TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
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RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-29022-1
Client Project/Site: Alltech Steel-Willowbrook Pond-NY

For:
Horizon Environmental Services
590 A Callery Road
Cranberry Township, Pennsylvania 16066

Attn: Mr. Scott Clary

Authorized for release by:
1/24/2014 2:05:15 PM

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LINKS

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Definitions/Glossary 4
Certification Summary 5
Sample Summary 6
Method Summary 7
Lab Chronicle 8
Client Sample Results 10
QC Sample Results 13
QC Association Summary 17
Chain of Custody 19
Receipt Checklists 20

Job ID: 180-29022-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-29022-1

Receipt
The samples were received on 1/16/2014 3:34 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.7º C.

The following samples were received at the laboratory outside the required temperature criteria: The samples are considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

Metals were received at lab unpreserved. The sample control group preserved the metals with HN03 lot # 21587 to a pH of <2

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Client: Horizon Environmental Services
Project/Site: Alltech Steel-Willowbrook Pond-NY

TestAmerica Job ID: 180-29022-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Certification Summary

Client: Horizon Environmental Services
Project/Site: Alltech Steel-Willowbrook Pond-NY

TestAmerica Job ID: 180-29022-1

Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-14
California	NELAP	9	4224CA	03-31-14
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAP	4	E871008	06-30-14
Illinois	NELAP	5	002602	06-30-14
Kansas	NELAP	7	E-10350	01-31-14 *
L-A-B	DoD ELAP		L2314	07-16-16
Louisiana	NELAP	6	04041	06-30-14
New Hampshire	NELAP	1	203011	04-05-14
New Jersey	NELAP	2	PA005	06-30-14
New York	NELAP	2	11182	04-01-14
North Carolina DENR	State Program	4	434	12-31-14
Pennsylvania	NELAP	3	02-00416	04-30-14
South Carolina	State Program	4	89014	04-30-14
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	04-30-14
Virginia	NELAP	3	460189	09-14-14
West Virginia DEP	State Program	3	142	03-31-14 *
Wisconsin	State Program	5	998027800	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Horizon Environmental Services
Project/Site: Alltech Steel-Willowbrook Pond-NY

TestAmerica Job ID: 180-29022-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-29022-1	WP-WATER-011614-01	Water	01/16/14 11:00	01/16/14 15:34
180-29022-2	WP-WATER-011614-02	Water	01/16/14 11:00	01/16/14 15:34
180-29022-3	WP-WATER-011614-03	Water	01/16/14 11:00	01/16/14 15:34

Method Summary

Client: Horizon Environmental Services
Project/Site: Alltech Steel-Willowbrook Pond-NY

TestAmerica Job ID: 180-29022-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7470A	Mercury (CVAA)	SW846	TAL PIT

Protocol References:

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Horizon Environmental Services
Project/Site: Alltech Steel-Willowbrook Pond-NY

TestAmerica Job ID: 180-29022-1

Client Sample ID: WP-WATER-011614-01

Lab Sample ID: 180-29022-1

Date Collected: 01/16/14 11:00

Matrix: Water

Date Received: 01/16/14 15:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			970 mL	40.0 mL	95004	01/20/14 14:30	CBY	TAL PIT
Total/NA	Analysis	8082A		1	970 mL	40.0 mL	95233	01/22/14 06:18	JMO	TAL PIT
	Instrument ID: GC10									
Total/NA	Prep	7470A			50.0 mL	50.0 mL	94938	01/20/14 08:45	JWS	TAL PIT
Total/NA	Analysis	7470A		1	50.0 mL	50.0 mL	95002	01/20/14 12:54	JWS	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3010A			50 mL	50 mL	94947	01/20/14 08:55	CEH	TAL PIT
Total/NA	Analysis	6010C		1	50 mL	50 mL	95314	01/22/14 14:53	RJG	TAL PIT
	Instrument ID: Q									

Client Sample ID: WP-WATER-011614-02

Lab Sample ID: 180-29022-2

Date Collected: 01/16/14 11:00

Matrix: Water

Date Received: 01/16/14 15:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			970 mL	40.0 mL	95004	01/20/14 14:30	CBY	TAL PIT
Total/NA	Analysis	8082A		1	970 mL	40.0 mL	95233	01/22/14 06:50	JMO	TAL PIT
	Instrument ID: GC10									
Total/NA	Prep	7470A			50.0 mL	50.0 mL	94938	01/20/14 08:45	JWS	TAL PIT
Total/NA	Analysis	7470A		1	50.0 mL	50.0 mL	95002	01/20/14 12:59	JWS	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3010A			50 mL	50 mL	94947	01/20/14 08:55	CEH	TAL PIT
Total/NA	Analysis	6010C		1	50 mL	50 mL	95314	01/22/14 15:27	RJG	TAL PIT
	Instrument ID: Q									

Client Sample ID: WP-WATER-011614-03

Lab Sample ID: 180-29022-3

Date Collected: 01/16/14 11:00

Matrix: Water

Date Received: 01/16/14 15:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			950 mL	40.0 mL	95004	01/20/14 14:30	CBY	TAL PIT
Total/NA	Analysis	8082A		1	950 mL	40.0 mL	95233	01/22/14 07:20	JMO	TAL PIT
	Instrument ID: GC10									
Total/NA	Prep	7470A			50.0 mL	50.0 mL	94938	01/20/14 08:45	JWS	TAL PIT
Total/NA	Analysis	7470A		1	50.0 mL	50.0 mL	95002	01/20/14 13:01	JWS	TAL PIT
	Instrument ID: K									
Total/NA	Prep	3010A			50 mL	50 mL	94947	01/20/14 08:56	CEH	TAL PIT
Total/NA	Analysis	6010C		1	50 mL	50 mL	95314	01/22/14 15:32	RJG	TAL PIT
	Instrument ID: Q									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Horizon Environmental Services
Project/Site: Alltech Steel-Willowbrook Pond-NY

TestAmerica Job ID: 180-29022-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

CBY = Charles Yushinski

CEH = Caitlyn Haluck

JWS = Jim Swanson

Batch Type: Analysis

JMO = John Oravec

JWS = Jim Swanson

RJG = Rob Good

Client Sample ID: WP-WATER-011614-01

Lab Sample ID: 180-29022-1

Date Collected: 01/16/14 11:00

Matrix: Water

Date Received: 01/16/14 15:34

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.10	U	0.41	0.10	ug/L		01/20/14 14:30	01/22/14 06:18	1
PCB-1221	0.10	U	0.41	0.10	ug/L		01/20/14 14:30	01/22/14 06:18	1
PCB-1232	0.12	U	0.41	0.12	ug/L		01/20/14 14:30	01/22/14 06:18	1
PCB-1242	0.077	U	0.41	0.077	ug/L		01/20/14 14:30	01/22/14 06:18	1
PCB-1248	0.094	U	0.41	0.094	ug/L		01/20/14 14:30	01/22/14 06:18	1
PCB-1254	0.094	U	0.41	0.094	ug/L		01/20/14 14:30	01/22/14 06:18	1
PCB-1260	0.056	U	0.41	0.056	ug/L		01/20/14 14:30	01/22/14 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*89*		*35 - 140*	*01/20/14 14:30*	*01/22/14 06:18*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*35 - 140*	*01/20/14 14:30*	*01/22/14 06:18*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.68	U	5.0	0.68	ug/L		01/20/14 08:55	01/22/14 14:53	1
Aluminum	**19**	**J**	200	9.7	ug/L		01/20/14 08:55	01/22/14 14:53	1
Arsenic	2.7	U	10	2.7	ug/L		01/20/14 08:55	01/22/14 14:53	1
Antimony	1.3	U	10	1.3	ug/L		01/20/14 08:55	01/22/14 14:53	1
Barium	**11**	**J**	200	0.62	ug/L		01/20/14 08:55	01/22/14 14:53	1
Beryllium	0.23	U	4.0	0.23	ug/L		01/20/14 08:55	01/22/14 14:53	1
Cadmium	0.13	U	5.0	0.13	ug/L		01/20/14 08:55	01/22/14 14:53	1
Calcium	**16000**		5000	9.7	ug/L		01/20/14 08:55	01/22/14 14:53	1
Chromium	**2.8**	**J**	5.0	0.57	ug/L		01/20/14 08:55	01/22/14 14:53	1
Cobalt	0.40	U	50	0.40	ug/L		01/20/14 08:55	01/22/14 14:53	1
Copper	2.7	U	25	2.7	ug/L		01/20/14 08:55	01/22/14 14:53	1
Iron	**51**	**J**	100	12	ug/L		01/20/14 08:55	01/22/14 14:53	1
Lead	1.3	U	10	1.3	ug/L		01/20/14 08:55	01/22/14 14:53	1
Magnesium	**5100**		5000	21	ug/L		01/20/14 08:55	01/22/14 14:53	1
Manganese	**16**		15	0.68	ug/L		01/20/14 08:55	01/22/14 14:53	1
Nickel	**62**		40	1.6	ug/L		01/20/14 08:55	01/22/14 14:53	1
Potassium	**4800**	**J**	5000	750	ug/L		01/20/14 08:55	01/22/14 14:53	1
Selenium	3.0	U	10	3.0	ug/L		01/20/14 08:55	01/22/14 14:53	1
Sodium	**16000**		5000	220	ug/L		01/20/14 08:55	01/22/14 14:53	1
Thallium	2.4	U	20	2.4	ug/L		01/20/14 08:55	01/22/14 14:53	1
Vanadium	1.9	U	50	1.9	ug/L		01/20/14 08:55	01/22/14 14:53	1
Zinc	2.5	U	20	2.5	ug/L		01/20/14 08:55	01/22/14 14:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	U	0.20	0.038	ug/L		01/20/14 08:45	01/20/14 12:54	1

Client Sample ID: WP-WATER-011614-02

Lab Sample ID: 180-29022-2

Date Collected: 01/16/14 11:00

Matrix: Water

Date Received: 01/16/14 15:34

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.10	U	0.41	0.10	ug/L		01/20/14 14:30	01/22/14 06:50	1
PCB-1221	0.10	U	0.41	0.10	ug/L		01/20/14 14:30	01/22/14 06:50	1
PCB-1232	0.12	U	0.41	0.12	ug/L		01/20/14 14:30	01/22/14 06:50	1

Client Sample ID: WP-WATER-011614-02

Lab Sample ID: 180-29022-2

Date Collected: 01/16/14 11:00

Matrix: Water

Date Received: 01/16/14 15:34

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	0.077	U	0.41	0.077	ug/L		01/20/14 14:30	01/22/14 06:50	1
PCB-1248	0.094	U	0.41	0.094	ug/L		01/20/14 14:30	01/22/14 06:50	1
PCB-1254	0.094	U	0.41	0.094	ug/L		01/20/14 14:30	01/22/14 06:50	1
PCB-1260	0.056	U	0.41	0.056	ug/L		01/20/14 14:30	01/22/14 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*91*		*35 - 140*	*01/20/14 14:30*	*01/22/14 06:50*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*35 - 140*	*01/20/14 14:30*	*01/22/14 06:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.68	U	5.0	0.68	ug/L		01/20/14 08:55	01/22/14 15:27	1
Aluminum	**23**	**J**	200	9.7	ug/L		01/20/14 08:55	01/22/14 15:27	1
Arsenic	2.7	U	10	2.7	ug/L		01/20/14 08:55	01/22/14 15:27	1
Antimony	1.3	U	10	1.3	ug/L		01/20/14 08:55	01/22/14 15:27	1
Barium	**23**	**J**	200	0.62	ug/L		01/20/14 08:55	01/22/14 15:27	1
Beryllium	0.23	U	4.0	0.23	ug/L		01/20/14 08:55	01/22/14 15:27	1
Cadmium	0.13	U	5.0	0.13	ug/L		01/20/14 08:55	01/22/14 15:27	1
Calcium	**29000**		5000	9.7	ug/L		01/20/14 08:55	01/22/14 15:27	1
Chromium	**1.1**	**J**	5.0	0.57	ug/L		01/20/14 08:55	01/22/14 15:27	1
Cobalt	0.40	U	50	0.40	ug/L		01/20/14 08:55	01/22/14 15:27	1
Copper	2.7	U	25	2.7	ug/L		01/20/14 08:55	01/22/14 15:27	1
Iron	**52**	**J**	100	12	ug/L		01/20/14 08:55	01/22/14 15:27	1
Lead	1.3	U	10	1.3	ug/L		01/20/14 08:55	01/22/14 15:27	1
Magnesium	**12000**		5000	21	ug/L		01/20/14 08:55	01/22/14 15:27	1
Manganese	**10**	**J**	15	0.68	ug/L		01/20/14 08:55	01/22/14 15:27	1
Nickel	**130**		40	1.6	ug/L		01/20/14 08:55	01/22/14 15:27	1
Potassium	**4400**	**J**	5000	750	ug/L		01/20/14 08:55	01/22/14 15:27	1
Selenium	3.0	U	10	3.0	ug/L		01/20/14 08:55	01/22/14 15:27	1
Sodium	**37000**		5000	220	ug/L		01/20/14 08:55	01/22/14 15:27	1
Thallium	2.4	U	20	2.4	ug/L		01/20/14 08:55	01/22/14 15:27	1
Vanadium	1.9	U	50	1.9	ug/L		01/20/14 08:55	01/22/14 15:27	1
Zinc	2.5	U	20	2.5	ug/L		01/20/14 08:55	01/22/14 15:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	U	0.20	0.038	ug/L		01/20/14 08:45	01/20/14 12:59	1

Client Sample ID: WP-WATER-011614-03

Lab Sample ID: 180-29022-3

Date Collected: 01/16/14 11:00

Matrix: Water

Date Received: 01/16/14 15:34

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.11	U	0.42	0.11	ug/L		01/20/14 14:30	01/22/14 07:20	1
PCB-1221	0.10	U	0.42	0.10	ug/L		01/20/14 14:30	01/22/14 07:20	1
PCB-1232	0.12	U	0.42	0.12	ug/L		01/20/14 14:30	01/22/14 07:20	1
PCB-1242	0.078	U	0.42	0.078	ug/L		01/20/14 14:30	01/22/14 07:20	1
PCB-1248	0.096	U	0.42	0.096	ug/L		01/20/14 14:30	01/22/14 07:20	1
PCB-1254	0.096	U	0.42	0.096	ug/L		01/20/14 14:30	01/22/14 07:20	1

Client: Horizon Environmental Services
Project/Site: Alltech Steel-Willowbrook Pond-NY

TestAmerica Job ID: 180-29022-1

Client Sample ID: WP-WATER-011614-03
Date Collected: 01/16/14 11:00
Date Received: 01/16/14 15:34

Lab Sample ID: 180-29022-3
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.057	U	0.42	0.057	ug/L		01/20/14 14:30	01/22/14 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*35 - 140*	*01/20/14 14:30*	*01/22/14 07:20*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*35 - 140*	*01/20/14 14:30*	*01/22/14 07:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.68	U	5.0	0.68	ug/L		01/20/14 08:56	01/22/14 15:32	1
Aluminum	**15**	**J**	200	9.7	ug/L		01/20/14 08:56	01/22/14 15:32	1
Arsenic	2.7	U	10	2.7	ug/L		01/20/14 08:56	01/22/14 15:32	1
Antimony	1.3	U	10	1.3	ug/L		01/20/14 08:56	01/22/14 15:32	1
Barium	**20**	**J**	200	0.62	ug/L		01/20/14 08:56	01/22/14 15:32	1
Beryllium	0.23	U	4.0	0.23	ug/L		01/20/14 08:56	01/22/14 15:32	1
Cadmium	0.13	U	5.0	0.13	ug/L		01/20/14 08:56	01/22/14 15:32	1
Calcium	**26000**		5000	9.7	ug/L		01/20/14 08:56	01/22/14 15:32	1
Chromium	**3.7**	**J**	5.0	0.57	ug/L		01/20/14 08:56	01/22/14 15:32	1
Cobalt	0.40	U	50	0.40	ug/L		01/20/14 08:56	01/22/14 15:32	1
Copper	2.7	U	25	2.7	ug/L		01/20/14 08:56	01/22/14 15:32	1
Iron	**58**	**J**	100	12	ug/L		01/20/14 08:56	01/22/14 15:32	1
Lead	1.3	U	10	1.3	ug/L		01/20/14 08:56	01/22/14 15:32	1
Magnesium	**9800**		5000	21	ug/L		01/20/14 08:56	01/22/14 15:32	1
Manganese	**31**		15	0.68	ug/L		01/20/14 08:56	01/22/14 15:32	1
Nickel	**110**		40	1.6	ug/L		01/20/14 08:56	01/22/14 15:32	1
Potassium	**3800**	**J**	5000	750	ug/L		01/20/14 08:56	01/22/14 15:32	1
Selenium	3.0	U	10	3.0	ug/L		01/20/14 08:56	01/22/14 15:32	1
Sodium	**29000**		5000	220	ug/L		01/20/14 08:56	01/22/14 15:32	1
Thallium	2.4	U	20	2.4	ug/L		01/20/14 08:56	01/22/14 15:32	1
Vanadium	1.9	U	50	1.9	ug/L		01/20/14 08:56	01/22/14 15:32	1
Zinc	**2.6**	**J**	20	2.5	ug/L		01/20/14 08:56	01/22/14 15:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	U	0.20	0.038	ug/L		01/20/14 08:45	01/20/14 13:01	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-95004/1-A
Matrix: Water
Analysis Batch: 95233

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.10	U	0.40	0.10	ug/L		01/20/14 14:30	01/22/14 07:51	1
PCB-1221	0.10	U	0.40	0.10	ug/L		01/20/14 14:30	01/22/14 07:51	1
PCB-1232	0.12	U	0.40	0.12	ug/L		01/20/14 14:30	01/22/14 07:51	1
PCB-1242	0.074	U	0.40	0.074	ug/L		01/20/14 14:30	01/22/14 07:51	1
PCB-1248	0.091	U	0.40	0.091	ug/L		01/20/14 14:30	01/22/14 07:51	1
PCB-1254	0.092	U	0.40	0.092	ug/L		01/20/14 14:30	01/22/14 07:51	1
PCB-1260	0.054	U	0.40	0.054	ug/L		01/20/14 14:30	01/22/14 07:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*85*		*35 - 140*	*01/20/14 14:30*	*01/22/14 07:51*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*35 - 140*	*01/20/14 14:30*	*01/22/14 07:51*	*1*

Lab Sample ID: LCS 180-95004/2-A
Matrix: Water
Analysis Batch: 95233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95004

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			40.0	34.9		ug/L		87	60 - 130		
PCB-1260			40.0	35.3		ug/L		88	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*93*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*106*		*35 - 140*

Lab Sample ID: LCSD 180-95004/3-A
Matrix: Water
Analysis Batch: 95233

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95004

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			40.0	35.1		ug/L		88	60 - 130	1	27
PCB-1260			40.0	36.8		ug/L		92	60 - 130	4	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*90*		*35 - 140*
DCB Decachlorobiphenyl (Surr)	*106*		*35 - 140*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-94947/1-A
Matrix: Water
Analysis Batch: 95314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.68	U	5.0	0.68	ug/L		01/20/14 08:55	01/22/14 14:11	1
Aluminum	9.7	U	200	9.7	ug/L		01/20/14 08:55	01/22/14 14:11	1
Arsenic	2.7	U	10	2.7	ug/L		01/20/14 08:55	01/22/14 14:11	1
Antimony	1.3	U	10	1.3	ug/L		01/20/14 08:55	01/22/14 14:11	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-94947/1-A
Matrix: Water
Analysis Batch: 95314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94947

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.62	U	200	0.62	ug/L		01/20/14 08:55	01/22/14 14:11	1
Beryllium	0.23	U	4.0	0.23	ug/L		01/20/14 08:55	01/22/14 14:11	1
Cadmium	0.13	U	5.0	0.13	ug/L		01/20/14 08:55	01/22/14 14:11	1
Calcium	9.7	U	5000	9.7	ug/L		01/20/14 08:55	01/22/14 14:11	1
Chromium	0.57	U	5.0	0.57	ug/L		01/20/14 08:55	01/22/14 14:11	1
Cobalt	0.40	U	50	0.40	ug/L		01/20/14 08:55	01/22/14 14:11	1
Copper	2.7	U	25	2.7	ug/L		01/20/14 08:55	01/22/14 14:11	1
Iron	12	U	100	12	ug/L		01/20/14 08:55	01/22/14 14:11	1
Lead	1.3	U	10	1.3	ug/L		01/20/14 08:55	01/22/14 14:11	1
Magnesium	21	U	5000	21	ug/L		01/20/14 08:55	01/22/14 14:11	1
Manganese	0.68	U	15	0.68	ug/L		01/20/14 08:55	01/22/14 14:11	1
Nickel	1.6	U	40	1.6	ug/L		01/20/14 08:55	01/22/14 14:11	1
Potassium	750	U	5000	750	ug/L		01/20/14 08:55	01/22/14 14:11	1
Selenium	3.0	U	10	3.0	ug/L		01/20/14 08:55	01/22/14 14:11	1
Sodium	220	U	5000	220	ug/L		01/20/14 08:55	01/22/14 14:11	1
Thallium	2.4	U	20	2.4	ug/L		01/20/14 08:55	01/22/14 14:11	1
Vanadium	1.9	U	50	1.9	ug/L		01/20/14 08:55	01/22/14 14:11	1
Zinc	2.5	U	20	2.5	ug/L		01/20/14 08:55	01/22/14 14:11	1

Lab Sample ID: LCS 180-94947/2-A
Matrix: Water
Analysis Batch: 95314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	50.0		ug/L		100	80 - 120
Aluminum	2000	2050		ug/L		102	80 - 120
Arsenic	500	492		ug/L		98	80 - 120
Antimony	500	505		ug/L		101	80 - 120
Barium	2000	1910		ug/L		95	80 - 120
Beryllium	50.0	48.1		ug/L		96	80 - 120
Cadmium	50.0	48.2		ug/L		96	80 - 120
Calcium	50000	49600		ug/L		99	80 - 120
Chromium	200	188		ug/L		94	80 - 120
Cobalt	500	486		ug/L		97	80 - 120
Copper	250	236		ug/L		95	80 - 120
Iron	1000	988		ug/L		99	80 - 120
Lead	500	485		ug/L		97	80 - 120
Magnesium	50000	48800		ug/L		98	80 - 120
Manganese	500	479		ug/L		96	80 - 120
Nickel	500	484		ug/L		97	80 - 120
Potassium	50000	49400		ug/L		99	80 - 120
Selenium	500	496		ug/L		99	80 - 120
Sodium	50000	51100		ug/L		102	80 - 120
Thallium	500	475		ug/L		95	80 - 120
Vanadium	500	478		ug/L		96	80 - 120
Zinc	500	477		ug/L		95	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-29022-1 MS
Matrix: Water
Analysis Batch: 95314

Client Sample ID: WP-WATER-011614-01
Prep Type: Total/NA
Prep Batch: 94947

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.68	U	50.0	54.2		ug/L		108	75 - 125
Aluminum	19	J	2000	2130		ug/L		105	75 - 125
Arsenic	2.7	U	500	519		ug/L		104	75 - 125
Antimony	1.3	U	500	533		ug/L		107	75 - 125
Barium	11	J	2000	2060		ug/L		102	75 - 125
Beryllium	0.23	U	50.0	50.3		ug/L		101	75 - 125
Cadmium	0.13	U	50.0	50.0		ug/L		100	75 - 125
Calcium	16000		50000	67400		ug/L		102	75 - 125
Chromium	2.8	J	200	205		ug/L		101	75 - 125
Cobalt	0.40	U	500	510		ug/L		102	75 - 125
Copper	2.7	U	250	247		ug/L		99	75 - 125
Iron	51	J	1000	1090		ug/L		104	75 - 125
Lead	1.3	U	500	509		ug/L		102	75 - 125
Magnesium	5100		50000	56300		ug/L		102	75 - 125
Manganese	16		500	519		ug/L		100	75 - 125
Nickel	62		500	573		ug/L		102	75 - 125
Potassium	4800	J	50000	56300		ug/L		103	75 - 125
Selenium	3.0	U	500	526		ug/L		105	75 - 125
Sodium	16000		50000	69700		ug/L		108	75 - 125
Thallium	2.4	U	500	496		ug/L		99	75 - 125
Vanadium	1.9	U	500	515		ug/L		103	75 - 125
Zinc	2.5	U	500	499		ug/L		100	75 - 125

Lab Sample ID: 180-29022-1 MSD
Matrix: Water
Analysis Batch: 95314

Client Sample ID: WP-WATER-011614-01
Prep Type: Total/NA
Prep Batch: 94947

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.68	U	50.0	53.3		ug/L		107	75 - 125	2	20
Aluminum	19	J	2000	2180		ug/L		108	75 - 125	3	20
Arsenic	2.7	U	500	528		ug/L		106	75 - 125	2	20
Antimony	1.3	U	500	545		ug/L		109	75 - 125	2	20
Barium	11	J	2000	2050		ug/L		102	75 - 125	0	20
Beryllium	0.23	U	50.0	51.2		ug/L		102	75 - 125	2	20
Cadmium	0.13	U	50.0	51.1		ug/L		102	75 - 125	2	20
Calcium	16000		50000	69200		ug/L		106	75 - 125	3	20
Chromium	2.8	J	200	206		ug/L		101	75 - 125	0	20
Cobalt	0.40	U	500	518		ug/L		104	75 - 125	2	20
Copper	2.7	U	250	252		ug/L		101	75 - 125	2	20
Iron	51	J	1000	1100		ug/L		105	75 - 125	1	20
Lead	1.3	U	500	518		ug/L		104	75 - 125	2	20
Magnesium	5100		50000	57300		ug/L		104	75 - 125	2	20
Manganese	16		500	522		ug/L		101	75 - 125	1	20
Nickel	62		500	582		ug/L		104	75 - 125	2	20
Potassium	4800	J	50000	57800		ug/L		106	75 - 125	3	20
Selenium	3.0	U	500	537		ug/L		107	75 - 125	2	20
Sodium	16000		50000	70500		ug/L		109	75 - 125	1	20
Thallium	2.4	U	500	507		ug/L		101	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-29022-1 MSD — **Client Sample ID: WP-WATER-011614-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95314 — **Prep Batch: 94947**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	1.9	U	500	515		ug/L		103	75 - 125	0	20
Zinc	2.5	U	500	509		ug/L		102	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-94938/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95002 — **Prep Batch: 94938**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038	U	0.20	0.038	ug/L		01/20/14 08:45	01/20/14 12:38	1

Lab Sample ID: LCS 180-94938/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95002 — **Prep Batch: 94938**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.41		ug/L		96	80 - 120

GC Semi VOA

Prep Batch: 95004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-29022-1	WP-WATER-011614-01	Total/NA	Water	3510C	
180-29022-2	WP-WATER-011614-02	Total/NA	Water	3510C	
180-29022-3	WP-WATER-011614-03	Total/NA	Water	3510C	
LCS 180-95004/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-95004/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 180-95004/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 95233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-29022-1	WP-WATER-011614-01	Total/NA	Water	8082A	95004
180-29022-2	WP-WATER-011614-02	Total/NA	Water	8082A	95004
180-29022-3	WP-WATER-011614-03	Total/NA	Water	8082A	95004
LCS 180-95004/2-A	Lab Control Sample	Total/NA	Water	8082A	95004
LCSD 180-95004/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	95004
MB 180-95004/1-A	Method Blank	Total/NA	Water	8082A	95004

Metals

Prep Batch: 94938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-29022-1	WP-WATER-011614-01	Total/NA	Water	7470A	
180-29022-2	WP-WATER-011614-02	Total/NA	Water	7470A	
180-29022-3	WP-WATER-011614-03	Total/NA	Water	7470A	
LCS 180-94938/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 180-94938/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 94947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-29022-1	WP-WATER-011614-01	Total/NA	Water	3010A	
180-29022-1 MS	WP-WATER-011614-01	Total/NA	Water	3010A	
180-29022-1 MSD	WP-WATER-011614-01	Total/NA	Water	3010A	
180-29022-2	WP-WATER-011614-02	Total/NA	Water	3010A	
180-29022-3	WP-WATER-011614-03	Total/NA	Water	3010A	
LCS 180-94947/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 180-94947/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 95002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-29022-1	WP-WATER-011614-01	Total/NA	Water	7470A	94938
180-29022-2	WP-WATER-011614-02	Total/NA	Water	7470A	94938
180-29022-3	WP-WATER-011614-03	Total/NA	Water	7470A	94938
LCS 180-94938/2-A	Lab Control Sample	Total/NA	Water	7470A	94938
MB 180-94938/1-A	Method Blank	Total/NA	Water	7470A	94938

Analysis Batch: 95314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-29022-1	WP-WATER-011614-01	Total/NA	Water	6010C	94947
180-29022-1 MS	WP-WATER-011614-01	Total/NA	Water	6010C	94947
180-29022-1 MSD	WP-WATER-011614-01	Total/NA	Water	6010C	94947
180-29022-2	WP-WATER-011614-02	Total/NA	Water	6010C	94947

Metals (Continued)

Analysis Batch: 95314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-29022-3	WP-WATER-011614-03	Total/NA	Water	6010C	94947
LCS 180-94947/2-A	Lab Control Sample	Total/NA	Water	6010C	94947
MB 180-94947/1-A	Method Blank	Total/NA	Water	6010C	94947

>>> Select a Laboratory <<<

Chain of Custody Record

TestAmerica
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TestAmerica Laboratories, Inc.

1/24/2014

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Scott Clary	Site Contact: Scott Clary	Date:	COC No: 011614
Horizon Environmental Services, Inc.	Tel/Fax: 724-538-8522 724-538-8523	Lab Contact:	Carrier:	1 of 1 COCs
Address 590A Callery Road	Analysis Turnaround Time			Sampler:
City/State/Zip Cranberry Twp., PA 16066	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: 724-538-8522	TAT if different from Below 7			Walk-in Client:
Fax: 724-538-8523	☐ 2 weeks			Lab Sampling:
Project Name: Altech Steel - Willowbrook Pond	☐ 1 week			
Site: Dunkirk, NY	☐ 2 days			Job / SDG No.:
P O # NYSDEC Contract Number D008535	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TAL METALS 6010 7471	PCB's 8082	Sample Specific Notes:
WP-WATER-011614-01	1-16-14	11:08 am	G	LIQ	2	N	N	X	X	
WP-WATER-011614-02	↓	↓	G	LIQ	2	N	N	X	X	
WP-WATER-011614-03	↓	↓	G	LIQ	2	N	N	X	X	

180-29022 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☑ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Horizon Env.	Date/Time: 1/16/14 3:30	Received by:	Company: TAGH
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

Date/Time: 1/16/14, 5:32

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Temp 7.8 CF=0.1 = 7.7 Therm #4.

Login Sample Receipt Checklist

Client: Horizon Environmental Services

Job Number: 180-29022-1

Login Number: 29022

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Kovitch, Christina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Job Number: 480-64676-1

Job Description: Altech Specialty Steel; Dunkirk, NY

For:
Horizon Environmental Services
590 A Callery Road
Cranberry Township, PA 16066

Attention: Mr. Scott Clary

Approved for release.
Rebecca M Jones
Project Management Assistant I
8/28/2014 4:13 PM

Designee for
Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
08/28/2014

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 5

- Report Narrative 5
- Sample Summary 6
- Executive Summary 7
- Method Summary 9
- Method / Analyst Summary 10
- Sample Datasheets 11
- Surrogate Summary 39
- QC Data Summary 42
- Data Qualifiers 57
- QC Association Summary 58
- Lab Chronicle 61

Organic Sample Data 65

- GC/MS VOA 65
  - Method 8260C 65
    - Method 8260C QC Summary 66
    - Method 8260C Sample Data 73
    - Standards Data 93
      - Method 8260C ICAL Data 93
      - Method 8260C CCAL Data 138
    - Raw QC Data 146
      - Method 8260C Tune Data 146
      - Method 8260C Blank Data 152
      - Method 8260C LCS/LCSD Data 159
    - Method 8260C Run Logs 165

Table of Contents

Method 8260C Prep Data 167

GC/MS Semi VOA 171

Method 8270D 171

Method 8270D QC Summary 172

Method 8270D Sample Data 182

Standards Data 213

Method 8270D ICAL Data 213

Method 8270D CCAL Data 279

Raw QC Data 295

Method 8270D Tune Data 295

Method 8270D Blank Data 311

Method 8270D LCS/LCSD Data 322

Method 8270D Run Logs 340

Method 8270D Prep Data 342

GC Semi VOA 344

8082A_LL 344

8082A_LL QC Summary 345

8082A_LL Sample Data 351

Standards Data 375

8082A_LL ICAL Data 375

8082A_LL CCAL Data 499

Raw QC Data 522

8082A_LL Blank Data 522

8082A_LL LCS/LCSD Data 528

8082A_LL Run Logs 544

8082A_LL Prep Data 548

Table of Contents

Inorganic Sample Data 550
Metals Data 550
Met Cover Page 551
Met Sample Data 552
Met QC Data 556
Met ICV/CCV 556
Met CRQL 565
Met Blanks 567
Met ICSA/ICSAB 573
Met MS/MSD/PDS 577
Met LCS/LCSD 580
Met Serial Dilution 582
Met MDL 583
Met Linear Ranges 589
Met Preparation Log 592
Met Analysis Run Log 594
Met Raw Data 599
Met Prep Data 1106
Shipping and Receiving Documents 1109
Client Chain of Custody 1110
Sample Receipt Checklist 1111

Job Narrative
480-64676-1

Receipt
The samples were received on 7/31/2014 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6º C and 3.2º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The large number of analytes included in the continuing calibration verification (CCV) for analytical batch 196033 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8270D: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 195843 recovered outside control limits for the following analytes: 3-Nitroaniline, 4-Nitroaniline and 2,6-Dinitrotoluene. These analytes have been identified as a poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 195843 recovered outside control limits for several analytes. The individual recoveries met acceptance criteria.

Method(s) 8270D: The method blank for preparation batch 195843 contained Benzaldehyde above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: All primary data is reported from the ZB-5 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: Sample AS-WTPE-14-0045 (480-64676-2), AS-WTPE-14-0046 (480-64676-3), AS-WTPE-14-0047 (480-64676-4) had a negative instrument reading with an absolute value that was greater than the reporting limit for the analyte total vanadium. Matrix interference is suspected. The sample was analyzed at a 2-fold dilution, to reduce the interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 195771.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Horizon Environmental Services

Job Number: 480-64676-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-64676-1	AS-WTPE-14-0044	Water	07/30/2014 1400	07/31/2014 1550
480-64676-2	AS-WTPE-14-0045	Water	07/30/2014 1730	07/31/2014 1550
480-64676-3	AS-WTPE-14-0046	Water	07/31/2014 0800	07/31/2014 1550
480-64676-4	AS-WTPE-14-0047	Water	07/31/2014 1100	07/31/2014 1550

EXECUTIVE SUMMARY - Detections

Client: Horizon Environmental Services Job Number: 480-64676-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-64676-1	**AS-WTPE-14-0044**					
Aluminum		0.11	J	0.20	mg/L	6010C
Barium		0.084		0.0020	mg/L	6010C
Calcium		172		0.50	mg/L	6010C
Chromium		0.0011	J	0.0040	mg/L	6010C
Cobalt		0.0040		0.0040	mg/L	6010C
Copper		0.0019	J	0.010	mg/L	6010C
Iron		0.047	J	0.050	mg/L	6010C
Magnesium		39.7		0.20	mg/L	6010C
Manganese		0.68		0.0030	mg/L	6010C
Nickel		1.0		0.010	mg/L	6010C
Potassium		7.8		0.50	mg/L	6010C
Selenium		0.0093	J	0.025	mg/L	6010C
Sodium		104		1.0	mg/L	6010C
Zinc		0.0080	J	0.010	mg/L	6010C
480-64676-2	**AS-WTPE-14-0045**					
Aluminum		0.092	J	0.20	mg/L	6010C
Barium		0.083		0.0020	mg/L	6010C
Calcium		181		0.50	mg/L	6010C
Chromium		0.0011	J	0.0040	mg/L	6010C
Cobalt		0.0021	J	0.0040	mg/L	6010C
Copper		0.0021	J	0.010	mg/L	6010C
Iron		0.038	J	0.050	mg/L	6010C
Magnesium		43.7		0.20	mg/L	6010C
Manganese		0.40		0.0030	mg/L	6010C
Nickel		0.76		0.010	mg/L	6010C
Potassium		8.4		0.50	mg/L	6010C
Sodium		109		1.0	mg/L	6010C
Vanadium		0.0045	J	0.010	mg/L	6010C
Zinc		0.0043	J	0.010	mg/L	6010C

EXECUTIVE SUMMARY - Detections

Client: Horizon Environmental Services Job Number: 480-64676-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-64676-3	**AS-WTPE-14-0046**					
Aluminum		0.082	J	0.20	mg/L	6010C
Barium		0.072		0.0020	mg/L	6010C
Calcium		195		0.50	mg/L	6010C
Chromium		0.0019	J	0.0040	mg/L	6010C
Cobalt		0.0025	J	0.0040	mg/L	6010C
Copper		0.0025	J	0.010	mg/L	6010C
Iron		0.048	J	0.050	mg/L	6010C
Magnesium		46.6		0.20	mg/L	6010C
Manganese		0.49		0.0030	mg/L	6010C
Nickel		0.78		0.010	mg/L	6010C
Potassium		8.6		0.50	mg/L	6010C
Sodium		104		1.0	mg/L	6010C
Vanadium		0.0038	J	0.010	mg/L	6010C
Zinc		0.0035	J	0.010	mg/L	6010C
480-64676-4	**AS-WTPE-14-0047**					
Acenaphthene		1.1	J *	5.0	ug/L	8270D
Anthracene		0.42	J *	5.0	ug/L	8270D
Bis(2-ethylhexyl) phthalate		3.8	J *	5.0	ug/L	8270D
Fluorene		0.89	J *	5.0	ug/L	8270D
Phenanthrene		1.2	J *	5.0	ug/L	8270D
Aluminum		0.11	J	0.20	mg/L	6010C
Barium		0.072		0.0020	mg/L	6010C
Calcium		192		0.50	mg/L	6010C
Chromium		0.0018	J	0.0040	mg/L	6010C
Cobalt		0.0028	J	0.0040	mg/L	6010C
Copper		0.0026	J	0.010	mg/L	6010C
Iron		0.039	J	0.050	mg/L	6010C
Magnesium		45.4		0.20	mg/L	6010C
Manganese		0.42		0.0030	mg/L	6010C
Nickel		0.84		0.010	mg/L	6010C
Potassium		8.3		0.50	mg/L	6010C
Sodium		102		1.0	mg/L	6010C
Vanadium		0.0046	J	0.010	mg/L	6010C
Zinc		0.0035	J	0.010	mg/L	6010C

METHOD SUMMARY

Client: Horizon Environmental Services Job Number: 480-64676-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C
Semivolatile Organic Compounds (GC/MS)	TAL BUF	SW846 8270D	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Polychlorinated Biphenyls (PCBs) (GC)	TAL BUF	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Metals (ICP)	TAL BUF	SW846 6010C	
Preparation, Total Metals	TAL BUF		SW846 3005A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: Horizon Environmental Services

Job Number: 480-64676-1

Method	Analyst	Analyst ID
SW846 8260C	Sobol, Renee A	RAS
SW846 8270D	Quirk, Patrick J	PJQ
SW846 8082A	Evers, David L	DLE
SW846 6010C	Kacalski, Jason R	JRK
SW846 7470A	Kasprzyk, Layne R	LRK

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0044**

Lab Sample ID: 480-64676-1 | Date Sampled: 07/30/2014 1400
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6691.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0510			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0510				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0044**

Lab Sample ID: 480-64676-1 | Date Sampled: 07/30/2014 1400
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6691.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0510			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0510				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0045**

Lab Sample ID: 480-64676-2 | Date Sampled: 07/30/2014 1730
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6692.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0534			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0534				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0045**

Lab Sample ID: 480-64676-2 | Date Sampled: 07/30/2014 1730
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6692.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0534			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0534				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	98		60 - 140

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0046**

Lab Sample ID: 480-64676-3 | Date Sampled: 07/31/2014 0800
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6693.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0558			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0558				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0046**

Lab Sample ID: 480-64676-3 | Date Sampled: 07/31/2014 0800
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6693.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0558			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0558				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
Toluene-d8 (Surr)	103		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	105		60 - 140

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0047**

Lab Sample ID: 480-64676-4 | Date Sampled: 07/31/2014 1100
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6694.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0622			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0622				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0047**

Lab Sample ID: 480-64676-4 | Date Sampled: 07/31/2014 1100
Client Matrix: Water | Date Received: 07/31/2014 1550

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	Q6694.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/01/2014 0622			Final Weight/Volume:	5 mL
Prep Date:	08/01/2014 0622				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	101		60 - 140

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0044**

Lab Sample ID: 480-64676-1 | Date Sampled: 07/30/2014 1400
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09279.D
Dilution:	1.0			Initial Weight/Volume:	236.5 mL
Analysis Date:	08/02/2014 1839			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Biphenyl	ND	*	0.69	5.3
bis (2-chloroisopropyl) ether	ND	*	0.55	5.3
2,4,5-Trichlorophenol	ND	*	0.51	5.3
2,4,6-Trichlorophenol	ND	*	0.64	5.3
2,4-Dichlorophenol	ND	*	0.54	5.3
2,4-Dimethylphenol	ND		0.53	5.3
2,4-Dinitrophenol	ND	*	2.3	11
2,4-Dinitrotoluene	ND	*	0.47	5.3
2,6-Dinitrotoluene	ND	*	0.42	5.3
2-Chloronaphthalene	ND	*	0.49	5.3
2-Chlorophenol	ND	*	0.56	5.3
2-Methylnaphthalene	ND	*	0.63	5.3
2-Methylphenol	ND		0.42	5.3
2-Nitroaniline	ND	*	0.44	11
2-Nitrophenol	ND	*	0.51	5.3
3,3'-Dichlorobenzidine	ND	*	0.42	5.3
3-Nitroaniline	ND	*	0.51	11
4,6-Dinitro-2-methylphenol	ND	*	2.3	11
4-Bromophenyl phenyl ether	ND	*	0.48	5.3
4-Chloro-3-methylphenol	ND	*	0.48	5.3
4-Chloroaniline	ND	*	0.62	5.3
4-Chlorophenyl phenyl ether	ND	*	0.37	5.3
4-Methylphenol	ND	*	0.38	11
4-Nitroaniline	ND	*	0.26	11
4-Nitrophenol	ND		1.6	11
Acenaphthene	ND	*	0.43	5.3
Acenaphthylene	ND	*	0.40	5.3
Acetophenone	ND	*	0.57	5.3
Anthracene	ND	*	0.30	5.3
Atrazine	ND	*	0.49	5.3
Benzaldehyde	ND	*	0.28	5.3
Benzo[a]anthracene	ND	*	0.38	5.3
Benzo[a]pyrene	ND	*	0.50	5.3
Benzo[b]fluoranthene	ND	*	0.36	5.3
Benzo[g,h,i]perylene	ND	*	0.37	5.3
Benzo[k]fluoranthene	ND	*	0.77	5.3
Bis(2-chloroethoxy)methane	ND	*	0.37	5.3
Bis(2-chloroethyl)ether	ND	*	0.42	5.3
Bis(2-ethylhexyl) phthalate	ND	*	1.9	5.3
Butyl benzyl phthalate	ND	*	0.44	5.3
Caprolactam	ND	*	2.3	5.3
Carbazole	ND	*	0.32	5.3
Chrysene	ND	*	0.35	5.3
Di-n-butyl phthalate	ND	*	0.33	5.3
Di-n-octyl phthalate	ND	*	0.50	5.3
Dibenz(a,h)anthracene	ND	*	0.44	5.3

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0044**

Lab Sample ID: 480-64676-1 | Date Sampled: 07/30/2014 1400
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09279.D
Dilution:	1.0			Initial Weight/Volume:	236.5 mL
Analysis Date:	08/02/2014 1839			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	ND	*	0.54	11
Diethyl phthalate	ND	*	0.23	5.3
Dimethyl phthalate	ND	*	0.38	5.3
Fluoranthene	ND	*	0.42	5.3
Fluorene	ND	*	0.38	5.3
Hexachlorobenzene	ND	*	0.54	5.3
Hexachlorobutadiene	ND		0.72	5.3
Hexachlorocyclopentadiene	ND		0.62	5.3
Hexachloroethane	ND		0.62	5.3
Indeno[1,2,3-cd]pyrene	ND	*	0.50	5.3
Isophorone	ND	*	0.45	5.3
N-Nitrosodi-n-propylamine	ND	*	0.57	5.3
N-Nitrosodiphenylamine	ND	*	0.54	5.3
Naphthalene	ND	*	0.80	5.3
Nitrobenzene	ND	*	0.31	5.3
Pentachlorophenol	ND		2.3	11
Phenanthrene	ND	*	0.47	5.3
Phenol	ND		0.41	5.3
Pyrene	ND	*	0.36	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	122		52 - 132
2-Fluorobiphenyl	91		48 - 120
2-Fluorophenol	74		20 - 120
Nitrobenzene-d5	72		46 - 120
p-Terphenyl-d14	94		67 - 150
Phenol-d5	55		16 - 120

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0045**

Lab Sample ID: 480-64676-2 | Date Sampled: 07/30/2014 1730
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09280.D
Dilution:	1.0			Initial Weight/Volume:	237 mL
Analysis Date:	08/02/2014 1903			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Biphenyl	ND	*	0.69	5.3
bis (2-chloroisopropyl) ether	ND	*	0.55	5.3
2,4,5-Trichlorophenol	ND	*	0.51	5.3
2,4,6-Trichlorophenol	ND	*	0.64	5.3
2,4-Dichlorophenol	ND	*	0.54	5.3
2,4-Dimethylphenol	ND		0.53	5.3
2,4-Dinitrophenol	ND	*	2.3	11
2,4-Dinitrotoluene	ND	*	0.47	5.3
2,6-Dinitrotoluene	ND	*	0.42	5.3
2-Chloronaphthalene	ND	*	0.49	5.3
2-Chlorophenol	ND	*	0.56	5.3
2-Methylnaphthalene	ND	*	0.63	5.3
2-Methylphenol	ND		0.42	5.3
2-Nitroaniline	ND	*	0.44	11
2-Nitrophenol	ND	*	0.51	5.3
3,3'-Dichlorobenzidine	ND	*	0.42	5.3
3-Nitroaniline	ND	*	0.51	11
4,6-Dinitro-2-methylphenol	ND	*	2.3	11
4-Bromophenyl phenyl ether	ND	*	0.47	5.3
4-Chloro-3-methylphenol	ND	*	0.47	5.3
4-Chloroaniline	ND	*	0.62	5.3
4-Chlorophenyl phenyl ether	ND	*	0.37	5.3
4-Methylphenol	ND	*	0.38	11
4-Nitroaniline	ND	*	0.26	11
4-Nitrophenol	ND		1.6	11
Acenaphthene	ND	*	0.43	5.3
Acenaphthylene	ND	*	0.40	5.3
Acetophenone	ND	*	0.57	5.3
Anthracene	ND	*	0.30	5.3
Atrazine	ND	*	0.49	5.3
Benzaldehyde	ND	*	0.28	5.3
Benzo[a]anthracene	ND	*	0.38	5.3
Benzo[a]pyrene	ND	*	0.50	5.3
Benzo[b]fluoranthene	ND	*	0.36	5.3
Benzo[g,h,i]perylene	ND	*	0.37	5.3
Benzo[k]fluoranthene	ND	*	0.77	5.3
Bis(2-chloroethoxy)methane	ND	*	0.37	5.3
Bis(2-chloroethyl)ether	ND	*	0.42	5.3
Bis(2-ethylhexyl) phthalate	ND	*	1.9	5.3
Butyl benzyl phthalate	ND	*	0.44	5.3
Caprolactam	ND	*	2.3	5.3
Carbazole	ND	*	0.32	5.3
Chrysene	ND	*	0.35	5.3
Di-n-butyl phthalate	ND	*	0.33	5.3
Di-n-octyl phthalate	ND	*	0.50	5.3
Dibenz(a,h)anthracene	ND	*	0.44	5.3

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0045**

Lab Sample ID: 480-64676-2 | Date Sampled: 07/30/2014 1730
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09280.D
Dilution:	1.0			Initial Weight/Volume:	237 mL
Analysis Date:	08/02/2014 1903			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	ND	*	0.54	11
Diethyl phthalate	ND	*	0.23	5.3
Dimethyl phthalate	ND	*	0.38	5.3
Fluoranthene	ND	*	0.42	5.3
Fluorene	ND	*	0.38	5.3
Hexachlorobenzene	ND	*	0.54	5.3
Hexachlorobutadiene	ND		0.72	5.3
Hexachlorocyclopentadiene	ND		0.62	5.3
Hexachloroethane	ND		0.62	5.3
Indeno[1,2,3-cd]pyrene	ND	*	0.50	5.3
Isophorone	ND	*	0.45	5.3
N-Nitrosodi-n-propylamine	ND	*	0.57	5.3
N-Nitrosodiphenylamine	ND	*	0.54	5.3
Naphthalene	ND	*	0.80	5.3
Nitrobenzene	ND	*	0.31	5.3
Pentachlorophenol	ND		2.3	11
Phenanthrene	ND	*	0.46	5.3
Phenol	ND		0.41	5.3
Pyrene	ND	*	0.36	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	118		52 - 132
2-Fluorobiphenyl	88		48 - 120
2-Fluorophenol	86		20 - 120
Nitrobenzene-d5	80		46 - 120
p-Terphenyl-d14	94		67 - 150
Phenol-d5	57		16 - 120

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0046**

Lab Sample ID: 480-64676-3 | Date Sampled: 07/31/2014 0800
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09281.D
Dilution:	1.0			Initial Weight/Volume:	229.7 mL
Analysis Date:	08/02/2014 1928			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Biphenyl	ND	*	0.71	5.4
bis (2-chloroisopropyl) ether	ND	*	0.57	5.4
2,4,5-Trichlorophenol	ND	*	0.52	5.4
2,4,6-Trichlorophenol	ND	*	0.66	5.4
2,4-Dichlorophenol	ND	*	0.56	5.4
2,4-Dimethylphenol	ND		0.54	5.4
2,4-Dinitrophenol	ND	*	2.4	11
2,4-Dinitrotoluene	ND	*	0.49	5.4
2,6-Dinitrotoluene	ND	*	0.44	5.4
2-Chloronaphthalene	ND	*	0.50	5.4
2-Chlorophenol	ND	*	0.58	5.4
2-Methylnaphthalene	ND	*	0.65	5.4
2-Methylphenol	ND		0.44	5.4
2-Nitroaniline	ND	*	0.46	11
2-Nitrophenol	ND	*	0.52	5.4
3,3'-Dichlorobenzidine	ND	*	0.44	5.4
3-Nitroaniline	ND	*	0.52	11
4,6-Dinitro-2-methylphenol	ND	*	2.4	11
4-Bromophenyl phenyl ether	ND	*	0.49	5.4
4-Chloro-3-methylphenol	ND	*	0.49	5.4
4-Chloroaniline	ND	*	0.64	5.4
4-Chlorophenyl phenyl ether	ND	*	0.38	5.4
4-Methylphenol	ND	*	0.39	11
4-Nitroaniline	ND	*	0.27	11
4-Nitrophenol	ND		1.7	11
Acenaphthene	ND	*	0.45	5.4
Acenaphthylene	ND	*	0.41	5.4
Acetophenone	ND	*	0.59	5.4
Anthracene	ND	*	0.30	5.4
Atrazine	ND	*	0.50	5.4
Benzaldehyde	ND	*	0.29	5.4
Benzo[a]anthracene	ND	*	0.39	5.4
Benzo[a]pyrene	ND	*	0.51	5.4
Benzo[b]fluoranthene	ND	*	0.37	5.4
Benzo[g,h,i]perylene	ND	*	0.38	5.4
Benzo[k]fluoranthene	ND	*	0.79	5.4
Bis(2-chloroethoxy)methane	ND	*	0.38	5.4
Bis(2-chloroethyl)ether	ND	*	0.44	5.4
Bis(2-ethylhexyl) phthalate	ND	*	2.0	5.4
Butyl benzyl phthalate	ND	*	0.46	5.4
Caprolactam	ND	*	2.4	5.4
Carbazole	ND	*	0.33	5.4
Chrysene	ND	*	0.36	5.4
Di-n-butyl phthalate	ND	*	0.34	5.4
Di-n-octyl phthalate	ND	*	0.51	5.4
Dibenz(a,h)anthracene	ND	*	0.46	5.4

