ACCUTEST-13A REV1	2	
B	ACCUTEST-14A REV1	2	
C	MINERALS 5000PPM	1	
D	30 ppb Hg standard	2	HG-19-145-140-HGA3
E	AG 20PPM	2.5	
F			
G			

Analyst: COLLEENH QC Reviewer:

MP13695
1/19/18

SGS

Metals Digestion Reagents Information Log

Digestion Batch ID: MP 13695 **Date:** 3/29/19

Matrix: ALL

Standard/Reagent Type	Exp. Date	Standard/Reagent ID
Spiking Solution - (ACCUTEST-13A REV1)	9/18/2019	MP-015-1146
Spiking Solution - (ACCUTEST-14A REV1)	9/18/2019	MP-015-1145
Spiking Solution - 5000 mg/l Minerals	2/15/2020	N2-MEB674932 MFG: INO. VENT.
Spiking Solution - Sulfur 1000ppm	4/11/2021	LOT: 041118 MFG: ABS. GRADE
Spiking Solution - Si 1000ppm	10/31/2019	N2-SI668066 MFG: INO. VENT.
Spiking Solution - Bi 1000ppm	1/16/2020	N2-BI669548 MFG: INO. VENT.
Spiking Solution - Se 20ppm	9/27/2019	MP-015-1149
Spiking Solution - Li 1000ppm	1/24/2020	N2-LI665824 MFG: INO. VENT.
Spiking Solution- Ag 20 ppm	9/15/2019	MP-015-1144
Spiking Solution - (ACCUTEST-13B REV1)	6/4/2019	MP-015-1118
Spiking Solution - (ACCUTEST-14B REV1)	7/3/2019	MP-015-1126
Spiking Solution - 1000ppm Minerals	6/4/2019	MP-015-1117
Spiking Solution- P		
Nitric Acid	3/29/2021	LOT: 205793 MFG: J.T. BAKER
Nitric Acid (1:1)	9/28/2019	MP-018-42-164 1:1 HNO3
Hydrochloric Acid	3/28/2021	LOT: 217157 MFG: J.T. BAKER
Hydrochloric Acid (1:1)	9/27/2019	MP-018-42-163 1:1 HCL
Hydrogen Peroxide	3/28/2021	LOT: 183575 MFG: FISHER
Soil Lab Control/Soil LC	3/31/2020	LOT: D094-540 MFG: ERA
Teflon Chips(For Soil MB and Blank Spike)	N/A	LOT: 24242815 MFG: SAINT-GOBAIN
Digestion Tubes	N/A	LOT: 1812117 MFG: ENV. EXPRESS
pH Paper	6/15/2021	LOT: 217518 MFG: HYDRION
Filter paper Q8	N/A	LOT: 16917460 MFG: FISHER
Filter paper 0.45µm	N/A	LOT: F8MA26136E MFG: FISHER

Spike witnessed By: TG

Validated By: _____

Validated On: _____

Metals Prep Reagent
1/17/18

10.1
10