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0046**

Lab Sample ID: 480-64676-3 | Date Sampled: 07/31/2014 0800
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09281.D
Dilution:	1.0			Initial Weight/Volume:	229.7 mL
Analysis Date:	08/02/2014 1928			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	ND	*	0.56	11
Diethyl phthalate	ND	*	0.24	5.4
Dimethyl phthalate	ND	*	0.39	5.4
Fluoranthene	ND	*	0.44	5.4
Fluorene	ND	*	0.39	5.4
Hexachlorobenzene	ND	*	0.56	5.4
Hexachlorobutadiene	ND		0.74	5.4
Hexachlorocyclopentadiene	ND		0.64	5.4
Hexachloroethane	ND		0.64	5.4
Indeno[1,2,3-cd]pyrene	ND	*	0.51	5.4
Isophorone	ND	*	0.47	5.4
N-Nitrosodi-n-propylamine	ND	*	0.59	5.4
N-Nitrosodiphenylamine	ND	*	0.56	5.4
Naphthalene	ND	*	0.83	5.4
Nitrobenzene	ND	*	0.32	5.4
Pentachlorophenol	ND		2.4	11
Phenanthrene	ND	*	0.48	5.4
Phenol	ND		0.42	5.4
Pyrene	ND	*	0.37	5.4

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	111		52 - 132
2-Fluorobiphenyl	90		48 - 120
2-Fluorophenol	86		20 - 120
Nitrobenzene-d5	81		46 - 120
p-Terphenyl-d14	81		67 - 150
Phenol-d5	55		16 - 120

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0047**

Lab Sample ID: 480-64676-4 | Date Sampled: 07/31/2014 1100
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09282.D
Dilution:	1.0			Initial Weight/Volume:	248.6 mL
Analysis Date:	08/02/2014 1953			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Biphenyl	ND	*	0.66	5.0
bis (2-chloroisopropyl) ether	ND	*	0.52	5.0
2,4,5-Trichlorophenol	ND	*	0.48	5.0
2,4,6-Trichlorophenol	ND	*	0.61	5.0
2,4-Dichlorophenol	ND	*	0.51	5.0
2,4-Dimethylphenol	ND		0.50	5.0
2,4-Dinitrophenol	ND	*	2.2	10
2,4-Dinitrotoluene	ND	*	0.45	5.0
2,6-Dinitrotoluene	ND	*	0.40	5.0
2-Chloronaphthalene	ND	*	0.46	5.0
2-Chlorophenol	ND	*	0.53	5.0
2-Methylnaphthalene	ND	*	0.60	5.0
2-Methylphenol	ND		0.40	5.0
2-Nitroaniline	ND	*	0.42	10
2-Nitrophenol	ND	*	0.48	5.0
3,3'-Dichlorobenzidine	ND	*	0.40	5.0
3-Nitroaniline	ND	*	0.48	10
4,6-Dinitro-2-methylphenol	ND	*	2.2	10
4-Bromophenyl phenyl ether	ND	*	0.45	5.0
4-Chloro-3-methylphenol	ND	*	0.45	5.0
4-Chloroaniline	ND	*	0.59	5.0
4-Chlorophenyl phenyl ether	ND	*	0.35	5.0
4-Methylphenol	ND	*	0.36	10
4-Nitroaniline	ND	*	0.25	10
4-Nitrophenol	ND		1.5	10
Acenaphthene	1.1	J *	0.41	5.0
Acenaphthylene	ND	*	0.38	5.0
Acetophenone	ND	*	0.54	5.0
Anthracene	0.42	J *	0.28	5.0
Atrazine	ND	*	0.46	5.0
Benzaldehyde	ND	*	0.27	5.0
Benzo[a]anthracene	ND	*	0.36	5.0
Benzo[a]pyrene	ND	*	0.47	5.0
Benzo[b]fluoranthene	ND	*	0.34	5.0
Benzo[g,h,i]perylene	ND	*	0.35	5.0
Benzo[k]fluoranthene	ND	*	0.73	5.0
Bis(2-chloroethoxy)methane	ND	*	0.35	5.0
Bis(2-chloroethyl)ether	ND	*	0.40	5.0
Bis(2-ethylhexyl) phthalate	3.8	J *	1.8	5.0
Butyl benzyl phthalate	ND	*	0.42	5.0
Caprolactam	ND	*	2.2	5.0
Carbazole	ND	*	0.30	5.0
Chrysene	ND	*	0.33	5.0
Di-n-butyl phthalate	ND	*	0.31	5.0
Di-n-octyl phthalate	ND	*	0.47	5.0
Dibenz(a,h)anthracene	ND	*	0.42	5.0

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0047**

Lab Sample ID: 480-64676-4 | Date Sampled: 07/31/2014 1100
Client Matrix: Water | Date Received: 07/31/2014 1550

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-195843	Lab File ID:	W09282.D
Dilution:	1.0			Initial Weight/Volume:	248.6 mL
Analysis Date:	08/02/2014 1953			Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	ND	*	0.51	10
Diethyl phthalate	ND	*	0.22	5.0
Dimethyl phthalate	ND	*	0.36	5.0
Fluoranthene	ND	*	0.40	5.0
Fluorene	0.89	J *	0.36	5.0
Hexachlorobenzene	ND	*	0.51	5.0
Hexachlorobutadiene	ND		0.68	5.0
Hexachlorocyclopentadiene	ND		0.59	5.0
Hexachloroethane	ND		0.59	5.0
Indeno[1,2,3-cd]pyrene	ND	*	0.47	5.0
Isophorone	ND	*	0.43	5.0
N-Nitrosodi-n-propylamine	ND	*	0.54	5.0
N-Nitrosodiphenylamine	ND	*	0.51	5.0
Naphthalene	ND	*	0.76	5.0
Nitrobenzene	ND	*	0.29	5.0
Pentachlorophenol	ND		2.2	10
Phenanthrene	1.2	J *	0.44	5.0
Phenol	ND		0.39	5.0
Pyrene	ND	*	0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	128		52 - 132
2-Fluorobiphenyl	102		48 - 120
2-Fluorophenol	88		20 - 120
Nitrobenzene-d5	91		46 - 120
p-Terphenyl-d14	95		67 - 150
Phenol-d5	60		16 - 120

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0044**

Lab Sample ID: 480-64676-1 | Date Sampled: 07/30/2014 1400
Client Matrix: Water | Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	990.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 0934			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.038	0.061
PCB-1221	ND		0.038	0.061
PCB-1232	ND		0.038	0.061
PCB-1242	ND		0.038	0.061
PCB-1248	ND		0.038	0.061
PCB-1254	ND		0.031	0.061
PCB-1260	ND		0.031	0.061
PCB-1262	ND		0.031	0.061
PCB-1268	ND		0.031	0.061
Polychlorinated biphenyls, Total	ND		0.038	0.061

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	53		10 - 158
Tetrachloro-m-xylene	37		25 - 151

Client: Horizon Environmental Services

Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0044**

Lab Sample ID: 480-64676-1
Client Matrix: Water

Date Sampled: 07/30/2014 1400
Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	990.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 0934			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	54		10 - 158
Tetrachloro-m-xylene	76		25 - 151

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0045**

Lab Sample ID: 480-64676-2 | Date Sampled: 07/30/2014 1730
Client Matrix: Water | Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	1027.7 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 0950			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.037	0.058
PCB-1221	ND		0.037	0.058
PCB-1232	ND		0.037	0.058
PCB-1242	ND		0.037	0.058
PCB-1248	ND		0.037	0.058
PCB-1254	ND		0.030	0.058
PCB-1260	ND		0.030	0.058
PCB-1262	ND		0.030	0.058
PCB-1268	ND		0.030	0.058
Polychlorinated biphenyls, Total	ND		0.037	0.058

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	74		10 - 158
Tetrachloro-m-xylene	85		25 - 151

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0045**

Lab Sample ID: 480-64676-2 | Date Sampled: 07/30/2014 1730
Client Matrix: Water | Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	1027.7 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 0950			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	78		10 - 158
Tetrachloro-m-xylene	86		25 - 151

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0046**

Lab Sample ID: 480-64676-3 | Date Sampled: 07/31/2014 0800
Client Matrix: Water | Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	1020.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 1006			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.037	0.059
PCB-1221	ND		0.037	0.059
PCB-1232	ND		0.037	0.059
PCB-1242	ND		0.037	0.059
PCB-1248	ND		0.037	0.059
PCB-1254	ND		0.030	0.059
PCB-1260	ND		0.030	0.059
PCB-1262	ND		0.030	0.059
PCB-1268	ND		0.030	0.059
Polychlorinated biphenyls, Total	ND		0.037	0.059

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	65		10 - 158
Tetrachloro-m-xylene	81		25 - 151

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0046**

Lab Sample ID: 480-64676-3 | Date Sampled: 07/31/2014 0800
Client Matrix: Water | Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	1020.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 1006			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	69		10 - 158
Tetrachloro-m-xylene	80		25 - 151

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0047**

Lab Sample ID: 480-64676-4 | Date Sampled: 07/31/2014 1100
Client Matrix: Water | Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	1027 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 1022			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.037	0.058
PCB-1221	ND		0.037	0.058
PCB-1232	ND		0.037	0.058
PCB-1242	ND		0.037	0.058
PCB-1248	ND		0.037	0.058
PCB-1254	ND		0.030	0.058
PCB-1260	ND		0.030	0.058
PCB-1262	ND		0.030	0.058
PCB-1268	ND		0.030	0.058
Polychlorinated biphenyls, Total	ND		0.037	0.058

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	61		10 - 158
Tetrachloro-m-xylene	80		25 - 151

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0047**

Lab Sample ID: 480-64676-4 | Date Sampled: 07/31/2014 1100
Client Matrix: Water | Date Received: 07/31/2014 1550

8082A Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	8082A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-195771	Initial Weight/Volume:	1027 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	08/01/2014 1022			Injection Volume:	1 uL
Prep Date:	07/31/2014 1758			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	65		10 - 158
Tetrachloro-m-xylene	75		25 - 151

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0044**

Lab Sample ID: 480-64676-1 | Date Sampled: 07/30/2014 1400
Client Matrix: Water | Date Received: 07/31/2014 1550

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1729			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.11	J	0.060	0.20
Antimony	ND		0.0068	0.020
Arsenic	ND		0.0056	0.015
Barium	0.084		0.00070	0.0020
Beryllium	ND		0.00030	0.0020
Cadmium	ND		0.00050	0.0020
Calcium	172		0.10	0.50
Chromium	0.0011	J	0.0010	0.0040
Cobalt	0.0040		0.00063	0.0040
Copper	0.0019	J	0.0016	0.010
Iron	0.047	J	0.019	0.050
Lead	ND		0.0030	0.010
Magnesium	39.7		0.043	0.20
Manganese	0.68		0.00040	0.0030
Nickel	1.0		0.0013	0.010
Potassium	7.8		0.10	0.50
Selenium	0.0093	J	0.0087	0.025
Silver	ND		0.0017	0.0060
Sodium	104		0.32	1.0
Thallium	ND		0.010	0.020
Vanadium	ND		0.0015	0.0050
Zinc	0.0080	J	0.0015	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-196076	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-195827	Lab File ID:	H08014W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	08/01/2014 1349			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0900				

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

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0045**

Lab Sample ID: 480-64676-2 | Date Sampled: 07/30/2014 1730
Client Matrix: Water | Date Received: 07/31/2014 1550

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1743			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.092	J	0.060	0.20
Antimony	ND		0.0068	0.020
Arsenic	ND		0.0056	0.015
Barium	0.083		0.00070	0.0020
Beryllium	ND		0.00030	0.0020
Cadmium	ND		0.00050	0.0020
Calcium	181		0.10	0.50
Chromium	0.0011	J	0.0010	0.0040
Cobalt	0.0021	J	0.00063	0.0040
Copper	0.0021	J	0.0016	0.010
Iron	0.038	J	0.019	0.050
Lead	ND		0.0030	0.010
Magnesium	43.7		0.043	0.20
Manganese	0.40		0.00040	0.0030
Nickel	0.76		0.0013	0.010
Potassium	8.4		0.10	0.50
Selenium	ND		0.0087	0.025
Silver	ND		0.0017	0.0060
Sodium	109		0.32	1.0
Thallium	ND		0.010	0.020
Zinc	0.0043	J	0.0015	0.010

Analysis Method:	6010C	Analysis Batch:	480-196174	Instrument ID:	ICAP2
Prep Method:	3005A	Prep Batch:	480-195814	Lab File ID:	I2080414A-1.asc
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2014 1120			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Vanadium	0.0045	J	0.0030	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-196076	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-195827	Lab File ID:	H08014W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	08/01/2014 1351			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0900				

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

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0046**

Lab Sample ID: 480-64676-3 | Date Sampled: 07/31/2014 0800
Client Matrix: Water | Date Received: 07/31/2014 1550

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1745			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.082	J	0.060	0.20
Antimony	ND		0.0068	0.020
Arsenic	ND		0.0056	0.015
Barium	0.072		0.00070	0.0020
Beryllium	ND		0.00030	0.0020
Cadmium	ND		0.00050	0.0020
Calcium	195		0.10	0.50
Chromium	0.0019	J	0.0010	0.0040
Cobalt	0.0025	J	0.00063	0.0040
Copper	0.0025	J	0.0016	0.010
Iron	0.048	J	0.019	0.050
Lead	ND		0.0030	0.010
Magnesium	46.6		0.043	0.20
Manganese	0.49		0.00040	0.0030
Nickel	0.78		0.0013	0.010
Potassium	8.6		0.10	0.50
Selenium	ND		0.0087	0.025
Silver	ND		0.0017	0.0060
Sodium	104		0.32	1.0
Thallium	ND		0.010	0.020
Zinc	0.0035	J	0.0015	0.010

Analysis Method:	6010C	Analysis Batch:	480-196174	Instrument ID:	ICAP2
Prep Method:	3005A	Prep Batch:	480-195814	Lab File ID:	I2080414A-1.asc
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2014 1123			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Vanadium	0.0038	J	0.0030	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-196076	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-195827	Lab File ID:	H08014W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	08/01/2014 1356			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0900				

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

Client: Horizon Environmental Services | Job Number: 480-64676-1

Client Sample ID: **AS-WTPE-14-0047**

Lab Sample ID: 480-64676-4 | Date Sampled: 07/31/2014 1100
Client Matrix: Water | Date Received: 07/31/2014 1550

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1757			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	0.11	J	0.060	0.20
Antimony	ND		0.0068	0.020
Arsenic	ND		0.0056	0.015
Barium	0.072		0.00070	0.0020
Beryllium	ND		0.00030	0.0020
Cadmium	ND		0.00050	0.0020
Calcium	192		0.10	0.50
Chromium	0.0018	J	0.0010	0.0040
Cobalt	0.0028	J	0.00063	0.0040
Copper	0.0026	J	0.0016	0.010
Iron	0.039	J	0.019	0.050
Lead	ND		0.0030	0.010
Magnesium	45.4		0.043	0.20
Manganese	0.42		0.00040	0.0030
Nickel	0.84		0.0013	0.010
Potassium	8.3		0.10	0.50
Selenium	ND		0.0087	0.025
Silver	ND		0.0017	0.0060
Sodium	102		0.32	1.0
Thallium	ND		0.010	0.020
Zinc	0.0035	J	0.0015	0.010

Analysis Method:	6010C	Analysis Batch:	480-196174	Instrument ID:	ICAP2
Prep Method:	3005A	Prep Batch:	480-195814	Lab File ID:	I2080414A-1.asc
Dilution:	2.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/04/2014 1126			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Vanadium	0.0046	J	0.0030	0.010

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-196076	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-195827	Lab File ID:	H08014W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	08/01/2014 1358			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0900				

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

Client: Horizon Environmental Services

Job Number: 480-64676-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-64676-1	AS-WTPE-14-0044	99	97	102	100
480-64676-2	AS-WTPE-14-0045	98	100	100	100
480-64676-3	AS-WTPE-14-0046	105	105	103	101
480-64676-4	AS-WTPE-14-0047	101	101	100	101
MB 480-195781/9		101	99	102	101
LCS 480-195781/6		102	96	101	102

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: Horizon Environmental Services

Job Number: 480-64676-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
480-64676-1	AS-WTPE-14-0044	74	55	72	91	122	94
480-64676-2	AS-WTPE-14-0045	86	57	80	88	118	94
480-64676-3	AS-WTPE-14-0046	86	55	81	90	111	81
480-64676-4	AS-WTPE-14-0047	88	60	91	102	128	95
MB 480-195843/1-A		100	66	96	96	114	107
LCS 480-195843/2-A		119	78	112	111	129	118
LCSD 480-195843/3-A		92	65	76	73	93	94

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	20-120
PHL = Phenol-d5	16-120
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TBP = 2,4,6-Tribromophenol	52-132
TPH = p-Terphenyl-d14	67-150

Client: Horizon Environmental Services

Job Number: 480-64676-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
480-64676-1	AS-WTPE-14-0044	37	76	53	54
480-64676-2	AS-WTPE-14-0045	85	86	74	78
480-64676-3	AS-WTPE-14-0046	81	80	65	69
480-64676-4	AS-WTPE-14-0047	80	75	61	65
MB 480-195771/1-A		79	77	52	55
LCS 480-195771/2-A		85	83	26	26
LCSD 480-195771/3-A		79	77	50	51

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	25-151
DCB = DCB Decachlorobiphenyl	10-158

Client: Horizon Environmental Services

Job Number: 480-64676-1

Method Blank - Batch: 480-195781

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-195781/9	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q6679.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/31/2014 2350	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/31/2014 2350				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	2.5
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Method Blank - Batch: 480-195781

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-195781/9	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q6679.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/31/2014 2350	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/31/2014 2350				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	66 - 137
Toluene-d8 (Surr)	102	71 - 126
4-Bromofluorobenzene (Surr)	101	73 - 120
Dibromofluoromethane (Surr)	101	60 - 140

Lab Control Sample - Batch: 480-195781

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-195781/6	Analysis Batch:	480-195781	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q6676.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/31/2014 2239	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/31/2014 2239				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	23.9	96	71 - 129	
1,1-Dichloroethene	25.0	24.5	98	58 - 121	
1,2-Dichlorobenzene	25.0	24.5	98	80 - 124	
1,2-Dichloroethane	25.0	24.3	97	75 - 127	
Benzene	25.0	24.2	97	71 - 124	
Chlorobenzene	25.0	24.9	100	72 - 120	
cis-1,2-Dichloroethene	25.0	24.5	98	74 - 124	
Ethylbenzene	25.0	25.3	101	77 - 123	
Methyl tert-butyl ether	25.0	24.3	97	64 - 127	
Tetrachloroethene	25.0	25.4	102	74 - 122	
Toluene	25.0	24.3	97	80 - 122	
trans-1,2-Dichloroethene	25.0	24.7	99	73 - 127	
Trichloroethene	25.0	23.8	95	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	66 - 137
Toluene-d8 (Surr)	101	71 - 126
4-Bromofluorobenzene (Surr)	102	73 - 120
Dibromofluoromethane (Surr)	102	60 - 140

Client: Horizon Environmental Services

Job Number: 480-64676-1

Method Blank - Batch: 480-195843

Method: 8270D
Preparation: 3510C

Lab Sample ID:	MB 480-195843/1-A	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Client Matrix:	Water	Prep Batch:	480-195843	Lab File ID:	W09271.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	08/02/2014 1519	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biphenyl	ND		0.65	5.0
bis (2-chloroisopropyl) ether	ND		0.52	5.0
2,4,5-Trichlorophenol	ND		0.48	5.0
2,4,6-Trichlorophenol	ND		0.61	5.0
2,4-Dichlorophenol	ND		0.51	5.0
2,4-Dimethylphenol	ND		0.50	5.0
2,4-Dinitrophenol	ND		2.2	10
2,4-Dinitrotoluene	ND		0.45	5.0
2,6-Dinitrotoluene	ND		0.40	5.0
2-Chloronaphthalene	ND		0.46	5.0
2-Chlorophenol	ND		0.53	5.0
2-Methylnaphthalene	ND		0.60	5.0
2-Methylphenol	ND		0.40	5.0
2-Nitroaniline	ND		0.42	10
2-Nitrophenol	ND		0.48	5.0
3,3'-Dichlorobenzidine	ND		0.40	5.0
3-Nitroaniline	ND		0.48	10
4,6-Dinitro-2-methylphenol	ND		2.2	10
4-Bromophenyl phenyl ether	ND		0.45	5.0
4-Chloro-3-methylphenol	ND		0.45	5.0
4-Chloroaniline	ND		0.59	5.0
4-Chlorophenyl phenyl ether	ND		0.35	5.0
4-Methylphenol	ND		0.36	10
4-Nitroaniline	ND		0.25	10
4-Nitrophenol	ND		1.5	10
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Acetophenone	ND		0.54	5.0
Anthracene	ND		0.28	5.0
Atrazine	ND		0.46	5.0
Benzaldehyde	0.365	J	0.27	5.0
Benzo[a]anthracene	ND		0.36	5.0
Benzo[a]pyrene	ND		0.47	5.0
Benzo[b]fluoranthene	ND		0.34	5.0
Benzo[g,h,i]perylene	ND		0.35	5.0
Benzo[k]fluoranthene	ND		0.73	5.0
Bis(2-chloroethoxy)methane	ND		0.35	5.0
Bis(2-chloroethyl)ether	ND		0.40	5.0
Bis(2-ethylhexyl) phthalate	ND		1.8	5.0
Butyl benzyl phthalate	ND		0.42	5.0
Caprolactam	ND		2.2	5.0
Carbazole	ND		0.30	5.0
Chrysene	ND		0.33	5.0
Di-n-butyl phthalate	ND		0.31	5.0
Di-n-octyl phthalate	ND		0.47	5.0

Client: Horizon Environmental Services

Job Number: 480-64676-1

Method Blank - Batch: 480-195843

Method: 8270D
Preparation: 3510C

Lab Sample ID:	MB 480-195843/1-A	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Client Matrix:	Water	Prep Batch:	480-195843	Lab File ID:	W09271.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	08/02/2014 1519	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	ND		0.42	5.0
Dibenzofuran	ND		0.51	10
Diethyl phthalate	ND		0.22	5.0
Dimethyl phthalate	ND		0.36	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Hexachlorobenzene	ND		0.51	5.0
Hexachlorobutadiene	ND		0.68	5.0
Hexachlorocyclopentadiene	ND		0.59	5.0
Hexachloroethane	ND		0.59	5.0
Indeno[1,2,3-cd]pyrene	ND		0.47	5.0
Isophorone	ND		0.43	5.0
N-Nitrosodi-n-propylamine	ND		0.54	5.0
N-Nitrosodiphenylamine	ND		0.51	5.0
Naphthalene	ND		0.76	5.0
Nitrobenzene	ND		0.29	5.0
Pentachlorophenol	ND		2.2	10
Phenanthrene	ND		0.44	5.0
Phenol	ND		0.39	5.0
Pyrene	ND		0.34	5.0

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	114	52 - 132
2-Fluorobiphenyl	96	48 - 120
2-Fluorophenol	100	20 - 120
Nitrobenzene-d5	96	46 - 120
p-Terphenyl-d14	107	67 - 150
Phenol-d5	66	16 - 120

Client: Horizon Environmental Services Job Number: 480-64676-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-195843

Method: 8270D
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-195843/2-A	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Client Matrix:	Water	Prep Batch:	480-195843	Lab File ID:	W09272.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	08/02/2014 1544	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-195843/3-A	Analysis Batch:	480-196033	Instrument ID:	HP5973W
Client Matrix:	Water	Prep Batch:	480-195843	Lab File ID:	W09273.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	08/02/2014 1609	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	08/01/2014 0825			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrophenol	100	68	42 - 153	38	22		*
2-Chlorophenol	93	69	48 - 120	30	25		*
4-Chloro-3-methylphenol	101	73	64 - 120	32	27		*
4-Nitrophenol	63	43	16 - 120	38	48		
Acenaphthene	88	62	60 - 120	35	24		*
Bis(2-ethylhexyl) phthalate	91	73	53 - 158	22	15		*
Fluorene	92	63	55 - 143	37	15		*
Hexachloroethane	87	57	14 - 101	42	46		
N-Nitrosodi-n-propylamine	88	59	56 - 120	39	31		*
Pentachlorophenol	89	66	39 - 136	30	37		
Phenol	61	50	17 - 120	21	34		
Pyrene	96	68	58 - 136	35	19		*

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	129	93	52 - 132
2-Fluorobiphenyl	111	73	48 - 120
2-Fluorophenol	119	92	20 - 120
Nitrobenzene-d5	112	76	46 - 120
p-Terphenyl-d14	118	94	67 - 150
Phenol-d5	78	65	16 - 120

Client: Horizon Environmental Services

Job Number: 480-64676-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-195843

Method: 8270D
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-195843/2-A	Units: ug/L		LCSD Lab Sample ID:	LCSD 480-195843/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	08/02/2014 1544			Analysis Date:	08/02/2014 1609
Prep Date:	08/01/2014 0825			Prep Date:	08/01/2014 0825
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
2,4-Dinitrophenol	64.0	64.0	63.7	43.5	*
2-Chlorophenol	32.0	32.0	29.8	21.9	*
4-Chloro-3-methylphenol	32.0	32.0	32.3	23.4	*
4-Nitrophenol	64.0	64.0	40.3	27.6	
Acenaphthene	32.0	32.0	28.2	19.7	*
Bis(2-ethylhexyl) phthalate	32.0	32.0	29.1	23.3	*
Fluorene	32.0	32.0	29.5	20.2	*
Hexachloroethane	32.0	32.0	27.7	18.1	
N-Nitrosodi-n-propylamine	32.0	32.0	28.2	19.0	*
Pentachlorophenol	64.0	64.0	56.8	42.1	
Phenol	32.0	32.0	19.6	15.9	
Pyrene	32.0	32.0	30.8	21.7	*

Client: Horizon Environmental Services

Job Number: 480-64676-1

Method Blank - Batch: 480-195771

Method: 8082A
Preparation: 3510C

Lab Sample ID:	MB 480-195771/1-A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-195771	Lab File ID:	7_342_099.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	08/01/2014 0846	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	07/31/2014 1758			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	ND		0.038	0.060
PCB-1221	ND		0.038	0.060
PCB-1232	ND		0.038	0.060
PCB-1242	ND		0.038	0.060
PCB-1248	ND		0.038	0.060
PCB-1254	ND		0.031	0.060
PCB-1260	ND		0.031	0.060
PCB-1262	ND		0.031	0.060
PCB-1268	ND		0.031	0.060
Polychlorinated biphenyls, Total	ND		0.038	0.060

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	52	10 - 158
Tetrachloro-m-xylene	79	25 - 151

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	55	10 - 158
Tetrachloro-m-xylene	77	25 - 151

Client: Horizon Environmental Services Job Number: 480-64676-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-195771

Method: 8082A
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-195771/2-A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-195771	Lab File ID:	7_342_100.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	08/01/2014 0902	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	07/31/2014 1758			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 480-195771/3-A	Analysis Batch:	480-195854	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-195771	Lab File ID:	7_342_101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	08/01/2014 0918	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	07/31/2014 1758			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
PCB-1016	82	90	48 - 162	10	50		
PCB-1260	55	86	38 - 148	44	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	26	50	10 - 158
Tetrachloro-m-xylene	85	79	25 - 151

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	26	51	10 - 158
Tetrachloro-m-xylene	83	77	25 - 151

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-195771

Method: 8082A
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-195771/2-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-195771/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	08/01/2014 0902			Analysis Date:	08/01/2014 0918
Prep Date:	07/31/2014 1758			Prep Date:	07/31/2014 1758
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
PCB-1016	1.00	1.00	0.815	0.903
PCB-1260	1.00	1.00	0.551	0.858

Client: Horizon Environmental Services

Job Number: 480-64676-1

Method Blank - Batch: 480-195814

Method: 6010C
Preparation: 3005A

Lab Sample ID:	MB 480-195814/1-A	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1724	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	ND		0.060	0.20
Antimony	ND		0.0068	0.020
Arsenic	ND		0.0056	0.015
Barium	ND		0.00070	0.0020
Beryllium	ND		0.00030	0.0020
Cadmium	ND		0.00050	0.0020
Calcium	ND		0.10	0.50
Chromium	ND		0.0010	0.0040
Cobalt	ND		0.00063	0.0040
Copper	ND		0.0016	0.010
Iron	ND		0.019	0.050
Lead	ND		0.0030	0.010
Magnesium	ND		0.043	0.20
Manganese	ND		0.00040	0.0030
Nickel	ND		0.0013	0.010
Potassium	ND		0.10	0.50
Selenium	ND		0.0087	0.025
Silver	ND		0.0017	0.0060
Sodium	ND		0.32	1.0
Thallium	ND		0.010	0.020
Vanadium	ND		0.0015	0.0050
Zinc	ND		0.0015	0.010

Client: Horizon Environmental Services

Job Number: 480-64676-1

Lab Control Sample - Batch: 480-195814

Method: 6010C
Preparation: 3005A

Lab Sample ID:	LCS 480-195814/2-A	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1726	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	10.0	10.40	104	80 - 120	
Antimony	0.200	0.202	101	80 - 120	
Arsenic	0.200	0.206	103	80 - 120	
Barium	0.200	0.215	108	80 - 120	
Beryllium	0.200	0.201	100	80 - 120	
Cadmium	0.200	0.205	103	80 - 120	
Calcium	10.0	9.97	100	80 - 120	
Chromium	0.200	0.199	99	80 - 120	
Cobalt	0.200	0.203	102	80 - 120	
Copper	0.200	0.199	99	80 - 120	
Iron	10.0	9.97	100	80 - 120	
Lead	0.200	0.206	103	80 - 120	
Magnesium	10.0	10.59	106	80 - 120	
Manganese	0.200	0.206	103	80 - 120	
Nickel	0.200	0.195	98	80 - 120	
Potassium	10.0	9.72	97	80 - 120	
Selenium	0.200	0.204	102	80 - 120	
Silver	0.0500	0.0519	104	80 - 120	
Sodium	10.0	9.90	99	80 - 120	
Thallium	0.200	0.207	104	80 - 120	
Vanadium	0.200	0.211	105	80 - 120	
Zinc	0.200	0.201	101	80 - 120	

Client: Horizon Environmental Services

Job Number: 480-64676-1

Post Digestion Spike - Batch: 480-195814

Method: 6010C
Preparation: 3005A

Lab Sample ID:	480-64676-1	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1735	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	0.11	J	10.0	10.44	103	75 - 125	
Antimony	ND		0.200	0.214	107	75 - 125	
Arsenic	ND		0.200	0.220	110	75 - 125	
Barium	0.084		0.200	0.285	100	75 - 125	
Beryllium	ND		0.200	0.206	103	75 - 125	
Cadmium	ND		0.200	0.220	110	75 - 125	
Calcium	172		10.0	181.1	NC	75 - 125	
Chromium	0.0011	J	0.200	0.206	102	75 - 125	
Cobalt	0.0040		0.200	0.218	107	75 - 125	
Copper	0.0019	J	0.200	0.209	104	75 - 125	
Iron	0.047	J	10.0	10.08	100	75 - 125	
Lead	ND		0.200	0.213	107	75 - 125	
Magnesium	39.7		10.0	49.61	99	75 - 125	
Manganese	0.68		0.200	0.869	96	75 - 125	
Nickel	1.0		0.200	1.21	101	75 - 125	
Potassium	7.8		10.0	17.86	100	75 - 125	
Selenium	0.0093	J	0.200	0.233	112	75 - 125	
Silver	ND		0.0500	0.0500	100	75 - 125	
Sodium	104		10.0	113.5	NC	75 - 125	
Thallium	ND		0.200	0.214	107	75 - 125	
Vanadium	ND		0.200	0.212	106	75 - 125	
Zinc	0.0080	J	0.200	0.207	100	75 - 125	

Client: Horizon Environmental Services

Job Number: 480-64676-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-195814

Method: 6010C
Preparation: 3005A

MS Lab Sample ID:	480-64676-1	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1737			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				
Leach Date:	N/A				

MSD Lab Sample ID:	480-64676-1	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1740			Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	103	102	75 - 125	1	20		
Antimony	102	102	75 - 125	0	20		
Arsenic	104	103	75 - 125	1	20		
Barium	100	102	75 - 125	1	20		
Beryllium	97	98	75 - 125	0	20		
Cadmium	104	104	75 - 125	0	20		
Calcium	68	123	75 - 125	3	20	4	4
Chromium	94	95	75 - 125	1	20		
Cobalt	101	101	75 - 125	1	20		
Copper	100	100	75 - 125	0	20		
Iron	95	96	75 - 125	0	20		
Lead	101	101	75 - 125	1	20		
Magnesium	93	103	75 - 125	2	20		
Manganese	91	101	75 - 125	2	20		
Nickel	95	107	75 - 125	2	20	4	4
Potassium	99	99	75 - 125	0	20		
Selenium	104	103	75 - 125	0	20		
Silver	105	104	75 - 125	1	20		
Sodium	88	111	75 - 125	2	20	4	4
Thallium	101	102	75 - 125	1	20		
Vanadium	100	101	75 - 125	1	20		
Zinc	96	97	75 - 125	1	20		

Client: Horizon Environmental Services

Job Number: 480-64676-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-195814

Method: 6010C
Preparation: 3005A

MS Lab Sample ID:	480-64676-1	Units:	mg/L	MSD Lab Sample ID:	480-64676-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	08/01/2014 1737			Analysis Date:	08/01/2014 1740
Prep Date:	08/01/2014 0630			Prep Date:	08/01/2014 0630
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Aluminum	0.11	J	10.0	10.0	10.37		10.31	
Antimony	ND		0.200	0.200	0.204		0.203	
Arsenic	ND		0.200	0.200	0.208		0.207	
Barium	0.084		0.200	0.200	0.285		0.288	
Beryllium	ND		0.200	0.200	0.195		0.195	
Cadmium	ND		0.200	0.200	0.208		0.207	
Calcium	172		10.0	10.0	178.6	4	184.1	4
Chromium	0.0011	J	0.200	0.200	0.189		0.191	
Cobalt	0.0040		0.200	0.200	0.205		0.206	
Copper	0.0019	J	0.200	0.200	0.202		0.202	
Iron	0.047	J	10.0	10.0	9.59		9.62	
Lead	ND		0.200	0.200	0.201		0.202	
Magnesium	39.7		10.0	10.0	48.94		49.99	
Manganese	0.68		0.200	0.200	0.859		0.879	
Nickel	1.0		0.200	0.200	1.19	4	1.22	4
Potassium	7.8		10.0	10.0	17.74		17.75	
Selenium	0.0093	J	0.200	0.200	0.216		0.216	
Silver	ND		0.0500	0.0500	0.0524		0.0519	
Sodium	104		10.0	10.0	112.8	4	115.1	4
Thallium	ND		0.200	0.200	0.203		0.204	
Vanadium	ND		0.200	0.200	0.201		0.203	
Zinc	0.0080	J	0.200	0.200	0.199		0.202	

Client: Horizon Environmental Services

Job Number: 480-64676-1

Serial Dilution - Batch: 480-195814

Method: 6010C
Preparation: 3005A

Lab Sample ID:	480-64676-1	Analysis Batch:	480-196089	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-195814	Lab File ID:	i1080114b-8.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2014 1732	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0630				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Aluminum	0.11	J	ND	NC	10	
Antimony	ND		ND	NC	10	
Arsenic	ND		ND	NC	10	
Barium	0.084		0.0856	1.6	10	
Beryllium	ND		ND	NC	10	
Cadmium	ND		ND	NC	10	
Calcium	172		170.0	1.1	10	
Chromium	0.0011	J	ND	NC	10	
Cobalt	0.0040		0.00390	NC	10	J
Copper	0.0019	J	ND	NC	10	
Iron	0.047	J	ND	NC	10	
Lead	ND		ND	NC	10	
Magnesium	39.7		38.64	2.6	10	
Manganese	0.68		0.677	0.11	10	
Nickel	1.0		0.963	4.1	10	
Potassium	7.8		7.08	9.4	10	
Selenium	0.0093	J	ND	NC	10	
Silver	ND		ND	NC	10	
Sodium	104		98.95	4.9	10	
Thallium	ND		ND	NC	10	
Vanadium	ND		ND	NC	10	
Zinc	0.0080	J	0.0127	NC	10	J

Client: Horizon Environmental Services

Job Number: 480-64676-1

Method Blank - Batch: 480-195827

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-195827/1-A	Analysis Batch:	480-196076	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-195827	Lab File ID:	H08014W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	08/01/2014 1315	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.00012	0.00020

Lab Control Sample - Batch: 480-195827

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-195827/2-A	Analysis Batch:	480-196076	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-195827	Lab File ID:	H08014W1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	08/01/2014 1501	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2014 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00667	0.00643	96	80 - 120	

DATA REPORTING QUALIFIERS

Client: Horizon Environmental Services Job Number: 480-64676-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Horizon Environmental Services Job Number: 480-64676-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-195781					
LCS 480-195781/6	Lab Control Sample	T	Water	8260C	
MB 480-195781/9	Method Blank	T	Water	8260C	
480-64676-1	AS-WTPE-14-0044	T	Water	8260C	
480-64676-2	AS-WTPE-14-0045	T	Water	8260C	
480-64676-3	AS-WTPE-14-0046	T	Water	8260C	
480-64676-4	AS-WTPE-14-0047	T	Water	8260C	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 480-195843					
LCS 480-195843/2-A	Lab Control Sample	T	Water	3510C	
LCSD 480-195843/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 480-195843/1-A	Method Blank	T	Water	3510C	
480-64676-1	AS-WTPE-14-0044	T	Water	3510C	
480-64676-2	AS-WTPE-14-0045	T	Water	3510C	
480-64676-3	AS-WTPE-14-0046	T	Water	3510C	
480-64676-4	AS-WTPE-14-0047	T	Water	3510C	
Analysis Batch:480-196033					
LCS 480-195843/2-A	Lab Control Sample	T	Water	8270D	480-195843
LCSD 480-195843/3-A	Lab Control Sample Duplicate	T	Water	8270D	480-195843
MB 480-195843/1-A	Method Blank	T	Water	8270D	480-195843
480-64676-1	AS-WTPE-14-0044	T	Water	8270D	480-195843
480-64676-2	AS-WTPE-14-0045	T	Water	8270D	480-195843
480-64676-3	AS-WTPE-14-0046	T	Water	8270D	480-195843
480-64676-4	AS-WTPE-14-0047	T	Water	8270D	480-195843

Report Basis
T = Total

Client: Horizon Environmental Services Job Number: 480-64676-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-195771					
LCS 480-195771/2-A	Lab Control Sample	T	Water	3510C	
LCSD 480-195771/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 480-195771/1-A	Method Blank	T	Water	3510C	
480-64676-1	AS-WTPE-14-0044	T	Water	3510C	
480-64676-2	AS-WTPE-14-0045	T	Water	3510C	
480-64676-3	AS-WTPE-14-0046	T	Water	3510C	
480-64676-4	AS-WTPE-14-0047	T	Water	3510C	
Analysis Batch:480-195854					
LCS 480-195771/2-A	Lab Control Sample	T	Water	8082A	480-195771
LCSD 480-195771/3-A	Lab Control Sample Duplicate	T	Water	8082A	480-195771
MB 480-195771/1-A	Method Blank	T	Water	8082A	480-195771
480-64676-1	AS-WTPE-14-0044	T	Water	8082A	480-195771
480-64676-2	AS-WTPE-14-0045	T	Water	8082A	480-195771
480-64676-3	AS-WTPE-14-0046	T	Water	8082A	480-195771
480-64676-4	AS-WTPE-14-0047	T	Water	8082A	480-195771

Report Basis
T = Total

Client: Horizon Environmental Services Job Number: 480-64676-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-195814					
LCS 480-195814/2-A	Lab Control Sample	T	Water	3005A	
MB 480-195814/1-A	Method Blank	T	Water	3005A	
480-64676-1	AS-WTPE-14-0044	T	Water	3005A	
480-64676-1MS	Matrix Spike	T	Water	3005A	
480-64676-1MSD	Matrix Spike Duplicate	T	Water	3005A	
480-64676-2	AS-WTPE-14-0045	T	Water	3005A	
480-64676-3	AS-WTPE-14-0046	T	Water	3005A	
480-64676-4	AS-WTPE-14-0047	T	Water	3005A	
Prep Batch: 480-195827					
LCS 480-195827/2-A	Lab Control Sample	T	Water	7470A	
MB 480-195827/1-A	Method Blank	T	Water	7470A	
480-64676-1	AS-WTPE-14-0044	T	Water	7470A	
480-64676-2	AS-WTPE-14-0045	T	Water	7470A	
480-64676-3	AS-WTPE-14-0046	T	Water	7470A	
480-64676-4	AS-WTPE-14-0047	T	Water	7470A	
Analysis Batch:480-196076					
LCS 480-195827/2-A	Lab Control Sample	T	Water	7470A	480-195827
MB 480-195827/1-A	Method Blank	T	Water	7470A	480-195827
480-64676-1	AS-WTPE-14-0044	T	Water	7470A	480-195827
480-64676-2	AS-WTPE-14-0045	T	Water	7470A	480-195827
480-64676-3	AS-WTPE-14-0046	T	Water	7470A	480-195827
480-64676-4	AS-WTPE-14-0047	T	Water	7470A	480-195827
Analysis Batch:480-196089					
LCS 480-195814/2-A	Lab Control Sample	T	Water	6010C	480-195814
MB 480-195814/1-A	Method Blank	T	Water	6010C	480-195814
480-64676-1	AS-WTPE-14-0044	T	Water	6010C	480-195814
480-64676-1MS	Matrix Spike	T	Water	6010C	480-195814
480-64676-1MSD	Matrix Spike Duplicate	T	Water	6010C	480-195814
480-64676-2	AS-WTPE-14-0045	T	Water	6010C	480-195814
480-64676-3	AS-WTPE-14-0046	T	Water	6010C	480-195814
480-64676-4	AS-WTPE-14-0047	T	Water	6010C	480-195814
Analysis Batch:480-196174					
480-64676-2	AS-WTPE-14-0045	T	Water	6010C	480-195814
480-64676-3	AS-WTPE-14-0046	T	Water	6010C	480-195814
480-64676-4	AS-WTPE-14-0047	T	Water	6010C	480-195814

Report Basis
T = Total

Client: Horizon Environmental Services Job Number: 480-64676-1

Laboratory Chronicle

Lab ID: 480-64676-1 **Client ID:** AS-WTPE-14-0044

Sample Date/Time: 07/30/2014 14:00 Received Date/Time: 07/31/2014 15:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-64676-F-1		480-195781		08/01/2014 05:10	1	TAL BUF	RAS
A:8260C	480-64676-F-1		480-195781		08/01/2014 05:10	1	TAL BUF	RAS
P:3510C	480-64676-C-1-A		480-196033	480-195843	08/01/2014 08:25	1	TAL BUF	RJS
A:8270D	480-64676-C-1-A		480-196033	480-195843	08/02/2014 18:39	1	TAL BUF	PJQ
P:3510C	480-64676-B-1-A		480-195854	480-195771	07/31/2014 17:58	1	TAL BUF	JLS
A:8082A	480-64676-B-1-A		480-195854	480-195771	08/01/2014 09:34	1	TAL BUF	DLE
P:3005A	480-64676-E-1-A		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	480-64676-E-1-A		480-196089	480-195814	08/01/2014 17:29	1	TAL BUF	JRK
P:7470A	480-64676-E-1-D		480-196076	480-195827	08/01/2014 09:00	1	TAL BUF	LRK
A:7470A	480-64676-E-1-D		480-196076	480-195827	08/01/2014 13:49	1	TAL BUF	LRK

Lab ID: 480-64676-1 MS **Client ID:** AS-WTPE-14-0044

Sample Date/Time: 07/30/2014 14:00 Received Date/Time: 07/31/2014 15:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-64676-E-1-B MS		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	480-64676-E-1-B MS		480-196089	480-195814	08/01/2014 17:37	1	TAL BUF	JRK

Lab ID: 480-64676-1 MSD **Client ID:** AS-WTPE-14-0044

Sample Date/Time: 07/30/2014 14:00 Received Date/Time: 07/31/2014 15:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-64676-E-1-C MSD		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	480-64676-E-1-C MSD		480-196089	480-195814	08/01/2014 17:40	1	TAL BUF	JRK

Lab ID: 480-64676-1 SD **Client ID:** AS-WTPE-14-0044

Sample Date/Time: 07/30/2014 14:00 Received Date/Time: 07/31/2014 15:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-64676-E-1-A SD ^5		480-196089	480-195814	08/01/2014 06:30	5	TAL BUF	EHD
A:6010C	480-64676-E-1-A SD ^5		480-196089	480-195814	08/01/2014 17:32	5	TAL BUF	JRK
P:3005A	480-64676-E-1-A PDS		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	480-64676-E-1-A PDS		480-196089	480-195814	08/01/2014 17:35	1	TAL BUF	JRK

Client: Horizon Environmental Services Job Number: 480-64676-1

Laboratory Chronicle

Lab ID: 480-64676-2 **Client ID:** AS-WTPE-14-0045

Sample Date/Time: 07/30/2014 17:30 Received Date/Time: 07/31/2014 15:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-64676-F-2		480-195781		08/01/2014 05:34	1	TAL BUF	RAS
A:8260C	480-64676-F-2		480-195781		08/01/2014 05:34	1	TAL BUF	RAS
P:3510C	480-64676-C-2-A		480-196033	480-195843	08/01/2014 08:25	1	TAL BUF	RJS
A:8270D	480-64676-C-2-A		480-196033	480-195843	08/02/2014 19:03	1	TAL BUF	PJQ
P:3510C	480-64676-B-2-A		480-195854	480-195771	07/31/2014 17:58	1	TAL BUF	JLS
A:8082A	480-64676-B-2-A		480-195854	480-195771	08/01/2014 09:50	1	TAL BUF	DLE
P:3005A	480-64676-E-2-A		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	480-64676-E-2-A		480-196089	480-195814	08/01/2014 17:43	1	TAL BUF	JRK
P:3005A	480-64676-E-2-A ^2		480-196174	480-195814	08/01/2014 06:30	2	TAL BUF	EHD
A:6010C	480-64676-E-2-A ^2		480-196174	480-195814	08/04/2014 11:20	2	TAL BUF	JRK
P:7470A	480-64676-E-2-B		480-196076	480-195827	08/01/2014 09:00	1	TAL BUF	LRK
A:7470A	480-64676-E-2-B		480-196076	480-195827	08/01/2014 13:51	1	TAL BUF	LRK

Lab ID: 480-64676-3 **Client ID:** AS-WTPE-14-0046

Sample Date/Time: 07/31/2014 08:00 Received Date/Time: 07/31/2014 15:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-64676-F-3		480-195781		08/01/2014 05:58	1	TAL BUF	RAS
A:8260C	480-64676-F-3		480-195781		08/01/2014 05:58	1	TAL BUF	RAS
P:3510C	480-64676-C-3-A		480-196033	480-195843	08/01/2014 08:25	1	TAL BUF	RJS
A:8270D	480-64676-C-3-A		480-196033	480-195843	08/02/2014 19:28	1	TAL BUF	PJQ
P:3510C	480-64676-B-3-A		480-195854	480-195771	07/31/2014 17:58	1	TAL BUF	JLS
A:8082A	480-64676-B-3-A		480-195854	480-195771	08/01/2014 10:06	1	TAL BUF	DLE
P:3005A	480-64676-E-3-A		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	480-64676-E-3-A		480-196089	480-195814	08/01/2014 17:45	1	TAL BUF	JRK
P:3005A	480-64676-E-3-A ^2		480-196174	480-195814	08/01/2014 06:30	2	TAL BUF	EHD
A:6010C	480-64676-E-3-A ^2		480-196174	480-195814	08/04/2014 11:23	2	TAL BUF	JRK
P:7470A	480-64676-E-3-B		480-196076	480-195827	08/01/2014 09:00	1	TAL BUF	LRK
A:7470A	480-64676-E-3-B		480-196076	480-195827	08/01/2014 13:56	1	TAL BUF	LRK

Client: Horizon Environmental Services Job Number: 480-64676-1

Laboratory Chronicle

Lab ID: 480-64676-4 **Client ID:** AS-WTPE-14-0047

Sample Date/Time: 07/31/2014 11:00 Received Date/Time: 07/31/2014 15:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-64676-F-4		480-195781		08/01/2014 06:22	1	TAL BUF	RAS
A:8260C	480-64676-F-4		480-195781		08/01/2014 06:22	1	TAL BUF	RAS
P:3510C	480-64676-C-4-A		480-196033	480-195843	08/01/2014 08:25	1	TAL BUF	RJS
A:8270D	480-64676-C-4-A		480-196033	480-195843	08/02/2014 19:53	1	TAL BUF	PJQ
P:3510C	480-64676-B-4-A		480-195854	480-195771	07/31/2014 17:58	1	TAL BUF	JLS
A:8082A	480-64676-B-4-A		480-195854	480-195771	08/01/2014 10:22	1	TAL BUF	DLE
P:3005A	480-64676-E-4-A		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	480-64676-E-4-A		480-196089	480-195814	08/01/2014 17:57	1	TAL BUF	JRK
P:3005A	480-64676-E-4-A ^2		480-196174	480-195814	08/01/2014 06:30	2	TAL BUF	EHD
A:6010C	480-64676-E-4-A ^2		480-196174	480-195814	08/04/2014 11:26	2	TAL BUF	JRK
P:7470A	480-64676-E-4-B		480-196076	480-195827	08/01/2014 09:00	1	TAL BUF	LRK
A:7470A	480-64676-E-4-B		480-196076	480-195827	08/01/2014 13:58	1	TAL BUF	LRK

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 480-195781/9		480-195781		07/31/2014 23:50	1	TAL BUF	RAS
A:8260C	MB 480-195781/9		480-195781		07/31/2014 23:50	1	TAL BUF	RAS
P:3510C	MB 480-195843/1-A		480-196033	480-195843	08/01/2014 08:25	1	TAL BUF	RJS
A:8270D	MB 480-195843/1-A		480-196033	480-195843	08/02/2014 15:19	1	TAL BUF	PJQ
P:3510C	MB 480-195771/1-A		480-195854	480-195771	07/31/2014 17:58	1	TAL BUF	JLS
A:8082A	MB 480-195771/1-A		480-195854	480-195771	08/01/2014 08:46	1	TAL BUF	DLE
P:3005A	MB 480-195814/1-A		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	MB 480-195814/1-A		480-196089	480-195814	08/01/2014 17:24	1	TAL BUF	JRK
P:7470A	MB 480-195827/1-A		480-196076	480-195827	08/01/2014 09:00	1	TAL BUF	LRK
A:7470A	MB 480-195827/1-A		480-196076	480-195827	08/01/2014 13:15	1	TAL BUF	LRK

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 480-195781/6		480-195781		07/31/2014 22:39	1	TAL BUF	RAS
A:8260C	LCS 480-195781/6		480-195781		07/31/2014 22:39	1	TAL BUF	RAS
P:3510C	LCS 480-195843/2-A		480-196033	480-195843	08/01/2014 08:25	1	TAL BUF	RJS
A:8270D	LCS 480-195843/2-A		480-196033	480-195843	08/02/2014 15:44	1	TAL BUF	PJQ
P:3510C	LCS 480-195771/2-A		480-195854	480-195771	07/31/2014 17:58	1	TAL BUF	JLS
A:8082A	LCS 480-195771/2-A		480-195854	480-195771	08/01/2014 09:02	1	TAL BUF	DLE
P:3005A	LCS 480-195814/2-A		480-196089	480-195814	08/01/2014 06:30	1	TAL BUF	EHD
A:6010C	LCS 480-195814/2-A		480-196089	480-195814	08/01/2014 17:26	1	TAL BUF	JRK
P:7470A	LCS 480-195827/2-A		480-196076	480-195827	08/01/2014 09:00	1	TAL BUF	LRK
A:7470A	LCS 480-195827/2-A		480-196076	480-195827	08/01/2014 15:01	1	TAL BUF	LRK

Client: Horizon Environmental Services

Job Number: 480-64676-1

Laboratory Chronicle

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	LCSD 480-195843/3-A		480-196033	480-195843	08/01/2014 08:25	1	TAL BUF	RJS
A:8270D	LCSD 480-195843/3-A		480-196033	480-195843	08/02/2014 16:09	1	TAL BUF	PJQ
P:3510C	LCSD 480-195771/3-A		480-195854	480-195771	07/31/2014 17:58	1	TAL BUF	JLS
A:8082A	LCSD 480-195771/3-A		480-195854	480-195771	08/01/2014 09:18	1	TAL BUF	DLE

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
AS-WTPE-14-0044	480-64676-1	99	97	102	100
AS-WTPE-14-0045	480-64676-2	98	100	100	100
AS-WTPE-14-0046	480-64676-3	105	105	103	101
AS-WTPE-14-0047	480-64676-4	101	101	100	101
	MB 480-195781/9	101	99	102	101
	LCS 480-195781/6	102	96	101	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Q6676.D

Lab ID: LCS 480-195781/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	23.9	96	71-129	
1,1-Dichloroethene	25.0	24.5	98	58-121	
1,2-Dichlorobenzene	25.0	24.5	98	80-124	
1,2-Dichloroethane	25.0	24.3	97	75-127	
Benzene	25.0	24.2	97	71-124	
Chlorobenzene	25.0	24.9	100	72-120	
cis-1,2-Dichloroethene	25.0	24.5	98	74-124	
Ethylbenzene	25.0	25.3	101	77-123	
Methyl tert-butyl ether	25.0	24.3	97	64-127	
Tetrachloroethene	25.0	25.4	102	74-122	
Toluene	25.0	24.3	97	80-122	
trans-1,2-Dichloroethene	25.0	24.7	99	73-127	
Trichloroethene	25.0	23.8	95	74-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab File ID: Q6679.D Lab Sample ID: MB 480-195781/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973Q Date Analyzed: 07/31/2014 23:50

GC Column: ZB-624 (60) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-195781/6	Q6676.D	07/31/2014 22:39
AS-WTPE-14-0044	480-64676-1	Q6691.D	08/01/2014 05:10
AS-WTPE-14-0045	480-64676-2	Q6692.D	08/01/2014 05:34
AS-WTPE-14-0046	480-64676-3	Q6693.D	08/01/2014 05:58
AS-WTPE-14-0047	480-64676-4	Q6694.D	08/01/2014 06:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab File ID: Q6656.D BFB Injection Date: 07/31/2014

Instrument ID: HP5973Q BFB Injection Time: 01:27

Analysis Batch No.: 195577

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.0	
75	30.0 - 60.0 % of mass 95	43.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.4	(0.4)1
174	50.0 - 120.00 % of mass 95	96.1	
175	5.0 - 9.0 % of mass 174	7.1	(7.4)1
176	95.0 - 101.0 % of mass 174	93.2	(96.9)1
177	5.0 - 9.0 % of mass 176	5.8	(6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-195577/4	Q6657.D	07/31/2014	01:58
	IC 480-195577/5	Q6658.D	07/31/2014	02:22
	IC 480-195577/6	Q6659.D	07/31/2014	02:46
	IC 480-195577/7	Q6660.D	07/31/2014	03:10
	ICIS 480-195577/8	Q6661.D	07/31/2014	03:34
	IC 480-195577/9	Q6662.D	07/31/2014	03:58
	IC 480-195577/10	Q6663.D	07/31/2014	04:21

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab File ID: Q6673.D BFB Injection Date: 07/31/2014

Instrument ID: HP5973Q BFB Injection Time: 21:26

Analysis Batch No.: 195781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.4	
75	30.0 - 60.0 % of mass 95	43.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	96.3	
175	5.0 - 9.0 % of mass 174	6.1	(6.4)1
176	95.0 - 101.0 % of mass 174	94.1	(97.8)1
177	5.0 - 9.0 % of mass 176	5.8	(6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-195781/4	Q6674.D	07/31/2014	21:52
	LCS 480-195781/6	Q6676.D	07/31/2014	22:39
	MB 480-195781/9	Q6679.D	07/31/2014	23:50
AS-WTPE-14-0044	480-64676-1	Q6691.D	08/01/2014	05:10
AS-WTPE-14-0045	480-64676-2	Q6692.D	08/01/2014	05:34
AS-WTPE-14-0046	480-64676-3	Q6693.D	08/01/2014	05:58
AS-WTPE-14-0047	480-64676-4	Q6694.D	08/01/2014	06:22

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Sample No.: ICIS 480-195577/8 Date Analyzed: 07/31/2014 03:34

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): Q6661.D Heated Purge: (Y/N) N

Calibration ID: 19654

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		169423	4.75	312626	7.02	307766	8.87
UPPER LIMIT		338846	5.25	625252	7.52	615532	9.37
LOWER LIMIT		84712	4.25	156313	6.52	153883	8.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-195781/4		182148	4.75	335056	7.02	339072	8.88

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Sample No.: CCVIS 480-195781/4 Date Analyzed: 07/31/2014 21:52

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): Q6674.D Heated Purge: (Y/N) N

Calibration ID: 19654

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		182148	4.75	335056	7.02	339072	8.88
UPPER LIMIT		364296	5.25	670112	7.52	678144	9.38
LOWER LIMIT		91074	4.25	167528	6.52	169536	8.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-195781/6		171990	4.75	314615	7.02	319880	8.87
MB 480-195781/9		163501	4.75	297282	7.02	311403	8.88
480-64676-1	AS-WTPE-14-0044	184452	4.74	338297	7.02	351164	8.88
480-64676-2	AS-WTPE-14-0045	178910	4.75	331073	7.02	341227	8.88
480-64676-3	AS-WTPE-14-0046	172437	4.75	319787	7.02	335242	8.88
480-64676-4	AS-WTPE-14-0047	178914	4.75	334024	7.02	346041	8.87

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0044 Lab Sample ID: 480-64676-1

Matrix: Water Lab File ID: Q6691.D

Analysis Method: 8260C Date Collected: 07/30/2014 14:00

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2014 05:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 195781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0044 Lab Sample ID: 480-64676-1

Matrix: Water Lab File ID: Q6691.D

Analysis Method: 8260C Date Collected: 07/30/2014 14:00

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2014 05:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 195781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		66-137
2037-26-5	Toluene-d8 (Surr)	102		71-126
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6691.D
Lims ID: 480-64676-F-1 Lab Sample ID: 480-64676-1
Client ID: AS-WTPE-14-0044
Sample Type: Client
Inject. Date: 01-Aug-2014 05:10:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-64676-F-1
Misc. Info.: 480-0034262-021
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Aug-2014 07:24:37 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: sobolr Date: 01-Aug-2014 10:19:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.745	-0.003	99	184452	25.0	
* 2 Chlorobenzene-d5	82	7.017	7.019	-0.002	86	338297	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.878	8.874	0.004	94	351164	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.268	4.271	-0.003	94	207889	24.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.511	4.514	-0.003	96	127253	24.4	
$ 5 Toluene-d8 (Surr)	98	5.910	5.913	-0.003	94	857640	25.4	
$ 6 4-Bromofluorobenzene (Surr	174	7.947	7.944	0.003	97	261495	24.9	
10 Dichlorodifluoromethane	85		1.292				ND	
12 Chloromethane	50		1.395				ND	
13 Vinyl chloride	62		1.498				ND	
14 Bromomethane	94		1.754				ND	
15 Chloroethane	64		1.839				ND	
17 Trichlorofluoromethane	101		2.076				ND	
22 1,1-Dichloroethene	96		2.459				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.496				ND	
23 Acetone	43		2.538				ND	
26 Carbon disulfide	76		2.630				ND	
27 Methyl acetate	43		2.812				ND	
30 Methylene Chloride	84		2.891				ND	
32 Methyl tert-butyl ether	73		3.098				ND	
34 trans-1,2-Dichloroethene	96		3.098				ND	
39 1,1-Dichloroethane	63		3.444				ND	
45 cis-1,2-Dichloroethene	96		3.901				ND	
43 2-Butanone (MEK)	43		3.919				ND	
50 Chloroform	83		4.150				ND	
51 1,1,1-Trichloroethane	97		4.259				ND	
52 Cyclohexane	56		4.284				ND	
55 Carbon tetrachloride	117		4.375				ND	
57 Benzene	78		4.539				ND	
58 1,2-Dichloroethane	62		4.569				ND	
62 Trichloroethene	95		5.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.129				ND	
65 1,2-Dichloropropane	63		5.190				ND	
68 Dichlorobromomethane	83		5.409				ND	
72 cis-1,3-Dichloropropene	75		5.725				ND	
73 4-Methyl-2-pentanone (MIBK	43		5.828				ND	
74 Toluene	92		5.962				ND	
77 trans-1,3-Dichloropropene	75		6.151				ND	
79 1,1,2-Trichloroethane	83		6.290				ND	
81 Tetrachloroethene	166		6.376				ND	
80 2-Hexanone	43		6.461				ND	
83 Chlorodibromomethane	129		6.595				ND	
84 Ethylene Dibromide	107		6.680				ND	
87 Chlorobenzene	112		7.045				ND	
88 Ethylbenzene	91		7.111				ND	
90 m-Xylene & p-Xylene	106		7.203				ND	
91 o-Xylene	106		7.519				ND	
92 Styrene	104		7.531				ND	
95 Bromoform	173		7.707				ND	
94 Isopropylbenzene	105		7.805				ND	
97 1,1,2,2-Tetrachloroethane	83		8.078				ND	
111 1,3-Dichlorobenzene	146		8.826				ND	
113 1,4-Dichlorobenzene	146		8.899				ND	
116 1,2-Dichlorobenzene	146		9.203				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.854				ND	
119 1,2,4-Trichlorobenzene	180		10.523				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

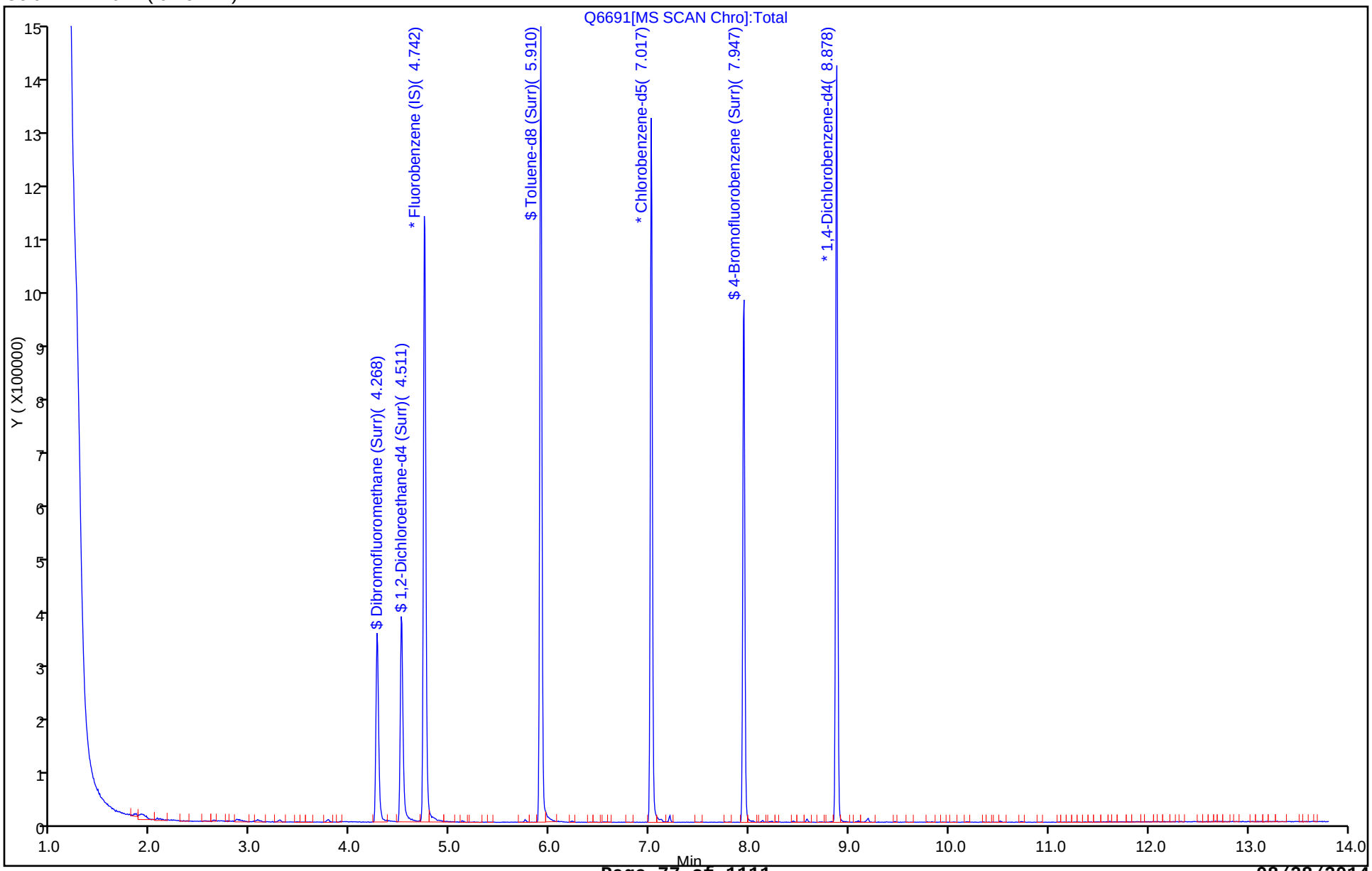
Report Date: 01-Aug-2014 10:19:41 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6691.D

Injection Date:	01-Aug-2014 05:10:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	480-64676-F-1	Lab Sample ID:	480-64676-1	Worklist Smp#:	21
Client ID:	AS-WTPE-14-0044				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0045 Lab Sample ID: 480-64676-2

Matrix: Water Lab File ID: Q6692.D

Analysis Method: 8260C Date Collected: 07/30/2014 17:30

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2014 05:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 195781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0045 | Lab Sample ID: 480-64676-2

Matrix: Water | Lab File ID: Q6692.D

Analysis Method: 8260C | Date Collected: 07/30/2014 17:30

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2014 05:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
2037-26-5	Toluene-d8 (Surr)	100		71-126
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6692.D
Lims ID: 480-64676-F-2 Lab Sample ID: 480-64676-2
Client ID: AS-WTPE-14-0045
Sample Type: Client
Inject. Date: 01-Aug-2014 05:34:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-64676-F-2
Misc. Info.: 480-0034262-022
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Aug-2014 07:24:37 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: sobolr Date: 01-Aug-2014 10:19:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.745	4.745	0.000	99	178910	25.0	
* 2 Chlorobenzene-d5	82	7.020	7.019	0.001	87	331073	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.875	8.874	0.001	94	341227	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.271	4.271	0.000	94	200033	24.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.514	4.514	0.000	95	126558	25.0	
$ 5 Toluene-d8 (Surr)	98	5.907	5.913	-0.006	94	821638	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	7.944	7.944	0.000	95	257087	25.0	
10 Dichlorodifluoromethane	85		1.292				ND	
12 Chloromethane	50		1.395				ND	
13 Vinyl chloride	62		1.498				ND	
14 Bromomethane	94		1.754				ND	
15 Chloroethane	64		1.839				ND	
17 Trichlorofluoromethane	101		2.076				ND	
22 1,1-Dichloroethene	96		2.459				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.496				ND	
23 Acetone	43		2.538				ND	
26 Carbon disulfide	76		2.630				ND	
27 Methyl acetate	43		2.812				ND	
30 Methylene Chloride	84		2.891				ND	
32 Methyl tert-butyl ether	73		3.098				ND	
34 trans-1,2-Dichloroethene	96		3.098				ND	
39 1,1-Dichloroethane	63		3.444				ND	
45 cis-1,2-Dichloroethene	96		3.901				ND	
43 2-Butanone (MEK)	43		3.919				ND	
50 Chloroform	83		4.150				ND	
51 1,1,1-Trichloroethane	97		4.259				ND	
52 Cyclohexane	56		4.284				ND	
55 Carbon tetrachloride	117		4.375				ND	
57 Benzene	78		4.539				ND	
58 1,2-Dichloroethane	62		4.569				ND	
62 Trichloroethene	95		5.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.129				ND	
65 1,2-Dichloropropane	63		5.190				ND	
68 Dichlorobromomethane	83		5.409				ND	
72 cis-1,3-Dichloropropene	75		5.725				ND	
73 4-Methyl-2-pentanone (MIBK	43		5.828				ND	
74 Toluene	92		5.962				ND	
77 trans-1,3-Dichloropropene	75		6.151				ND	
79 1,1,2-Trichloroethane	83		6.290				ND	
81 Tetrachloroethene	166		6.376				ND	
80 2-Hexanone	43		6.461				ND	
83 Chlorodibromomethane	129		6.595				ND	
84 Ethylene Dibromide	107		6.680				ND	
87 Chlorobenzene	112		7.045				ND	
88 Ethylbenzene	91		7.111				ND	
90 m-Xylene & p-Xylene	106		7.203				ND	
91 o-Xylene	106		7.519				ND	
92 Styrene	104		7.531				ND	
95 Bromoform	173		7.707				ND	
94 Isopropylbenzene	105		7.805				ND	
97 1,1,2,2-Tetrachloroethane	83		8.078				ND	
111 1,3-Dichlorobenzene	146		8.826				ND	
113 1,4-Dichlorobenzene	146		8.899				ND	
116 1,2-Dichlorobenzene	146		9.203				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.854				ND	
119 1,2,4-Trichlorobenzene	180		10.523				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

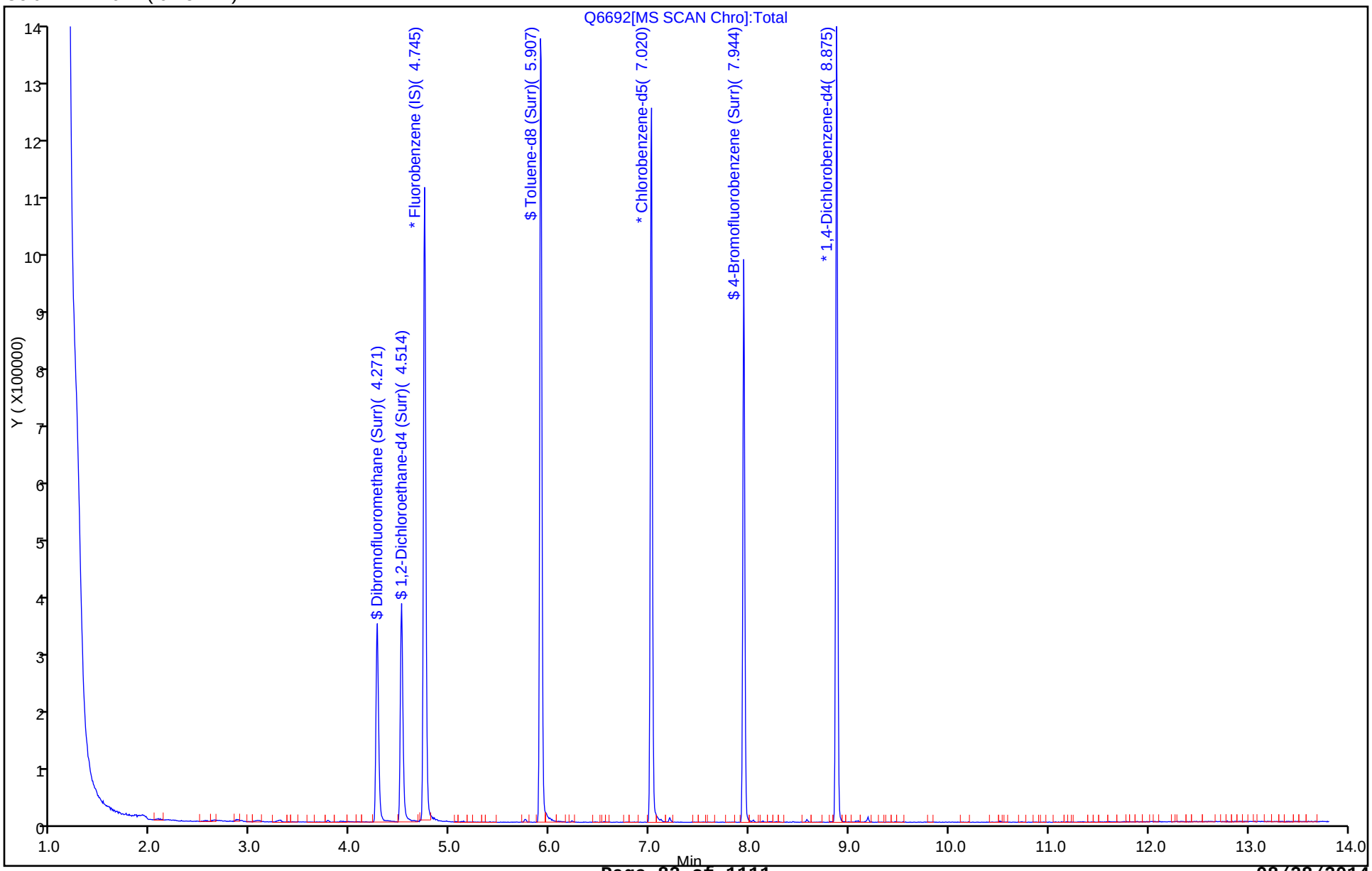
Report Date: 01-Aug-2014 10:19:47 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6692.D

Injection Date:	01-Aug-2014 05:34:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	480-64676-F-2	Lab Sample ID:	480-64676-2	Worklist Smp#:	22
Client ID:	AS-WTPE-14-0045				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0046 | Lab Sample ID: 480-64676-3

Matrix: Water | Lab File ID: Q6693.D

Analysis Method: 8260C | Date Collected: 07/31/2014 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2014 05:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0046 | Lab Sample ID: 480-64676-3

Matrix: Water | Lab File ID: Q6693.D

Analysis Method: 8260C | Date Collected: 07/31/2014 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2014 05:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
2037-26-5	Toluene-d8 (Surr)	103		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6693.D
Lims ID: 480-64676-F-3 Lab Sample ID: 480-64676-3
Client ID: AS-WTPE-14-0046
Sample Type: Client
Inject. Date: 01-Aug-2014 05:58:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-64676-F-3
Misc. Info.: 480-0034262-023
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Aug-2014 07:24:37 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: sobolr Date: 01-Aug-2014 10:19:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.748	4.745	0.003	99	172437	25.0	
* 2 Chlorobenzene-d5	82	7.016	7.019	-0.003	86	319787	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.877	8.874	0.003	94	335242	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.267	4.271	-0.004	95	206194	26.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.511	4.514	-0.004	95	128340	26.3	
$ 5 Toluene-d8 (Surr)	98	5.909	5.913	-0.004	94	820519	25.7	
$ 6 4-Bromofluorobenzene (Surr	174	7.946	7.944	0.002	97	250486	25.3	
10 Dichlorodifluoromethane	85		1.292				ND	
12 Chloromethane	50		1.395				ND	
13 Vinyl chloride	62		1.498				ND	
14 Bromomethane	94		1.754				ND	
15 Chloroethane	64		1.839				ND	
17 Trichlorofluoromethane	101		2.076				ND	
22 1,1-Dichloroethene	96		2.459				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.496				ND	
23 Acetone	43		2.538				ND	
26 Carbon disulfide	76		2.630				ND	
27 Methyl acetate	43		2.812				ND	
30 Methylene Chloride	84		2.891				ND	
32 Methyl tert-butyl ether	73		3.098				ND	
34 trans-1,2-Dichloroethene	96		3.098				ND	
39 1,1-Dichloroethane	63		3.444				ND	
45 cis-1,2-Dichloroethene	96		3.901				ND	
43 2-Butanone (MEK)	43		3.919				ND	
50 Chloroform	83		4.150				ND	
51 1,1,1-Trichloroethane	97		4.259				ND	
52 Cyclohexane	56		4.284				ND	
55 Carbon tetrachloride	117		4.375				ND	
57 Benzene	78		4.539				ND	
58 1,2-Dichloroethane	62		4.569				ND	
62 Trichloroethene	95		5.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.129				ND	
65 1,2-Dichloropropane	63		5.190				ND	
68 Dichlorobromomethane	83		5.409				ND	
72 cis-1,3-Dichloropropene	75		5.725				ND	
73 4-Methyl-2-pentanone (MIBK	43		5.828				ND	
74 Toluene	92		5.962				ND	
77 trans-1,3-Dichloropropene	75		6.151				ND	
79 1,1,2-Trichloroethane	83		6.290				ND	
81 Tetrachloroethene	166		6.376				ND	
80 2-Hexanone	43		6.461				ND	
83 Chlorodibromomethane	129		6.595				ND	
84 Ethylene Dibromide	107		6.680				ND	
87 Chlorobenzene	112		7.045				ND	
88 Ethylbenzene	91		7.111				ND	
90 m-Xylene & p-Xylene	106		7.203				ND	
91 o-Xylene	106		7.519				ND	
92 Styrene	104		7.531				ND	
95 Bromoform	173		7.707				ND	
94 Isopropylbenzene	105		7.805				ND	
97 1,1,2,2-Tetrachloroethane	83		8.078				ND	
111 1,3-Dichlorobenzene	146		8.826				ND	
113 1,4-Dichlorobenzene	146		8.899				ND	
116 1,2-Dichlorobenzene	146		9.203				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.854				ND	
119 1,2,4-Trichlorobenzene	180		10.523				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

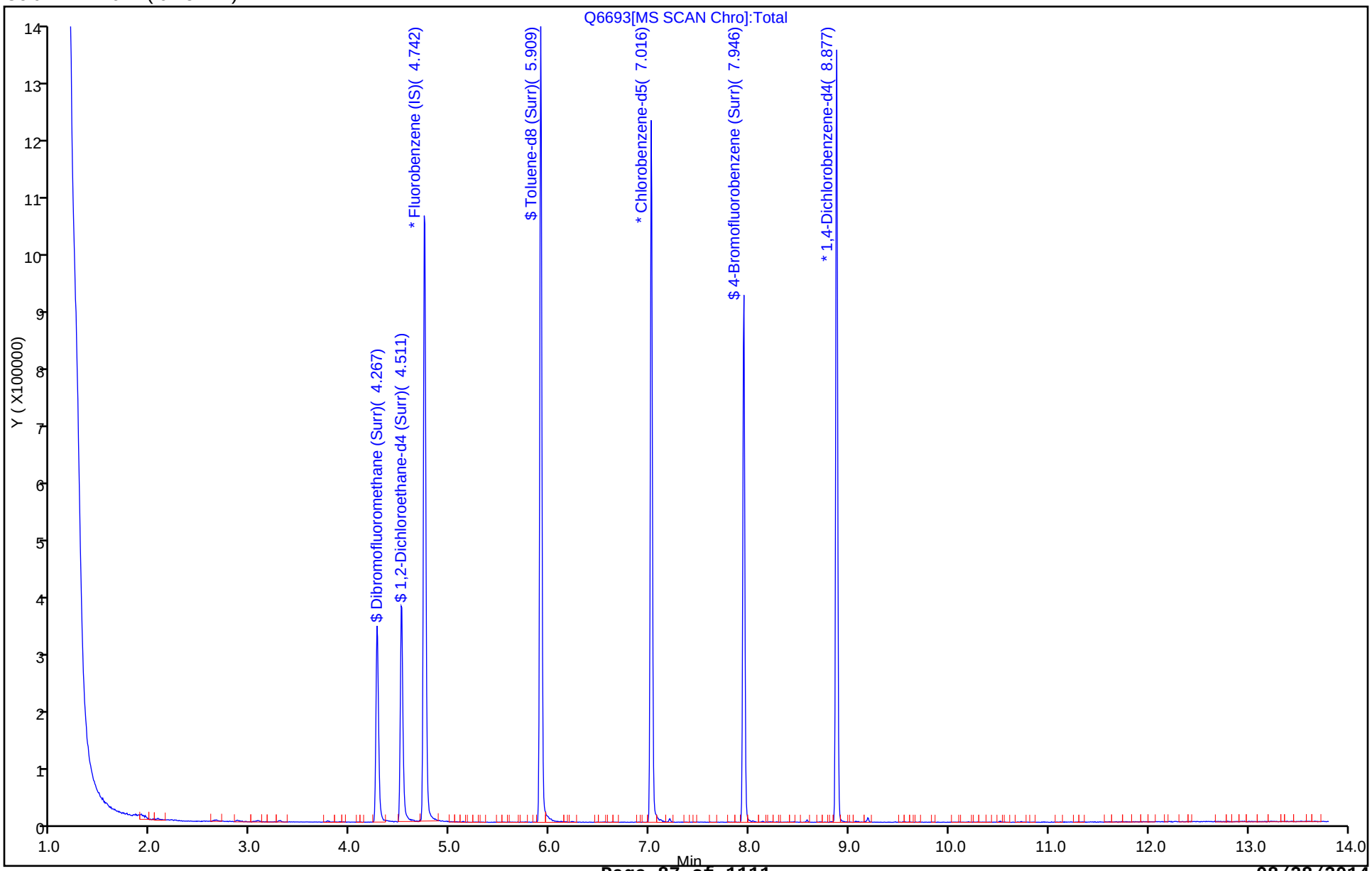
Report Date: 01-Aug-2014 10:19:53 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6693.D

Injection Date:	01-Aug-2014 05:58:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	480-64676-F-3	Lab Sample ID:	480-64676-3	Worklist Smp#:	23
Client ID:	AS-WTPE-14-0046				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0047 Lab Sample ID: 480-64676-4

Matrix: Water Lab File ID: Q6694.D

Analysis Method: 8260C Date Collected: 07/31/2014 11:00

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2014 06:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 195781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0047 | Lab Sample ID: 480-64676-4

Matrix: Water | Lab File ID: Q6694.D

Analysis Method: 8260C | Date Collected: 07/31/2014 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2014 06:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		66-137
2037-26-5	Toluene-d8 (Surr)	100		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6694.D
Lims ID: 480-64676-F-4 Lab Sample ID: 480-64676-4
Client ID: AS-WTPE-14-0047
Sample Type: Client
Inject. Date: 01-Aug-2014 06:22:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-64676-F-4
Misc. Info.: 480-0034262-024
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Aug-2014 07:24:37 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: sobolr Date: 01-Aug-2014 10:19:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.745	4.745	0.000	99	178914	25.0	
* 2 Chlorobenzene-d5	82	7.019	7.019	0.000	86	334024	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.874	8.874	0.000	93	346041	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.271	4.271	0.000	95	205058	25.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.514	4.514	0.000	96	128046	25.3	
$ 5 Toluene-d8 (Surr)	98	5.913	5.913	0.000	94	828552	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	7.944	7.944	0.000	95	261833	25.3	
10 Dichlorodifluoromethane	85		1.292				ND	
12 Chloromethane	50		1.395				ND	
13 Vinyl chloride	62		1.498				ND	
14 Bromomethane	94		1.754				ND	
15 Chloroethane	64		1.839				ND	
17 Trichlorofluoromethane	101		2.076				ND	
22 1,1-Dichloroethene	96		2.459				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.496				ND	
23 Acetone	43		2.538				ND	
26 Carbon disulfide	76		2.630				ND	
27 Methyl acetate	43		2.812				ND	
30 Methylene Chloride	84		2.891				ND	
32 Methyl tert-butyl ether	73		3.098				ND	
34 trans-1,2-Dichloroethene	96		3.098				ND	
39 1,1-Dichloroethane	63		3.444				ND	
45 cis-1,2-Dichloroethene	96		3.901				ND	
43 2-Butanone (MEK)	43		3.919				ND	
50 Chloroform	83		4.150				ND	
51 1,1,1-Trichloroethane	97		4.259				ND	
52 Cyclohexane	56		4.284				ND	
55 Carbon tetrachloride	117		4.375				ND	
57 Benzene	78		4.539				ND	
58 1,2-Dichloroethane	62		4.569				ND	
62 Trichloroethene	95		5.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.129				ND	
65 1,2-Dichloropropane	63		5.190				ND	
68 Dichlorobromomethane	83		5.409				ND	
72 cis-1,3-Dichloropropene	75		5.725				ND	
73 4-Methyl-2-pentanone (MIBK	43		5.828				ND	
74 Toluene	92		5.962				ND	
77 trans-1,3-Dichloropropene	75		6.151				ND	
79 1,1,2-Trichloroethane	83		6.290				ND	
81 Tetrachloroethene	166		6.376				ND	
80 2-Hexanone	43		6.461				ND	
83 Chlorodibromomethane	129		6.595				ND	
84 Ethylene Dibromide	107		6.680				ND	
87 Chlorobenzene	112		7.045				ND	
88 Ethylbenzene	91		7.111				ND	
90 m-Xylene & p-Xylene	106		7.203				ND	
91 o-Xylene	106		7.519				ND	
92 Styrene	104		7.531				ND	
95 Bromoform	173		7.707				ND	
94 Isopropylbenzene	105		7.805				ND	
97 1,1,2,2-Tetrachloroethane	83		8.078				ND	
111 1,3-Dichlorobenzene	146		8.826				ND	
113 1,4-Dichlorobenzene	146		8.899				ND	
116 1,2-Dichlorobenzene	146		9.203				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.854				ND	
119 1,2,4-Trichlorobenzene	180		10.523				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

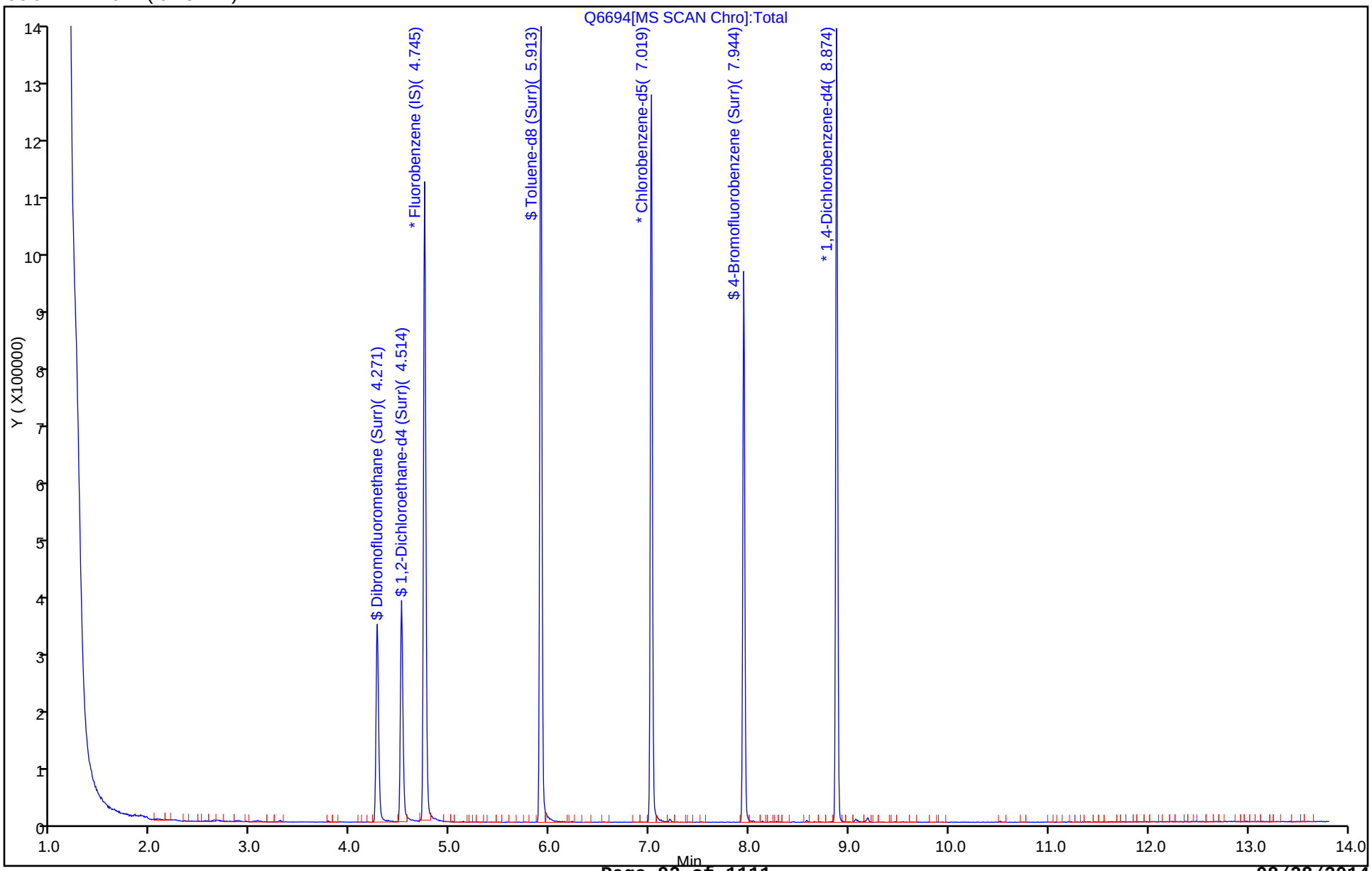
Report Date: 01-Aug-2014 10:19:59 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6694.D

Injection Date:	01-Aug-2014 06:22:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	480-64676-F-4	Lab Sample ID:	480-64676-4	Worklist Smp#:	24
Client ID:	AS-WTPE-14-0047				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-195577/5	Q6658.D
Level 2	IC 480-195577/6	Q6659.D
Level 3	IC 480-195577/7	Q6660.D
Level 4	IC 480-195577/4	Q6657.D
Level 5	ICIS 480-195577/8	Q6661.D
Level 6	IC 480-195577/9	Q6662.D
Level 7	IC 480-195577/10	Q6663.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.8090 1.6848	1.7423 1.7200	1.8227		1.7019	Ave		1.7468			0.1000	3.3		20.0			
Chloromethane	2.7971 2.2165	2.5809 2.2255	2.4464		2.2661	Ave		2.4221			0.1000	9.6		20.0			
Vinyl chloride	2.5249 2.3268	2.7216 2.2686	2.4148		2.4112	Ave		2.4446			0.1000	6.6		20.0			
Butadiene	2.6800 2.1925	2.6794 2.1226	2.4398		2.3195	Ave		2.4057				9.9		20.0			
Bromomethane	1.2301 1.0885	1.2373 1.1433	1.1897		1.1617	Ave		1.1751			0.1000	4.8		20.0			
Chloroethane	1.1340 1.0187	1.1759 0.9947	1.0496		1.0855	Ave		1.0764			0.1000	6.4		20.0			
Dichlorofluoromethane	2.7536 2.4586	2.7764 2.4352	2.5155		2.5730	Ave		2.5854				5.7		20.0			
Trichlorofluoromethane	1.3178 1.7130	1.6979 1.8079	1.7237		1.7166	Ave		1.6628			0.1000	10.0		20.0			
Ethyl ether	1.4506 1.2780	1.4207 1.2286	1.3677		1.3303	Ave		1.3460				6.3		20.0			
Acrolein	0.0521 0.0575	0.0531 0.0754	0.0439		0.0468	Ave		0.0548				20.0		20.0			
1,1-Dichloroethene	1.4177 1.2350	1.3772 1.2680	1.2662		1.2472	Ave		1.3019			0.1000	5.8		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.4404 1.1660	1.3745 1.1951	1.2581		1.1921	Ave		1.2710			0.1000	8.8		20.0			
Acetone	0.6871 0.4380	0.4885 0.4106	0.5414		0.4785	Ave		0.5074			0.1000	19.0		20.0			
Iodomethane	2.6297 2.2666	2.4780 2.2691	2.3420		2.3143	Ave		2.3833				6.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	5.9562 4.0014	4.5510 4.0968	4.2923		4.0685	Ave		4.4944			0.1000	17.0		20.0			
Allyl chloride	3.0438 2.5808	2.8270 2.6944	2.7750		2.6247	Ave		2.7576				6.1		20.0			
Methyl acetate	2.0976 1.7401	2.0195 1.8063	1.9530		1.8665	Ave		1.9138			0.1000	7.0		20.0			
Methylene Chloride	1.7670 1.4280	1.5199 1.4028	1.4740		1.4157	Ave		1.5012			0.1000	9.1		20.0			
2-Methyl-2-propanol	0.1283 0.0954	0.1171 0.0785	0.0733		0.0779	Qua	-0.949	0.1024	0						0.9930		0.9900
trans-1,2-Dichloroethene	1.5544 1.3345	1.5020 1.3908	1.4381		1.3917	Ave		1.4353			0.1000	5.6		20.0			
Methyl tert-butyl ether	4.4840 3.8919	4.2848 3.9628	4.2284		4.1410	Ave		4.1655			0.1000	5.2		20.0			
Acrylonitrile	0.9280 0.6455	0.7675 0.6397	0.7816	0.9511	0.7456	Ave		0.7799				16.0		20.0			
Hexane	2.9895 2.1017	2.5189 2.1646	2.3244		2.0829	Ave		2.3637				15.0		20.0			
1,1-Dichloroethane	3.3265 2.6901	3.0949 2.7689	2.8935		2.8154	Ave		2.9316			0.2000	8.1		20.0			
Vinyl acetate	2.1813 2.1978	2.1559 2.2720	2.1785		2.2755	Ave		2.2102				2.3		20.0			
2,2-Dichloropropane	1.1846 0.9931	1.1199 1.0195	1.0927		1.0273	Ave		1.0729				6.8		20.0			
cis-1,2-Dichloroethene	1.8808 1.5127	1.6806 1.5531	1.5882		1.5346	Ave		1.6250			0.1000	8.5		20.0			
2-Butanone (MEK)	1.3069 1.0126	1.1509 1.0491	1.2957		1.2582	Ave		1.1789			0.1000	11.0		20.0			
Chlorobromomethane	0.7929 0.7381	0.7983 0.7686	0.7942		0.7516	Ave		0.7739				3.3		20.0			
Tetrahydrofuran	0.9800 0.7086	0.9216 0.7062	0.8854		0.8275	Ave		0.8382				13.0		20.0			
Chloroform	2.5394 2.0812	2.3500 2.1542	2.2188		2.1319	Ave		2.2459			0.2000	7.6		20.0			
1,1,1-Trichloroethane	1.6125 1.5416	1.5469 1.6390	1.5768		1.5472	Ave		1.5774			0.1000	2.6		20.0			
Cyclohexane	3.3038 2.7490	3.2124 2.8072	3.0160		2.7470	Ave		2.9726			0.1000	8.2		20.0			
Carbon tetrachloride	1.1104 1.2344	1.1687 1.3423	1.1509		1.1851	Ave		1.1986			0.1000	6.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	2.1120 1.6987	1.9010 1.7325	1.7912		1.6998	Ave		1.8225				8.8		20.0			
Isobutyl alcohol	0.0670 0.0857	0.0715 0.0847	0.0645		0.0844	Ave		0.0763				13.0		20.0			
Benzene	6.6648 5.4307	6.1731 5.6126	5.6939		5.5080	Ave		5.8472			0.5000	8.2		20.0			
1,2-Dichloroethane	2.1465 1.8246	1.9804 1.8564	2.0279		1.9324	Ave		1.9614			0.1000	6.0		20.0			
n-Heptane	3.2527 2.8344	2.6886 2.9300	2.7690		2.8626	Ave		2.8895				6.8		20.0			
Trichloroethene	1.6728 1.3643	1.4843 1.3982	1.4245		1.3585	Ave		1.4504			0.2000	8.1		20.0			
Methylcyclohexane	2.9127 2.3627	2.6312 2.4321	2.4935		2.3955	Ave		2.5380			0.1000	8.1		20.0			
1,2-Dichloropropane	1.7882 1.5713	1.7256 1.6075	1.6959		1.6214	Ave		1.6683			0.1000	4.9		20.0			
Dibromomethane	0.9224 0.8360	0.8990 0.8490	0.8989		0.8735	Ave		0.8798			0.1000	3.8		20.0			
1,4-Dioxane	0.0041 0.0084	0.0091 0.0066	0.0072		0.0073	Qua	-0.270	0.0097	0						0.9950		0.9900
Bromodichloromethane	1.4768 1.5932	1.5018 1.6684	1.5196		1.5880	Ave		1.5580			0.2000	4.6		20.0			
2-Chloroethyl vinyl ether	1.1935 1.2578	1.2574 1.3243	1.2649		1.2994	Ave		1.2662				3.5		20.0			
cis-1,3-Dichloropropene	2.2024 2.2864	2.0789 2.2830	2.1125		2.1664	Ave		2.1883			0.2000	3.9		20.0			
4-Methyl-2-pentanone (MIBK)	1.5135 1.5592	1.5110 1.2441	1.5128		1.6154	Ave		1.4927			0.1000	8.6		20.0			
Toluene	2.0426 1.7495	1.7691 1.7346	1.7436		1.7635	Ave		1.8005			0.4000	6.6		20.0			
trans-1,3-Dichloropropene	0.8612 1.0065	0.8570 1.0026	0.8860		0.9810	Ave		0.9324			0.1000	7.7		20.0			
Ethyl methacrylate	1.0274 1.1767	1.0896 1.1008	1.1244		1.1694	Ave		1.1147				5.0		20.0			
1,1,2-Trichloroethane	0.6367 0.5902	0.5745 0.5721	0.5677		0.5707	Ave		0.5853			0.1000	4.5		20.0			
Tetrachloroethene	0.9076 0.8129	0.8089 0.7808	0.8109		0.8160	Ave		0.8228			0.2000	5.3		20.0			
1,3-Dichloropropane	1.2862 1.2451	1.2451 1.2061	1.2257		1.2284	Ave		1.2394				2.2		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	1.2484 1.1171	1.2106 1.1230	1.2427		1.1790	Ave		1.1868			0.1000	4.8		20.0			
Dibromochloromethane	0.5346 0.6674	0.4995 0.6936	0.5508		0.6097	Ave		0.5926			0.1000	13.0		20.0			
1,2-Dibromoethane	0.7419 0.7395	0.7146 0.7261	0.7055		0.7404	Ave		0.7280				2.1		20.0			
Chlorobenzene	2.1882 1.9722	2.0418 1.9857	2.0232		1.9727	Ave		2.0306			0.5000	4.0		20.0			
1,1,1,2-Tetrachloroethane	0.5220 0.6346	0.5416 0.6554	0.5557		0.6109	Ave		0.5867				9.3		20.0			
Ethylbenzene	3.4822 3.2198	3.2408 3.1758	3.1822		3.2016	Ave		3.2504			0.1000	3.6		20.0			
m,p-Xylene	1.3748 1.3004	1.3377 1.2733	1.2767		1.2872	Ave		1.3084			0.1000	3.1		20.0			
o-Xylene	1.3621 1.3200	1.3602 1.3112	1.3177		1.3297	Ave		1.3335			0.3000	1.7		20.0			
Styrene	2.1911 2.1347	2.1510 2.1070	2.1159		2.1185	Ave		2.1364			0.3000	1.5		20.0			
Bromoform	0.3309 0.5262	0.3556 0.5673	0.3970		0.4559	Lin1	-0.444	0.5402			0.1000				0.9920		0.9900
Isopropylbenzene	3.3833 3.2992	3.1909 3.3345	3.1876		3.3233	Ave		3.2865			0.1000	2.4		20.0			
Bromobenzene	0.9697 0.9112	0.8885 0.9274	0.8858		0.9042	Ave		0.9144				3.4		20.0			
1,1,2,2-Tetrachloroethane	1.1672 1.1248	1.0775 1.1338	1.1129		1.1303	Ave		1.1244			0.3000	2.6		20.0			
1,2,3-Trichloropropane	0.3440 0.3265	0.3202 0.3380	0.3297		0.3362	Ave		0.3324				2.6		20.0			
trans-1,4-Dichloro-2-butene	0.1487 0.3264	0.1845 0.3532	0.2237		0.2838	Lin	-1.101	0.3594							0.9980		0.9900
N-Propylbenzene	3.8638 3.7541	3.7052 3.8086	3.7154		3.7866	Ave		3.7723				1.6		20.0			
2-Chlorotoluene	0.8348 0.7734	0.7655 0.7784	0.7719		0.7820	Ave		0.7843				3.2		20.0			
1,3,5-Trimethylbenzene	2.6759 2.5911	2.5024 2.6570	2.5471		2.5733	Ave		2.5911				2.5		20.0			
4-Chlorotoluene	0.8364 0.7783	0.7778 0.7838	0.7603		0.7775	Ave		0.7857				3.3		20.0			
tert-Butylbenzene	0.5891 0.6350	0.6167 0.6318	0.5985		0.6219	Ave		0.6155				3.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.7520 2.6737	2.6007 2.6854	2.6383		2.6881	Ave		2.6730				1.9		20.0			
sec-Butylbenzene	3.4307 3.4260	3.3283 3.4699	3.3063		3.4250	Ave		3.3977				1.9		20.0			
1,3-Dichlorobenzene	1.6344 1.6027	1.5746 1.6126	1.5935		1.6059	Ave		1.6039			0.6000	1.2		20.0			
4-Isopropyltoluene	2.9018 2.8584	2.8028 2.9062	2.7813		2.8427	Ave		2.8489				1.8		20.0			
1,4-Dichlorobenzene	1.8196 1.5744	1.6090 1.5918	1.5898		1.6100	Ave		1.6325			0.5000	5.7		20.0			
n-Butylbenzene	2.6943 2.5404	2.5247 2.6008	2.5064		2.5426	Ave		2.5682				2.7		20.0			
1,2-Dichlorobenzene	1.7332 1.5845	1.6138 1.5612	1.6067		1.6166	Ave		1.6193			0.4000	3.7		20.0			
1,2-Dibromo-3-Chloropropane	0.1632 0.2241	0.1665 0.2403	0.1958		0.2125	Ave		0.2004			0.0500	16.0		20.0			
1,2,4-Trichlorobenzene	1.2633 1.2060	1.1562 1.1933	1.1878		1.1902	Ave		1.1995			0.2000	2.9		20.0			
Hexachlorobutadiene	0.4885 0.4413	0.4437 0.4585	0.4295		0.4291	Ave		0.4484				5.0		20.0			
Naphthalene	3.6240 3.7729	3.5607 3.8539	3.6486		3.7257	Ave		3.6977				2.9		20.0			
1,2,3-Trichlorobenzene	1.1744 1.1543	1.1336 1.1515	1.1312		1.1375	Ave		1.1471				1.4		20.0			
Dibromofluoromethane (Surr)	1.1412 1.0921	1.1798 1.1521	1.1312	1.1482	1.1263	Ave		1.1387				2.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7141 0.6734	0.7228 0.7001	0.7172	0.7255	0.7022	Ave		0.7079				2.5		20.0			
Toluene-d8 (Surr)	2.4808 2.5103	2.5222 2.4341	2.4958	2.5067	2.4987	Ave		2.4927				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.7704 0.7786	0.7833 0.7706	0.7665	0.7832	0.7734	Ave		0.7751				0.9		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-195577/5	Q6658.D
Level 2	IC 480-195577/6	Q6659.D
Level 3	IC 480-195577/7	Q6660.D
Level 4	IC 480-195577/4	Q6657.D
Level 5	ICIS 480-195577/8	Q6661.D
Level 6	IC 480-195577/9	Q6662.D
Level 7	IC 480-195577/10	Q6663.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	12363 579815	56066 1149282	120904		288348	1.00 50.0	5.00 100	10.0		25.0
Chloromethane	FB	Ave	19116 762791	83053 1487017	162274		383934	1.00 50.0	5.00 100	10.0		25.0
Vinyl chloride	FB	Ave	17256 800745	87578 1515816	160175		408506	1.00 50.0	5.00 100	10.0		25.0
Butadiene	FB	Ave	18316 754542	86221 1418295	161838		392978	1.00 50.0	5.00 100	10.0		25.0
Bromomethane	FB	Ave	8407 374594	39817 763922	78913		196815	1.00 50.0	5.00 100	10.0		25.0
Chloroethane	FB	Ave	7750 350573	37839 664616	69624		183911	1.00 50.0	5.00 100	10.0		25.0
Dichlorofluoromethane	FB	Ave	18819 846099	89343 1627156	166855		435922	1.00 50.0	5.00 100	10.0		25.0
Trichlorofluoromethane	FB	Ave	9006 589517	54639 1207998	114337		290835	1.00 50.0	5.00 100	10.0		25.0
Ethyl ether	FB	Ave	9914 439807	45717 820950	90718		225384	1.00 50.0	5.00 100	10.0		25.0
Acrolein	FB	Ave	1782 99011	8543 252059	14571		39629	5.00 250	25.0 500	50.0		125
1,1-Dichloroethene	FB	Ave	9689 425023	44316 847248	83986		211310	1.00 50.0	5.00 100	10.0		25.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	9844 401282	44230 798550	83448		201964	1.00 50.0	5.00 100	10.0		25.0
Acetone	FB	Ave	23479 753711	78603 1371800	179549		405360	5.00 250	25.0 500	50.0		125
Iodomethane	FB	Ave	17972 780016	79741 1516172	155350		392090	1.00 50.0	5.00 100	10.0		25.0
Carbon disulfide	FB	Ave	40706 1377041	146449 2737425	284714		689295	1.00 50.0	5.00 100	10.0		25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Allyl chloride	FB	Ave	20802 888140	90972 1800363	184066		444680	1.00 50.0	5.00 100	10.0		25.0
Methyl acetate	FB	Ave	71678 2994112	324939 6034804	647718		1581114	5.00 250	25.0 500	50.0		125
Methylene Chloride	FB	Ave	12076 491446	48911 937297	97774		239849	1.00 50.0	5.00 100	10.0		25.0
2-Methyl-2-propanol	FB	Qua	8767 328412	37690 524267	48653		132055	10.0 500	50.0 1000	100		250
trans-1,2-Dichloroethene	FB	Ave	10623 459262	48335 929338	95390		235790	1.00 50.0	5.00 100	10.0		25.0
Methyl tert-butyl ether	FB	Ave	30645 1339342	137883 2647855	280477		701575	1.00 50.0	5.00 100	10.0		25.0
Acrylonitrile	FB	Ave	63420 2221565	246966 4274681	518415	34689	1263297	10.0 500	50.0 1000	100	5.00	250
Hexane	FB	Ave	20431 723264	81057 1446353	154180		352896	1.00 50.0	5.00 100	10.0		25.0
1,1-Dichloroethane	FB	Ave	22734 925784	99591 1850165	191930		476994	1.00 50.0	5.00 100	10.0		25.0
Vinyl acetate	FB	Ave	29815 1512689	138752 3036276	289008		771052	2.00 100	10.0 200	20.0		50.0
2,2-Dichloropropane	FB	Ave	8096 341780	36038 681224	72480		174046	1.00 50.0	5.00 100	10.0		25.0
cis-1,2-Dichloroethene	FB	Ave	12854 520577	54082 1037772	105347		259994	1.00 50.0	5.00 100	10.0		25.0
2-Butanone (MEK)	FB	Ave	44660 1742361	185174 3505075	429739		1065817	5.00 250	25.0 500	50.0		125
Chlorobromomethane	FB	Ave	5419 254015	25688 513550	52679		127336	1.00 50.0	5.00 100	10.0		25.0
Tetrahydrofuran	FB	Ave	13395 487700	59312 943731	117459		280386	2.00 100	10.0 200	20.0		50.0
Chloroform	FB	Ave	17355 716220	75622 1439372	147176		361189	1.00 50.0	5.00 100	10.0		25.0
1,1,1-Trichloroethane	FB	Ave	11020 530540	49779 1095183	104593		262135	1.00 50.0	5.00 100	10.0		25.0
Cyclohexane	FB	Ave	22579 946052	103374 1875747	200056		465412	1.00 50.0	5.00 100	10.0		25.0
Carbon tetrachloride	FB	Ave	7589 424799	37609 896916	76341		200788	1.00 50.0	5.00 100	10.0		25.0
1,1-Dichloropropene	FB	Ave	14434 584588	61174 1157633	118811		287993	1.00 50.0	5.00 100	10.0		25.0
Isobutyl alcohol	FB	Ave	11450 736926	57510 1414909	106954		357299	25.0 1250	125 2500	250		625

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	45549 1868906	198647 3750233	377683		933180	1.00 50.0	5.00 100	10.0		25.0
1,2-Dichloroethane	FB	Ave	14670 627926	63728 1240441	134514		327388	1.00 50.0	5.00 100	10.0		25.0
n-Heptane	FB	Ave	22230 975424	86517 1957776	183669		484991	1.00 50.0	5.00 100	10.0		25.0
Trichloroethene	FB	Ave	11432 469515	47763 934238	94487		230157	1.00 50.0	5.00 100	10.0		25.0
Methylcyclohexane	FB	Ave	19906 813110	84672 1625121	165394		405849	1.00 50.0	5.00 100	10.0		25.0
1,2-Dichloropropane	FB	Ave	12221 540764	55529 1074115	112488		274706	1.00 50.0	5.00 100	10.0		25.0
Dibromomethane	FB	Ave	6304 287708	28929 567276	59625		147985	1.00 50.0	5.00 100	10.0		25.0
1,4-Dioxane	CBZ	Qua	1050 106940	11155 173549	17908		45605	20.0 1000	100 2000	200		500
Bromodichloromethane	FB	Ave	10093 548294	48327 1114765	100796		269043	1.00 50.0	5.00 100	10.0		25.0
2-Chloroethyl vinyl ether	FB	Ave	8157 432864	40462 884895	83904		220155	1.00 50.0	5.00 100	10.0		25.0
cis-1,3-Dichloropropene	FB	Ave	15052 786851	66898 1525474	140125		367035	1.00 50.0	5.00 100	10.0		25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	97941 4952893	462340 8214485	940280		2525139	5.00 250	25.0 500	50.0		125
Toluene	CBZ	Ave	26435 1111474	108263 2290695	216747		551318	1.00 50.0	5.00 100	10.0		25.0
trans-1,3-Dichloropropene	CBZ	Ave	11145 639449	52444 1324045	110135		306687	1.00 50.0	5.00 100	10.0		25.0
Ethyl methacrylate	CBZ	Ave	13296 747611	66677 1453749	139769		365597	1.00 50.0	5.00 100	10.0		25.0
1,1,2-Trichloroethane	CBZ	Ave	8240 374997	35157 755473	70575		178412	1.00 50.0	5.00 100	10.0		25.0
Tetrachloroethene	CBZ	Ave	11746 516456	49500 1031151	100798		255116	1.00 50.0	5.00 100	10.0		25.0
1,3-Dichloropropane	CBZ	Ave	16646 791034	76194 1592795	152367		384037	1.00 50.0	5.00 100	10.0		25.0
2-Hexanone	CBZ	Ave	80784 3548430	370420 7415250	772419		1842930	5.00 250	25.0 500	50.0		125
Dibromochloromethane	CBZ	Ave	6919 423982	30568 915926	68475		190621	1.00 50.0	5.00 100	10.0		25.0
1,2-Dibromoethane	CBZ	Ave	9602 469809	43730 958915	87704		231461	1.00 50.0	5.00 100	10.0		25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	28319 1252949	124951 2622311	251500		616711	1.00 50.0	5.00 100	10.0		25.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6756 403147	33144 865477	69073		190993	1.00 50.0	5.00 100	10.0		25.0
Ethylbenzene	CBZ	Ave	45067 2045594	198329 4193920	395579		1000911	1.00 50.0	5.00 100	10.0		25.0
m,p-Xylene	CBZ	Ave	17793 826172	81864 1681485	158704		402410	1.00 50.0	5.00 100	10.0		25.0
o-Xylene	CBZ	Ave	17628 838600	83239 1731579	163798		415694	1.00 50.0	5.00 100	10.0		25.0
Styrene	CBZ	Ave	28357 1356236	131635 2782557	263028		662305	1.00 50.0	5.00 100	10.0		25.0
Bromoform	CBZ	Lin1	4283 334282	21761 749125	49354		142536	1.00 50.0	5.00 100	10.0		25.0
Isopropylbenzene	DCB	Ave	44543 2057481	202714 4223086	401819		1022789	1.00 50.0	5.00 100	10.0		25.0
Bromobenzene	DCB	Ave	12767 568225	56442 1174515	111656		278277	1.00 50.0	5.00 100	10.0		25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	15367 701472	68450 1435982	140286		347881	1.00 50.0	5.00 100	10.0		25.0
1,2,3-Trichloropropane	DCB	Ave	4529 203591	20340 428074	41555		103460	1.00 50.0	5.00 100	10.0		25.0
trans-1,4-Dichloro-2-butene	DCB	Lin	1958 203579	11719 447289	28201		87336	1.00 50.0	5.00 100	10.0		25.0
N-Propylbenzene	DCB	Ave	50869 2341166	235385 4823533	468342		1165385	1.00 50.0	5.00 100	10.0		25.0
2-Chlorotoluene	DCB	Ave	10991 482305	48629 985775	97308		240671	1.00 50.0	5.00 100	10.0		25.0
1,3,5-Trimethylbenzene	DCB	Ave	35230 1615890	158970 3365093	321073		791979	1.00 50.0	5.00 100	10.0		25.0
4-Chlorotoluene	DCB	Ave	11012 485336	49412 992693	95846		239295	1.00 50.0	5.00 100	10.0		25.0
tert-Butylbenzene	DCB	Ave	7756 396000	39180 800182	75444		191393	1.00 50.0	5.00 100	10.0		25.0
1,2,4-Trimethylbenzene	DCB	Ave	36231 1667376	165219 3400960	332573		827310	1.00 50.0	5.00 100	10.0		25.0
sec-Butylbenzene	DCB	Ave	45167 2136513	211439 4394599	416778		1054095	1.00 50.0	5.00 100	10.0		25.0
1,3-Dichlorobenzene	DCB	Ave	21518 999487	100029 2042386	200864		494228	1.00 50.0	5.00 100	10.0		25.0
4-Isopropyltoluene	DCB	Ave	38203 1782589	178055 3680697	350597		874879	1.00 50.0	5.00 100	10.0		25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 195577

SDG No.:

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 01:58 Calibration End Date: 07/31/2014 04:21 Calibration ID: 19654

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	23956 981822	102220 2016000	200405		495518	1.00 50.0	5.00 100	10.0		25.0
n-Butylbenzene	DCB	Ave	35471 1584245	160391 3293855	315950		782512	1.00 50.0	5.00 100	10.0		25.0
1,2-Dichlorobenzene	DCB	Ave	22818 988151	102524 1977263	202536		497535	1.00 50.0	5.00 100	10.0		25.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	2149 139753	10580 304373	24685		65408	1.00 50.0	5.00 100	10.0		25.0
1,2,4-Trichlorobenzene	DCB	Ave	16632 752063	73453 1511356	149731		366308	1.00 50.0	5.00 100	10.0		25.0
Hexachlorobutadiene	DCB	Ave	6431 275214	28189 580621	54147		132074	1.00 50.0	5.00 100	10.0		25.0
Naphthalene	DCB	Ave	47712 2352897	226208 4880938	459928		1146659	1.00 50.0	5.00 100	10.0		25.0
1,2,3-Trichlorobenzene	DCB	Ave	15461 719837	72018 1458329	142596		350083	1.00 50.0	5.00 100	10.0		25.0
Dibromofluoromethane (Surr)	FB	Ave	194973 187913	189834 192456	187591	209379	190828	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	122004 115873	116298 116947	118931	132304	118964	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	802662 797417	771750 803623	775612	829180	781151	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	249268 247321	239689 254417	238218	259055	241775	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6657.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Jul-2014 01:58:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0034227-004
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 08:41:28 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: sobolr Date: 31-Jul-2014 08:41:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.745	4.745	0.000	99	182358	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.020	7.019	0.001	86	330781	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.875	8.874	0.001	93	341137	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.265	4.271	-0.006	95	209379	25.0	25.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.514	4.514	0.000	95	132304	25.0	25.6	
$ 5 Toluene-d8 (Surr)	98	5.913	5.913	0.000	94	829180	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	7.944	7.944	0.000	94	259055	25.0	25.3	
10 Dichlorodifluoromethane	85		1.297					ND	
12 Chloromethane	50		1.388					ND	
13 Vinyl chloride	62		1.492					ND	
144 Butadiene	54		1.504					ND	
14 Bromomethane	94		1.753					ND	
15 Chloroethane	64		1.838					ND	
16 Dichlorofluoromethane	67		2.027					ND	
17 Trichlorofluoromethane	101		2.057					ND	
18 Ethyl ether	59		2.270					ND	
20 Acrolein	56		2.398					ND	
22 1,1-Dichloroethene	96		2.452					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.501					ND	
23 Acetone	43		2.537					ND	
25 Iodomethane	142		2.586					ND	
26 Carbon disulfide	76		2.629					ND	
28 3-Chloro-1-propene	41		2.775					ND	
27 Methyl acetate	43		2.811					ND	
30 Methylene Chloride	84		2.890					ND	
31 2-Methyl-2-propanol	59		3.030					ND	
32 Methyl tert-butyl ether	73		3.097					ND	
34 trans-1,2-Dichloroethene	96		3.097					ND	
33 Acrylonitrile	53	3.116	3.109	0.007	98	34689	5.00	5.58	M
35 Hexane	57		3.292					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63		3.444					ND	
37 Vinyl acetate	43		3.492					ND	
44 2,2-Dichloropropane	77		3.881					ND	
45 cis-1,2-Dichloroethene	96		3.900					ND	
43 2-Butanone (MEK)	43		3.918					ND	
48 Chlorobromomethane	128		4.082					ND	
49 Tetrahydrofuran	42		4.113					ND	
50 Chloroform	83		4.149					ND	
51 1,1,1-Trichloroethane	97		4.259					ND	
52 Cyclohexane	56		4.283					ND	
55 Carbon tetrachloride	117		4.374					ND	
54 1,1-Dichloropropene	75		4.380					ND	
57 Benzene	78		4.532					ND	
53 Isobutyl alcohol	43		4.532					ND	
58 1,2-Dichloroethane	62		4.569					ND	
59 n-Heptane	43		4.702					ND	
62 Trichloroethene	95		5.013					ND	
64 Methylcyclohexane	83		5.128					ND	
65 1,2-Dichloropropane	63		5.189					ND	
67 Dibromomethane	93		5.286					ND	
66 1,4-Dioxane	88		5.304					ND	
68 Dichlorobromomethane	83		5.408					ND	
69 2-Chloroethyl vinyl ether	63		5.615					ND	
72 cis-1,3-Dichloropropene	75		5.724					ND	
73 4-Methyl-2-pentanone (MIBK	43		5.827					ND	
74 Toluene	92		5.961					ND	
77 trans-1,3-Dichloropropene	75		6.150					ND	
75 Ethyl methacrylate	69		6.192					ND	
79 1,1,2-Trichloroethane	83		6.290					ND	
81 Tetrachloroethene	166		6.369					ND	
82 1,3-Dichloropropane	76		6.411					ND	
80 2-Hexanone	43		6.460					ND	
83 Chlorodibromomethane	129		6.594					ND	
84 Ethylene Dibromide	107		6.673					ND	
87 Chlorobenzene	112		7.044					ND	
89 1,1,1,2-Tetrachloroethane	131		7.105					ND	
88 Ethylbenzene	91		7.111					ND	
90 m-Xylene & p-Xylene	106		7.202					ND	
91 o-Xylene	106		7.518					ND	
92 Styrene	104		7.530					ND	
95 Bromoform	173		7.707					ND	
94 Isopropylbenzene	105		7.804					ND	
101 Bromobenzene	156		8.065					ND	
97 1,1,2,2-Tetrachloroethane	83		8.078					ND	
100 1,2,3-Trichloropropane	110		8.108					ND	
99 N-Propylbenzene	91		8.132					ND	
103 2-Chlorotoluene	126		8.211					ND	
102 1,3,5-Trimethylbenzene	105		8.272					ND	
98 trans-1,4-Dichloro-2-buten	53		8.272					ND	
105 4-Chlorotoluene	126		8.303					ND	
106 tert-Butylbenzene	134		8.534					ND	
107 1,2,4-Trimethylbenzene	105		8.576					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105		8.710					ND	
111 1,3-Dichlorobenzene	146		8.820					ND	
110 4-Isopropyltoluene	119		8.832					ND	
113 1,4-Dichlorobenzene	146		8.899					ND	
115 n-Butylbenzene	91		9.166					ND	
116 1,2-Dichlorobenzene	146		9.203					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.853					ND	
119 1,2,4-Trichlorobenzene	180		10.522					ND	
120 Hexachlorobutadiene	225		10.650					ND	
121 Naphthalene	128		10.729					ND	
122 1,2,3-Trichlorobenzene	180		10.924					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					0	
S 126 1,3-Dichloropropene, Total	1		30.000					0	
S 123 Total BTEX	1		30.000					0	
S 124 Xylenes, Total	1		30.000					0	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
M - Manually Integrated

Reagents:

8260 CORP mix_00017	Amount Added:	0.50	Units: uL	
GAS CORP mix_00039	Amount Added:	0.50	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

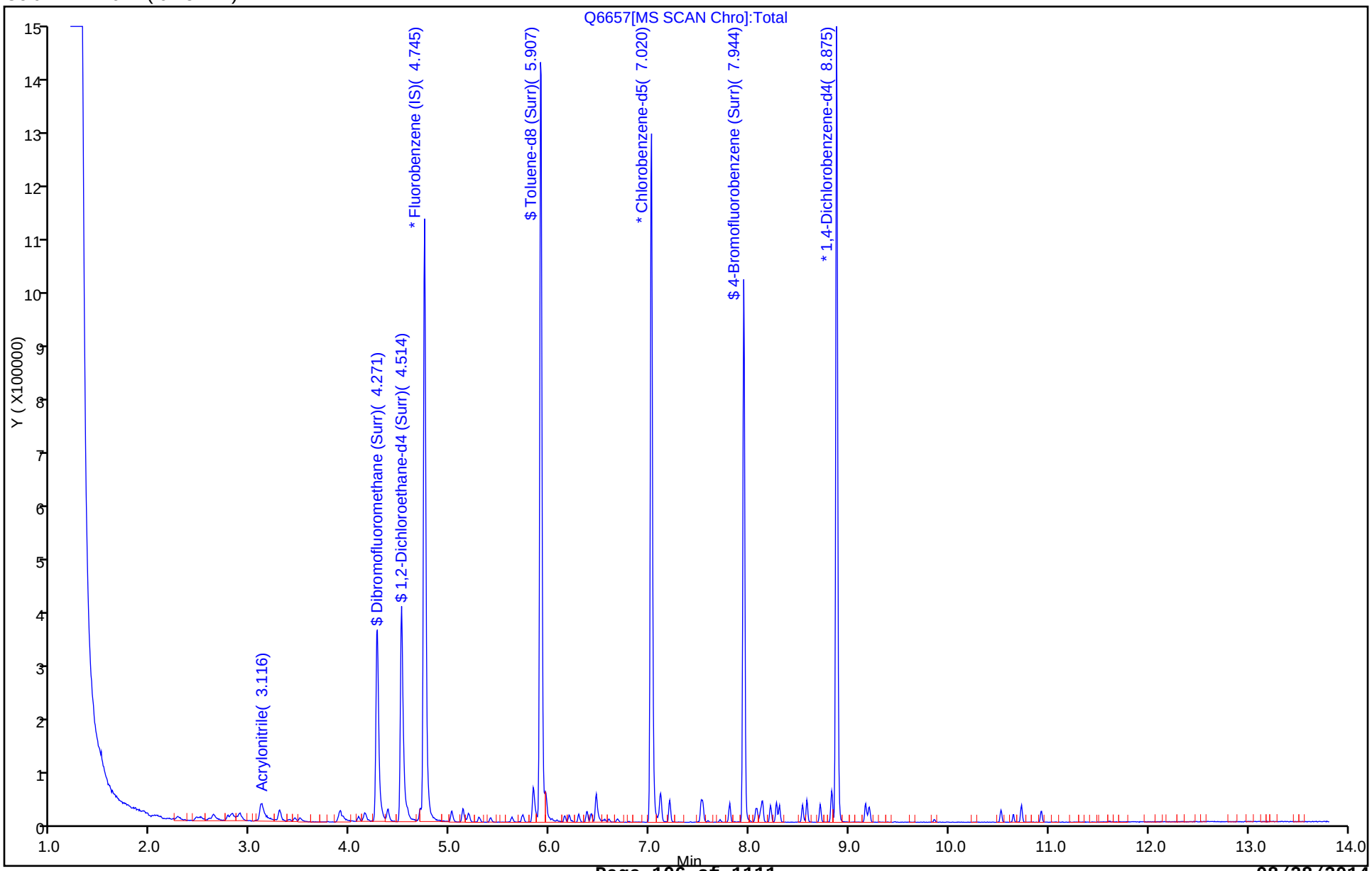
Report Date: 31-Jul-2014 08:41:29 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6657.D

Injection Date:	31-Jul-2014 01:58:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

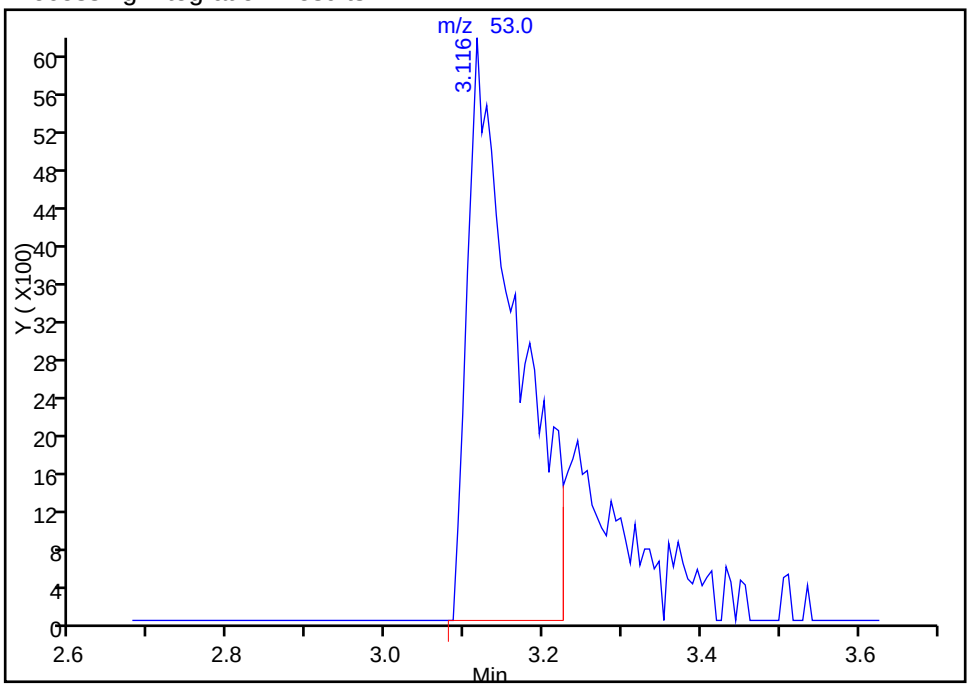
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6657.D
Injection Date: 31-Jul-2014 01:58:30 Instrument ID: HP5973Q
Lims ID: IC
Client ID:
Operator ID: NMD ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

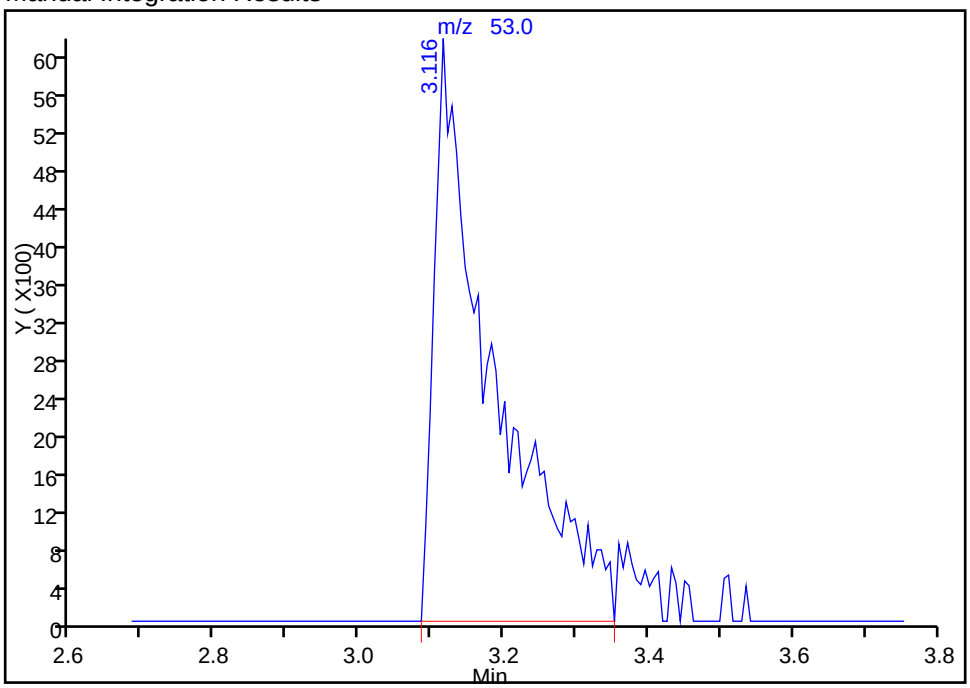
Processing Integration Results

RT: 3.12
Response: 26814
Amount: 4.624105



Manual Integration Results

RT: 3.12
Response: 34689
Amount: 5.578078



Reviewer: sobolr, 31-Jul-2014 08:34:39
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6658.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Jul-2014 02:22:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0034227-005
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 09:24:44 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: sobolr Date: 31-Jul-2014 08:46:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.744	4.745	-0.001	99	170856	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.019	7.019	0.000	87	323548	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.874	8.874	0.000	94	329136	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.270	4.271	-0.001	96	194973	25.0	25.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.513	4.514	-0.001	96	122004	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	5.912	5.913	-0.001	94	802662	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	7.943	7.944	-0.001	95	249268	25.0	24.8	
10 Dichlorodifluoromethane	85	1.284	1.297	-0.013	95	12363	1.00	1.04	M
12 Chloromethane	50	1.388	1.388	0.000	98	19116	1.00	1.15	
13 Vinyl chloride	62	1.485	1.492	-0.007	97	17256	1.00	1.03	
144 Butadiene	54	1.509	1.504	0.005	97	18316	1.00	1.11	
14 Bromomethane	94	1.759	1.753	0.006	52	8407	1.00	1.05	
15 Chloroethane	64	1.844	1.838	0.006	41	7750	1.00	1.05	
16 Dichlorofluoromethane	67	2.026	2.027	-0.001	97	18819	1.00	1.07	
17 Trichlorofluoromethane	101	2.050	2.057	-0.007	36	9006	1.00	0.7925	
18 Ethyl ether	59	2.269	2.270	-0.001	93	9914	1.00	1.08	
20 Acrolein	56	2.409	2.398	0.011	41	1782	5.00	4.76	
22 1,1-Dichloroethene	96	2.458	2.452	0.006	95	9689	1.00	1.09	
21 1,1,2-Trichloro-1,2,2-trif	101	2.500	2.501	-0.001	88	9844	1.00	1.13	
23 Acetone	43	2.537	2.537	0.000	99	23479	5.00	6.77	
25 Iodomethane	142	2.592	2.586	0.006	95	17972	1.00	1.10	
26 Carbon disulfide	76	2.634	2.629	0.005	99	40706	1.00	1.33	
28 3-Chloro-1-propene	41	2.774	2.775	-0.001	89	20802	1.00	1.10	
27 Methyl acetate	43	2.817	2.811	0.006	99	71678	5.00	5.48	
30 Methylene Chloride	84	2.884	2.890	-0.006	90	12076	1.00	1.18	
31 2-Methyl-2-propanol	59	3.042	3.030	0.012	93	8767	10.0	21.9	
32 Methyl tert-butyl ether	73	3.103	3.097	0.006	98	30645	1.00	1.08	
34 trans-1,2-Dichloroethene	96	3.096	3.097	-0.001	76	10623	1.00	1.08	
33 Acrylonitrile	53	3.109	3.109	0.000	100	63420	10.0	11.4	
35 Hexane	57	3.291	3.292	-0.001	93	20431	1.00	1.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.443	3.444	-0.001	94	22734	1.00	1.13	
37 Vinyl acetate	43	3.492	3.492	0.000	97	29815	2.00	1.97	
44 2,2-Dichloropropane	77	3.875	3.881	-0.006	89	8096	1.00	1.10	
45 cis-1,2-Dichloroethene	96	3.899	3.900	-0.001	82	12854	1.00	1.16	
43 2-Butanone (MEK)	43	3.924	3.918	0.006	100	44660	5.00	5.54	
48 Chlorobromomethane	128	4.088	4.082	0.006	97	5419	1.00	1.02	
49 Tetrahydrofuran	42	4.124	4.113	0.011	93	13395	2.00	2.34	
50 Chloroform	83	4.149	4.149	-0.001	96	17355	1.00	1.13	
51 1,1,1-Trichloroethane	97	4.252	4.259	-0.007	42	11020	1.00	1.02	
52 Cyclohexane	56	4.282	4.283	-0.001	95	22579	1.00	1.11	
55 Carbon tetrachloride	117	4.374	4.374	0.000	59	7589	1.00	0.9264	
54 1,1-Dichloropropene	75	4.380	4.380	0.000	92	14434	1.00	1.16	
57 Benzene	78	4.538	4.532	0.006	96	45549	1.00	1.14	
53 Isobutyl alcohol	43	4.538	4.532	0.006	37	11450	25.0	22.0	
58 1,2-Dichloroethane	62	4.568	4.569	-0.001	95	14670	1.00	1.09	
59 n-Heptane	43	4.702	4.702	0.000	91	22230	1.00	1.13	
62 Trichloroethene	95	5.018	5.013	0.005	96	11432	1.00	1.15	
64 Methylcyclohexane	83	5.134	5.128	0.006	92	19906	1.00	1.15	
65 1,2-Dichloropropane	63	5.188	5.189	-0.001	96	12221	1.00	1.07	
67 Dibromomethane	93	5.286	5.286	0.000	87	6304	1.00	1.05	
66 1,4-Dioxane	88	5.316	5.304	0.012	1	1050	20.0	36.3	M
68 Dichlorobromomethane	83	5.407	5.408	-0.001	94	10093	1.00	0.9479	
69 2-Chloroethyl vinyl ether	63	5.620	5.615	0.005	91	8157	1.00	0.9426	
72 cis-1,3-Dichloropropene	75	5.730	5.724	0.006	91	15052	1.00	1.01	
73 4-Methyl-2-pentanone (MIBK	43	5.833	5.827	0.006	98	97941	5.00	5.07	
74 Toluene	92	5.961	5.961	0.000	98	26435	1.00	1.13	
77 trans-1,3-Dichloropropene	75	6.149	6.150	-0.001	96	11145	1.00	0.9236	
75 Ethyl methacrylate	69	6.192	6.192	0.000	93	13296	1.00	0.9216	
79 1,1,2-Trichloroethane	83	6.289	6.290	-0.001	90	8240	1.00	1.09	
81 Tetrachloroethene	166	6.374	6.369	0.005	94	11746	1.00	1.10	
82 1,3-Dichloropropane	76	6.417	6.411	0.006	95	16646	1.00	1.04	
80 2-Hexanone	43	6.459	6.460	-0.001	98	80784	5.00	5.26	
83 Chlorodibromomethane	129	6.593	6.594	-0.001	90	6919	1.00	0.9022	
84 Ethylene Dibromide	107	6.678	6.673	0.005	95	9602	1.00	1.02	
87 Chlorobenzene	112	7.043	7.044	-0.001	95	28319	1.00	1.08	
89 1,1,1,2-Tetrachloroethane	131	7.104	7.105	-0.001	55	6756	1.00	0.8898	
88 Ethylbenzene	91	7.110	7.111	-0.001	98	45067	1.00	1.07	
90 m-Xylene & p-Xylene	106	7.201	7.202	-0.001	0	17793	1.00	1.05	
91 o-Xylene	106	7.518	7.518	0.000	95	17628	1.00	1.02	
92 Styrene	104	7.536	7.530	0.006	95	28357	1.00	1.03	
95 Bromoform	173	7.706	7.707	-0.001	94	4283	1.00	1.43	
94 Isopropylbenzene	105	7.803	7.804	-0.001	95	44543	1.00	1.03	
101 Bromobenzene	156	8.065	8.065	0.000	87	12767	1.00	1.06	
97 1,1,2,2-Tetrachloroethane	83	8.083	8.078	0.005	94	15367	1.00	1.04	
100 1,2,3-Trichloropropane	110	8.107	8.108	-0.001	87	4529	1.00	1.03	
98 trans-1,4-Dichloro-2-buten	53	8.120	8.120	0.000	65	1958	1.00	3.48	
99 N-Propylbenzene	91	8.132	8.132	0.000	98	50869	1.00	1.02	
103 2-Chlorotoluene	126	8.217	8.211	0.006	96	10991	1.00	1.06	
102 1,3,5-Trimethylbenzene	105	8.272	8.272	0.000	95	35230	1.00	1.03	
105 4-Chlorotoluene	126	8.302	8.303	-0.001	97	11012	1.00	1.06	
106 tert-Butylbenzene	134	8.533	8.534	-0.001	92	7756	1.00	0.9571	
107 1,2,4-Trimethylbenzene	105	8.576	8.576	0.000	97	36231	1.00	1.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.710	8.710	0.000	93	45167	1.00	1.01	
111 1,3-Dichlorobenzene	146	8.825	8.820	0.005	98	21518	1.00	1.02	
110 4-Isopropyltoluene	119	8.825	8.832	-0.007	98	38203	1.00	1.02	
113 1,4-Dichlorobenzene	146	8.898	8.899	-0.001	96	23956	1.00	1.11	
115 n-Butylbenzene	91	9.166	9.166	0.000	97	35471	1.00	1.05	
116 1,2-Dichlorobenzene	146	9.202	9.203	-0.001	97	22818	1.00	1.07	
117 1,2-Dibromo-3-Chloropropan	75	9.853	9.853	0.000	75	2149	1.00	0.8144	
119 1,2,4-Trichlorobenzene	180	10.522	10.522	0.000	93	16632	1.00	1.05	
120 Hexachlorobutadiene	225	10.643	10.650	-0.007	93	6431	1.00	1.09	
121 Naphthalene	128	10.729	10.729	-0.001	97	47712	1.00	0.9801	
122 1,2,3-Trichlorobenzene	180	10.929	10.924	0.005	94	15461	1.00	1.02	
S 125 1,2-Dichloroethene, Total	1				0			2.24	
S 126 1,3-Dichloropropene, Total	1				0			1.93	
S 123 Total BTEX	1				0			5.42	
S 124 Xylenes, Total	1				0			2.07	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260 CORP mix_00017	Amount Added:	1.00	Units: uL	
GAS CORP mix_00039	Amount Added:	1.00	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

Report Date: 31-Jul-2014 09:24:44 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6658.D

Injection Date: 31-Jul-2014 02:22:30 Instrument ID: HP5973Q Operator ID: NMD

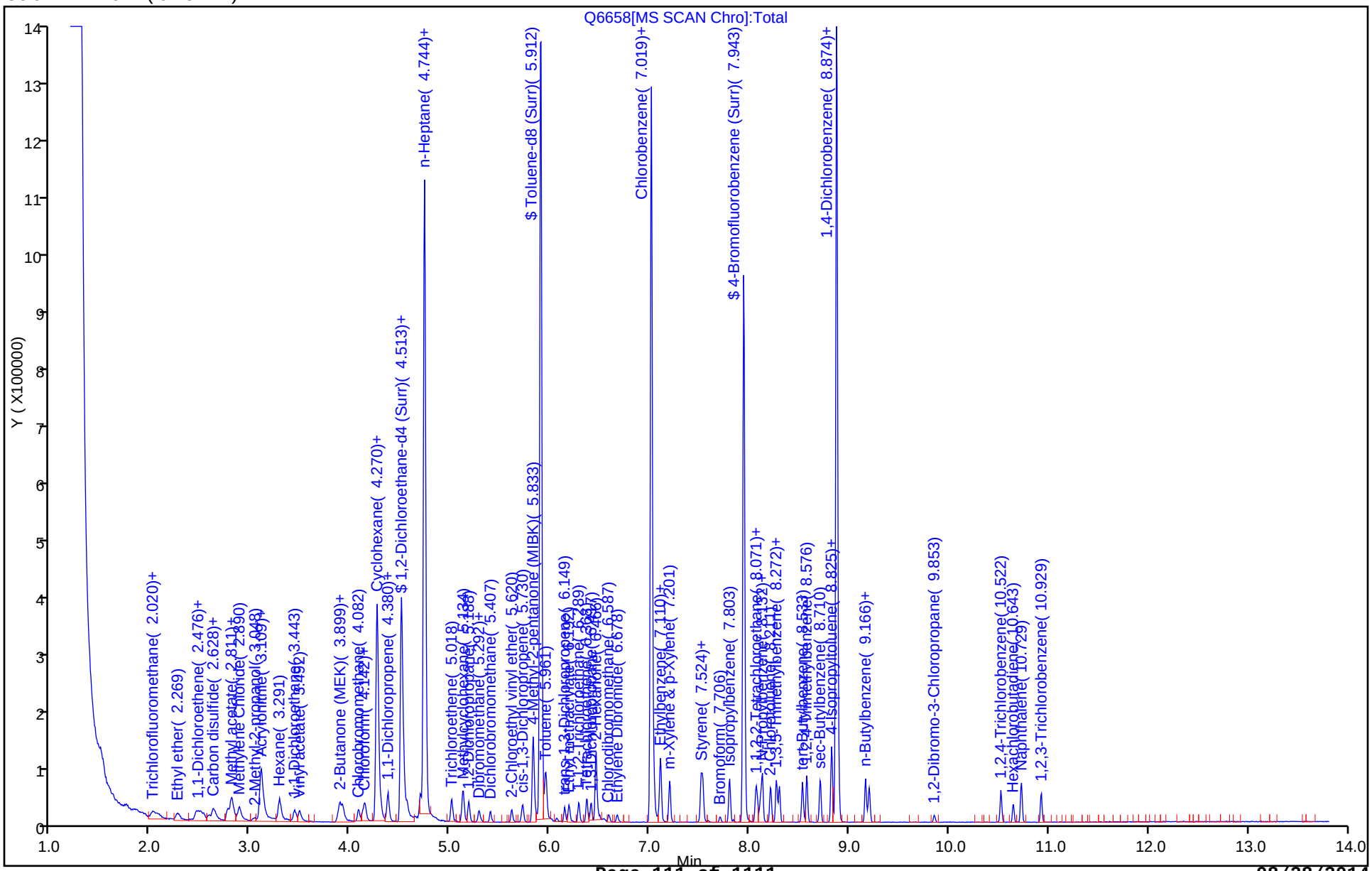
Lims ID: IC 2 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: Q-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

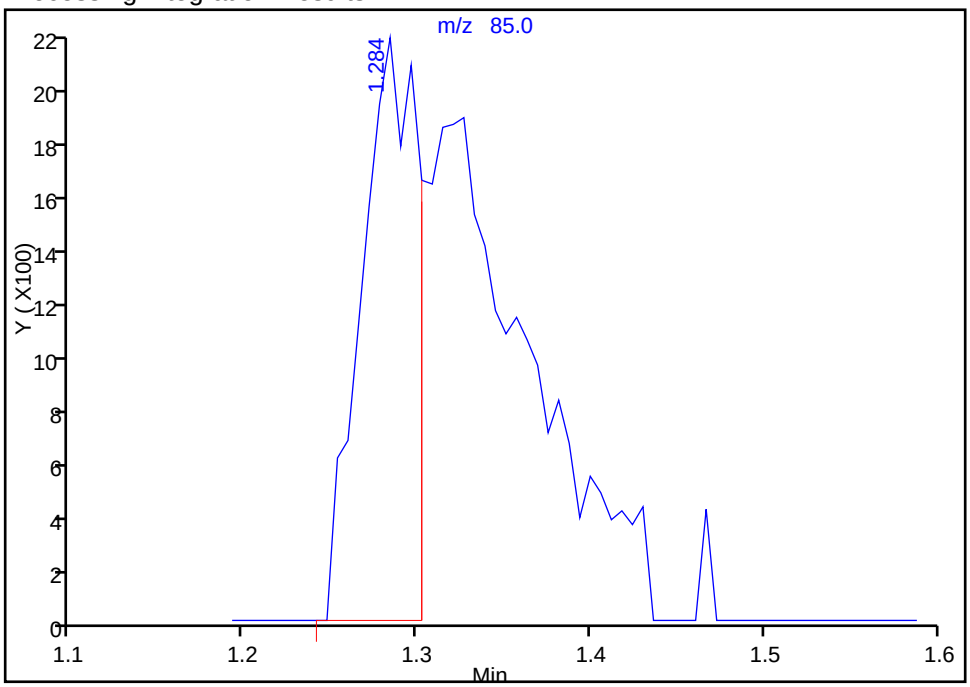
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6658.D
Injection Date: 31-Jul-2014 02:22:30 Instrument ID: HP5973Q
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

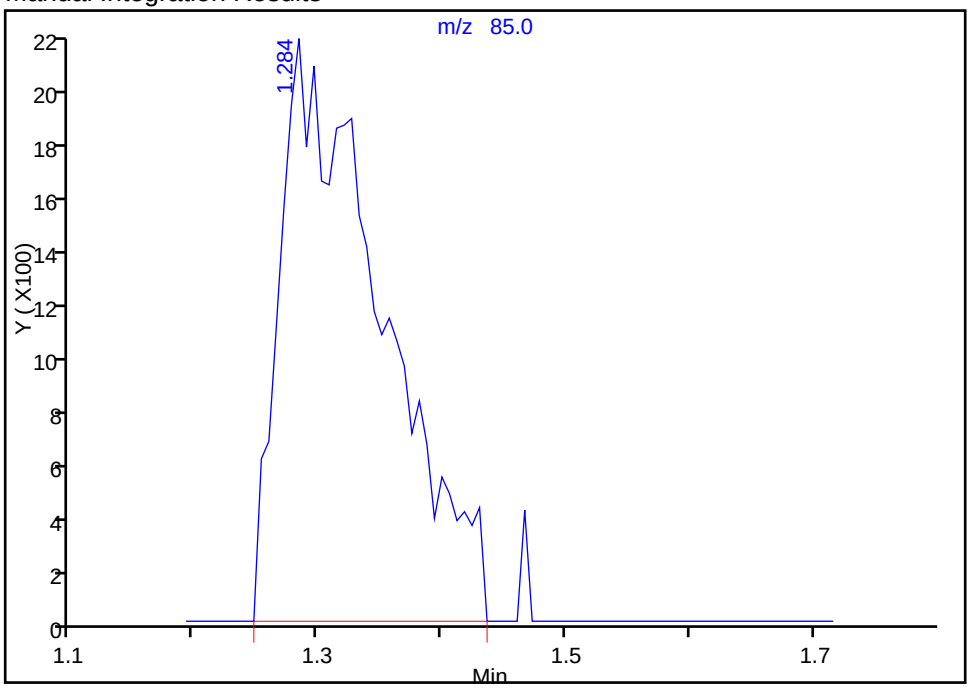
Processing Integration Results

RT: 1.28
Response: 4895
Amount: 0.837017



Manual Integration Results

RT: 1.28
Response: 12363
Amount: 1.035598



Reviewer: sobolr, 31-Jul-2014 09:18:31
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

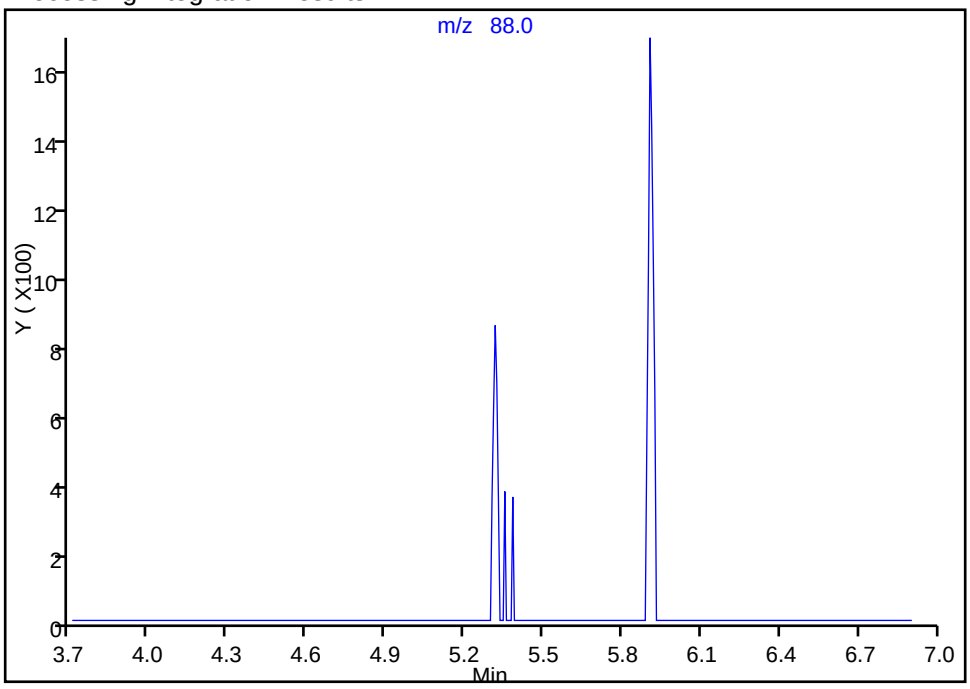
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6658.D
Injection Date: 31-Jul-2014 02:22:30 Instrument ID: HP5973Q
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

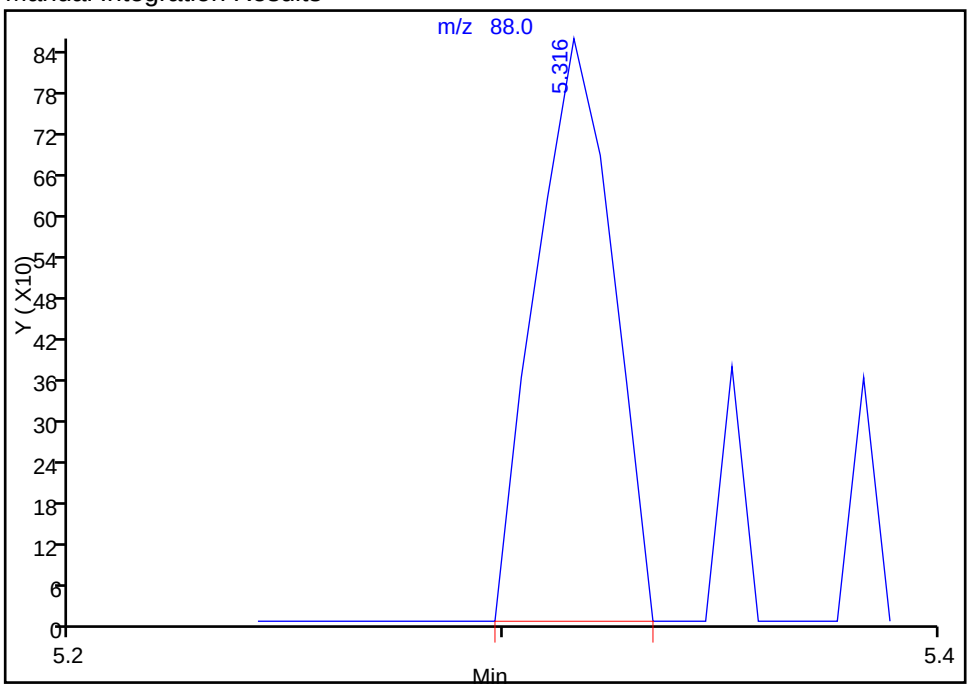
Not Detected
Expected RT: 5.30

Processing Integration Results



Manual Integration Results

RT: 5.32
Response: 1050
Amount: 36.287688



Reviewer: sobolr, 31-Jul-2014 09:18:31
Audit Action: Manually Integrated
Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6659.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 31-Jul-2014 02:46:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0034227-006
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 09:20:57 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: sobolr Date: 31-Jul-2014 08:47:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.746	4.745	0.001	99	160897	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.020	7.019	0.001	86	305983	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.875	8.874	0.001	93	317641	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.271	4.271	0.000	96	189834	25.0	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.515	4.514	0.001	96	116298	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	5.907	5.913	-0.006	94	771750	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	7.944	7.944	0.000	95	239689	25.0	25.3	
10 Dichlorodifluoromethane	85	1.298	1.297	0.001	97	56066	5.00	4.99	
12 Chloromethane	50	1.389	1.388	0.001	99	83053	5.00	5.33	
13 Vinyl chloride	62	1.480	1.492	-0.012	97	87578	5.00	5.57	
144 Butadiene	54	1.498	1.504	-0.006	98	86221	5.00	5.57	
14 Bromomethane	94	1.748	1.753	-0.005	89	39817	5.00	5.26	
15 Chloroethane	64	1.839	1.838	0.001	99	37839	5.00	5.46	
16 Dichlorofluoromethane	67	2.015	2.027	-0.012	97	89343	5.00	5.37	
17 Trichlorofluoromethane	101	2.046	2.057	-0.011	92	54639	5.00	5.11	
18 Ethyl ether	59	2.271	2.270	0.001	94	45717	5.00	5.28	
20 Acrolein	56	2.417	2.398	0.019	83	8543	25.0	24.2	
22 1,1-Dichloroethene	96	2.453	2.452	0.001	97	44316	5.00	5.29	
21 1,1,2-Trichloro-1,2,2-trif	101	2.496	2.501	-0.005	92	44230	5.00	5.41	
23 Acetone	43	2.538	2.537	0.001	99	78603	25.0	24.1	
25 Iodomethane	142	2.587	2.586	0.001	95	79741	5.00	5.20	
26 Carbon disulfide	76	2.623	2.629	-0.006	99	146449	5.00	5.06	
28 3-Chloro-1-propene	41	2.775	2.775	0.000	90	90972	5.00	5.13	
27 Methyl acetate	43	2.812	2.811	0.001	99	324939	25.0	26.4	
30 Methylene Chloride	84	2.891	2.890	0.001	96	48911	5.00	5.06	
31 2-Methyl-2-propanol	59	3.037	3.030	0.007	96	37690	50.0	67.4	
32 Methyl tert-butyl ether	73	3.104	3.097	0.007	99	137883	5.00	5.14	
34 trans-1,2-Dichloroethene	96	3.098	3.097	0.001	76	48335	5.00	5.23	
33 Acrylonitrile	53	3.110	3.109	0.001	100	246966	50.0	45.8	
35 Hexane	57	3.292	3.292	0.000	95	81057	5.00	5.33	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.444	3.444	0.000	96	99591	5.00	5.28	
37 Vinyl acetate	43	3.493	3.492	0.001	97	138752	10.0	9.75	
44 2,2-Dichloropropane	77	3.882	3.881	0.001	92	36038	5.00	5.22	
45 cis-1,2-Dichloroethene	96	3.900	3.900	0.000	83	54082	5.00	5.17	
43 2-Butanone (MEK)	43	3.919	3.918	0.001	99	185174	25.0	24.9	
48 Chlorobromomethane	128	4.083	4.082	0.001	97	25688	5.00	5.16	
49 Tetrahydrofuran	42	4.119	4.113	0.006	93	59312	10.0	11.0	
50 Chloroform	83	4.150	4.149	0.001	95	75622	5.00	5.23	
51 1,1,1-Trichloroethane	97	4.259	4.259	0.000	98	49779	5.00	4.90	
52 Cyclohexane	56	4.283	4.283	0.000	96	103374	5.00	5.40	
55 Carbon tetrachloride	117	4.375	4.374	0.001	60	37609	5.00	4.88	
54 1,1-Dichloropropene	75	4.381	4.380	0.001	91	61174	5.00	5.22	
57 Benzene	78	4.533	4.532	0.001	97	198647	5.00	5.28	
53 Isobutyl alcohol	43	4.533	4.532	0.001	39	57510	125.0	113.9	
58 1,2-Dichloroethane	62	4.569	4.569	0.000	95	63728	5.00	5.05	
59 n-Heptane	43	4.703	4.702	0.001	99	86517	5.00	4.65	
62 Trichloroethene	95	5.019	5.013	0.006	96	47763	5.00	5.12	
64 Methylcyclohexane	83	5.129	5.128	0.001	94	84672	5.00	5.18	
65 1,2-Dichloropropane	63	5.190	5.189	0.001	98	55529	5.00	5.17	
67 Dibromomethane	93	5.287	5.286	0.001	93	28929	5.00	5.11	
66 1,4-Dioxane	88	5.305	5.304	0.001	93	11155	100.0	123.7	M
68 Dichlorobromomethane	83	5.402	5.408	-0.006	98	48327	5.00	4.82	
69 2-Chloroethyl vinyl ether	63	5.615	5.615	0.000	92	40462	5.00	4.97	
72 cis-1,3-Dichloropropene	75	5.725	5.724	0.001	93	66898	5.00	4.75	
73 4-Methyl-2-pentanone (MIBK	43	5.834	5.827	0.007	98	462340	25.0	25.3	
74 Toluene	92	5.962	5.961	0.001	97	108263	5.00	4.91	
77 trans-1,3-Dichloropropene	75	6.150	6.150	0.000	98	52444	5.00	4.60	
75 Ethyl methacrylate	69	6.193	6.192	0.001	93	66677	5.00	4.89	
79 1,1,2-Trichloroethane	83	6.290	6.290	0.000	92	35157	5.00	4.91	
81 Tetrachloroethene	166	6.369	6.369	0.000	95	49500	5.00	4.91	
82 1,3-Dichloropropane	76	6.412	6.411	0.001	95	76194	5.00	5.02	
80 2-Hexanone	43	6.461	6.460	0.001	98	370420	25.0	25.5	
83 Chlorodibromomethane	129	6.594	6.594	0.000	91	30568	5.00	4.21	
84 Ethylene Dibromide	107	6.680	6.673	0.007	100	43730	5.00	4.91	
87 Chlorobenzene	112	7.038	7.044	-0.006	95	124951	5.00	5.03	
89 1,1,1,2-Tetrachloroethane	131	7.105	7.105	0.000	91	33144	5.00	4.62	
88 Ethylbenzene	91	7.111	7.111	0.000	98	198329	5.00	4.99	
90 m-Xylene & p-Xylene	106	7.203	7.202	0.001	0	81864	5.00	5.11	
91 o-Xylene	106	7.519	7.518	0.001	96	83239	5.00	5.10	
92 Styrene	104	7.537	7.530	0.007	96	131635	5.00	5.03	
95 Bromoform	173	7.707	7.707	0.000	98	21761	5.00	4.11	
94 Isopropylbenzene	105	7.805	7.804	0.001	96	202714	5.00	4.85	
101 Bromobenzene	156	8.066	8.065	0.001	92	56442	5.00	4.86	
97 1,1,2,2-Tetrachloroethane	83	8.078	8.078	0.000	93	68450	5.00	4.79	
100 1,2,3-Trichloropropane	110	8.109	8.108	0.001	87	20340	5.00	4.82	
98 trans-1,4-Dichloro-2-buten	53	8.121	8.120	0.001	66	11719	5.00	6.21	
99 N-Propylbenzene	91	8.133	8.132	0.001	98	235385	5.00	4.91	
103 2-Chlorotoluene	126	8.212	8.211	0.001	97	48629	5.00	4.88	
102 1,3,5-Trimethylbenzene	105	8.273	8.272	0.001	95	158970	5.00	4.83	
105 4-Chlorotoluene	126	8.303	8.303	0.000	97	49412	5.00	4.95	
106 tert-Butylbenzene	134	8.534	8.534	0.000	93	39180	5.00	5.01	
107 1,2,4-Trimethylbenzene	105	8.577	8.576	0.001	96	165219	5.00	4.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.711	8.710	0.001	94	211439	5.00	4.90	
111 1,3-Dichlorobenzene	146	8.826	8.820	0.006	99	100029	5.00	4.91	
110 4-Isopropyltoluene	119	8.826	8.832	-0.006	98	178055	5.00	4.92	
113 1,4-Dichlorobenzene	146	8.893	8.899	-0.006	96	102220	5.00	4.93	
115 n-Butylbenzene	91	9.167	9.166	0.001	98	160391	5.00	4.92	
116 1,2-Dichlorobenzene	146	9.203	9.203	0.000	98	102524	5.00	4.98	
117 1,2-Dibromo-3-Chloropropan	75	9.860	9.853	0.007	84	10580	5.00	4.15	
119 1,2,4-Trichlorobenzene	180	10.523	10.522	0.001	94	73453	5.00	4.82	
120 Hexachlorobutadiene	225	10.651	10.650	0.001	95	28189	5.00	4.95	
121 Naphthalene	128	10.730	10.729	0.001	96	226208	5.00	4.81	
122 1,2,3-Trichlorobenzene	180	10.924	10.924	0.000	95	72018	5.00	4.94	
S 125 1,2-Dichloroethene, Total	1				0			10.4	
S 126 1,3-Dichloropropene, Total	1				0			9.35	
S 123 Total BTEX	1				0			25.4	
S 124 Xylenes, Total	1				0			10.2	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260 CORP mix_00017	Amount Added:	2.50	Units: uL	
GAS CORP mix_00039	Amount Added:	2.50	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

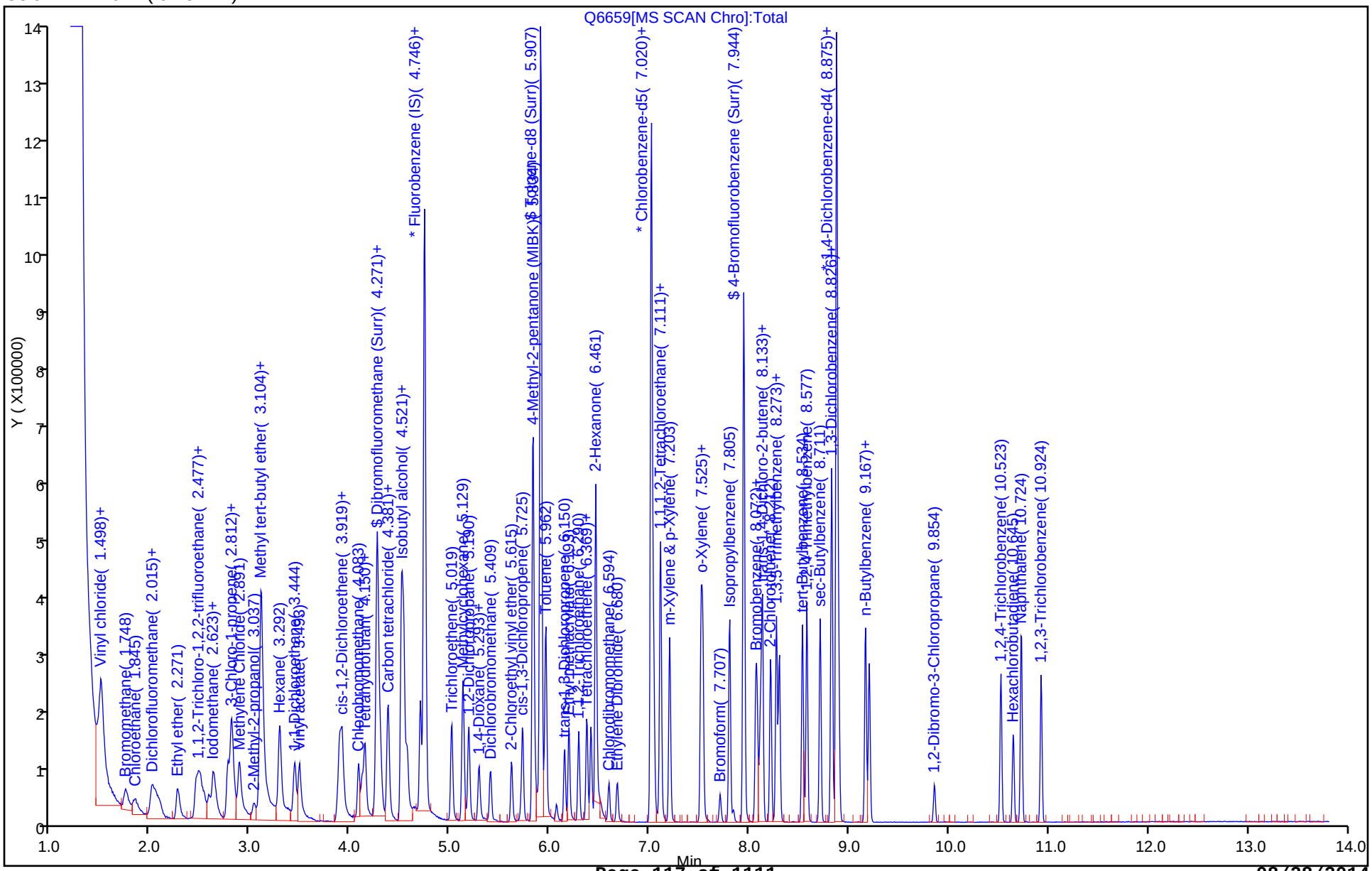
Report Date: 31-Jul-2014 09:20:58 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6659.D

Injection Date:	31-Jul-2014 02:46:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

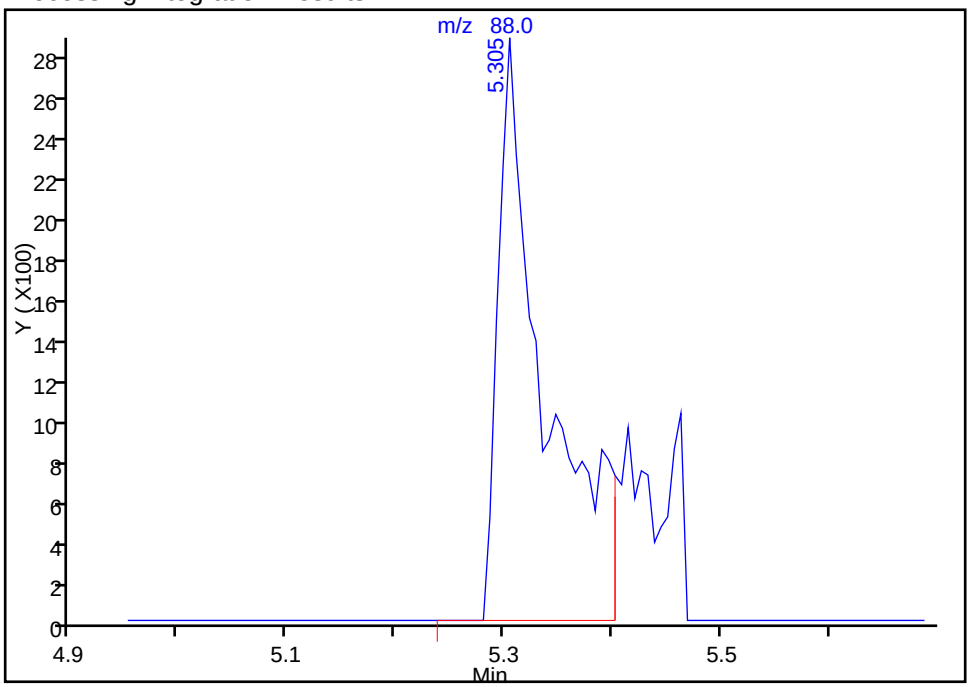
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6659.D
Injection Date: 31-Jul-2014 02:46:30 Instrument ID: HP5973Q
Lims ID: IC 3
Client ID:
Operator ID: NMD ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

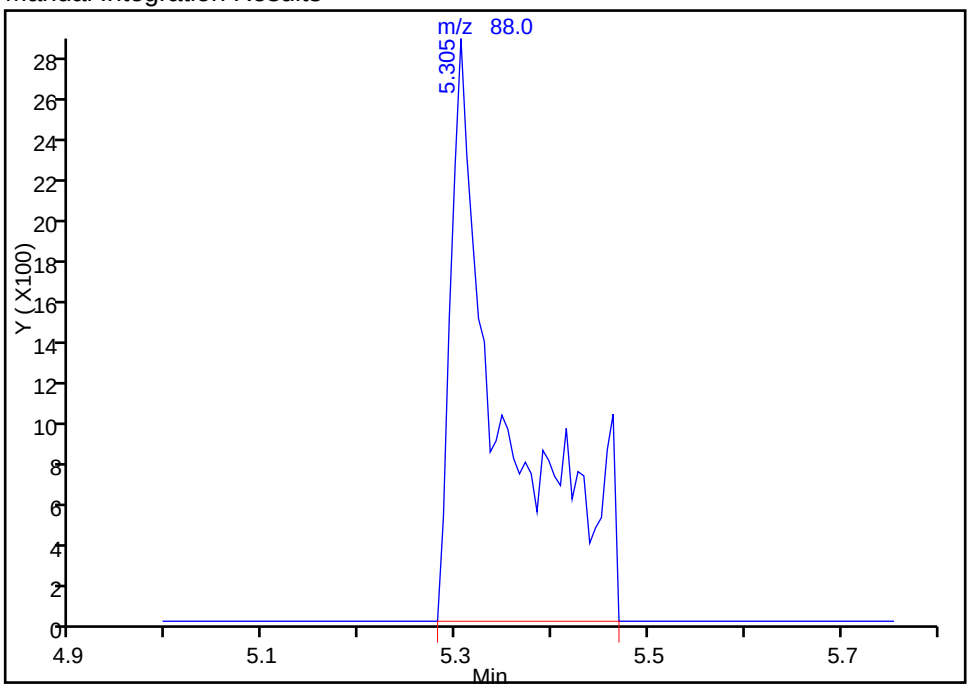
Processing Integration Results

RT: 5.31
Response: 8647
Amount: 102.6386



Manual Integration Results

RT: 5.31
Response: 11155
Amount: 123.7247



Reviewer: sobolr, 31-Jul-2014 09:20:57
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6660.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Jul-2014 03:10:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0034227-007
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 09:26:39 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: sobolr Date: 31-Jul-2014 08:49:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.745	4.745	0.000	99	165828	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.020	7.019	0.001	87	310773	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.874	8.874	0.000	93	315138	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.271	4.271	0.000	94	187591	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.514	4.514	0.000	96	118931	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	5.907	5.913	-0.006	94	775612	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr	174	7.944	7.944	0.000	95	238218	25.0	24.7	
10 Dichlorodifluoromethane	85	1.297	1.297	0.000	98	120904	10.0	10.4	
12 Chloromethane	50	1.388	1.388	0.000	98	162274	10.0	10.1	
13 Vinyl chloride	62	1.492	1.492	0.000	98	160175	10.0	9.88	
144 Butadiene	54	1.510	1.504	0.006	97	161838	10.0	10.1	
14 Bromomethane	94	1.747	1.753	-0.006	89	78913	10.0	10.1	
15 Chloroethane	64	1.844	1.838	0.006	99	69624	10.0	9.75	
16 Dichlorofluoromethane	67	2.021	2.027	-0.006	97	166855	10.0	9.73	
17 Trichlorofluoromethane	101	2.063	2.057	0.006	96	114337	10.0	10.4	
18 Ethyl ether	59	2.270	2.270	0.000	93	90718	10.0	10.2	
20 Acrolein	56	2.410	2.398	0.012	94	14571	50.0	40.1	
22 1,1-Dichloroethene	96	2.459	2.452	0.007	96	83986	10.0	9.73	
21 1,1,2-Trichloro-1,2,2-trif	101	2.489	2.501	-0.012	91	83448	10.0	9.90	
23 Acetone	43	2.544	2.537	0.007	99	179549	50.0	53.4	
25 Iodomethane	142	2.586	2.586	0.000	96	155350	10.0	9.83	
26 Carbon disulfide	76	2.629	2.629	0.000	100	284714	10.0	9.55	
28 3-Chloro-1-propene	41	2.775	2.775	0.000	91	184066	10.0	10.1	
27 Methyl acetate	43	2.811	2.811	0.000	99	647718	50.0	51.0	
30 Methylene Chloride	84	2.890	2.890	0.000	96	97774	10.0	9.82	
31 2-Methyl-2-propanol	59	3.048	3.030	0.018	91	48653	100.0	82.4	
32 Methyl tert-butyl ether	73	3.103	3.097	0.006	99	280477	10.0	10.2	
34 trans-1,2-Dichloroethene	96	3.097	3.097	0.000	73	95390	10.0	10.0	
33 Acrylonitrile	53	3.115	3.109	0.006	99	518415	100.0	100.2	M
35 Hexane	57	3.292	3.292	0.000	95	154180	10.0	9.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.444	3.444	0.000	95	191930	10.0	9.87	
37 Vinyl acetate	43	3.492	3.492	0.000	97	289008	20.0	19.7	
44 2,2-Dichloropropane	77	3.882	3.881	0.001	90	72480	10.0	10.2	
45 cis-1,2-Dichloroethene	96	3.900	3.900	0.000	81	105347	10.0	9.77	
43 2-Butanone (MEK)	43	3.924	3.918	0.006	99	429739	50.0	55.0	
48 Chlorobromomethane	128	4.082	4.082	0.000	97	52679	10.0	10.3	
49 Tetrahydrofuran	42	4.119	4.113	0.006	92	117459	20.0	21.1	
50 Chloroform	83	4.149	4.149	0.000	95	147176	10.0	9.88	
51 1,1,1-Trichloroethane	97	4.259	4.259	0.000	98	104593	10.0	10.0	
52 Cyclohexane	56	4.283	4.283	0.000	96	200056	10.0	10.1	
55 Carbon tetrachloride	117	4.374	4.374	0.000	90	76341	10.0	9.60	
54 1,1-Dichloropropene	75	4.380	4.380	0.000	92	118811	10.0	9.83	
57 Benzene	78	4.538	4.532	0.006	98	377683	10.0	9.74	
53 Isobutyl alcohol	43	4.538	4.532	0.006	39	106954	250.0	211.4	
58 1,2-Dichloroethane	62	4.569	4.569	0.000	96	134514	10.0	10.3	
59 n-Heptane	43	4.703	4.702	0.001	97	183669	10.0	9.58	
62 Trichloroethene	95	5.013	5.013	0.000	97	94487	10.0	9.82	
64 Methylcyclohexane	83	5.128	5.128	0.000	94	165394	10.0	9.82	
65 1,2-Dichloropropane	63	5.189	5.189	0.000	97	112488	10.0	10.2	
67 Dibromomethane	93	5.286	5.286	0.000	91	59625	10.0	10.2	
66 1,4-Dioxane	88	5.323	5.304	0.019	90	17908	200.0	180.8	
68 Dichlorobromomethane	83	5.408	5.408	0.000	98	100796	10.0	9.75	
69 2-Chloroethyl vinyl ether	63	5.615	5.615	0.000	92	83904	10.0	9.99	
72 cis-1,3-Dichloropropene	75	5.724	5.724	0.000	93	140125	10.0	9.65	
73 4-Methyl-2-pentanone (MIBK	43	5.834	5.827	0.007	98	940280	50.0	50.7	
74 Toluene	92	5.961	5.961	0.000	97	216747	10.0	9.68	
77 trans-1,3-Dichloropropene	75	6.150	6.150	0.000	97	110135	10.0	9.50	
75 Ethyl methacrylate	69	6.192	6.192	0.000	94	139769	10.0	10.1	
79 1,1,2-Trichloroethane	83	6.290	6.290	0.000	91	70575	10.0	9.70	
81 Tetrachloroethene	166	6.375	6.369	0.006	95	100798	10.0	9.85	
82 1,3-Dichloropropane	76	6.411	6.411	0.000	95	152367	10.0	9.89	
80 2-Hexanone	43	6.460	6.460	0.000	99	772419	50.0	52.4	
83 Chlorodibromomethane	129	6.594	6.594	0.000	92	68475	10.0	9.30	
84 Ethylene Dibromide	107	6.673	6.673	0.000	98	87704	10.0	9.69	
87 Chlorobenzene	112	7.038	7.044	-0.006	96	251500	10.0	9.96	
89 1,1,1,2-Tetrachloroethane	131	7.111	7.105	0.006	93	69073	10.0	9.47	
88 Ethylbenzene	91	7.111	7.111	0.000	98	395579	10.0	9.79	
90 m-Xylene & p-Xylene	106	7.202	7.202	0.000	0	158704	10.0	9.76	
91 o-Xylene	106	7.518	7.518	0.000	96	163798	10.0	9.88	
92 Styrene	104	7.536	7.530	0.006	97	263028	10.0	9.90	
95 Bromoform	173	7.707	7.707	0.000	98	49354	10.0	8.17	
94 Isopropylbenzene	105	7.804	7.804	0.000	95	401819	10.0	9.70	
101 Bromobenzene	156	8.066	8.065	0.001	91	111656	10.0	9.69	
97 1,1,2,2-Tetrachloroethane	83	8.078	8.078	0.000	94	140286	10.0	9.90	
100 1,2,3-Trichloropropane	110	8.108	8.108	0.000	88	41555	10.0	9.92	
98 trans-1,4-Dichloro-2-buten	53	8.120	8.120	0.000	80	28201	10.0	9.29	
99 N-Propylbenzene	91	8.132	8.132	0.000	99	468342	10.0	9.85	
103 2-Chlorotoluene	126	8.211	8.211	0.000	97	97308	10.0	9.84	
102 1,3,5-Trimethylbenzene	105	8.272	8.272	0.000	95	321073	10.0	9.83	
105 4-Chlorotoluene	126	8.303	8.303	0.000	96	95846	10.0	9.68	
106 tert-Butylbenzene	134	8.534	8.534	0.000	93	75444	10.0	9.72	
107 1,2,4-Trimethylbenzene	105	8.576	8.576	0.000	97	332573	10.0	9.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.710	8.710	0.000	94	416778	10.0	9.73	
111 1,3-Dichlorobenzene	146	8.826	8.820	0.006	100	200864	10.0	9.93	
110 4-Isopropyltoluene	119	8.826	8.832	-0.006	97	350597	10.0	9.76	
113 1,4-Dichlorobenzene	146	8.893	8.899	-0.006	96	200405	10.0	9.74	
115 n-Butylbenzene	91	9.166	9.166	0.000	98	315950	10.0	9.76	
116 1,2-Dichlorobenzene	146	9.203	9.203	0.000	98	202536	10.0	9.92	
117 1,2-Dibromo-3-Chloropropan	75	9.853	9.853	0.000	83	24685	10.0	9.77	
119 1,2,4-Trichlorobenzene	180	10.522	10.522	0.000	94	149731	10.0	9.90	
120 Hexachlorobutadiene	225	10.650	10.650	0.000	96	54147	10.0	9.58	
121 Naphthalene	128	10.729	10.729	0.000	97	459928	10.0	9.87	
122 1,2,3-Trichlorobenzene	180	10.924	10.924	0.000	96	142596	10.0	9.86	
S 125 1,2-Dichloroethene, Total	1				0			19.8	
S 126 1,3-Dichloropropene, Total	1				0			19.2	
S 123 Total BTEX	1				0			48.9	
S 124 Xylenes, Total	1				0			19.6	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260 CORP mix_00017	Amount Added:	5.00	Units: uL	
GAS CORP mix_00039	Amount Added:	5.00	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

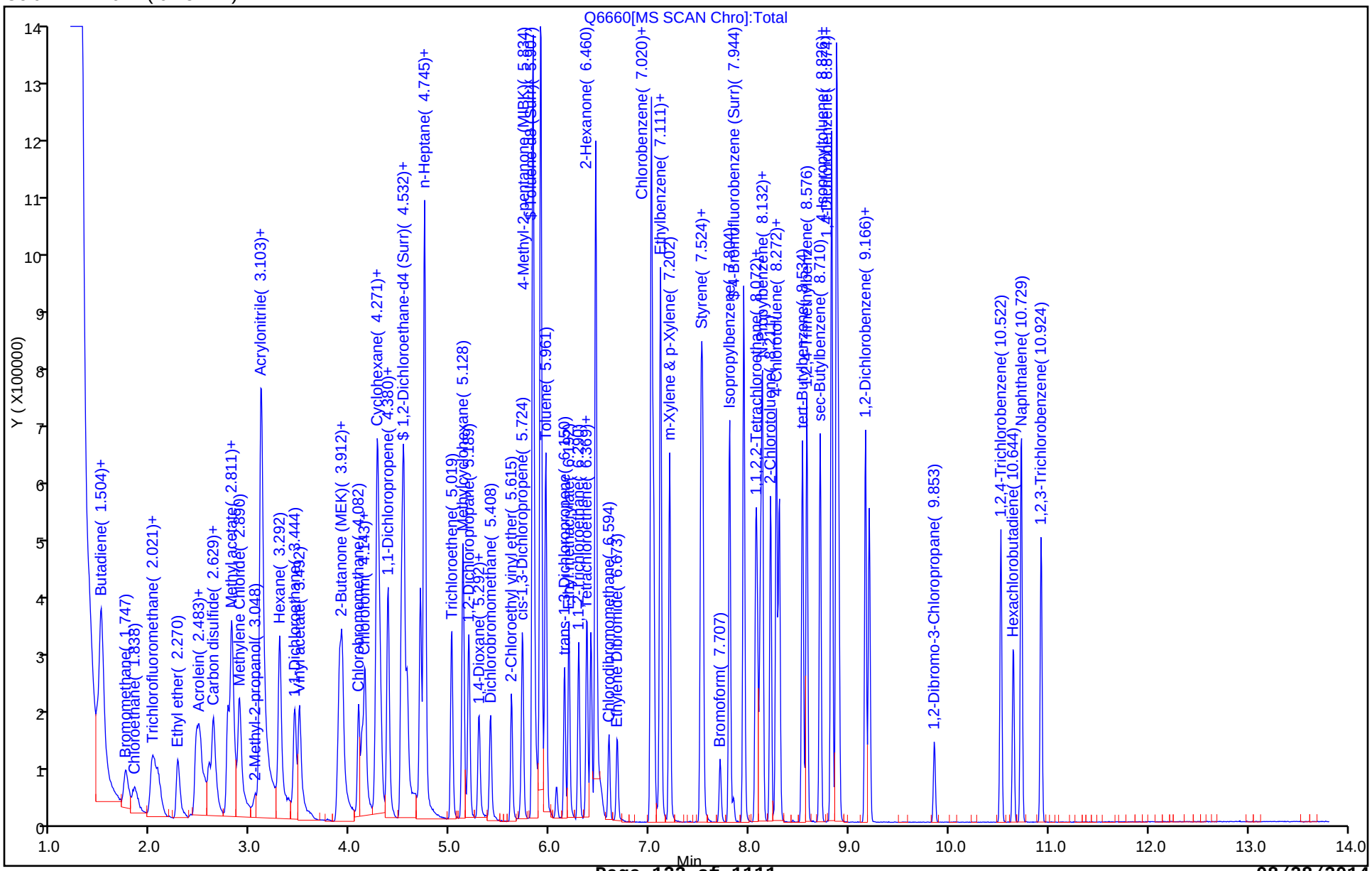
Report Date: 31-Jul-2014 09:26:40 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6660.D

Injection Date:	31-Jul-2014 03:10:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

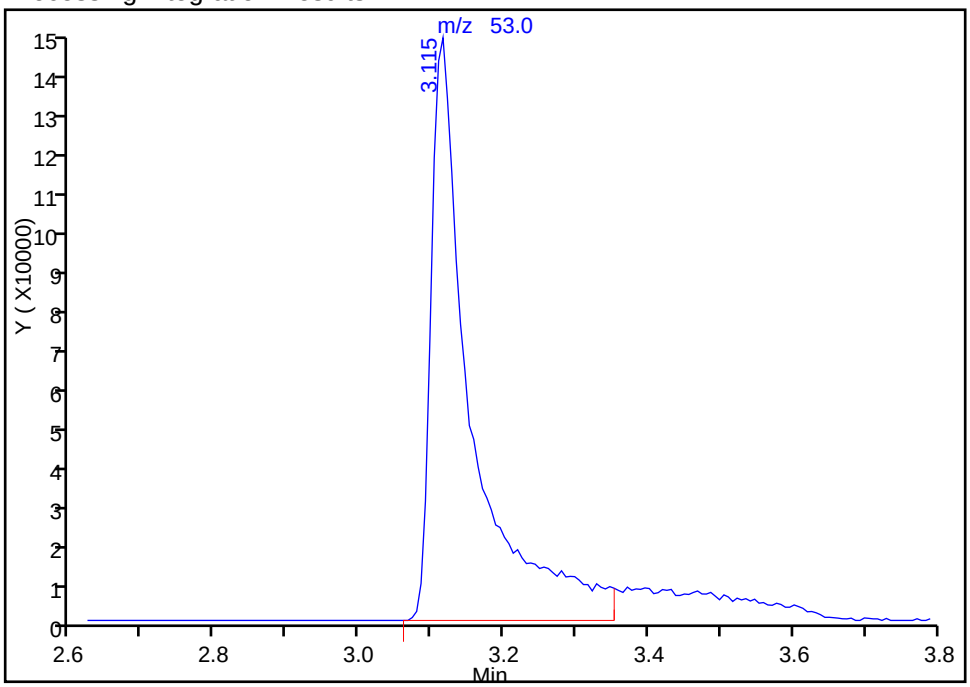
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6660.D
Injection Date: 31-Jul-2014 03:10:30 Instrument ID: HP5973Q
Lims ID: IC 4
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

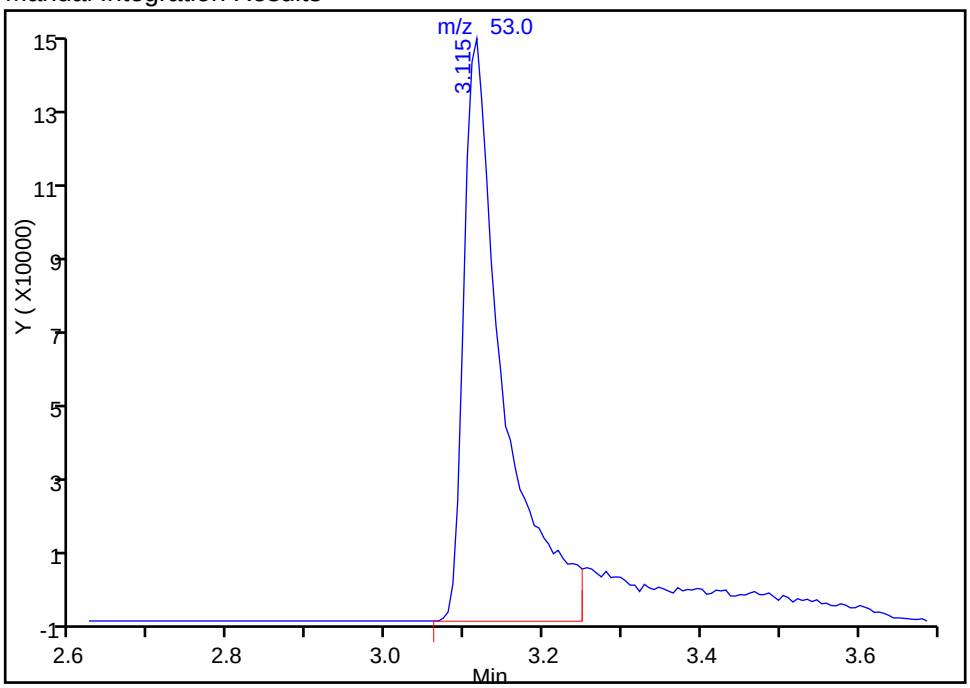
Processing Integration Results

RT: 3.12
Response: 581248
Amount: 110.4468



Manual Integration Results

RT: 3.12
Response: 518415
Amount: 100.2168



Reviewer: sobolr, 31-Jul-2014 09:26:39
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6661.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 31-Jul-2014 03:34:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0034227-008
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 09:25:46 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: sobolr Date: 31-Jul-2014 09:12:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.745	4.745	0.000	99	169423	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.019	7.019	0.000	86	312626	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.874	8.874	0.000	93	307766	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.271	4.271	0.000	94	190828	25.0	24.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.514	4.514	0.000	95	118964	25.0	24.8	
$ 5 Toluene-d8 (Surr)	98	5.913	5.913	0.000	94	781151	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	7.944	7.944	0.000	95	241775	25.0	24.9	
10 Dichlorodifluoromethane	85	1.297	1.297	0.000	99	288348	25.0	24.4	
12 Chloromethane	50	1.388	1.388	0.000	99	383934	25.0	23.4	
13 Vinyl chloride	62	1.492	1.492	0.000	98	408506	25.0	24.7	
144 Butadiene	54	1.504	1.504	0.000	97	392978	25.0	24.1	
14 Bromomethane	94	1.753	1.753	0.000	90	196815	25.0	24.7	
15 Chloroethane	64	1.838	1.838	0.000	99	183911	25.0	25.2	
16 Dichlorofluoromethane	67	2.027	2.027	0.000	97	435922	25.0	24.9	
17 Trichlorofluoromethane	101	2.057	2.057	0.000	98	290835	25.0	25.8	
18 Ethyl ether	59	2.270	2.270	0.000	94	225384	25.0	24.7	
20 Acrolein	56	2.398	2.398	0.000	97	39629	125.0	106.7	
22 1,1-Dichloroethene	96	2.452	2.452	0.000	96	211310	25.0	24.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.501	2.501	0.000	91	201964	25.0	23.4	
23 Acetone	43	2.537	2.537	0.000	100	405360	125.0	117.9	
25 Iodomethane	142	2.586	2.586	0.000	96	392090	25.0	24.3	
26 Carbon disulfide	76	2.629	2.629	0.000	99	689295	25.0	22.6	
28 3-Chloro-1-propene	41	2.775	2.775	0.000	91	444680	25.0	23.8	
27 Methyl acetate	43	2.811	2.811	0.000	99	1581114	125.0	121.9	
30 Methylene Chloride	84	2.890	2.890	0.000	96	239849	25.0	23.6	
31 2-Methyl-2-propanol	59	3.030	3.030	0.000	96	132055	250.0	209.1	M
32 Methyl tert-butyl ether	73	3.097	3.097	0.000	98	701575	25.0	24.9	
34 trans-1,2-Dichloroethene	96	3.097	3.097	0.000	95	235790	25.0	24.2	
33 Acrylonitrile	53	3.109	3.109	0.000	99	1263297	250.0	235.0	M
35 Hexane	57	3.292	3.292	0.000	94	352896	25.0	22.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.444	3.444	0.000	96	476994	25.0	24.0	
37 Vinyl acetate	43	3.492	3.492	0.000	97	771052	50.0	51.5	
44 2,2-Dichloropropane	77	3.881	3.881	0.000	92	174046	25.0	23.9	
45 cis-1,2-Dichloroethene	96	3.900	3.900	0.000	82	259994	25.0	23.6	
43 2-Butanone (MEK)	43	3.918	3.918	0.000	99	1065817	125.0	133.4	
48 Chlorobromomethane	128	4.082	4.082	0.000	97	127336	25.0	24.3	
49 Tetrahydrofuran	42	4.113	4.113	0.000	92	280386	50.0	49.4	
50 Chloroform	83	4.149	4.149	0.000	96	361189	25.0	23.7	
51 1,1,1-Trichloroethane	97	4.259	4.259	0.000	98	262135	25.0	24.5	
52 Cyclohexane	56	4.283	4.283	0.000	96	465412	25.0	23.1	
55 Carbon tetrachloride	117	4.374	4.374	0.000	95	200788	25.0	24.7	
54 1,1-Dichloropropene	75	4.380	4.380	0.000	93	287993	25.0	23.3	
57 Benzene	78	4.532	4.532	0.000	98	933180	25.0	23.5	
53 Isobutyl alcohol	43	4.532	4.532	0.000	43	357299	625.0	691.1	
58 1,2-Dichloroethane	62	4.569	4.569	0.000	96	327388	25.0	24.6	
59 n-Heptane	43	4.702	4.702	0.000	96	484991	25.0	24.8	
62 Trichloroethene	95	5.013	5.013	0.000	96	230157	25.0	23.4	
64 Methylcyclohexane	83	5.128	5.128	0.000	94	405849	25.0	23.6	
65 1,2-Dichloropropane	63	5.189	5.189	0.000	97	274706	25.0	24.3	
67 Dibromomethane	93	5.286	5.286	0.000	92	147985	25.0	24.8	
66 1,4-Dioxane	88	5.304	5.304	0.000	92	45605	500.0	430.9	
68 Dichlorobromomethane	83	5.408	5.408	0.000	98	269043	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	5.615	5.615	0.000	92	220155	25.0	25.7	
72 cis-1,3-Dichloropropene	75	5.724	5.724	0.000	93	367035	25.0	24.7	
73 4-Methyl-2-pentanone (MIBK	43	5.827	5.827	0.000	98	2525139	125.0	135.3	
74 Toluene	92	5.961	5.961	0.000	97	551318	25.0	24.5	
77 trans-1,3-Dichloropropene	75	6.150	6.150	0.000	97	306687	25.0	26.3	
75 Ethyl methacrylate	69	6.192	6.192	0.000	94	365597	25.0	26.2	
79 1,1,2-Trichloroethane	83	6.290	6.290	0.000	91	178412	25.0	24.4	
81 Tetrachloroethene	166	6.369	6.369	0.000	96	255116	25.0	24.8	
82 1,3-Dichloropropane	76	6.411	6.411	0.000	96	384037	25.0	24.8	
80 2-Hexanone	43	6.460	6.460	0.000	98	1842930	125.0	124.2	
83 Chlorodibromomethane	129	6.594	6.594	0.000	92	190621	25.0	25.7	
84 Ethylene Dibromide	107	6.673	6.673	0.000	98	231461	25.0	25.4	
87 Chlorobenzene	112	7.044	7.044	0.000	96	616711	25.0	24.3	
89 1,1,1,2-Tetrachloroethane	131	7.105	7.105	0.000	96	190993	25.0	26.0	
88 Ethylbenzene	91	7.111	7.111	0.000	98	1000911	25.0	24.6	
90 m-Xylene & p-Xylene	106	7.202	7.202	0.000	0	402410	25.0	24.6	
91 o-Xylene	106	7.518	7.518	0.000	96	415694	25.0	24.9	
92 Styrene	104	7.530	7.530	0.000	96	662305	25.0	24.8	
95 Bromoform	173	7.707	7.707	0.000	99	142536	25.0	21.9	
94 Isopropylbenzene	105	7.804	7.804	0.000	95	1022789	25.0	25.3	
101 Bromobenzene	156	8.065	8.065	0.000	91	278277	25.0	24.7	
97 1,1,2,2-Tetrachloroethane	83	8.078	8.078	0.000	93	347881	25.0	25.1	
100 1,2,3-Trichloropropane	110	8.108	8.108	0.000	85	103460	25.0	25.3	
98 trans-1,4-Dichloro-2-buten	53	8.120	8.120	0.000	76	87336	25.0	22.8	
99 N-Propylbenzene	91	8.132	8.132	0.000	99	1165385	25.0	25.1	
103 2-Chlorotoluene	126	8.211	8.211	0.000	97	240671	25.0	24.9	
102 1,3,5-Trimethylbenzene	105	8.272	8.272	0.000	95	791979	25.0	24.8	
105 4-Chlorotoluene	126	8.303	8.303	0.000	97	239295	25.0	24.7	
106 tert-Butylbenzene	134	8.534	8.534	0.000	93	191393	25.0	25.3	
107 1,2,4-Trimethylbenzene	105	8.576	8.576	0.000	97	827310	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.710	8.710	0.000	93	1054095	25.0	25.2	
111 1,3-Dichlorobenzene	146	8.820	8.820	0.000	100	494228	25.0	25.0	
110 4-Isopropyltoluene	119	8.832	8.832	0.000	97	874879	25.0	24.9	
113 1,4-Dichlorobenzene	146	8.899	8.899	0.000	97	495518	25.0	24.7	
115 n-Butylbenzene	91	9.166	9.166	0.000	98	782512	25.0	24.8	
116 1,2-Dichlorobenzene	146	9.203	9.203	0.000	98	497535	25.0	25.0	
117 1,2-Dibromo-3-Chloropropan	75	9.853	9.853	0.000	88	65408	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	10.522	10.522	0.000	94	366308	25.0	24.8	
120 Hexachlorobutadiene	225	10.650	10.650	0.000	97	132074	25.0	23.9	
121 Naphthalene	128	10.729	10.729	0.000	97	1146659	25.0	25.2	
122 1,2,3-Trichlorobenzene	180	10.924	10.924	0.000	95	350083	25.0	24.8	
S 125 1,2-Dichloroethene, Total	1				0			47.9	
S 126 1,3-Dichloropropene, Total	1				0			51.1	
S 123 Total BTEX	1				0			122.2	
S 124 Xylenes, Total	1				0			49.5	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260 CORP mix_00017	Amount Added: 12.50	Units: uL		
GAS CORP mix_00039	Amount Added: 12.50	Units: uL		
Q_8260_SURR_00064	Amount Added: 1.25	Units: uL	Run Reagent	
Q_8260_IS_00067	Amount Added: 1.25	Units: uL	Run Reagent	

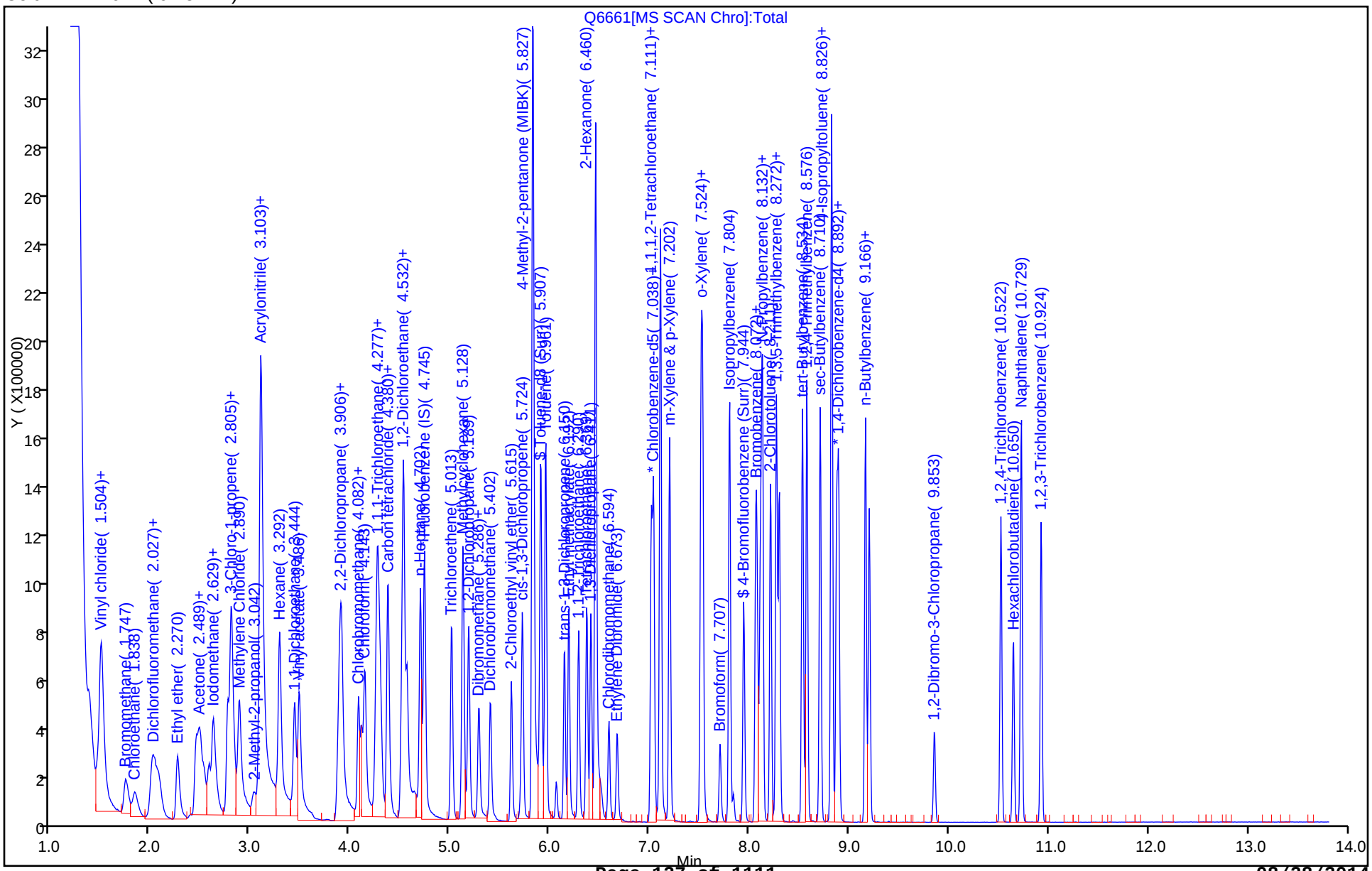
Report Date: 31-Jul-2014 09:25:46 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6661.D

Injection Date:	31-Jul-2014 03:34:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

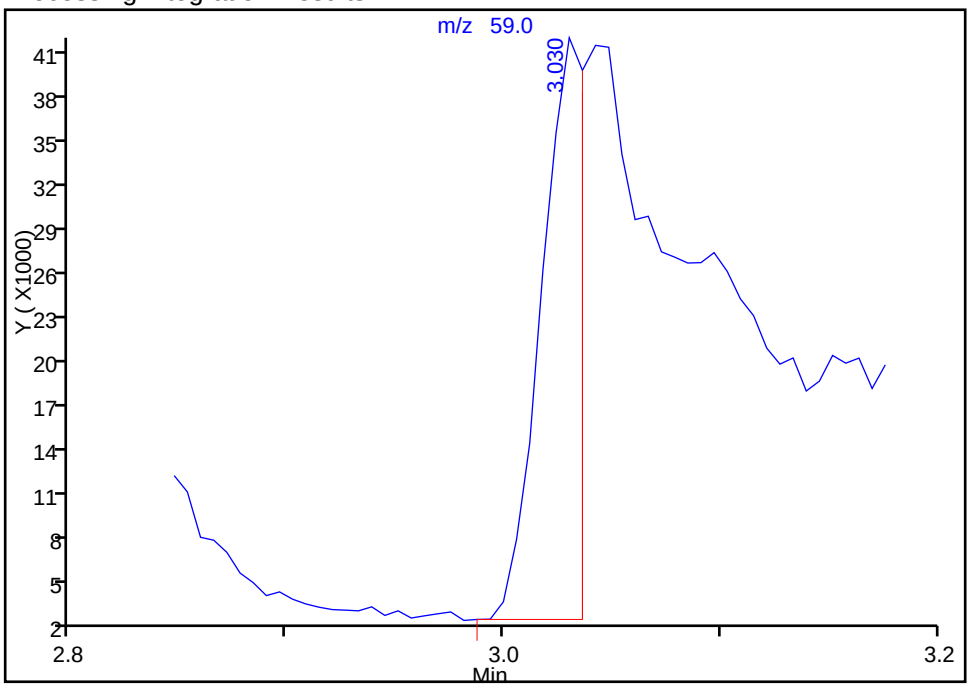
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6661.D
Injection Date: 31-Jul-2014 03:34:30 Instrument ID: HP5973Q
Lims ID: ICIS 5
Client ID:
Operator ID: NMD ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

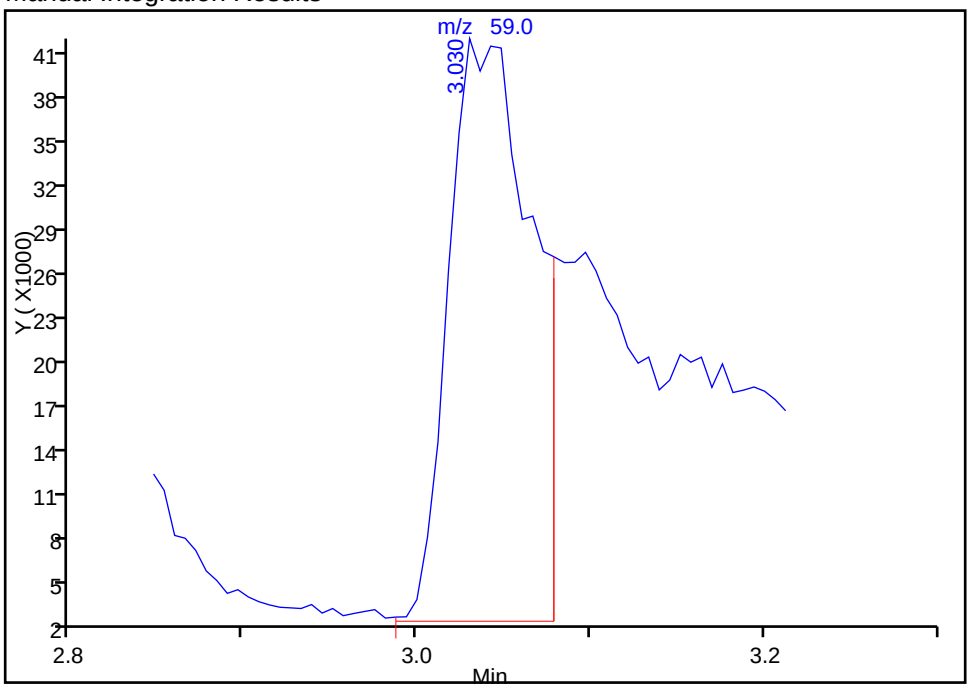
Processing Integration Results

RT: 3.03
Response: 54298
Amount: 91.621378



Manual Integration Results

RT: 3.03
Response: 132055
Amount: 209.0939



Reviewer: sobolr, 31-Jul-2014 08:38:22
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

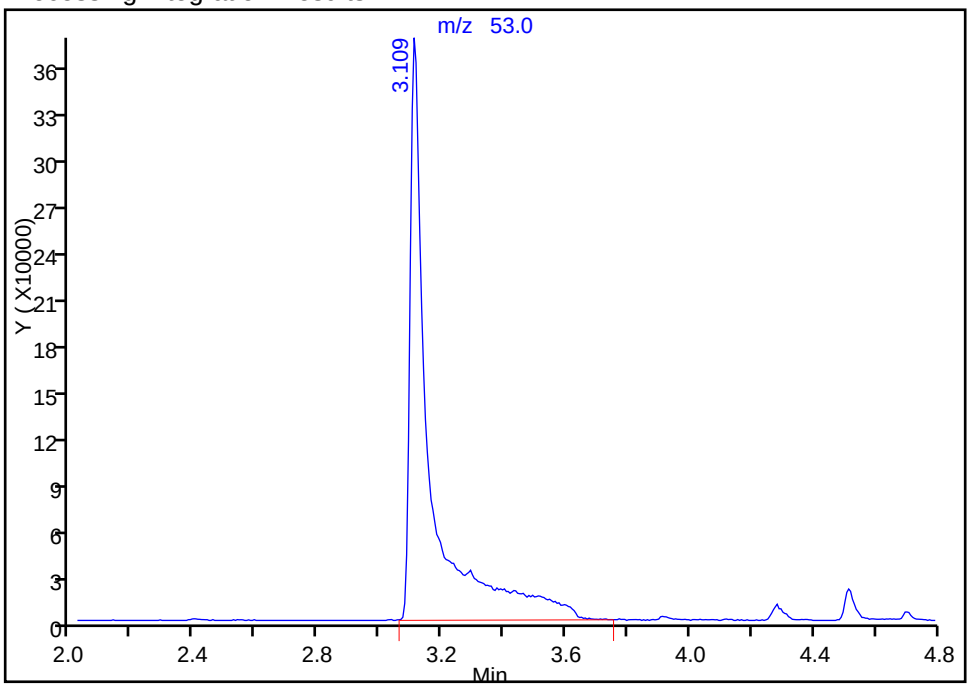
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6661.D
Injection Date: 31-Jul-2014 03:34:30 Instrument ID: HP5973Q
Lims ID: ICIS 5
Client ID:
Operator ID: NMD ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

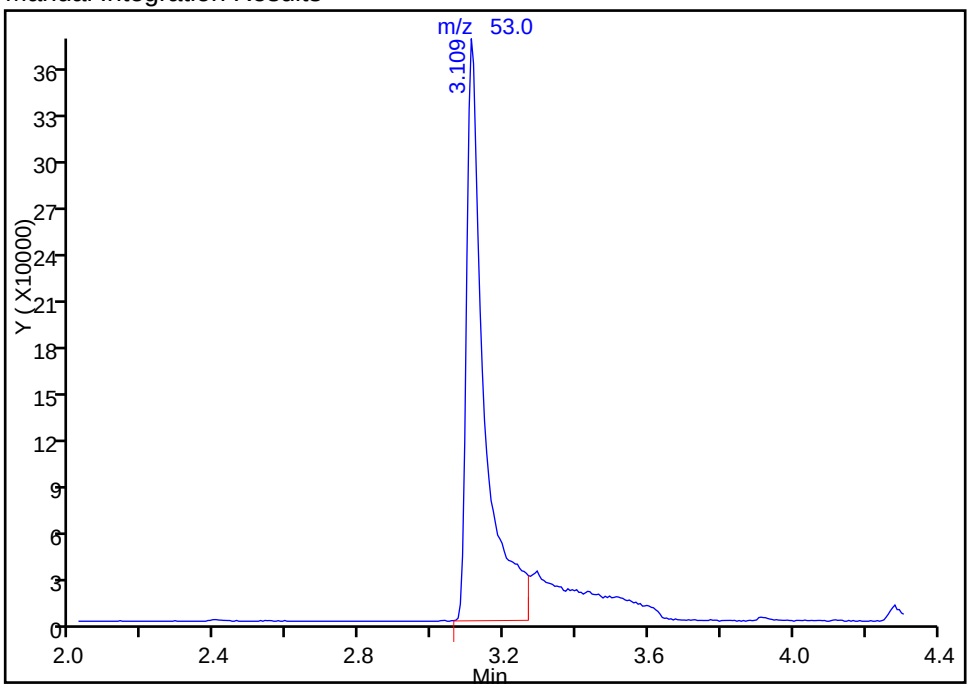
Processing Integration Results

RT: 3.11
Response: 1647736
Amount: 289.2737



Manual Integration Results

RT: 3.11
Response: 1263297
Amount: 234.9538



Reviewer: sobolr, 31-Jul-2014 09:25:46
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6662.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Jul-2014 03:58:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0034227-009
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 09:23:11 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: sobolr Date: 31-Jul-2014 09:23:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.741	4.745	-0.004	99	172070	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.015	7.019	-0.004	85	317660	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.876	8.874	0.002	92	311812	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.267	4.271	-0.004	94	187913	25.0	24.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.516	4.514	0.002	97	115873	25.0	23.8	
$ 5 Toluene-d8 (Surr)	98	5.909	5.913	-0.004	94	797417	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	7.946	7.944	0.002	96	247321	25.0	25.1	
10 Dichlorodifluoromethane	85	1.293	1.297	-0.004	99	579815	50.0	48.2	
12 Chloromethane	50	1.390	1.388	0.002	99	762791	50.0	45.8	
13 Vinyl chloride	62	1.494	1.492	0.002	98	800745	50.0	47.6	
144 Butadiene	54	1.506	1.504	0.002	97	754542	50.0	45.6	
14 Bromomethane	94	1.749	1.753	-0.004	90	374594	50.0	46.3	
15 Chloroethane	64	1.840	1.838	0.002	100	350573	50.0	47.3	
16 Dichlorofluoromethane	67	2.023	2.027	-0.004	97	846099	50.0	47.5	
17 Trichlorofluoromethane	101	2.065	2.057	0.008	96	589517	50.0	51.5	
18 Ethyl ether	59	2.266	2.270	-0.004	94	439807	50.0	47.5	
20 Acrolein	56	2.406	2.398	0.008	99	99011	250.0	262.4	
22 1,1-Dichloroethene	96	2.454	2.452	0.002	96	425023	50.0	47.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.491	2.501	-0.010	91	401282	50.0	45.9	
23 Acetone	43	2.540	2.537	0.003	100	753711	250.0	215.8	
25 Iodomethane	142	2.588	2.586	0.002	95	780016	50.0	47.6	
26 Carbon disulfide	76	2.625	2.629	-0.004	99	1377041	50.0	44.5	
28 3-Chloro-1-propene	41	2.771	2.775	-0.004	90	888140	50.0	46.8	
27 Methyl acetate	43	2.807	2.811	-0.004	99	2994112	250.0	227.3	
30 Methylene Chloride	84	2.886	2.890	-0.004	97	491446	50.0	47.6	
31 2-Methyl-2-propanol	59	3.026	3.030	-0.004	98	328412	500.0	538.9	
32 Methyl tert-butyl ether	73	3.099	3.097	0.002	98	1339342	50.0	46.7	
34 trans-1,2-Dichloroethene	96	3.099	3.097	0.002	96	459262	50.0	46.5	
33 Acrylonitrile	53	3.111	3.109	0.002	99	2221565	500.0	391.9	
35 Hexane	57	3.294	3.292	0.002	95	723264	50.0	44.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.440	3.444	-0.004	96	925784	50.0	45.9	
37 Vinyl acetate	43	3.488	3.492	-0.004	97	1512689	100.0	99.4	
44 2,2-Dichloropropane	77	3.877	3.881	-0.004	92	341780	50.0	46.3	
45 cis-1,2-Dichloroethene	96	3.896	3.900	-0.004	84	520577	50.0	46.5	
43 2-Butanone (MEK)	43	3.914	3.918	-0.004	99	1742361	250.0	214.7	
48 Chlorobromomethane	128	4.084	4.082	0.002	97	254015	50.0	47.7	
49 Tetrahydrofuran	42	4.115	4.113	0.002	92	487700	100.0	84.5	
50 Chloroform	83	4.145	4.149	-0.004	95	716220	50.0	46.3	
51 1,1,1-Trichloroethane	97	4.255	4.259	-0.004	99	530540	50.0	48.9	
52 Cyclohexane	56	4.285	4.283	0.002	96	946052	50.0	46.2	
55 Carbon tetrachloride	117	4.376	4.374	0.002	97	424799	50.0	51.5	
54 1,1-Dichloropropene	75	4.376	4.380	-0.004	94	584588	50.0	46.6	
57 Benzene	78	4.534	4.532	0.002	97	1868906	50.0	46.4	
53 Isobutyl alcohol	43	4.522	4.532	-0.010	95	736926	1250.0	1403.5	
58 1,2-Dichloroethane	62	4.571	4.569	0.002	96	627926	50.0	46.5	
59 n-Heptane	43	4.705	4.702	0.003	96	975424	50.0	49.0	
62 Trichloroethene	95	5.015	5.013	0.002	96	469515	50.0	47.0	
64 Methylcyclohexane	83	5.130	5.128	0.002	94	813110	50.0	46.5	
65 1,2-Dichloropropane	63	5.185	5.189	-0.004	97	540764	50.0	47.1	
67 Dibromomethane	93	5.288	5.286	0.002	93	287708	50.0	47.5	
66 1,4-Dioxane	88	5.301	5.304	-0.004	97	106940	1000.0	1067.3	
68 Dichlorobromomethane	83	5.404	5.408	-0.004	98	548294	50.0	51.1	
69 2-Chloroethyl vinyl ether	63	5.617	5.615	0.002	92	432864	50.0	49.7	
72 cis-1,3-Dichloropropene	75	5.726	5.724	0.002	93	786851	50.0	52.2	
73 4-Methyl-2-pentanone (MIBK	43	5.830	5.827	0.003	98	4952893	250.0	261.1	
74 Toluene	92	5.957	5.961	-0.004	97	1111474	50.0	48.6	
77 trans-1,3-Dichloropropene	75	6.146	6.150	-0.004	97	639449	50.0	54.0	
75 Ethyl methacrylate	69	6.188	6.192	-0.004	93	747611	50.0	52.8	
79 1,1,2-Trichloroethane	83	6.292	6.290	0.002	91	374997	50.0	50.4	
81 Tetrachloroethene	166	6.371	6.369	0.002	95	516456	50.0	49.4	
82 1,3-Dichloropropane	76	6.413	6.411	0.002	96	791034	50.0	50.2	
80 2-Hexanone	43	6.462	6.460	0.002	98	3548430	250.0	235.3	
83 Chlorodibromomethane	129	6.596	6.594	0.002	91	423982	50.0	56.3	
84 Ethylene Dibromide	107	6.675	6.673	0.002	98	469809	50.0	50.8	
87 Chlorobenzene	112	7.040	7.044	-0.004	95	1252949	50.0	48.6	
89 1,1,1,2-Tetrachloroethane	131	7.107	7.105	0.002	96	403147	50.0	54.1	
88 Ethylbenzene	91	7.113	7.111	0.002	98	2045594	50.0	49.5	
90 m-Xylene & p-Xylene	106	7.204	7.202	0.002	0	826172	50.0	49.7	
91 o-Xylene	106	7.514	7.518	-0.004	97	838600	50.0	49.5	
92 Styrene	104	7.532	7.530	0.002	96	1356236	50.0	50.0	
95 Bromoform	173	7.709	7.707	0.002	98	334282	50.0	49.5	
94 Isopropylbenzene	105	7.800	7.804	-0.004	96	2057481	50.0	50.2	
101 Bromobenzene	156	8.068	8.065	0.003	91	568225	50.0	49.8	
97 1,1,2,2-Tetrachloroethane	83	8.080	8.078	0.002	92	701472	50.0	50.0	
100 1,2,3-Trichloropropane	110	8.110	8.108	0.002	85	203591	50.0	49.1	
98 trans-1,4-Dichloro-2-buten	53	8.116	8.120	-0.004	76	203579	50.0	77.8	
99 N-Propylbenzene	91	8.134	8.132	0.002	99	2341166	50.0	49.8	
103 2-Chlorotoluene	126	8.213	8.211	0.002	97	482305	50.0	49.3	
102 1,3,5-Trimethylbenzene	105	8.274	8.272	0.002	95	1615890	50.0	50.0	
105 4-Chlorotoluene	126	8.305	8.303	0.002	96	485336	50.0	49.5	
106 tert-Butylbenzene	134	8.536	8.534	0.002	93	396000	50.0	51.6	
107 1,2,4-Trimethylbenzene	105	8.578	8.576	0.002	97	1667376	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.712	8.710	0.002	94	2136513	50.0	50.4	
111 1,3-Dichlorobenzene	146	8.822	8.820	0.002	99	999487	50.0	50.0	
110 4-Isopropyltoluene	119	8.828	8.832	-0.004	97	1782589	50.0	50.2	
113 1,4-Dichlorobenzene	146	8.895	8.899	-0.004	96	981822	50.0	48.2	
115 n-Butylbenzene	91	9.162	9.166	-0.004	98	1584245	50.0	49.5	
116 1,2-Dichlorobenzene	146	9.205	9.203	0.002	99	988151	50.0	48.9	
117 1,2-Dibromo-3-Chloropropan	75	9.855	9.853	0.002	89	139753	50.0	55.9	
119 1,2,4-Trichlorobenzene	180	10.524	10.522	0.002	94	752063	50.0	50.3	
120 Hexachlorobutadiene	225	10.646	10.650	-0.004	97	275214	50.0	49.2	
121 Naphthalene	128	10.725	10.729	-0.004	97	2352897	50.0	51.0	
122 1,2,3-Trichlorobenzene	180	10.926	10.924	0.002	96	719837	50.0	50.3	
S 125 1,2-Dichloroethene, Total	1				0			93.0	
S 126 1,3-Dichloropropene, Total	1				0			106.2	
S 123 Total BTEX	1				0			243.7	
S 124 Xylenes, Total	1				0			99.2	

Reagents:

8260 CORP mix_00017	Amount Added:	25.00	Units: uL	
GAS CORP mix_00039	Amount Added:	25.00	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

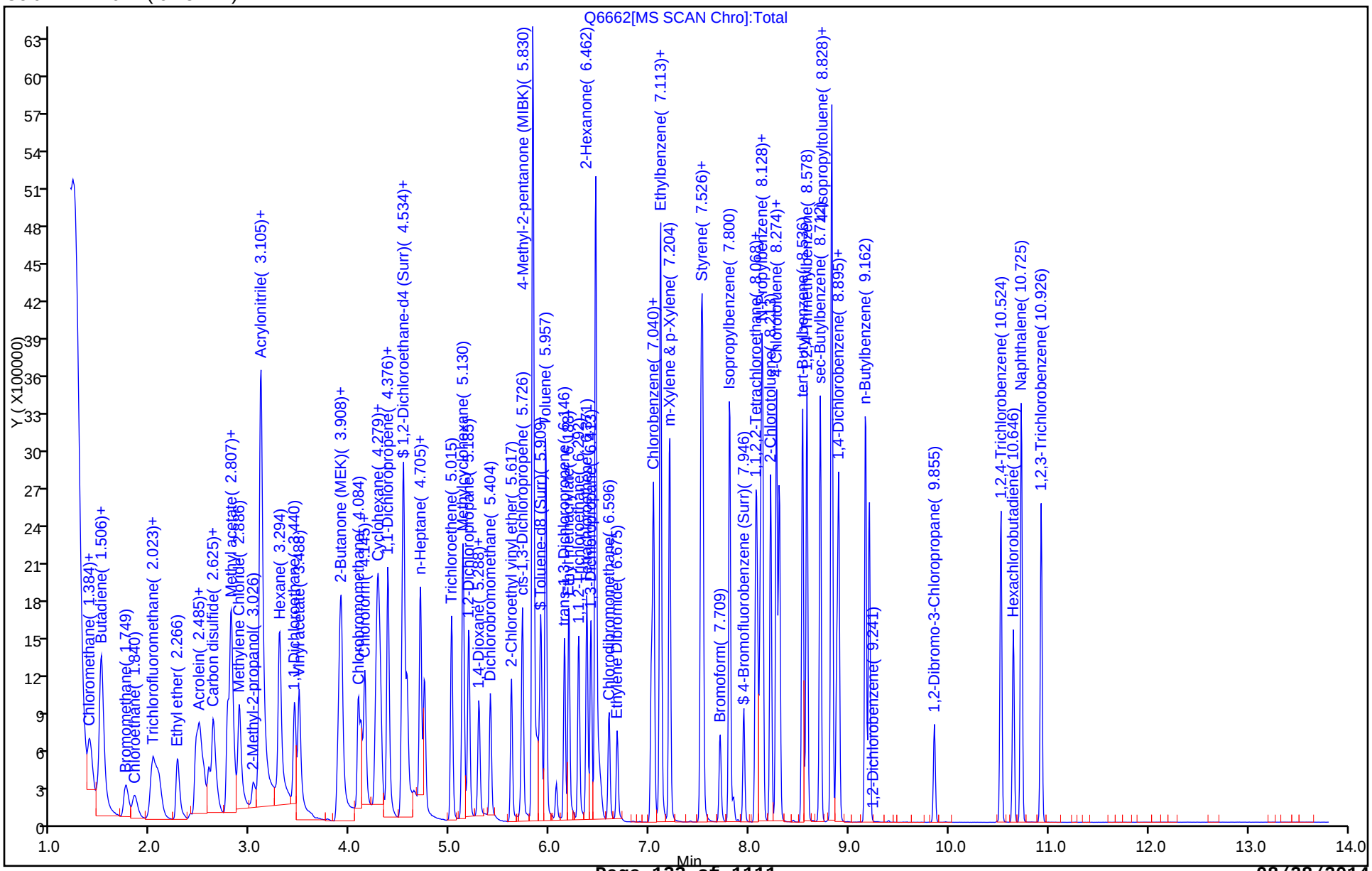
Report Date: 31-Jul-2014 09:23:12 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6662.D

Injection Date:	31-Jul-2014 03:58:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 31-Jul-2014 04:21:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0034227-010
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 09:28:10 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: sobolr Date: 31-Jul-2014 08:53:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.745	4.745	0.000	98	167046	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.019	7.019	0.000	85	330150	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.880	8.874	0.006	92	316621	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.270	4.271	-0.001	94	192456	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.514	4.514	0.000	95	116947	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	5.912	5.913	-0.001	94	803623	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr	174	7.950	7.944	0.006	96	254417	25.0	24.9	
10 Dichlorodifluoromethane	85	1.297	1.297	0.000	99	1149282	100.0	98.5	
12 Chloromethane	50	1.400	1.388	0.012	99	1487017	100.0	91.9	
13 Vinyl chloride	62	1.503	1.492	0.011	93	1515816	100.0	92.8	
144 Butadiene	54	1.510	1.504	0.006	96	1418295	100.0	88.2	
14 Bromomethane	94	1.759	1.753	0.006	89	763922	100.0	97.3	
15 Chloroethane	64	1.838	1.838	0.000	100	664616	100.0	92.4	
16 Dichlorofluoromethane	67	2.026	2.027	-0.001	97	1627156	100.0	94.2	
17 Trichlorofluoromethane	101	2.081	2.057	0.024	97	1207998	100.0	108.7	
18 Ethyl ether	59	2.270	2.270	0.000	93	820950	100.0	91.3	
20 Acrolein	56	2.404	2.398	0.006	99	252059	500.0	688.1	
22 1,1-Dichloroethene	96	2.452	2.452	0.000	96	847248	100.0	97.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.495	2.501	-0.006	92	798550	100.0	94.0	
23 Acetone	43	2.543	2.537	0.006	99	1371800	500.0	404.7	
25 Iodomethane	142	2.586	2.586	0.000	95	1516172	100.0	95.2	
26 Carbon disulfide	76	2.629	2.629	0.000	99	2737425	100.0	91.2	
28 3-Chloro-1-propene	41	2.774	2.775	-0.001	90	1800363	100.0	97.7	
27 Methyl acetate	43	2.811	2.811	0.000	99	6034804	500.0	471.9	
30 Methylene Chloride	84	2.890	2.890	0.000	97	937297	100.0	93.4	
31 2-Methyl-2-propanol	59	3.042	3.030	0.012	99	524267	1000.0	991.0	
32 Methyl tert-butyl ether	73	3.097	3.097	0.000	99	2647855	100.0	95.1	
34 trans-1,2-Dichloroethene	96	3.097	3.097	0.000	95	929338	100.0	96.9	
33 Acrylonitrile	53	3.115	3.109	0.006	99	4274681	1000.0	820.3	
35 Hexane	57	3.291	3.292	-0.001	95	1446353	100.0	91.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.443	3.444	-0.001	96	1850165	100.0	94.5	
37 Vinyl acetate	43	3.486	3.492	-0.006	97	3036276	200.0	205.6	
44 2,2-Dichloropropane	77	3.881	3.881	0.000	93	681224	100.0	95.0	
45 cis-1,2-Dichloroethene	96	3.900	3.900	0.000	82	1037772	100.0	95.6	
43 2-Butanone (MEK)	43	3.918	3.918	0.000	99	3505075	500.0	445.0	
48 Chlorobromomethane	128	4.082	4.082	0.000	98	513550	100.0	99.3	
49 Tetrahydrofuran	42	4.112	4.113	-0.001	92	943731	200.0	168.5	
50 Chloroform	83	4.149	4.149	0.000	95	1439372	100.0	95.9	
51 1,1,1-Trichloroethane	97	4.258	4.259	-0.001	98	1095183	100.0	103.9	
52 Cyclohexane	56	4.283	4.283	0.000	96	1875747	100.0	94.4	
55 Carbon tetrachloride	117	4.374	4.374	0.000	96	896916	100.0	112.0	
54 1,1-Dichloropropene	75	4.380	4.380	0.000	94	1157633	100.0	95.1	
57 Benzene	78	4.532	4.532	0.000	97	3750233	100.0	96.0	
53 Isobutyl alcohol	43	4.526	4.532	-0.006	94	1414909	2500.0	2775.8	
58 1,2-Dichloroethane	62	4.568	4.569	-0.001	96	1240441	100.0	94.6	
59 n-Heptane	43	4.702	4.702	0.000	96	1957776	100.0	101.4	
62 Trichloroethene	95	5.012	5.013	-0.001	96	934238	100.0	96.4	
64 Methylcyclohexane	83	5.134	5.128	0.006	93	1625121	100.0	95.8	
65 1,2-Dichloropropane	63	5.189	5.189	0.000	98	1074115	100.0	96.4	
67 Dibromomethane	93	5.286	5.286	0.000	93	567276	100.0	96.5	
66 1,4-Dioxane	88	5.316	5.304	0.012	98	173549	2000.0	1980.3	
68 Dichlorobromomethane	83	5.408	5.408	0.000	98	1114765	100.0	107.1	
69 2-Chloroethyl vinyl ether	63	5.614	5.615	-0.001	92	884895	100.0	104.6	
72 cis-1,3-Dichloropropene	75	5.724	5.724	0.000	93	1525474	100.0	104.3	
73 4-Methyl-2-pentanone (MIBK	43	5.833	5.827	0.006	98	8214485	500.0	416.7	
74 Toluene	92	5.961	5.961	0.000	97	2290695	100.0	96.3	
77 trans-1,3-Dichloropropene	75	6.150	6.150	0.000	97	1324045	100.0	107.5	
75 Ethyl methacrylate	69	6.192	6.192	0.000	94	1453749	100.0	98.8	
79 1,1,2-Trichloroethane	83	6.289	6.290	-0.001	91	755473	100.0	97.7	
81 Tetrachloroethene	166	6.375	6.369	0.006	96	1031151	100.0	94.9	
82 1,3-Dichloropropane	76	6.411	6.411	0.000	95	1592795	100.0	97.3	
80 2-Hexanone	43	6.460	6.460	0.000	98	7415250	500.0	473.1	
83 Chlorodibromomethane	129	6.594	6.594	0.000	91	915926	100.0	117.0	
84 Ethylene Dibromide	107	6.679	6.673	0.006	98	958915	100.0	99.7	
87 Chlorobenzene	112	7.044	7.044	0.000	96	2622311	100.0	97.8	
89 1,1,1,2-Tetrachloroethane	131	7.110	7.105	0.005	97	865477	100.0	111.7	
88 Ethylbenzene	91	7.110	7.111	-0.001	98	4193920	100.0	97.7	
90 m-Xylene & p-Xylene	106	7.202	7.202	0.000	0	1681485	100.0	97.3	
91 o-Xylene	106	7.518	7.518	0.000	96	1731579	100.0	98.3	
92 Styrene	104	7.536	7.530	0.006	96	2782557	100.0	98.6	
95 Bromoform	173	7.706	7.707	-0.001	99	749125	100.0	105.8	
94 Isopropylbenzene	105	7.804	7.804	0.000	95	4223086	100.0	101.5	
101 Bromobenzene	156	8.065	8.065	0.000	92	1174515	100.0	101.4	
97 1,1,2,2-Tetrachloroethane	83	8.083	8.078	0.005	92	1435982	100.0	100.8	
100 1,2,3-Trichloropropane	110	8.114	8.108	0.006	83	428074	100.0	101.7	
98 trans-1,4-Dichloro-2-buten	53	8.120	8.120	0.000	78	447289	100.0	101.3	
99 N-Propylbenzene	91	8.132	8.132	0.000	99	4823533	100.0	101.0	
103 2-Chlorotoluene	126	8.217	8.211	0.006	97	985775	100.0	99.2	
102 1,3,5-Trimethylbenzene	105	8.272	8.272	0.000	94	3365093	100.0	102.5	
105 4-Chlorotoluene	126	8.302	8.303	-0.001	97	992693	100.0	99.8	
106 tert-Butylbenzene	134	8.534	8.534	0.000	93	800182	100.0	102.6	
107 1,2,4-Trimethylbenzene	105	8.576	8.576	0.000	96	3400960	100.0	100.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.716	8.710	0.006	94	4394599	100.0	102.1	
111 1,3-Dichlorobenzene	146	8.825	8.820	0.005	99	2042386	100.0	100.5	
110 4-Isopropyltoluene	119	8.831	8.832	-0.001	97	3680697	100.0	102.0	
113 1,4-Dichlorobenzene	146	8.898	8.899	-0.001	96	2016000	100.0	97.5	
115 n-Butylbenzene	91	9.166	9.166	0.000	98	3293855	100.0	101.3	
116 1,2-Dichlorobenzene	146	9.202	9.203	-0.001	99	1977263	100.0	96.4	
117 1,2-Dibromo-3-Chloropropan	75	9.853	9.853	0.000	89	304373	100.0	119.9	
119 1,2,4-Trichlorobenzene	180	10.522	10.522	0.000	94	1511356	100.0	99.5	
120 Hexachlorobutadiene	225	10.650	10.650	0.000	96	580621	100.0	102.2	
121 Naphthalene	128	10.729	10.729	0.000	97	4880938	100.0	104.2	
122 1,2,3-Trichlorobenzene	180	10.930	10.924	0.006	96	1458329	100.0	100.4	
S 125 1,2-Dichloroethene, Total	1				0			192.5	
S 126 1,3-Dichloropropene, Total	1				0			211.9	
S 123 Total BTEX	1				0			485.7	
S 124 Xylenes, Total	1				0			195.6	

Reagents:

8260 CORP mix_00017	Amount Added:	50.00	Units: uL	
GAS CORP mix_00039	Amount Added:	50.00	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

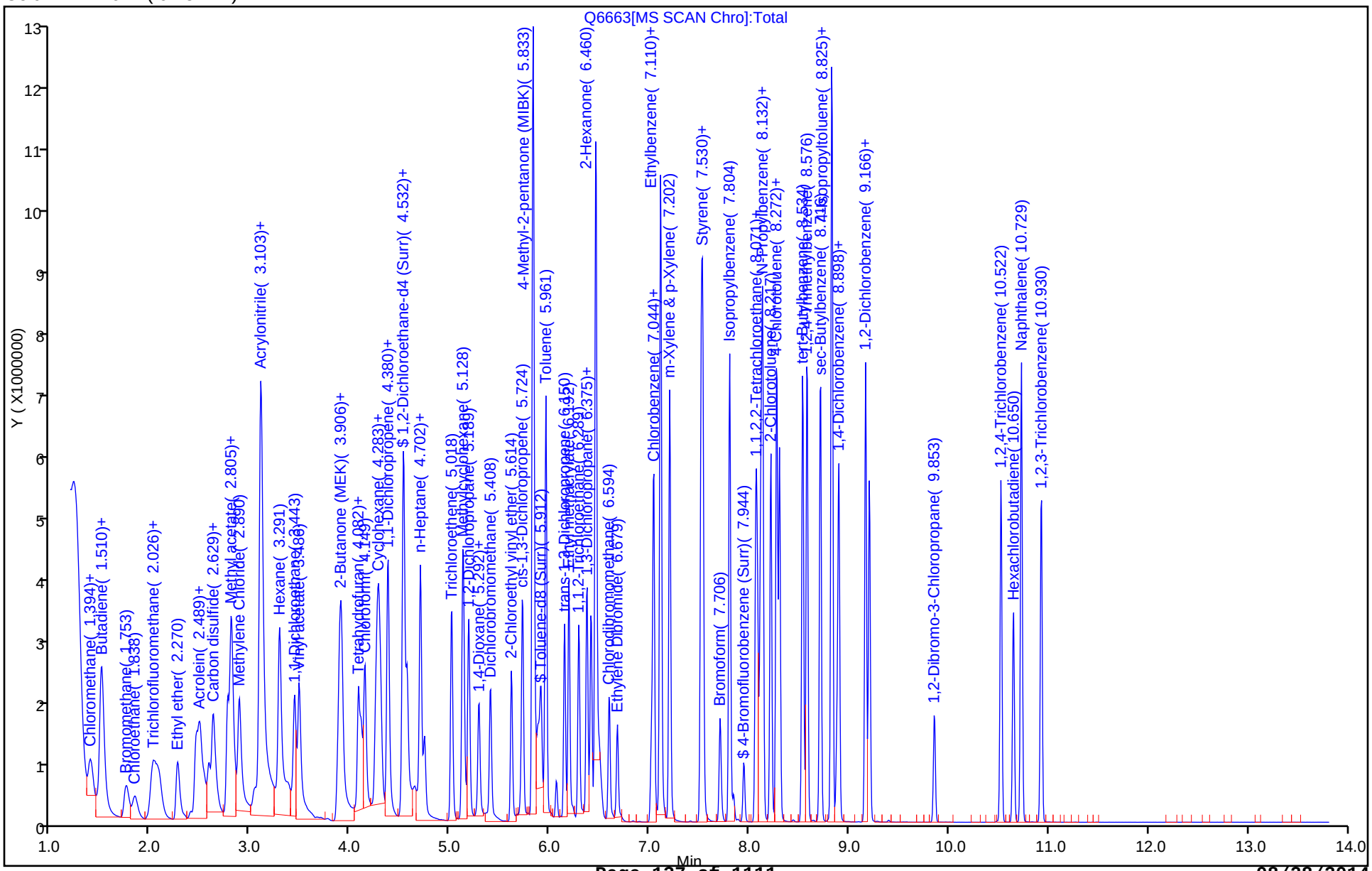
Report Date: 31-Jul-2014 09:28:10 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Injection Date:	31-Jul-2014 04:21:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCVIS 480-195781/4 Calibration Date: 07/31/2014 21:52

Instrument ID: HP5973Q Calib Start Date: 07/31/2014 01:58

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 07/31/2014 04:21

Lab File ID: Q6674.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.747	1.738	0.1000	24.9	25.0	-0.5	20.0
Chloromethane	Ave	2.422	2.300	0.1000	23.7	25.0	-5.1	20.0
Vinyl chloride	Ave	2.445	2.445	0.1000	25.0	25.0	0.0	20.0
Butadiene	Ave	2.406	2.149		22.3	25.0	-10.7	20.0
Bromomethane	Ave	1.175	1.225	0.1000	26.1	25.0	4.3	20.0
Chloroethane	Ave	1.076	1.108	0.1000	25.7	25.0	3.0	20.0
Dichlorofluoromethane	Ave	2.585	2.676		25.9	25.0	3.5	20.0
Trichlorofluoromethane	Ave	1.663	1.899	0.1000	28.6	25.0	14.2	20.0
Ethyl ether	Ave	1.346	1.344		25.0	25.0	-0.2	20.0
Acrolein	Ave	0.0548	0.0863		197	125	57.4*	20.0
1,1-Dichloroethene	Ave	1.302	1.322	0.1000	25.4	25.0	1.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.271	1.261	0.1000	24.8	25.0	-0.8	20.0
Acetone	Ave	0.5074	0.5153	0.1000	127	125	1.6	20.0
Iodomethane	Ave	2.383	2.368		24.8	25.0	-0.6	20.0
Carbon disulfide	Ave	4.494	4.240	0.1000	23.6	25.0	-5.7	20.0
Allyl chloride	Ave	2.758	2.719		24.7	25.0	-1.4	20.0
Methyl acetate	Ave	1.914	1.920	0.1000	125	125	0.3	20.0
Methylene Chloride	Ave	1.501	1.441	0.1000	24.0	25.0	-4.0	20.0
2-Methyl-2-propanol	Qua		0.1194		324	250	29.5*	20.0
Methyl tert-butyl ether	Ave	4.165	4.183	0.1000	25.1	25.0	0.4	20.0
trans-1,2-Dichloroethene	Ave	1.435	1.439	0.1000	25.1	25.0	0.3	20.0
Acrylonitrile	Ave	0.7799	0.9591		307	250	23.0*	20.0
Hexane	Ave	2.364	2.375		25.1	25.0	0.5	20.0
1,1-Dichloroethane	Ave	2.932	2.875	0.2000	24.5	25.0	-1.9	20.0
Vinyl acetate	Ave	2.210	2.318		52.4	50.0	4.9	20.0
2,2-Dichloropropane	Ave	1.073	1.104		25.7	25.0	2.9	20.0
cis-1,2-Dichloroethene	Ave	1.625	1.594	0.1000	24.5	25.0	-1.9	20.0
2-Butanone (MEK)	Ave	1.179	1.295	0.1000	137	125	9.8	20.0
Chlorobromomethane	Ave	0.7739	0.7920		25.6	25.0	2.3	20.0
Tetrahydrofuran	Ave	0.8382	0.8302		49.5	50.0	-1.0	20.0
Chloroform	Ave	2.246	2.168	0.2000	24.1	25.0	-3.5	20.0
1,1,1-Trichloroethane	Ave	1.577	1.666	0.1000	26.4	25.0	5.6	20.0
Cyclohexane	Ave	2.973	2.839	0.1000	23.9	25.0	-4.5	20.0
Carbon tetrachloride	Ave	1.199	1.293	0.1000	27.0	25.0	7.8	20.0
1,1-Dichloropropene	Ave	1.823	1.807		24.8	25.0	-0.9	20.0
Isobutyl alcohol	Ave	0.0763	0.0919		753	625	20.4*	20.0
Benzene	Ave	5.847	5.658	0.5000	24.2	25.0	-3.2	20.0
1,2-Dichloroethane	Ave	1.961	1.925	0.1000	24.5	25.0	-1.9	20.0
n-Heptane	Ave	2.890	2.759		23.9	25.0	-4.5	20.0
Trichloroethene	Ave	1.450	1.397	0.2000	24.1	25.0	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCVIS 480-195781/4 Calibration Date: 07/31/2014 21:52

Instrument ID: HP5973Q Calib Start Date: 07/31/2014 01:58

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 07/31/2014 04:21

Lab File ID: Q6674.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.538	2.532	0.1000	24.9	25.0	-0.2	20.0
1,2-Dichloropropane	Ave	1.668	1.621	0.1000	24.3	25.0	-2.9	20.0
Dibromomethane	Ave	0.8798	0.8996	0.1000	25.6	25.0	2.2	20.0
1,4-Dioxane	Qua		0.0085		502	500	0.4	20.0
Bromodichloromethane	Ave	1.558	1.705	0.2000	27.4	25.0	9.5	20.0
2-Chloroethyl vinyl ether	Ave	1.266	1.327		26.2	25.0	4.8	20.0
cis-1,3-Dichloropropene	Ave	2.188	2.321	0.2000	26.5	25.0	6.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.493	1.586	0.1000	133	125	6.2	20.0
Toluene	Ave	1.800	1.783	0.4000	24.8	25.0	-1.0	20.0
trans-1,3-Dichloropropene	Ave	0.9324	1.039	0.1000	27.9	25.0	11.4	20.0
Ethyl methacrylate	Ave	1.115	1.189		26.7	25.0	6.7	20.0
1,1,2-Trichloroethane	Ave	0.5853	0.5957	0.1000	25.4	25.0	1.8	20.0
Tetrachloroethene	Ave	0.8228	0.8513	0.2000	25.9	25.0	3.5	20.0
1,3-Dichloropropane	Ave	1.239	1.258		25.4	25.0	1.5	20.0
2-Hexanone	Ave	1.187	1.143	0.1000	120	125	-3.7	20.0
Dibromochloromethane	Ave	0.5926	0.6951	0.1000	29.3	25.0	17.3	20.0
1,2-Dibromoethane	Ave	0.7280	0.7480		25.7	25.0	2.7	20.0
Chlorobenzene	Ave	2.031	2.053	0.5000	25.3	25.0	1.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5867	0.6570		28.0	25.0	12.0	20.0
Ethylbenzene	Ave	3.250	3.311	0.1000	25.5	25.0	1.9	20.0
m,p-Xylene	Ave	1.308	1.318	0.1000	25.2	25.0	0.8	20.0
o-Xylene	Ave	1.333	1.359	0.3000	25.5	25.0	1.9	20.0
Styrene	Ave	2.136	2.163	0.3000	25.3	25.0	1.2	20.0
Bromoform	Lin1		0.5479	0.1000	26.2	25.0	4.7	20.0
Isopropylbenzene	Ave	3.286	3.332	0.1000	25.3	25.0	1.4	20.0
Bromobenzene	Ave	0.9144	0.8988		24.6	25.0	-1.7	20.0
1,1,2,2-Tetrachloroethane	Ave	1.124	1.140	0.3000	25.3	25.0	1.4	20.0
1,2,3-Trichloropropane	Ave	0.3324	0.3326		25.0	25.0	0.0	20.0
trans-1,4-Dichloro-2-butene	Lin		0.3535		27.7	25.0	10.6	20.0
N-Propylbenzene	Ave	3.772	3.852		25.5	25.0	2.1	20.0
2-Chlorotoluene	Ave	0.7843	0.7889		25.1	25.0	0.6	20.0
1,3,5-Trimethylbenzene	Ave	2.591	2.642		25.5	25.0	2.0	20.0
4-Chlorotoluene	Ave	0.7857	0.8034		25.6	25.0	2.2	20.0
tert-Butylbenzene	Ave	0.6155	0.6496		26.4	25.0	5.5	20.0
1,2,4-Trimethylbenzene	Ave	2.673	2.683		25.1	25.0	0.4	20.0
sec-Butylbenzene	Ave	3.398	3.511		25.8	25.0	3.3	20.0
1,3-Dichlorobenzene	Ave	1.604	1.634	0.6000	25.5	25.0	1.9	20.0
4-Isopropyltoluene	Ave	2.849	2.910		25.5	25.0	2.1	20.0
1,4-Dichlorobenzene	Ave	1.632	1.628	0.5000	24.9	25.0	-0.3	20.0
n-Butylbenzene	Ave	2.568	2.649		25.8	25.0	3.1	20.0
1,2-Dichlorobenzene	Ave	1.619	1.614	0.4000	24.9	25.0	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCVIS 480-195781/4 Calibration Date: 07/31/2014 21:52

Instrument ID: HP5973Q Calib Start Date: 07/31/2014 01:58

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 07/31/2014 04:21

Lab File ID: Q6674.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2004	0.2231	0.0500	27.8	25.0	11.3	20.0
1,2,4-Trichlorobenzene	Ave	1.199	1.195	0.2000	24.9	25.0	-0.4	20.0
Hexachlorobutadiene	Ave	0.4484	0.4635		25.8	25.0	3.4	20.0
Naphthalene	Ave	3.698	3.607		24.4	25.0	-2.4	20.0
1,2,3-Trichlorobenzene	Ave	1.147	1.144		24.9	25.0	-0.3	20.0
Dibromofluoromethane (Surr)	Ave	1.139	1.125		24.7	25.0	-1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7079	0.6880		24.3	25.0	-2.8	20.0
Toluene-d8 (Surr)	Ave	2.493	2.466		24.7	25.0	-1.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7751	0.7793		25.1	25.0	0.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6674.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Jul-2014 21:52:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0034262-004
Operator ID: NMD Instrument ID: HP5973Q
Sublist: chrom-Q-8260*sub5

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 22:36:37 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 31-Jul-2014 22:36:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.746	4.746	0.000	85	182148	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.020	7.020	0.000	84	335056	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.875	8.875	0.000	65	339072	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.271	4.271	0.000	71	204861	25.0	24.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.515	4.515	0.000	92	125318	25.0	24.3	
$ 5 Toluene-d8 (Surr)	98	5.913	5.913	0.000	92	826107	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	7.945	7.945	0.000	96	261098	25.0	25.1	
10 Dichlorodifluoromethane	85	1.292	1.292	0.000	98	316648	25.0	24.9	
12 Chloromethane	50	1.395	1.395	0.000	89	418873	25.0	23.7	
13 Vinyl chloride	62	1.498	1.498	0.000	72	445394	25.0	25.0	
144 Butadiene	54	1.511	1.511	0.000	93	391370	25.0	22.3	
14 Bromomethane	94	1.754	1.754	0.000	90	223179	25.0	26.1	
15 Chloroethane	64	1.839	1.839	0.000	94	201878	25.0	25.7	
16 Dichlorofluoromethane	67	2.027	2.027	0.000	83	487400	25.0	25.9	
17 Trichlorofluoromethane	101	2.076	2.076	0.000	85	345921	25.0	28.6	
18 Ethyl ether	59	2.271	2.271	0.000	92	244765	25.0	25.0	
20 Acrolein	56	2.405	2.405	0.000	82	78602	125.0	196.8	
22 1,1-Dichloroethene	96	2.459	2.459	0.000	89	240796	25.0	25.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.496	2.496	0.000	84	229621	25.0	24.8	
23 Acetone	43	2.538	2.538	0.000	97	469340	125.0	127.0	
25 Iodomethane	142	2.593	2.593	0.000	94	431313	25.0	24.8	
26 Carbon disulfide	76	2.630	2.630	0.000	99	772248	25.0	23.6	
28 3-Chloro-1-propene	41	2.775	2.775	0.000	88	495291	25.0	24.7	
27 Methyl acetate	43	2.812	2.812	0.000	99	1748796	125.0	125.4	
30 Methylene Chloride	84	2.891	2.891	0.000	85	262417	25.0	24.0	
31 2-Methyl-2-propanol	59	3.031	3.031	0.000	97	217557	250.0	323.8	
32 Methyl tert-butyl ether	73	3.098	3.098	0.000	90	761981	25.0	25.1	
34 trans-1,2-Dichloroethene	96	3.098	3.098	0.000	64	262163	25.0	25.1	
33 Acrylonitrile	53	3.110	3.110	0.000	99	1746973	250.0	307.5	
35 Hexane	57	3.292	3.292	0.000	93	432582	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.444	3.444	0.000	85	523733	25.0	24.5	
37 Vinyl acetate	43	3.487	3.487	0.000	96	844399	50.0	52.4	
44 2,2-Dichloropropane	77	3.882	3.882	0.000	81	201009	25.0	25.7	
45 cis-1,2-Dichloroethene	96	3.901	3.901	0.000	71	290400	25.0	24.5	
43 2-Butanone (MEK)	43	3.919	3.919	0.000	94	1179439	125.0	137.3	
48 Chlorobromomethane	128	4.083	4.083	0.000	93	144258	25.0	25.6	
49 Tetrahydrofuran	42	4.113	4.113	0.000	91	302430	50.0	49.5	
50 Chloroform	83	4.150	4.150	0.000	71	394880	25.0	24.1	
51 1,1,1-Trichloroethane	97	4.259	4.259	0.000	91	303389	25.0	26.4	
52 Cyclohexane	56	4.284	4.284	0.000	93	517051	25.0	23.9	
55 Carbon tetrachloride	117	4.375	4.375	0.000	57	235439	25.0	27.0	
54 1,1-Dichloropropene	75	4.381	4.381	0.000	90	329099	25.0	24.8	
53 Isobutyl alcohol	43	4.521	4.521	0.000	79	418313	625.0	752.6	
57 Benzene	78	4.539	4.539	0.000	97	1030633	25.0	24.2	
58 1,2-Dichloroethane	62	4.569	4.569	0.000	77	350614	25.0	24.5	
59 n-Heptane	43	4.703	4.703	0.000	95	502534	25.0	23.9	
62 Trichloroethene	95	5.019	5.019	0.000	92	254415	25.0	24.1	
64 Methylcyclohexane	83	5.129	5.129	0.000	94	461250	25.0	24.9	
65 1,2-Dichloropropane	63	5.190	5.190	0.000	90	295176	25.0	24.3	
67 Dibromomethane	93	5.287	5.287	0.000	89	163854	25.0	25.6	
66 1,4-Dioxane	88	5.299	5.299	0.000	31	56807	500.0	501.8	M
68 Dichlorobromomethane	83	5.409	5.409	0.000	92	310639	25.0	27.4	
69 2-Chloroethyl vinyl ether	63	5.615	5.615	0.000	90	241667	25.0	26.2	
72 cis-1,3-Dichloropropene	75	5.725	5.725	0.000	85	422753	25.0	26.5	
73 4-Methyl-2-pentanone (MIBK	43	5.828	5.828	0.000	98	2656872	125.0	132.8	
74 Toluene	92	5.962	5.962	0.000	91	597304	25.0	24.8	
77 trans-1,3-Dichloropropene	75	6.151	6.151	0.000	92	348145	25.0	27.9	
75 Ethyl methacrylate	69	6.193	6.193	0.000	75	398428	25.0	26.7	
79 1,1,2-Trichloroethane	83	6.290	6.290	0.000	86	199598	25.0	25.4	
81 Tetrachloroethene	166	6.376	6.376	0.000	88	285221	25.0	25.9	
82 1,3-Dichloropropane	76	6.412	6.412	0.000	91	421474	25.0	25.4	
80 2-Hexanone	43	6.461	6.461	0.000	95	1914302	125.0	120.4	
83 Chlorodibromomethane	129	6.595	6.595	0.000	90	232890	25.0	29.3	
84 Ethylene Dibromide	107	6.680	6.680	0.000	98	250607	25.0	25.7	
87 Chlorobenzene	112	7.045	7.045	0.000	95	687960	25.0	25.3	
88 Ethylbenzene	91	7.111	7.111	0.000	98	1109336	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	7.111	7.111	0.000	38	220127	25.0	28.0	
90 m-Xylene & p-Xylene	106	7.203	7.203	0.000	0	441727	25.0	25.2	
91 o-Xylene	106	7.519	7.519	0.000	95	455357	25.0	25.5	
92 Styrene	104	7.531	7.531	0.000	94	724654	25.0	25.3	
95 Bromoform	173	7.707	7.707	0.000	98	183564	25.0	26.2	
94 Isopropylbenzene	105	7.805	7.805	0.000	95	1129922	25.0	25.3	
101 Bromobenzene	156	8.066	8.066	0.000	90	304756	25.0	24.6	
97 1,1,2,2-Tetrachloroethane	83	8.078	8.078	0.000	85	386517	25.0	25.3	
100 1,2,3-Trichloropropane	110	8.109	8.109	0.000	40	112780	25.0	25.0	
98 trans-1,4-Dichloro-2-buten	53	8.115	8.115	0.000	51	119864	25.0	27.7	
99 N-Propylbenzene	91	8.133	8.133	0.000	98	1306105	25.0	25.5	
103 2-Chlorotoluene	126	8.212	8.212	0.000	96	267499	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	8.273	8.273	0.000	85	895785	25.0	25.5	
105 4-Chlorotoluene	126	8.303	8.303	0.000	79	272395	25.0	25.6	
106 tert-Butylbenzene	134	8.535	8.535	0.000	92	220249	25.0	26.4	
107 1,2,4-Trimethylbenzene	105	8.577	8.577	0.000	65	909835	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.711	8.711	0.000	93	1190361	25.0	25.8	
110 4-Isopropyltoluene	119	8.826	8.826	0.000	97	986625	25.0	25.5	
111 1,3-Dichlorobenzene	146	8.826	8.826	0.000	72	554111	25.0	25.5	
113 1,4-Dichlorobenzene	146	8.899	8.899	0.000	97	551868	25.0	24.9	
115 n-Butylbenzene	91	9.167	9.167	0.000	97	898195	25.0	25.8	
116 1,2-Dichlorobenzene	146	9.203	9.203	0.000	93	547365	25.0	24.9	
117 1,2-Dibromo-3-Chloropropan	75	9.854	9.854	0.000	86	75649	25.0	27.8	
119 1,2,4-Trichlorobenzene	180	10.523	10.523	0.000	93	405113	25.0	24.9	
120 Hexachlorobutadiene	225	10.651	10.651	0.000	93	157157	25.0	25.8	
121 Naphthalene	128	10.730	10.730	0.000	96	1223151	25.0	24.4	
122 1,2,3-Trichlorobenzene	180	10.924	10.924	0.000	94	387786	25.0	24.9	
S 123 Total BTEX	1				0			125.1	
S 124 Xylenes, Total	1				0			50.7	
S 125 1,2-Dichloroethene, Total	1				0			49.6	
S 126 1,3-Dichloropropene, Total	1				0			54.4	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260 CORP mix_00017	Amount Added:	12.50	Units: uL	
GAS CORP mix_00039	Amount Added:	12.50	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

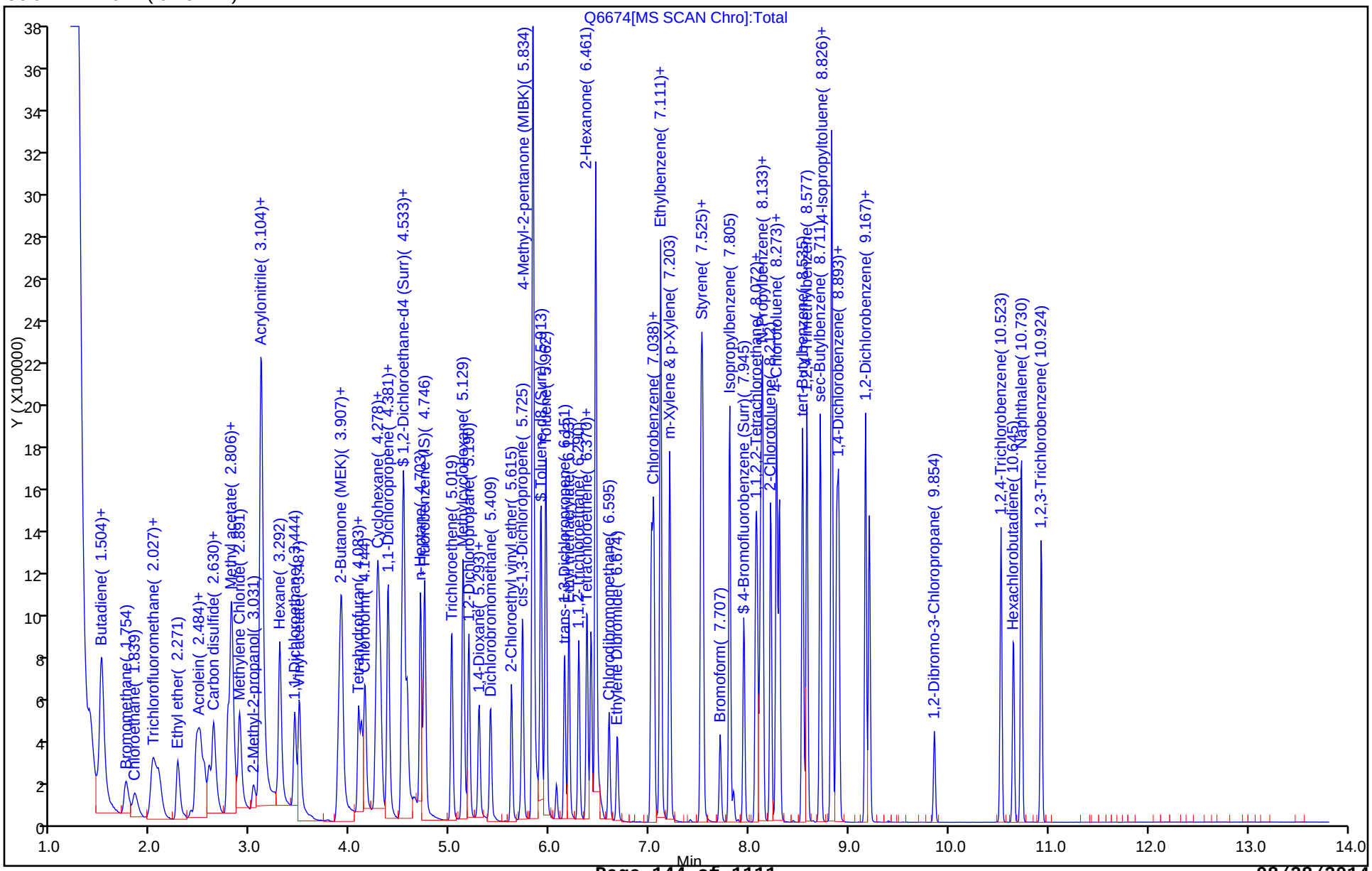
Report Date: 31-Jul-2014 22:36:37 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6674.D

Injection Date:	31-Jul-2014 21:52:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

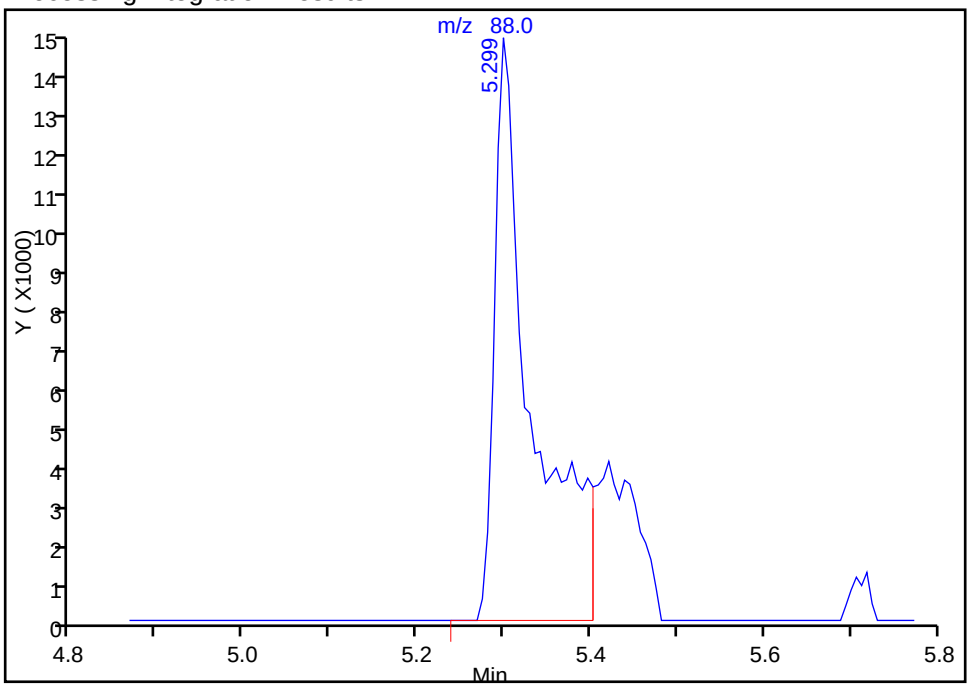
TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6674.D
Injection Date: 31-Jul-2014 21:52:30 Instrument ID: HP5973Q
Lims ID: CCVIS
Client ID:
Operator ID: NMD ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

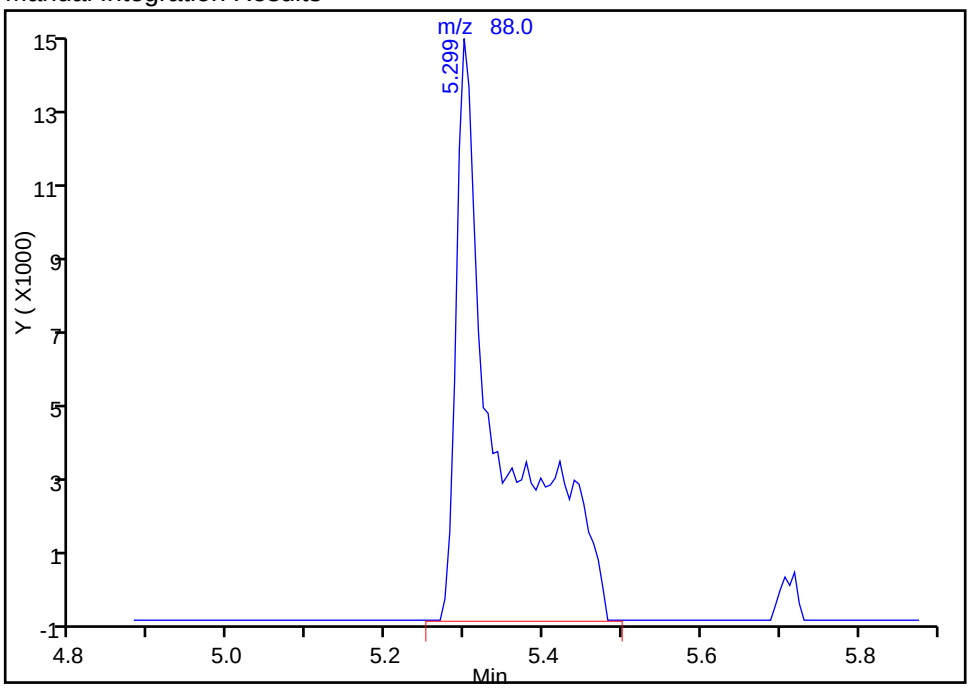
Processing Integration Results

RT: 5.30
Response: 44069
Amount: 388.7397



Manual Integration Results

RT: 5.30
Response: 56807
Amount: 501.8493



Reviewer: diasn, 31-Jul-2014 22:36:37
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6656.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Jul-2014 01:27:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0034227-003
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 01:43:06 Calib Date: 08-Jul-2014 22:51:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140708-33603.b\Q6319.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: diasn Date: 31-Jul-2014 01:43:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.801	3.801	0.000	0	119839	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

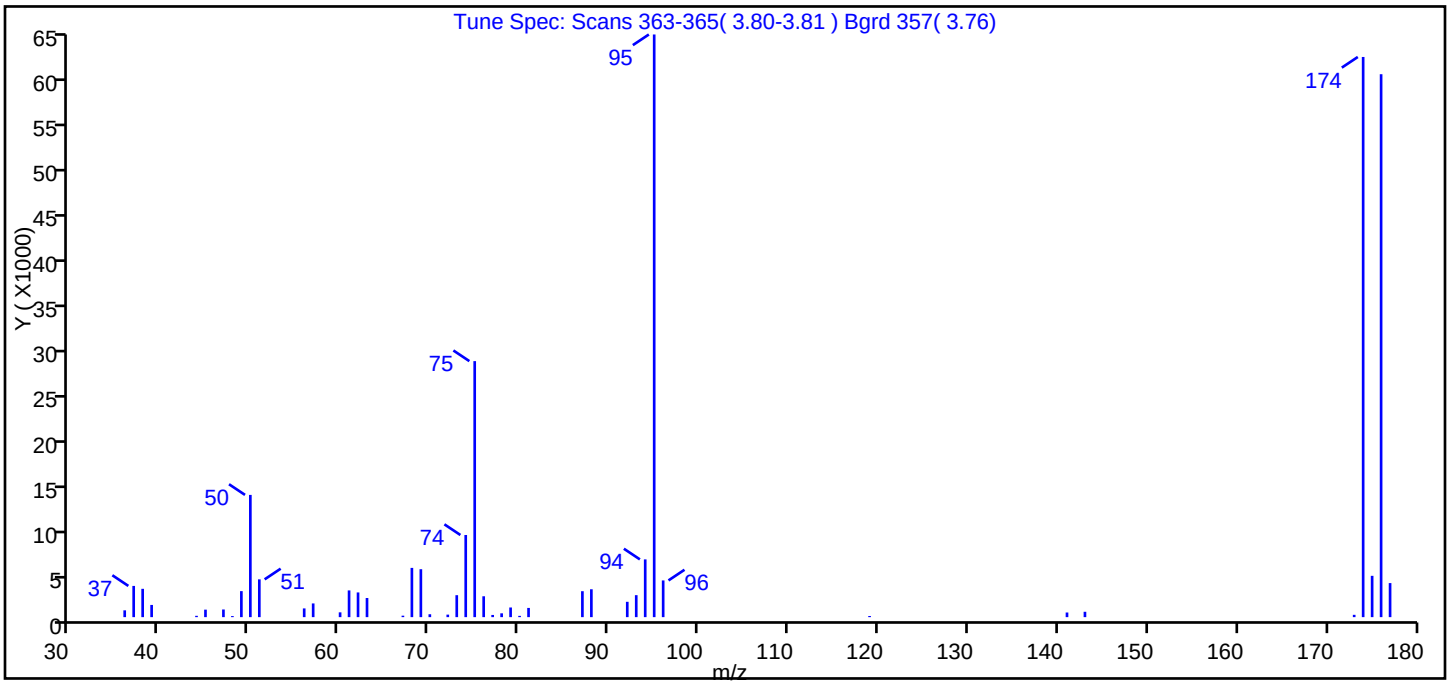
BFB_WRK_00036 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6656.D
Injection Date: 31-Jul-2014 01:27:30 Instrument ID: HP5973Q
Lims ID: BFB
Client ID:
Operator ID: NMD ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.00
75	30.00 - 60.00% of mass 95	43.90
96	5.00 - 9.00% of mass 95	6.30
173	Less than 2.00% of mass 174	0.40 (0.40)
174	50.00 - 120.00% of mass 95	96.10
175	5.00 - 9.00% of mass 174	7.10 (7.40)
176	95.00 - 101.00% of mass 174	93.20 (96.90)
177	5.00 - 9.00% of mass 176	5.80 (6.30)

Data File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6656.D\Q-8260.rslt\spectra.d
Injection Date: 31-Jul-2014 01:27:30
Spectrum: Tune Spec: Scans 363-365(3.80-3.81) Bgrd 357(3.76)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	758	57.00	1526	75.00	28504	95.00	64872
37.00	3476	60.00	535	76.00	2324	96.00	4088
38.00	3153	61.00	2976	77.00	244	119.00	126
39.00	1359	62.00	2751	78.00	426	141.00	516
44.00	148	63.00	2131	79.00	1075	143.00	597
45.00	835	67.00	162	80.00	143	173.00	258
47.00	853	68.00	5484	81.00	1026	174.00	62368
48.00	118	69.00	5336	87.00	2888	175.00	4600
49.00	2897	70.00	323	88.00	3104	176.00	60448
50.00	13610	72.00	280	92.00	1707	177.00	3792
51.00	4208	73.00	2445	93.00	2447		
56.00	972	74.00	9146	94.00	6430		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6673.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Jul-2014 21:26:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0034262-003
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 23:39:10 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 31-Jul-2014 21:36:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70		4.745					0	
* 2 Chlorobenzene-d5	82		7.019					0	
* 3 1,4-Dichlorobenzene-d4	152		8.874					0	
$ 148 Dibromofluoromethane (Surr	113		4.271					ND	
$ 4 1,2-Dichloroethane-d4 (Sur	67		4.514					ND	
$ 5 Toluene-d8 (Surr)	98		5.913					ND	
$ 6 4-Bromofluorobenzene (Surr	174		7.944					ND	
$ 61 BFB	95	3.801	3.801	0.000	0	92088	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
ND - Not Detected or Marked ND

Reagents:

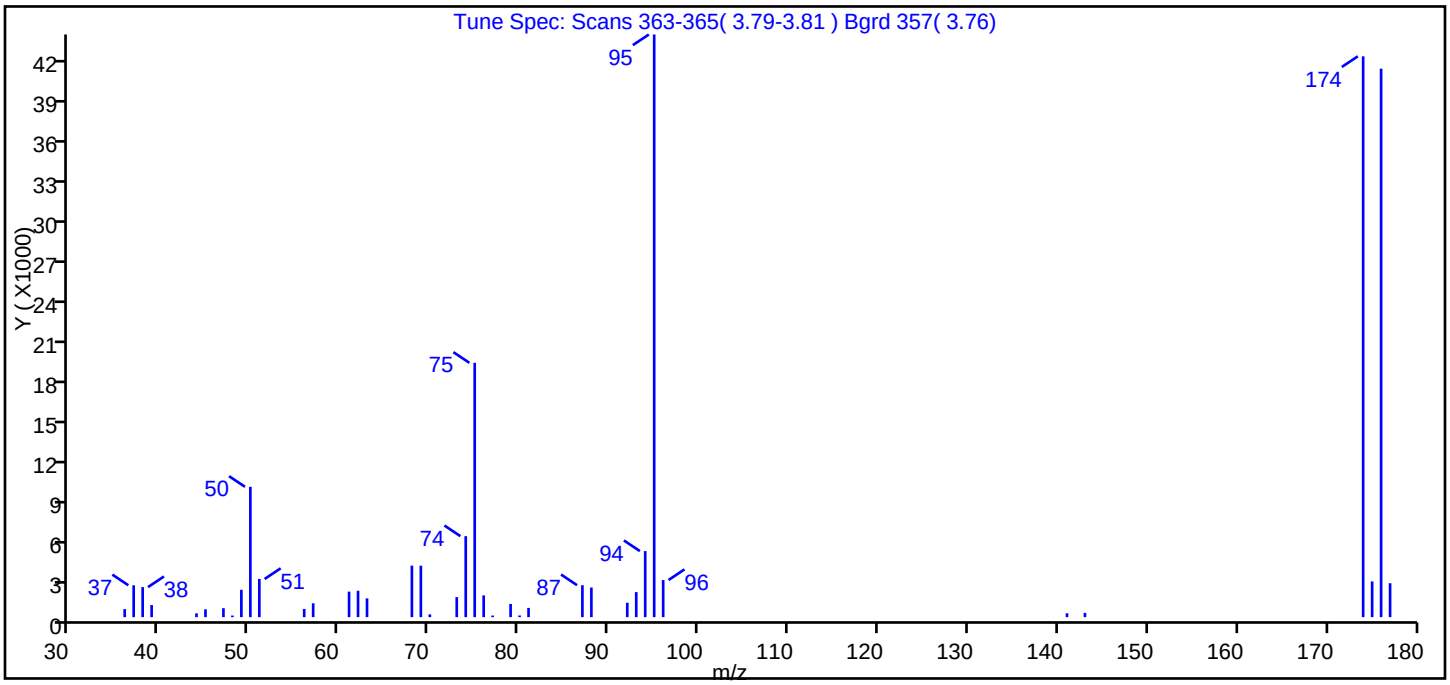
BFB_WRK_00036	Amount Added:	1.00	Units: uL	
Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

MS Tune Report

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6673.D
Injection Date: 31-Jul-2014 21:26:30 Instrument ID: HP5973Q
Lims ID: BFB
Client ID:
Operator ID: NMD ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: Q-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.40
75	30.00 - 60.00% of mass 95	43.60
96	5.00 - 9.00% of mass 95	6.40
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	96.30
175	5.00 - 9.00% of mass 174	6.10 (6.40)
176	95.00 - 101.00% of mass 174	94.10 (97.80)
177	5.00 - 9.00% of mass 176	5.80 (6.20)

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6673.D\Q-8260.rslt\spectra.d
Injection Date: 31-Jul-2014 21:26:30
Spectrum: Tune Spec: Scans 363-365(3.79-3.81) Bgrd 357(3.76)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 40

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	603	51.00	2868	74.00	6083	93.00	1880
37.00	2393	56.00	616	75.00	19104	94.00	4962
38.00	2255	57.00	1041	76.00	1634	95.00	43768
39.00	905	61.00	1917	77.00	119	96.00	2786
44.00	282	62.00	1982	79.00	992	141.00	291
45.00	589	63.00	1410	80.00	124	143.00	321
47.00	672	68.00	3871	81.00	694	174.00	42128
48.00	120	69.00	3862	87.00	2400	175.00	2684
49.00	2055	70.00	208	88.00	2227	176.00	41200
50.00	9789	73.00	1504	92.00	1079	177.00	2548

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-195781/9

Matrix: Water | Lab File ID: Q6679.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2014 23:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-195781/9

Matrix: Water | Lab File ID: Q6679.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2014 23:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		66-137
2037-26-5	Toluene-d8 (Surr)	102		71-126
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6679.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Jul-2014 23:50:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0034262-009
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 01-Aug-2014 00:36:15 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: diasn Date: 01-Aug-2014 00:36:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.747	4.745	0.002	99	163501	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.016	7.019	-0.003	87	297282	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.877	8.874	0.003	94	311403	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.273	4.271	0.002	94	187955	25.0	25.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.516	4.514	0.002	96	114216	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	5.909	5.913	-0.004	94	757961	25.0	25.6	
$ 6 4-Bromofluorobenzene (Surr	174	7.946	7.944	0.002	95	232258	25.0	25.2	
10 Dichlorodifluoromethane	85		1.292					ND	
11 Chlorodifluoromethane	51		1.315					ND	
12 Chloromethane	50		1.395					ND	
13 Vinyl chloride	62		1.498					ND	
144 Butadiene	54		1.511					ND	
14 Bromomethane	94		1.754					ND	
15 Chloroethane	64		1.839					ND	
16 Dichlorofluoromethane	67		2.027					ND	
17 Trichlorofluoromethane	101		2.076					ND	
18 Ethyl ether	59		2.271					ND	
141 Ethanol	45		2.343					ND	
20 Acrolein	56		2.405					ND	
22 1,1-Dichloroethene	96		2.459					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.496					ND	
23 Acetone	43		2.538					ND	
25 Iodomethane	142		2.593					ND	
26 Carbon disulfide	76		2.630					ND	
24 Isopropyl alcohol	45		2.744					ND	
28 3-Chloro-1-propene	41		2.775					ND	
29 Acetonitrile	40		2.805					ND	
27 Methyl acetate	43		2.812					ND	
30 Methylene Chloride	84		2.891					ND	
31 2-Methyl-2-propanol	59		3.031					ND	
32 Methyl tert-butyl ether	73		3.098					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.098					ND	
33 Acrylonitrile	53		3.110					ND	
35 Hexane	57		3.292					ND	
39 1,1-Dichloroethane	63		3.444					ND	
36 Isopropyl ether	45		3.480					ND	
37 Vinyl acetate	43		3.487					ND	
40 2-Chloro-1,3-butadiene	53		3.504					ND	
38 1,1-Dimethoxyethane	75		3.535					ND	
41 Tert-butyl ethyl ether	59		3.760					ND	
44 2,2-Dichloropropane	77		3.882					ND	
45 cis-1,2-Dichloroethene	96		3.901					ND	
43 2-Butanone (MEK)	43		3.919					ND	
42 Ethyl acetate	43		3.954					ND	
46 Propionitrile	54		3.985					ND	
47 Methacrylonitrile	41		4.082					ND	
48 Chlorobromomethane	128		4.083					ND	
49 Tetrahydrofuran	42		4.113					ND	
50 Chloroform	83		4.150					ND	
51 1,1,1-Trichloroethane	97		4.259					ND	
52 Cyclohexane	56		4.284					ND	
55 Carbon tetrachloride	117		4.375					ND	
54 1,1-Dichloropropene	75		4.381					ND	
53 Isobutyl alcohol	43		4.521					ND	
57 Benzene	78		4.539					ND	
146 Isooctane	57		4.563					ND	
58 1,2-Dichloroethane	62		4.569					ND	
140 t-Amyl alcohol	59		4.581					ND	
56 Tert-amyl methyl ether	73		4.605					ND	
59 n-Heptane	43		4.703					ND	
1 1,4-Difluorobenzene	114		4.830					ND	
60 n-Butanol	56		5.019					ND	
62 Trichloroethene	95		5.019					ND	
145 Ethyl acrylate	55		5.098					ND	
64 Methylcyclohexane	83		5.129					ND	
65 1,2-Dichloropropane	63		5.190					ND	
63 Methyl methacrylate	41		5.268					ND	
67 Dibromomethane	93		5.287					ND	
66 1,4-Dioxane	88		5.299					ND	
68 Dichlorobromomethane	83		5.409					ND	
70 2-Nitropropane	43		5.578					ND	
69 2-Chloroethyl vinyl ether	63		5.615					ND	
71 Epichlorohydrin	57		5.682					ND	
72 cis-1,3-Dichloropropene	75		5.725					ND	
73 4-Methyl-2-pentanone (MIBK	43		5.828					ND	
74 Toluene	92		5.962					ND	
76 2-Methylthiophene	97		6.059					ND	
77 trans-1,3-Dichloropropene	75		6.151					ND	
78 3-Methylthiophene	97		6.180					ND	
75 Ethyl methacrylate	69		6.193					ND	
79 1,1,2-Trichloroethane	83		6.290					ND	
81 Tetrachloroethene	166		6.376					ND	
82 1,3-Dichloropropane	76		6.412					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 2-Hexanone	43		6.461					ND	
149 n-Butyl acetate	43		6.545					ND	
83 Chlorodibromomethane	129		6.595					ND	
84 Ethylene Dibromide	107		6.680					ND	
139 1-Chlorohexane	55		7.001					ND	
85 3-Chlorobenzotrifluoride	180		7.013					ND	
87 Chlorobenzene	112		7.045					ND	
86 4-Chlorobenzotrifluoride	180		7.056					ND	
89 1,1,1,2-Tetrachloroethane	131		7.111					ND	
88 Ethylbenzene	91		7.111					ND	
90 m-Xylene & p-Xylene	106		7.203					ND	
91 o-Xylene	106		7.519					ND	
92 Styrene	104		7.531					ND	
95 Bromoform	173		7.707					ND	
93 2-Chlorobenzotrifluoride	180		7.731					ND	
94 Isopropylbenzene	105		7.805					ND	
96 Cyclohexanone	55		7.913					ND	
101 Bromobenzene	156		8.066					ND	
97 1,1,2,2-Tetrachloroethane	83		8.078					ND	
100 1,2,3-Trichloropropane	110		8.109					ND	
98 trans-1,4-Dichloro-2-buten	53		8.115					ND	
99 N-Propylbenzene	91		8.133					ND	
103 2-Chlorotoluene	126		8.212					ND	
104 3-Chlorotoluene	126		8.266					ND	
102 1,3,5-Trimethylbenzene	105		8.273					ND	
105 4-Chlorotoluene	126		8.303					ND	
106 tert-Butylbenzene	134		8.535					ND	
108 Pentachloroethane	167		8.576					ND	
107 1,2,4-Trimethylbenzene	105		8.577					ND	
109 sec-Butylbenzene	105		8.711					ND	
111 1,3-Dichlorobenzene	146		8.826					ND	
110 4-Isopropyltoluene	119		8.826					ND	
114 Dicyclopentadiene	66		8.892					ND	
113 1,4-Dichlorobenzene	146		8.899					ND	
112 1,2,3-Trimethylbenzene	105		8.923					ND	
143 Benzyl chloride	126		9.014					ND	
115 n-Butylbenzene	91		9.167					ND	
116 1,2-Dichlorobenzene	146		9.203					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.854					ND	
118 1,3,5-Trichlorobenzene	180		10.005					ND	
119 1,2,4-Trichlorobenzene	180		10.523					ND	
120 Hexachlorobutadiene	225		10.651					ND	
121 Naphthalene	128		10.730					ND	
122 1,2,3-Trichlorobenzene	180		10.924					ND	
142 2-Methylnaphthalene	142		11.605					ND	
132 Halothane	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					0	
S 126 1,3-Dichloropropene, Total	1		30.000					0	
S 123 Total BTEX	1		30.000					0	
S 124 Xylenes, Total	1		30.000					0	
T 127 Ethanol TIC	45		2.280					0	
T 134 Pentachloroethane TIC	1		0.000					0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 136 Propene oxide TIC	1		0.000					0	
T 133 bis(chloromethyl)ether TIC	1		0.000					0	
T 9 bis(2-chloromethyl)ether T	1		0.000					0	
T 128 Hexachloroethane TIC	1		0.000					0	
T 138 Ethylene oxide TIC	1		0.000					0	
T 137 1-Bromopropane TIC	1		0.000					0	
T 131 tert-amyl alcohol TIC	1		0.000					0	
T 130 Bromoethane TIC	1		0.000					0	
T 129 Aziridine TIC	1		0.000					0	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

Q_8260_SURR_00064	Amount Added:	1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added:	1.25	Units: uL	Run Reagent

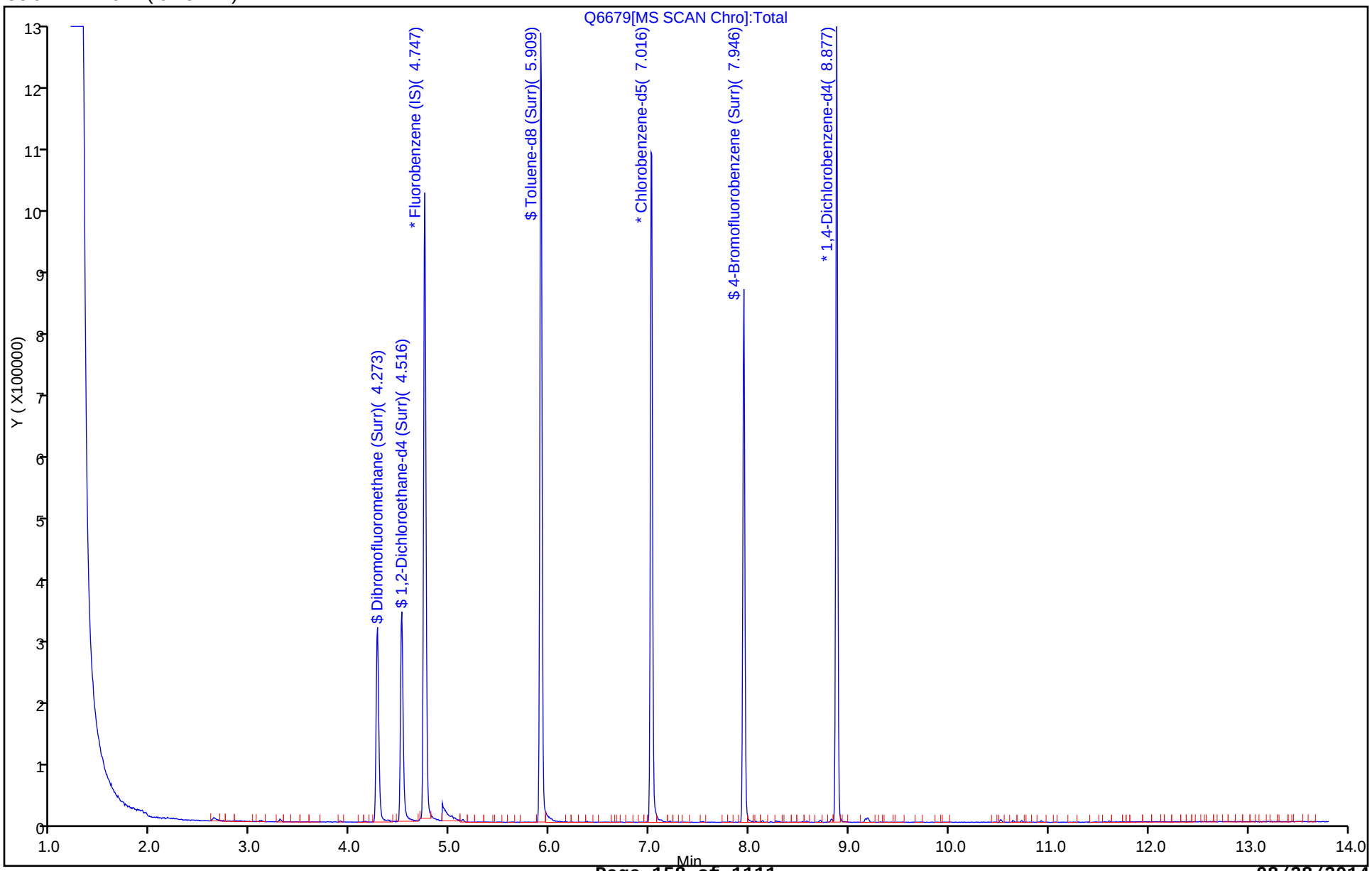
Report Date: 01-Aug-2014 00:36:16 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6679.D

Injection Date:	31-Jul-2014 23:50:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-195781/6

Matrix: Water | Lab File ID: Q6676.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2014 22:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.2		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.9		1.0	0.31
75-34-3	1,1-Dichloroethane	23.9		1.0	0.38
75-35-4	1,1-Dichloroethene	24.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	27.0		1.0	0.39
106-93-4	1,2-Dibromoethane	26.2		1.0	0.73
95-50-1	1,2-Dichlorobenzene	24.5		1.0	0.79
107-06-2	1,2-Dichloroethane	24.3		1.0	0.21
78-87-5	1,2-Dichloropropane	24.0		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.5		1.0	0.84
591-78-6	2-Hexanone	127		5.0	1.2
78-93-3	2-Butanone (MEK)	127		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	134		5.0	2.1
67-64-1	Acetone	119		10	3.0
71-43-2	Benzene	24.2		1.0	0.41
75-27-4	Bromodichloromethane	25.9		1.0	0.39
75-25-2	Bromoform	24.8		1.0	0.26
74-83-9	Bromomethane	25.6		1.0	0.69
75-15-0	Carbon disulfide	23.5		1.0	0.19
56-23-5	Carbon tetrachloride	26.4		1.0	0.27
108-90-7	Chlorobenzene	24.9		1.0	0.75
124-48-1	Dibromochloromethane	28.3		1.0	0.32
75-00-3	Chloroethane	25.2		1.0	0.32
67-66-3	Chloroform	24.2		1.0	0.34
74-87-3	Chloromethane	23.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.5		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.7		1.0	0.36
110-82-7	Cyclohexane	24.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	24.5		1.0	0.68
100-41-4	Ethylbenzene	25.3		1.0	0.74
98-82-8	Isopropylbenzene	24.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-195781/6

Matrix: Water | Lab File ID: Q6676.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2014 22:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 195781 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	120		2.5	0.50
1634-04-4	Methyl tert-butyl ether	24.3		1.0	0.16
108-87-2	Methylcyclohexane	24.7		1.0	0.16
75-09-2	Methylene Chloride	24.1		1.0	0.44
100-42-5	Styrene	25.6		1.0	0.73
127-18-4	Tetrachloroethene	25.4		1.0	0.36
108-88-3	Toluene	24.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.7		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.0		1.0	0.37
79-01-6	Trichloroethene	23.8		1.0	0.46
75-69-4	Trichlorofluoromethane	27.7		1.0	0.88
75-01-4	Vinyl chloride	23.6		1.0	0.90
1330-20-7	Xylenes, Total	50.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		66-137
2037-26-5	Toluene-d8 (Surr)	101		71-126
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6676.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Jul-2014 22:39:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0034262-006
Operator ID: NMD Instrument ID: HP5973Q

Method: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 31-Jul-2014 23:41:19 Calib Date: 31-Jul-2014 04:21:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20140730-34227.b\Q6663.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 31-Jul-2014 23:41:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.745	4.745	0.000	99	171990	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.019	7.019	0.000	85	314615	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.874	8.874	0.000	92	319880	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.271	4.271	0.000	94	199064	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.514	4.514	0.000	95	117339	25.0	24.1	
$ 5 Toluene-d8 (Surr)	98	5.913	5.913	0.000	94	793982	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	7.944	7.944	0.000	97	249272	25.0	25.6	
10 Dichlorodifluoromethane	85	1.297	1.292	0.005	98	294634	25.0	24.5	
12 Chloromethane	50	1.394	1.395	-0.001	98	390652	25.0	23.4	
13 Vinyl chloride	62	1.504	1.498	0.006	76	396666	25.0	23.6	
144 Butadiene	54	1.510	1.511	-0.001	97	381897	25.0	23.1	
14 Bromomethane	94	1.753	1.754	-0.001	89	207021	25.0	25.6	
15 Chloroethane	64	1.844	1.839	0.005	100	186391	25.0	25.2	
16 Dichlorofluoromethane	67	2.027	2.027	0.000	97	441697	25.0	24.8	
17 Trichlorofluoromethane	101	2.075	2.076	-0.001	97	317361	25.0	27.7	
18 Ethyl ether	59	2.276	2.271	0.005	93	224187	25.0	24.2	
20 Acrolein	56	2.404	2.405	-0.001	99	57452	125.0	152.3	
22 1,1-Dichloroethene	96	2.458	2.459	-0.001	96	219397	25.0	24.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.495	2.496	-0.001	91	209406	25.0	23.9	
23 Acetone	43	2.556	2.538	0.018	99	414884	125.0	118.9	
25 Iodomethane	142	2.592	2.593	-0.001	95	402708	25.0	24.6	
26 Carbon disulfide	76	2.629	2.630	-0.001	99	726215	25.0	23.5	
28 3-Chloro-1-propene	41	2.775	2.775	0.000	91	466994	25.0	24.6	
27 Methyl acetate	43	2.811	2.812	-0.001	99	1574239	125.0	119.6	
30 Methylene Chloride	84	2.890	2.891	-0.001	97	248498	25.0	24.1	
31 2-Methyl-2-propanol	59	3.054	3.031	0.023	91	191597	250.0	301.0	
32 Methyl tert-butyl ether	73	3.103	3.098	0.005	99	696907	25.0	24.3	
34 trans-1,2-Dichloroethene	96	3.103	3.098	0.005	73	243916	25.0	24.7	
33 Acrylonitrile	53	3.115	3.110	0.005	98	1342020	250.0	250.1	
35 Hexane	57	3.292	3.292	0.000	95	376341	25.0	23.1	
39 1,1-Dichloroethane	63	3.444	3.444	0.000	96	482542	25.0	23.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.492	3.487	0.005	97	773400	50.0	50.9	
44 2,2-Dichloropropane	77	3.881	3.882	-0.001	92	188577	25.0	25.5	
45 cis-1,2-Dichloroethene	96	3.900	3.901	-0.001	82	273618	25.0	24.5	
43 2-Butanone (MEK)	43	3.924	3.919	0.005	99	1028557	125.0	126.8	
48 Chlorobromomethane	128	4.088	4.083	0.005	97	133802	25.0	25.1	
49 Tetrahydrofuran	42	4.119	4.113	0.006	93	274188	50.0	47.5	
50 Chloroform	83	4.149	4.150	-0.001	95	373584	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.258	4.259	-0.001	98	281219	25.0	25.9	
52 Cyclohexane	56	4.283	4.284	-0.001	96	493620	25.0	24.1	
55 Carbon tetrachloride	117	4.380	4.375	0.005	94	217911	25.0	26.4	
54 1,1-Dichloropropene	75	4.380	4.381	-0.001	93	303095	25.0	24.2	
53 Isobutyl alcohol	43	4.532	4.521	0.011	68	397175	625.0	756.8	
57 Benzene	78	4.538	4.539	-0.001	97	973033	25.0	24.2	
58 1,2-Dichloroethane	62	4.569	4.569	0.000	96	327233	25.0	24.3	
59 n-Heptane	43	4.702	4.703	-0.001	96	539790	25.0	27.2	
62 Trichloroethene	95	5.019	5.019	0.000	96	237060	25.0	23.8	
64 Methylcyclohexane	83	5.128	5.129	-0.001	93	430998	25.0	24.7	
65 1,2-Dichloropropane	63	5.189	5.190	-0.001	98	275934	25.0	24.0	
67 Dibromomethane	93	5.292	5.287	0.005	92	147506	25.0	24.4	
66 1,4-Dioxane	88	5.323	5.299	0.024	96	42315	500.0	397.4	
68 Dichlorobromomethane	83	5.408	5.409	-0.001	98	277496	25.0	25.9	
69 2-Chloroethyl vinyl ether	63	5.615	5.615	0.000	92	223215	25.0	25.6	
72 cis-1,3-Dichloropropene	75	5.730	5.725	0.005	93	386884	25.0	25.7	
73 4-Methyl-2-pentanone (MIBK	43	5.834	5.828	0.006	98	2518299	125.0	134.1	
74 Toluene	92	5.961	5.962	-0.001	97	549927	25.0	24.3	
77 trans-1,3-Dichloropropene	75	6.150	6.151	-0.001	97	316903	25.0	27.0	
75 Ethyl methacrylate	69	6.192	6.193	-0.001	94	361027	25.0	25.7	
79 1,1,2-Trichloroethane	83	6.290	6.290	0.000	91	185667	25.0	25.2	
81 Tetrachloroethene	166	6.375	6.376	-0.001	95	263191	25.0	25.4	
82 1,3-Dichloropropane	76	6.411	6.412	-0.001	94	399418	25.0	25.6	
80 2-Hexanone	43	6.460	6.461	-0.001	98	1900869	125.0	127.3	
83 Chlorodibromomethane	129	6.594	6.595	-0.001	91	210844	25.0	28.3	
84 Ethylene Dibromide	107	6.679	6.680	-0.001	98	240457	25.0	26.2	
87 Chlorobenzene	112	7.044	7.045	-0.001	96	636432	25.0	24.9	
88 Ethylbenzene	91	7.111	7.111	0.000	98	1036455	25.0	25.3	
89 1,1,1,2-Tetrachloroethane	131	7.111	7.111	0.000	96	206032	25.0	27.9	
90 m-Xylene & p-Xylene	106	7.202	7.203	-0.001	0	416736	25.0	25.3	
91 o-Xylene	106	7.518	7.519	-0.001	95	427042	25.0	25.4	
92 Styrene	104	7.536	7.531	0.005	97	688972	25.0	25.6	
95 Bromoform	173	7.707	7.707	0.000	99	163145	25.0	24.8	
94 Isopropylbenzene	105	7.804	7.805	-0.001	95	1049152	25.0	24.9	
101 Bromobenzene	156	8.065	8.066	-0.001	91	287650	25.0	24.6	
97 1,1,2,2-Tetrachloroethane	83	8.078	8.078	0.000	93	360215	25.0	25.0	
100 1,2,3-Trichloropropane	110	8.114	8.109	0.005	85	105678	25.0	24.8	
98 trans-1,4-Dichloro-2-buten	53	8.120	8.115	0.005	75	93437	25.0	23.4	
99 N-Propylbenzene	91	8.132	8.133	-0.001	99	1213006	25.0	25.1	
103 2-Chlorotoluene	126	8.217	8.212	0.005	97	252186	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	8.272	8.273	-0.001	95	829244	25.0	25.0	
105 4-Chlorotoluene	126	8.303	8.303	0.000	96	251727	25.0	25.0	
106 tert-Butylbenzene	134	8.534	8.535	0.000	93	202228	25.0	25.7	
107 1,2,4-Trimethylbenzene	105	8.576	8.577	-0.001	97	850007	25.0	24.9	
109 sec-Butylbenzene	105	8.710	8.711	-0.001	94	1095282	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	8.832	8.826	0.006	97	920797	25.0	25.3	
111 1,3-Dichlorobenzene	146	8.826	8.826	0.000	99	516569	25.0	25.2	
113 1,4-Dichlorobenzene	146	8.899	8.899	0.000	97	510975	25.0	24.5	
115 n-Butylbenzene	91	9.166	9.167	-0.001	98	824826	25.0	25.1	
116 1,2-Dichlorobenzene	146	9.203	9.203	0.000	99	507489	25.0	24.5	
117 1,2-Dibromo-3-Chloropropan	75	9.853	9.854	-0.001	89	69312	25.0	27.0	
119 1,2,4-Trichlorobenzene	180	10.522	10.523	-0.001	94	375199	25.0	24.4	
120 Hexachlorobutadiene	225	10.650	10.651	-0.001	96	140698	25.0	24.5	
121 Naphthalene	128	10.729	10.730	-0.001	97	1138054	25.0	24.1	
122 1,2,3-Trichlorobenzene	180	10.930	10.924	0.006	95	347084	25.0	23.6	

Reagents:

8260 CORP mix_00017	Amount Added: 12.50	Units: uL	
GAS CORP mix_00039	Amount Added: 12.50	Units: uL	
Q_8260_SURR_00064	Amount Added: 1.25	Units: uL	Run Reagent
Q_8260_IS_00067	Amount Added: 1.25	Units: uL	Run Reagent

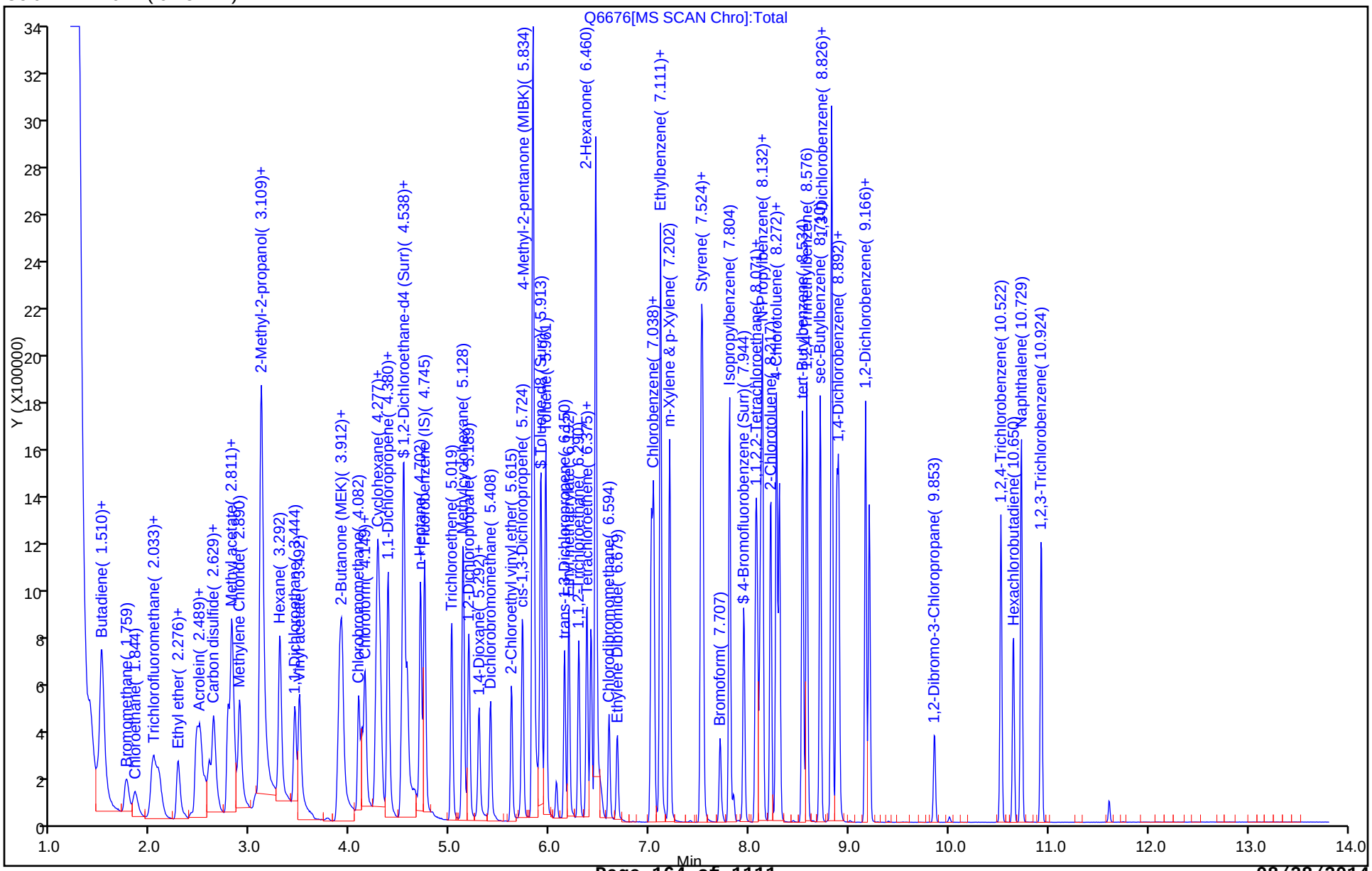
Report Date: 31-Jul-2014 23:41:20 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20140731-34262.b\Q6676.D

Injection Date:	31-Jul-2014 22:39:30	Instrument ID:	HP5973Q	Operator ID:	NMD
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	Q-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP5973Q Start Date: 07/31/2014 01:27

Analysis Batch Number: 195577 End Date: 07/31/2014 05:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-195577/3		07/31/2014 01:27	1	Q6656.D	ZB-624 (60) 0.25(mm)
IC 480-195577/4		07/31/2014 01:58	1	Q6657.D	ZB-624 (60) 0.25(mm)
IC 480-195577/5		07/31/2014 02:22	1	Q6658.D	ZB-624 (60) 0.25(mm)
IC 480-195577/6		07/31/2014 02:46	1	Q6659.D	ZB-624 (60) 0.25(mm)
IC 480-195577/7		07/31/2014 03:10	1	Q6660.D	ZB-624 (60) 0.25(mm)
ICIS 480-195577/8		07/31/2014 03:34	1	Q6661.D	ZB-624 (60) 0.25(mm)
IC 480-195577/9		07/31/2014 03:58	1	Q6662.D	ZB-624 (60) 0.25(mm)
IC 480-195577/10		07/31/2014 04:21	1	Q6663.D	ZB-624 (60) 0.25(mm)
MDLV 480-195577/12		07/31/2014 05:09	1		ZB-624 (60) 0.25(mm)
ICV 480-195577/13		07/31/2014 05:33	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP5973Q Start Date: 07/31/2014 21:26

Analysis Batch Number: 195781 End Date: 08/01/2014 09:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-195781/3		07/31/2014 21:26	1	Q6673.D	ZB-624 (60) 0.25(mm)
CCVIS 480-195781/4		07/31/2014 21:52	1	Q6674.D	ZB-624 (60) 0.25(mm)
CCV 480-195781/5		07/31/2014 22:15	1		ZB-624 (60) 0.25(mm)
LCS 480-195781/6		07/31/2014 22:39	1	Q6676.D	ZB-624 (60) 0.25(mm)
MDLV 480-195781/7		07/31/2014 23:03	1		ZB-624 (60) 0.25(mm)
MB 480-195781/9		07/31/2014 23:50	1	Q6679.D	ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 00:50	40		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 01:13	1		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 01:37	20		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 02:01	10		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 02:24	100		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 02:48	1		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 03:11	1		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 03:35	80		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 03:59	4		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 04:23	20		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 04:46	1		ZB-624 (60) 0.25(mm)
480-64676-1	AS-WTPE-14-0044	08/01/2014 05:10	1	Q6691.D	ZB-624 (60) 0.25(mm)
480-64676-2	AS-WTPE-14-0045	08/01/2014 05:34	1	Q6692.D	ZB-624 (60) 0.25(mm)
480-64676-3	AS-WTPE-14-0046	08/01/2014 05:58	1	Q6693.D	ZB-624 (60) 0.25(mm)
480-64676-4	AS-WTPE-14-0047	08/01/2014 06:22	1	Q6694.D	ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 06:46	25		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 07:09	1		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 07:33	4		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 07:57	1		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 08:21	1		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 08:45	4		ZB-624 (60) 0.25(mm)
ZZZZZ		08/01/2014 09:09	4		ZB-624 (60) 0.25(mm)

GC/MS VOA Worksheet

Batch Number: 480-195781
Method: 8260C
Analyst: Sobol, Renee A

Date Open: Jul 31 2014 9:26PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00034	3MTP_WRK_00037
BFB~480-195781/3		8260C			5 mL	5 mL	HP5973Q		
CCVIS~480-195781/4		8260C			5 mL	5 mL	HP5973Q		
CCV~480-195781/5		8260C			5 mL	5 mL	HP5973Q	12.5 uL	12.5 uL
LCS~480-195781/6		8260C			5 mL	5 mL	HP5973Q		
MDLV~480-195781/7					5 mL	5 mL	HP5973Q		
MB~480-195781/9		8260C			5 mL	5 mL	HP5973Q		
480-64431-A-1	MW-1	8260C	T	3 SU	5 mL	5 mL	HP5973Q		
480-64431-A-2	LG-2	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-3	MW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-4	MW-4	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-5	MW-5	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-6	MW-8	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-7	MW-11	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-8	MW-1205	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-9	MW-1207	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-10	MW-4 (LG)	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64431-A-11	TB	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64676-F-1	AS-WTPE-14-0044	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64676-F-2	AS-WTPE-14-0045	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64676-F-3	AS-WTPE-14-0046	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64676-F-4	AS-WTPE-14-0047	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64414-A-1	MW-1	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64414-A-2	MW-2	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64414-A-3	MW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64414-A-4	MW-4	8260C	T	<2 SU	5 mL	5 mL	HP5973Q		

GC/MS VOA Worksheet

Batch Number: 480-195781
Method: 8260C
Analyst: Sobol, Renee A

Date Open: Jul 31 2014 9:26PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00017	ADD CORP mix_00012	BFB_WRK_00036	GAS CORP mix_00039	Q_8260_IS_00067	Q_8260_SURR_00064
BFB~480-195781/3		8260C				1 uL		1.25 uL	1.25 uL
CCVIS~480-195781/4		8260C		12.5 uL			12.5 uL	1.25 uL	1.25 uL
CCV~480-195781/5		8260C			12.5 uL			1.25 uL	1.25 uL
LCS~480-195781/6		8260C		12.5 uL			12.5 uL	1.25 uL	1.25 uL
MDLV~480-195781/7				1 uL			1 uL	1.25 uL	1.25 uL
MB~480-195781/9		8260C						1.25 uL	1.25 uL
480-64431-A-1	MW-1	8260C	T					1.25 uL	1.25 uL
480-64431-A-2	LG-2	8260C	T					1.25 uL	1.25 uL
480-64431-A-3	MW-3	8260C	T					1.25 uL	1.25 uL
480-64431-A-4	MW-4	8260C	T					1.25 uL	1.25 uL
480-64431-A-5	MW-5	8260C	T					1.25 uL	1.25 uL
480-64431-A-6	MW-8	8260C	T					1.25 uL	1.25 uL
480-64431-A-7	MW-11	8260C	T					1.25 uL	1.25 uL
480-64431-A-8	MW-1205	8260C	T					1.25 uL	1.25 uL
480-64431-A-9	MW-1207	8260C	T					1.25 uL	1.25 uL
480-64431-A-10	MW-4 (LG)	8260C	T					1.25 uL	1.25 uL
480-64431-A-11	TB	8260C	T					1.25 uL	1.25 uL
480-64676-F-1	AS-WTPE-14-0044	8260C	T					1.25 uL	1.25 uL
480-64676-F-2	AS-WTPE-14-0045	8260C	T					1.25 uL	1.25 uL
480-64676-F-3	AS-WTPE-14-0046	8260C	T					1.25 uL	1.25 uL
480-64676-F-4	AS-WTPE-14-0047	8260C	T					1.25 uL	1.25 uL
480-64414-A-1	MW-1	8260C	T					1.25 uL	1.25 uL
480-64414-A-2	MW-2	8260C	T					1.25 uL	1.25 uL
480-64414-A-3	MW-3	8260C	T					1.25 uL	1.25 uL
480-64414-A-4	MW-4	8260C	T					1.25 uL	1.25 uL

GC/MS VOA Worksheet

Batch Number: 480-195781
Method: 8260C
Analyst: Sobol, Renee A

Date Open: Jul 31 2014 9:26PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00034	3MTP_WRK_00037
480-64414-A-5	MW-5	8260C	T	6 SU	5 mL	5 mL	HP5973Q		
480-64414-A-3~MS		8260C	T	<2 SU	5 mL	5 mL	HP5973Q		
480-64414-A-3~MSD		8260C	T	<2 SU	5 mL	5 mL	HP5973Q		

GC/MS VOA Worksheet

Batch Number: 480-195781
Method: 8260C
Analyst: Sobol, Renee A

Date Open: Jul 31 2014 9:26PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00017	ADD CORP mix_00012	BFB_WRK_00036	GAS CORP mix_00039	Q_8260_IS_00067	Q_8260_SURR_00064
480-64414-A-5	MW-5	8260C	T					1.25 uL	1.25 uL
480-64414-A-3~MS		8260C	T	12.5 uL			12.5 uL	1.25 uL	1.25 uL
480-64414-A-3~MSD		8260C	T	12.5 uL			12.5 uL	1.25 uL	1.25 uL

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
AS-WTPE-14-0044	480-64676-1	74	55	72	91	122	94
AS-WTPE-14-0045	480-64676-2	86	57	80	88	118	94
AS-WTPE-14-0046	480-64676-3	86	55	81	90	111	81
AS-WTPE-14-0047	480-64676-4	88	60	91	102	128	95
	MB 480-195843/1-A	100	66	96	96	114	107
	LCS 480-195843/2-A	119	78	112	111	129	118
	LCSD 480-195843/3-A	92	65	76	73	93	94

	QC LIMITS
2FP = 2-Fluorophenol	20-120
PHL = Phenol-d5	16-120
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TBP = 2,4,6-Tribromophenol	52-132
TPH = p-Terphenyl-d14	67-150

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W09272.D

Lab ID: LCS 480-195843/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dinitrophenol	64.0	63.7	100	42-153	
2-Chlorophenol	32.0	29.8	93	48-120	
4-Chloro-3-methylphenol	32.0	32.3	101	64-120	
4-Nitrophenol	64.0	40.3	63	16-120	
Acenaphthene	32.0	28.2	88	60-120	
Bis(2-ethylhexyl) phthalate	32.0	29.1	91	53-158	
Fluorene	32.0	29.5	92	55-143	
Hexachloroethane	32.0	27.7	87	14-101	
N-Nitrosodi-n-propylamine	32.0	28.2	88	56-120	
Pentachlorophenol	64.0	56.8	89	39-136	
Phenol	32.0	19.6	61	17-120	
Pyrene	32.0	30.8	96	58-136	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W09273.D

Lab ID: LCSD 480-195843/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dinitrophenol	64.0	43.5	68	38	22	42-153	*
2-Chlorophenol	32.0	21.9	69	30	25	48-120	*
4-Chloro-3-methylphenol	32.0	23.4	73	32	27	64-120	*
4-Nitrophenol	64.0	27.6	43	38	48	16-120	
Acenaphthene	32.0	19.7	62	35	24	60-120	*
Bis(2-ethylhexyl) phthalate	32.0	23.3	73	22	15	53-158	*
Fluorene	32.0	20.2	63	37	15	55-143	*
Hexachloroethane	32.0	18.1	57	42	46	14-101	
N-Nitrosodi-n-propylamine	32.0	19.0	59	39	31	56-120	*
Pentachlorophenol	64.0	42.1	66	30	37	39-136	
Phenol	32.0	15.9	50	21	34	17-120	
Pyrene	32.0	21.7	68	35	19	58-136	*

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab File ID: W09271.D Lab Sample ID: MB 480-195843/1-A

Matrix: Water Date Extracted: 08/01/2014 08:25

Instrument ID: HP5973W Date Analyzed: 08/02/2014 15:19

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-195843/2-A	W09272.D	08/02/2014 15:44
	LCSD 480-195843/3-A	W09273.D	08/02/2014 16:09
AS-WTPE-14-0044	480-64676-1	W09279.D	08/02/2014 18:39
AS-WTPE-14-0045	480-64676-2	W09280.D	08/02/2014 19:03
AS-WTPE-14-0046	480-64676-3	W09281.D	08/02/2014 19:28
AS-WTPE-14-0047	480-64676-4	W09282.D	08/02/2014 19:53

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab File ID: W08963.D DFTPP Injection Date: 07/23/2014

Instrument ID: HP5973W DFTPP Injection Time: 17:16

Analysis Batch No.: 194440

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	14.1	
68	Less than 2% of mass 69	0.0	(0.0)1
69	Mass 69 Relative abundance	19.3	
70	Less than 2% of mass 69	0.1	(0.6)1
127	10-80% of Base Peak	35.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	35.3	
365	Greater than 1% of mass 198	4.9	
441	present but less than 24% of mass 442	34.9	(16.9)2
442	Greater than 50% of mass 198	206.6	
443	15-24% of mass 442	45.1	(21.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-194440/3	W08965.D	07/23/2014	18:10
	IC 480-194440/4	W08966.D	07/23/2014	18:36
	IC 480-194440/5	W08967.D	07/23/2014	19:01
	ICIS 480-194440/6	W08968.D	07/23/2014	19:27
	IC 480-194440/7	W08969.D	07/23/2014	19:52
	IC 480-194440/8	W08970.D	07/23/2014	20:18
	IC 480-194440/9	W08971.D	07/23/2014	20:44
	IC 480-194440/11	W08973.D	07/23/2014	21:34
	IC 480-194440/12	W08974.D	07/23/2014	21:59
	IC 480-194440/13	W08975.D	07/23/2014	22:23
	IC 480-194440/14	W08976.D	07/23/2014	22:48
	IC 480-194440/15	W08977.D	07/23/2014	23:13
	IC 480-194440/16	W08978.D	07/23/2014	23:38
	IC 480-194440/17	W08979.D	07/24/2014	00:03

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab File ID: W09265.D DFTPP Injection Date: 08/02/2014

Instrument ID: HP5973W DFTPP Injection Time: 12:24

Analysis Batch No.: 196033

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	13.5	
68	Less than 2% of mass 69	0.0	(0.0)1
69	Mass 69 Relative abundance	18.5	
70	Less than 2% of mass 69	0.1	(0.6)1
127	10-80% of Base Peak	34.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	36.6	
365	Greater than 1% of mass 198	4.9	
441	present but less than 24% of mass 442	38.7	(18.0)2
442	Greater than 50% of mass 198	215.3	
443	15-24% of mass 442	49.0	(22.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-196033/3	W09266.D	08/02/2014	12:48
	CCV 480-196033/5	W09268.D	08/02/2014	14:04
	MB 480-195843/1-A	W09271.D	08/02/2014	15:19
	LCS 480-195843/2-A	W09272.D	08/02/2014	15:44
	LCSD 480-195843/3-A	W09273.D	08/02/2014	16:09
AS-WTPE-14-0044	480-64676-1	W09279.D	08/02/2014	18:39
AS-WTPE-14-0045	480-64676-2	W09280.D	08/02/2014	19:03
AS-WTPE-14-0046	480-64676-3	W09281.D	08/02/2014	19:28
AS-WTPE-14-0047	480-64676-4	W09282.D	08/02/2014	19:53

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Sample No.: ICIS 480-194440/6 Date Analyzed: 07/23/2014 19:27

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W08968.D Heated Purge: (Y/N) N

Calibration ID: 19578

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		176487	5.84	639954	6.90	398785	8.34
UPPER LIMIT		352974	6.34	1279908	7.40	797570	8.84
LOWER LIMIT		88244	5.34	319977	6.40	199393	7.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-196033/3		172222	5.74	612729	6.81	378256	8.25

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Sample No.: ICIS 480-194440/6 Date Analyzed: 07/23/2014 19:27

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W08968.D Heated Purge: (Y/N) N

Calibration ID: 19578

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		665653	9.57	777571	11.85	858757	13.55
UPPER LIMIT		1331306	10.07	1555142	12.35	1717514	14.05
LOWER LIMIT		332827	9.07	388786	11.35	429379	13.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-196033/3		652365	9.47	772725	11.73	892461	13.38

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Sample No.: CCVIS 480-196033/3 Date Analyzed: 08/02/2014 12:48

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W09266.D Heated Purge: (Y/N) N

Calibration ID: 19683

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		172222	5.74	612729	6.81	378256	8.25
UPPER LIMIT		344444	6.24	1225458	7.31	756512	8.75
LOWER LIMIT		86111	5.24	306365	6.31	189128	7.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-196033/5		121183	5.73	584856	6.80	383405	8.25
MB 480-195843/1-A		149657	5.73	620440	6.81	393358	8.25
LCS 480-195843/2-A		174825	5.75	616465	6.81	388932	8.25
LCSD 480-195843/3-A		174157	5.75	620712	6.81	399366	8.25
480-64676-1	AS-WTPE-14-0044	91117	5.73	385671	6.81	262472	8.25
480-64676-2	AS-WTPE-14-0045	134092	5.73	518348	6.81	334604	8.25
480-64676-3	AS-WTPE-14-0046	139734	5.73	555382	6.81	358419	8.25
480-64676-4	AS-WTPE-14-0047	146562	5.73	549307	6.81	344718	8.25

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Sample No.: CCVIS 480-196033/3 Date Analyzed: 08/02/2014 12:48

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W09266.D Heated Purge: (Y/N) N

Calibration ID: 19683

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		652365	9.47	772725	11.73	892461	13.38
UPPER LIMIT		1304730	9.97	1545450	12.23	1784922	13.88
LOWER LIMIT		326183	8.97	386363	11.23	446231	12.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-196033/5		650544	9.47	799278	11.72	883369	13.38
MB 480-195843/1-A		681863	9.47	827453	11.72	903698	13.38
LCS 480-195843/2-A		686022	9.47	784127	11.73	929786	13.39
LCSD 480-195843/3-A		692274	9.47	804794	11.73	943625	13.39
480-64676-1	AS-WTPE-14-0044	485065	9.47	648647	11.72	752201	13.38
480-64676-2	AS-WTPE-14-0045	591845	9.47	742604	11.72	841736	13.38
480-64676-3	AS-WTPE-14-0046	613831	9.47	772774	11.72	875536	13.38
480-64676-4	AS-WTPE-14-0047	588974	9.47	741681	11.72	868988	13.39

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0044 | Lab Sample ID: 480-64676-1

Matrix: Water | Lab File ID: W09279.D

Analysis Method: 8270D | Date Collected: 07/30/2014 14:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 236.5(mL) | Date Analyzed: 08/02/2014 18:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND	*	5.3	0.69
108-60-1	bis (2-chloroisopropyl) ether	ND	*	5.3	0.55
95-95-4	2,4,5-Trichlorophenol	ND	*	5.3	0.51
88-06-2	2,4,6-Trichlorophenol	ND	*	5.3	0.64
120-83-2	2,4-Dichlorophenol	ND	*	5.3	0.54
105-67-9	2,4-Dimethylphenol	ND		5.3	0.53
51-28-5	2,4-Dinitrophenol	ND	*	11	2.3
121-14-2	2,4-Dinitrotoluene	ND	*	5.3	0.47
606-20-2	2,6-Dinitrotoluene	ND	*	5.3	0.42
91-58-7	2-Chloronaphthalene	ND	*	5.3	0.49
95-57-8	2-Chlorophenol	ND	*	5.3	0.56
91-57-6	2-Methylnaphthalene	ND	*	5.3	0.63
95-48-7	2-Methylphenol	ND		5.3	0.42
88-74-4	2-Nitroaniline	ND	*	11	0.44
88-75-5	2-Nitrophenol	ND	*	5.3	0.51
91-94-1	3,3'-Dichlorobenzidine	ND	*	5.3	0.42
99-09-2	3-Nitroaniline	ND	*	11	0.51
534-52-1	4,6-Dinitro-2-methylphenol	ND	*	11	2.3
101-55-3	4-Bromophenyl phenyl ether	ND	*	5.3	0.48
59-50-7	4-Chloro-3-methylphenol	ND	*	5.3	0.48
106-47-8	4-Chloroaniline	ND	*	5.3	0.62
7005-72-3	4-Chlorophenyl phenyl ether	ND	*	5.3	0.37
106-44-5	4-Methylphenol	ND	*	11	0.38
100-01-6	4-Nitroaniline	ND	*	11	0.26
100-02-7	4-Nitrophenol	ND		11	1.6
83-32-9	Acenaphthene	ND	*	5.3	0.43
208-96-8	Acenaphthylene	ND	*	5.3	0.40
98-86-2	Acetophenone	ND	*	5.3	0.57
120-12-7	Anthracene	ND	*	5.3	0.30
1912-24-9	Atrazine	ND	*	5.3	0.49
100-52-7	Benzaldehyde	ND	*	5.3	0.28
56-55-3	Benzo[a]anthracene	ND	*	5.3	0.38
50-32-8	Benzo[a]pyrene	ND	*	5.3	0.50
205-99-2	Benzo[b]fluoranthene	ND	*	5.3	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0044 | Lab Sample ID: 480-64676-1

Matrix: Water | Lab File ID: W09279.D

Analysis Method: 8270D | Date Collected: 07/30/2014 14:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 236.5(mL) | Date Analyzed: 08/02/2014 18:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND	*	5.3	0.37
207-08-9	Benzo[k]fluoranthene	ND	*	5.3	0.77
111-91-1	Bis(2-chloroethoxy)methane	ND	*	5.3	0.37
111-44-4	Bis(2-chloroethyl)ether	ND	*	5.3	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND	*	5.3	1.9
85-68-7	Butyl benzyl phthalate	ND	*	5.3	0.44
105-60-2	Caprolactam	ND	*	5.3	2.3
86-74-8	Carbazole	ND	*	5.3	0.32
218-01-9	Chrysene	ND	*	5.3	0.35
84-74-2	Di-n-butyl phthalate	ND	*	5.3	0.33
117-84-0	Di-n-octyl phthalate	ND	*	5.3	0.50
53-70-3	Dibenz(a,h)anthracene	ND	*	5.3	0.44
132-64-9	Dibenzofuran	ND	*	11	0.54
84-66-2	Diethyl phthalate	ND	*	5.3	0.23
131-11-3	Dimethyl phthalate	ND	*	5.3	0.38
206-44-0	Fluoranthene	ND	*	5.3	0.42
86-73-7	Fluorene	ND	*	5.3	0.38
118-74-1	Hexachlorobenzene	ND	*	5.3	0.54
87-68-3	Hexachlorobutadiene	ND		5.3	0.72
77-47-4	Hexachlorocyclopentadiene	ND		5.3	0.62
67-72-1	Hexachloroethane	ND		5.3	0.62
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	5.3	0.50
78-59-1	Isophorone	ND	*	5.3	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND	*	5.3	0.57
86-30-6	N-Nitrosodiphenylamine	ND	*	5.3	0.54
91-20-3	Naphthalene	ND	*	5.3	0.80
98-95-3	Nitrobenzene	ND	*	5.3	0.31
87-86-5	Pentachlorophenol	ND		11	2.3
85-01-8	Phenanthrene	ND	*	5.3	0.47
108-95-2	Phenol	ND		5.3	0.41
129-00-0	Pyrene	ND	*	5.3	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0044 Lab Sample ID: 480-64676-1

Matrix: Water Lab File ID: W09279.D

Analysis Method: 8270D Date Collected: 07/30/2014 14:00

Extract. Method: 3510C Date Extracted: 08/01/2014 08:25

Sample wt/vol: 236.5(mL) Date Analyzed: 08/02/2014 18:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	122		52-132
321-60-8	2-Fluorobiphenyl	91		48-120
367-12-4	2-Fluorophenol	74		20-120
4165-60-0	Nitrobenzene-d5	72		46-120
1718-51-0	p-Terphenyl-d14	94		67-150
4165-62-2	Phenol-d5	55		16-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09279.D
Lims ID: 480-64676-C-1-A Lab Sample ID: 480-64676-1
Client ID: AS-WTPE-14-0044
Sample Type: Client
Inject. Date: 02-Aug-2014 18:39:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-016
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-Aug-2014 10:35:25 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: quirkp Date: 05-Aug-2014 10:35:25

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.732	5.738	-0.006	89	91117	4.00	
*	2 Naphthalene-d8	136	6.806	6.806	0.000	97	385671	4.00	
*	3 Acenaphthene-d10	164	8.249	8.254	-0.005	90	262472	4.00	
*	4 Phenanthrene-d10	188	9.467	9.472	-0.005	96	485065	4.00	
*	5 Chrysene-d12	240	11.721	11.726	-0.005	96	648647	4.00	
*	6 Perylene-d12	264	13.383	13.382	0.000	98	752201	4.00	
$	7 2-Fluorophenol	112	4.637	4.632	0.005	83	99462	5.93	
$	8 Phenol-d5	99	5.497	5.497	0.000	92	95409	4.39	
$	9 Nitrobenzene-d5	82	6.208	6.208	0.000	77	125408	5.73	
$	10 2-Fluorobiphenyl	172	7.698	7.704	-0.006	98	503169	7.27	
$	11 2,4,6-Tribromophenol	330	8.906	8.906	0.000	83	209550	9.78	
$	12 p-Terphenyl-d14	244	10.775	10.775	0.000	98	849311	7.52	
	71 Benzaldehyde	77	5.358	5.353	0.005	79	690	0.0388	
	72 Phenol	94		5.508				ND	
	74 Bis(2-chloroethyl)ether	93		5.519				ND	
	75 2-Chlorophenol	128		5.577				ND	
	83 2,2'-oxybis[1-chloropropan	45		5.978				ND	
	82 2-Methylphenol	108		6.010				ND	
	86 Acetophenone	105		6.085				ND	
	87 N-Nitrosodi-n-propylamine	70		6.101				ND	
	88 4-Methylphenol	108		6.138				ND	
	89 Hexachloroethane	117		6.160				ND	
	85 Nitrobenzene	77		6.229				ND	
	94 Isophorone	82		6.432				ND	
	97 2-Nitrophenol	139		6.496				ND	
	99 2,4-Dimethylphenol	107		6.566				ND	
	103 Bis(2-chloroethoxy)methane	93		6.619				ND	
	106 2,4-Dichlorophenol	162		6.721				ND	
	107 Naphthalene	128		6.827				ND	
	108 4-Chloroaniline	127		6.886				ND	
	110 Hexachlorobutadiene	225		6.929				ND	
	114 Caprolactam	113		7.218				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
117 4-Chloro-3-methylphenol	107		7.314				ND	
121 2-Methylnaphthalene	142	7.394	7.399	-0.005	86	527	0.0190	
125 Hexachlorocyclopentadiene	237		7.527				ND	
127 2,4,6-Trichlorophenol	196		7.645				ND	
129 2,4,5-Trichlorophenol	196		7.693				ND	
130 1,1'-Biphenyl	154		7.784				ND	
131 2-Chloronaphthalene	162		7.800				ND	
132 2-Nitroaniline	65		7.896				ND	
134 Dimethyl phthalate	163		8.045				ND	
135 2,6-Dinitrotoluene	165		8.094				ND	
137 Acenaphthylene	152		8.136				ND	
140 3-Nitroaniline	138		8.248				ND	
141 Acenaphthene	153	8.275	8.281	-0.006	89	756	0.0102	
142 2,4-Dinitrophenol	184		8.323				ND	
144 2,4-Dinitrotoluene	165		8.425				ND	
145 Dibenzofuran	168		8.425				ND	
143 4-Nitrophenol	109		8.430				ND	
149 Diethyl phthalate	149		8.617				ND	
152 4-Chlorophenyl phenyl ethe	204		8.703				ND	
151 Fluorene	166	8.697	8.703	-0.006	95	1514	0.0168	
153 4-Nitroaniline	138		8.756				ND	
154 4,6-Dinitro-2-methylphenol	198		8.761				ND	
157 N-Nitrosodiphenylamine	169		8.799				ND	
164 4-Bromophenyl phenyl ether	248		9.103				ND	
168 Hexachlorobenzene	284		9.151				ND	
170 Atrazine	200		9.248				ND	
172 Pentachlorophenol	266		9.333				ND	
177 Phenanthrene	178		9.493				ND	
180 Anthracene	178		9.536				ND	
181 Carbazole	167		9.670				ND	
184 Di-n-butyl phthalate	149		9.953				ND	
191 Fluoranthene	202		10.466				ND	
193 Pyrene	202		10.647				ND	
200 Butyl benzyl phthalate	149	11.187	11.187	-0.005	87	1009	0.0156	M
204 3,3'-Dichlorobenzidine	252		11.689				ND	
205 Benzo[a]anthracene	228		11.716				ND	
206 Bis(2-ethylhexyl) phthalat	149	11.737	11.742	-0.005	87	7809	0.0865	
207 Chrysene	228		11.753				ND	
208 Di-n-octyl phthalate	149		12.458				ND	
209 Benzo[b]fluoranthene	252		12.912				ND	
211 Benzo[k]fluoranthene	252		12.950				ND	
213 Benzo[a]pyrene	252		13.313				ND	
215 Indeno[1,2,3-cd]pyrene	276		14.777				ND	
216 Dibenz(a,h)anthracene	278		14.809				ND	
217 Benzo[g,h,i]perylene	276		15.129				ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
M - Manually Integrated

Reagents:

MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

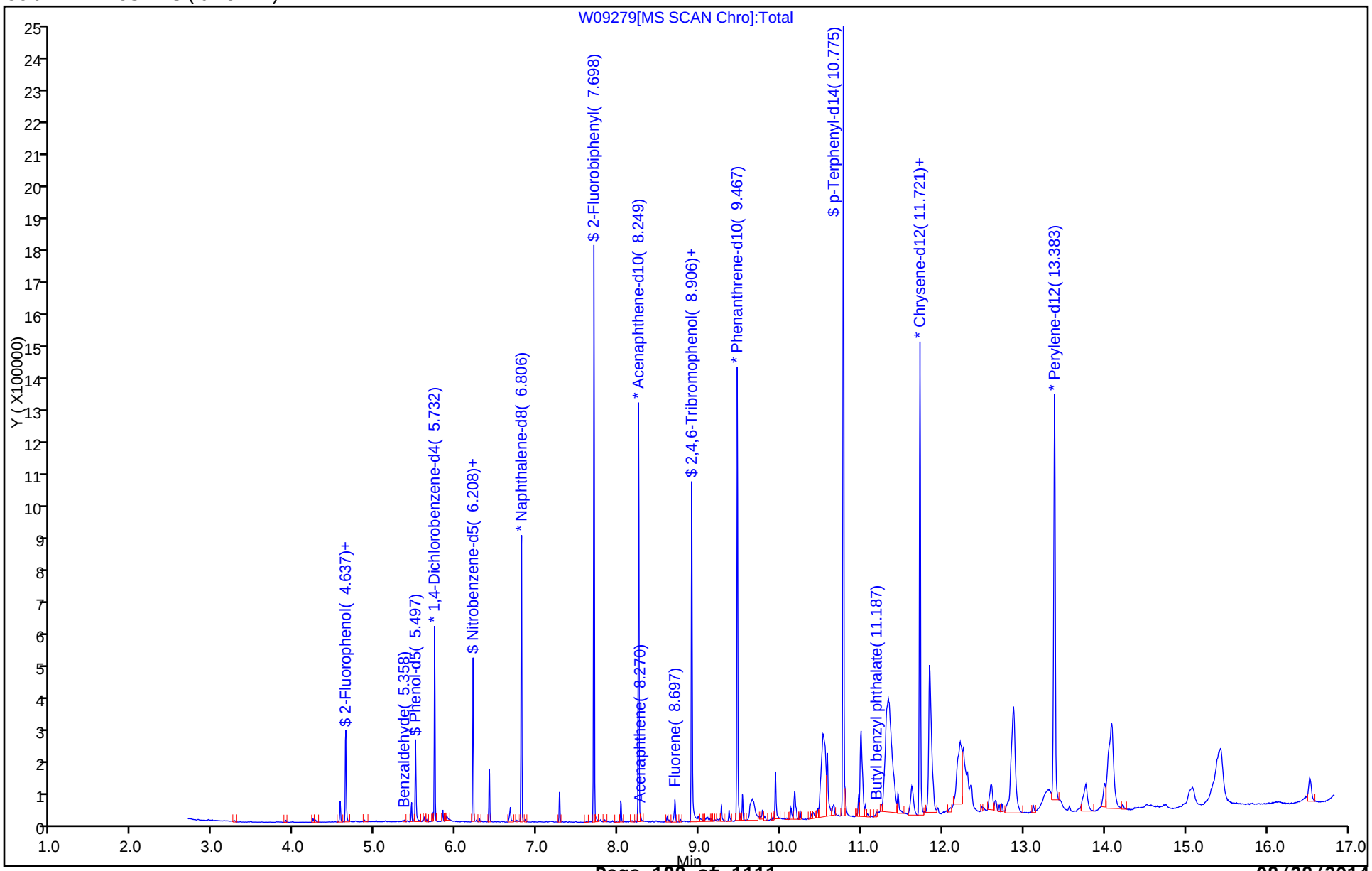
Report Date: 05-Aug-2014 10:35:26 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09279.D

Injection Date:	02-Aug-2014 18:39:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-64676-C-1-A	Lab Sample ID:	480-64676-1	Worklist Smp#:	16
Client ID:	AS-WTPE-14-0044				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

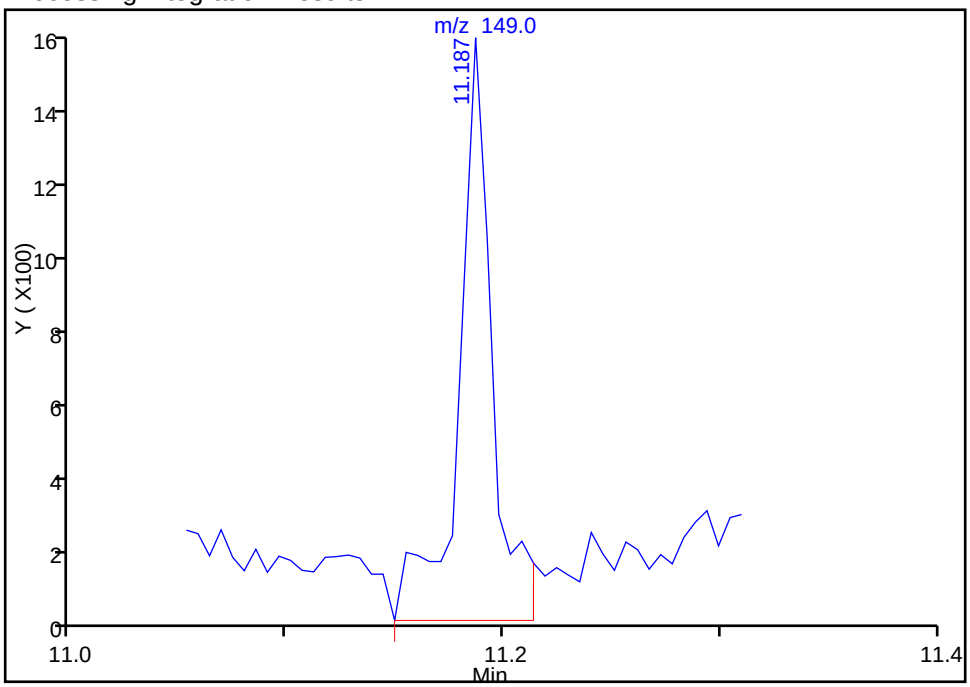
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09279.D				
Injection Date:	02-Aug-2014 18:39:30	Instrument ID:	HP5973W		
Lims ID:	480-64676-C-1-A	Lab Sample ID:	480-64676-1		
Client ID:	AS-WTPE-14-0044				
Operator ID:	PJQ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

200 Butyl benzyl phthalate, CAS: 85-68-7

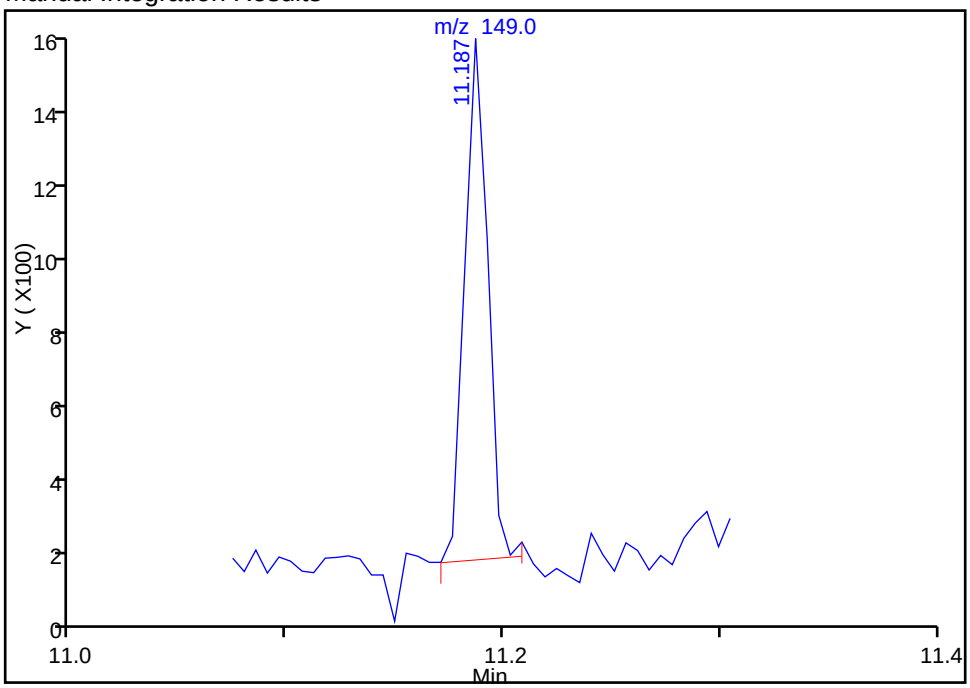
Processing Integration Results

RT: 11.19
Response: 1632
Amount: 0.025303



Manual Integration Results

RT: 11.19
Response: 1009
Amount: 0.015644



Reviewer: quirkp, 05-Aug-2014 10:35:25
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0045 | Lab Sample ID: 480-64676-2

Matrix: Water | Lab File ID: W09280.D

Analysis Method: 8270D | Date Collected: 07/30/2014 17:30

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 237(mL) | Date Analyzed: 08/02/2014 19:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND	*	5.3	0.69
108-60-1	bis (2-chloroisopropyl) ether	ND	*	5.3	0.55
95-95-4	2,4,5-Trichlorophenol	ND	*	5.3	0.51
88-06-2	2,4,6-Trichlorophenol	ND	*	5.3	0.64
120-83-2	2,4-Dichlorophenol	ND	*	5.3	0.54
105-67-9	2,4-Dimethylphenol	ND		5.3	0.53
51-28-5	2,4-Dinitrophenol	ND	*	11	2.3
121-14-2	2,4-Dinitrotoluene	ND	*	5.3	0.47
606-20-2	2,6-Dinitrotoluene	ND	*	5.3	0.42
91-58-7	2-Chloronaphthalene	ND	*	5.3	0.49
95-57-8	2-Chlorophenol	ND	*	5.3	0.56
91-57-6	2-Methylnaphthalene	ND	*	5.3	0.63
95-48-7	2-Methylphenol	ND		5.3	0.42
88-74-4	2-Nitroaniline	ND	*	11	0.44
88-75-5	2-Nitrophenol	ND	*	5.3	0.51
91-94-1	3,3'-Dichlorobenzidine	ND	*	5.3	0.42
99-09-2	3-Nitroaniline	ND	*	11	0.51
534-52-1	4,6-Dinitro-2-methylphenol	ND	*	11	2.3
101-55-3	4-Bromophenyl phenyl ether	ND	*	5.3	0.47
59-50-7	4-Chloro-3-methylphenol	ND	*	5.3	0.47
106-47-8	4-Chloroaniline	ND	*	5.3	0.62
7005-72-3	4-Chlorophenyl phenyl ether	ND	*	5.3	0.37
106-44-5	4-Methylphenol	ND	*	11	0.38
100-01-6	4-Nitroaniline	ND	*	11	0.26
100-02-7	4-Nitrophenol	ND		11	1.6
83-32-9	Acenaphthene	ND	*	5.3	0.43
208-96-8	Acenaphthylene	ND	*	5.3	0.40
98-86-2	Acetophenone	ND	*	5.3	0.57
120-12-7	Anthracene	ND	*	5.3	0.30
1912-24-9	Atrazine	ND	*	5.3	0.49
100-52-7	Benzaldehyde	ND	*	5.3	0.28
56-55-3	Benzo[a]anthracene	ND	*	5.3	0.38
50-32-8	Benzo[a]pyrene	ND	*	5.3	0.50
205-99-2	Benzo[b]fluoranthene	ND	*	5.3	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0045 | Lab Sample ID: 480-64676-2

Matrix: Water | Lab File ID: W09280.D

Analysis Method: 8270D | Date Collected: 07/30/2014 17:30

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 237(mL) | Date Analyzed: 08/02/2014 19:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND	*	5.3	0.37
207-08-9	Benzo[k]fluoranthene	ND	*	5.3	0.77
111-91-1	Bis(2-chloroethoxy)methane	ND	*	5.3	0.37
111-44-4	Bis(2-chloroethyl)ether	ND	*	5.3	0.42
117-81-7	Bis(2-ethylhexyl) phthalate	ND	*	5.3	1.9
85-68-7	Butyl benzyl phthalate	ND	*	5.3	0.44
105-60-2	Caprolactam	ND	*	5.3	2.3
86-74-8	Carbazole	ND	*	5.3	0.32
218-01-9	Chrysene	ND	*	5.3	0.35
84-74-2	Di-n-butyl phthalate	ND	*	5.3	0.33
117-84-0	Di-n-octyl phthalate	ND	*	5.3	0.50
53-70-3	Dibenz(a,h)anthracene	ND	*	5.3	0.44
132-64-9	Dibenzofuran	ND	*	11	0.54
84-66-2	Diethyl phthalate	ND	*	5.3	0.23
131-11-3	Dimethyl phthalate	ND	*	5.3	0.38
206-44-0	Fluoranthene	ND	*	5.3	0.42
86-73-7	Fluorene	ND	*	5.3	0.38
118-74-1	Hexachlorobenzene	ND	*	5.3	0.54
87-68-3	Hexachlorobutadiene	ND		5.3	0.72
77-47-4	Hexachlorocyclopentadiene	ND		5.3	0.62
67-72-1	Hexachloroethane	ND		5.3	0.62
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	5.3	0.50
78-59-1	Isophorone	ND	*	5.3	0.45
621-64-7	N-Nitrosodi-n-propylamine	ND	*	5.3	0.57
86-30-6	N-Nitrosodiphenylamine	ND	*	5.3	0.54
91-20-3	Naphthalene	ND	*	5.3	0.80
98-95-3	Nitrobenzene	ND	*	5.3	0.31
87-86-5	Pentachlorophenol	ND		11	2.3
85-01-8	Phenanthrene	ND	*	5.3	0.46
108-95-2	Phenol	ND		5.3	0.41
129-00-0	Pyrene	ND	*	5.3	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0045 | Lab Sample ID: 480-64676-2

Matrix: Water | Lab File ID: W09280.D

Analysis Method: 8270D | Date Collected: 07/30/2014 17:30

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 237(mL) | Date Analyzed: 08/02/2014 19:03

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	118		52-132
321-60-8	2-Fluorobiphenyl	88		48-120
367-12-4	2-Fluorophenol	86		20-120
4165-60-0	Nitrobenzene-d5	80		46-120
1718-51-0	p-Terphenyl-d14	94		67-150
4165-62-2	Phenol-d5	57		16-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09280.D
Lims ID: 480-64676-C-2-A Lab Sample ID: 480-64676-2
Client ID: AS-WTPE-14-0045
Sample Type: Client
Inject. Date: 02-Aug-2014 19:03:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-017
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-Aug-2014 10:47:48 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: quirkp Date: 05-Aug-2014 10:47:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.732	5.738	-0.006	89	134092	4.00	
* 2 Naphthalene-d8	136	6.806	6.806	0.000	98	518348	4.00	
* 3 Acenaphthene-d10	164	8.248	8.254	-0.006	91	334604	4.00	
* 4 Phenanthrene-d10	188	9.466	9.472	-0.006	96	591845	4.00	
* 5 Chrysene-d12	240	11.721	11.726	-0.005	96	742604	4.00	
* 6 Perylene-d12	264	13.382	13.382	0.000	98	841736	4.00	
$ 7 2-Fluorophenol	112	4.637	4.632	0.005	84	169291	6.86	
$ 8 Phenol-d5	99	5.497	5.497	0.000	92	145437	4.55	
$ 9 Nitrobenzene-d5	82	6.208	6.208	0.000	78	188702	6.41	
$ 10 2-Fluorobiphenyl	172	7.698	7.704	-0.006	98	621870	7.00	
$ 11 2,4,6-Tribromophenol	330	8.906	8.906	0.000	83	246979	9.45	
$ 12 p-Terphenyl-d14	244	10.775	10.775	0.000	99	972908	7.52	
71 Benzaldehyde	77	5.358	5.353	0.005	75	1492	0.0569	
72 Phenol	94		5.508				ND	
74 Bis(2-chloroethyl)ether	93		5.519				ND	
75 2-Chlorophenol	128		5.577				ND	
83 2,2'-oxybis[1-chloropropan	45		5.978				ND	
82 2-Methylphenol	108		6.010				ND	
86 Acetophenone	105		6.085				ND	
87 N-Nitrosodi-n-propylamine	70		6.101				ND	
88 4-Methylphenol	108		6.138				ND	
89 Hexachloroethane	117		6.160				ND	
85 Nitrobenzene	77		6.229				ND	
94 Isophorone	82		6.432				ND	
97 2-Nitrophenol	139		6.496				ND	
99 2,4-Dimethylphenol	107		6.566				ND	
103 Bis(2-chloroethoxy)methane	93		6.619				ND	
106 2,4-Dichlorophenol	162		6.721				ND	
107 Naphthalene	128		6.827				ND	
108 4-Chloroaniline	127		6.886				ND	
110 Hexachlorobutadiene	225		6.929				ND	
114 Caprolactam	113		7.218				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
117 4-Chloro-3-methylphenol	107		7.314				ND	
121 2-Methylnaphthalene	142	7.394	7.399	-0.005	87	580	0.0178	
125 Hexachlorocyclopentadiene	237		7.527				ND	
127 2,4,6-Trichlorophenol	196		7.645				ND	
129 2,4,5-Trichlorophenol	196		7.693				ND	
130 1,1'-Biphenyl	154		7.784				ND	
131 2-Chloronaphthalene	162		7.800				ND	
132 2-Nitroaniline	65		7.896				ND	
134 Dimethyl phthalate	163		8.045				ND	
135 2,6-Dinitrotoluene	165		8.094				ND	
137 Acenaphthylene	152		8.136				ND	
140 3-Nitroaniline	138		8.248				ND	
141 Acenaphthene	153	8.275	8.281	-0.006	85	471	0.004996	
142 2,4-Dinitrophenol	184		8.323				ND	
145 Dibenzofuran	168		8.425				ND	
144 2,4-Dinitrotoluene	165		8.425				ND	
143 4-Nitrophenol	109		8.430				ND	
149 Diethyl phthalate	149		8.617				ND	
151 Fluorene	166		8.703				ND	
152 4-Chlorophenyl phenyl ethe	204		8.703				ND	
153 4-Nitroaniline	138		8.756				ND	
154 4,6-Dinitro-2-methylphenol	198		8.761				ND	
157 N-Nitrosodiphenylamine	169		8.799				ND	
164 4-Bromophenyl phenyl ether	248		9.103				ND	
168 Hexachlorobenzene	284		9.151				ND	
170 Atrazine	200		9.248				ND	
172 Pentachlorophenol	266		9.333				ND	
177 Phenanthrene	178		9.493				ND	
180 Anthracene	178		9.536				ND	
181 Carbazole	167		9.670				ND	
184 Di-n-butyl phthalate	149		9.953				ND	
191 Fluoranthene	202		10.466				ND	
193 Pyrene	202		10.647				ND	
200 Butyl benzyl phthalate	149	11.187	11.192	-0.005	88	1295	0.0175	
204 3,3'-Dichlorobenzidine	252		11.689				ND	
205 Benzo[a]anthracene	228		11.716				ND	
206 Bis(2-ethylhexyl) phthalat	149	11.737	11.742	-0.005	87	8106	0.0784	
207 Chrysene	228		11.753				ND	
208 Di-n-octyl phthalate	149		12.458				ND	
209 Benzo[b]fluoranthene	252		12.912				ND	
211 Benzo[k]fluoranthene	252		12.950				ND	
213 Benzo[a]pyrene	252		13.313				ND	
215 Indeno[1,2,3-cd]pyrene	276		14.777				ND	
216 Dibenz(a,h)anthracene	278		14.809				ND	
217 Benzo[g,h,i]perylene	276		15.129				ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

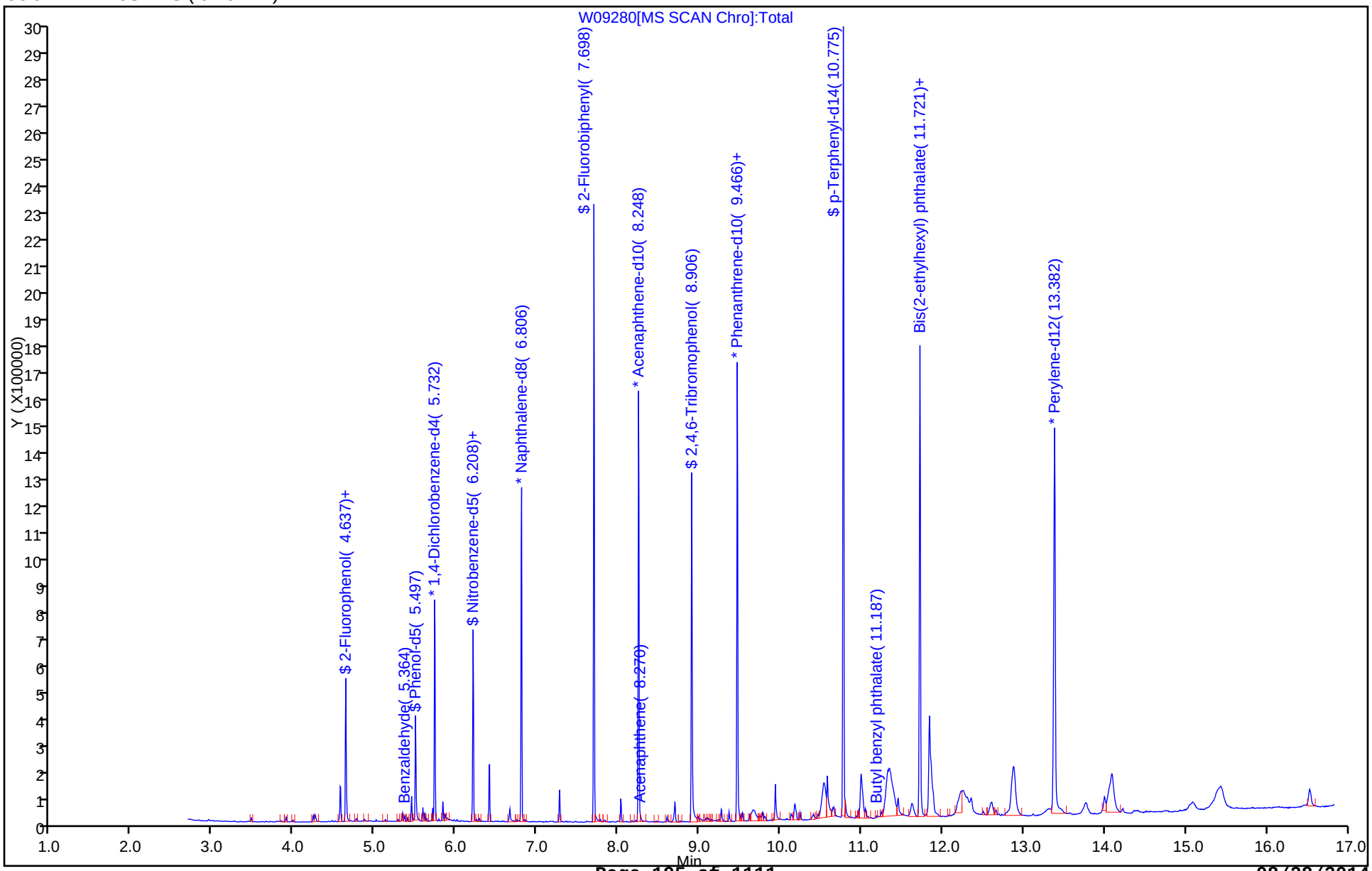
Report Date: 05-Aug-2014 10:47:48 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09280.D

Injection Date:	02-Aug-2014 19:03:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-64676-C-2-A	Lab Sample ID:	480-64676-2	Worklist Smp#:	17
Client ID:	AS-WTPE-14-0045				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0046 | Lab Sample ID: 480-64676-3

Matrix: Water | Lab File ID: W09281.D

Analysis Method: 8270D | Date Collected: 07/31/2014 08:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 229.7(mL) | Date Analyzed: 08/02/2014 19:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND	*	5.4	0.71
108-60-1	bis (2-chloroisopropyl) ether	ND	*	5.4	0.57
95-95-4	2,4,5-Trichlorophenol	ND	*	5.4	0.52
88-06-2	2,4,6-Trichlorophenol	ND	*	5.4	0.66
120-83-2	2,4-Dichlorophenol	ND	*	5.4	0.56
105-67-9	2,4-Dimethylphenol	ND		5.4	0.54
51-28-5	2,4-Dinitrophenol	ND	*	11	2.4
121-14-2	2,4-Dinitrotoluene	ND	*	5.4	0.49
606-20-2	2,6-Dinitrotoluene	ND	*	5.4	0.44
91-58-7	2-Chloronaphthalene	ND	*	5.4	0.50
95-57-8	2-Chlorophenol	ND	*	5.4	0.58
91-57-6	2-Methylnaphthalene	ND	*	5.4	0.65
95-48-7	2-Methylphenol	ND		5.4	0.44
88-74-4	2-Nitroaniline	ND	*	11	0.46
88-75-5	2-Nitrophenol	ND	*	5.4	0.52
91-94-1	3,3'-Dichlorobenzidine	ND	*	5.4	0.44
99-09-2	3-Nitroaniline	ND	*	11	0.52
534-52-1	4,6-Dinitro-2-methylphenol	ND	*	11	2.4
101-55-3	4-Bromophenyl phenyl ether	ND	*	5.4	0.49
59-50-7	4-Chloro-3-methylphenol	ND	*	5.4	0.49
106-47-8	4-Chloroaniline	ND	*	5.4	0.64
7005-72-3	4-Chlorophenyl phenyl ether	ND	*	5.4	0.38
106-44-5	4-Methylphenol	ND	*	11	0.39
100-01-6	4-Nitroaniline	ND	*	11	0.27
100-02-7	4-Nitrophenol	ND		11	1.7
83-32-9	Acenaphthene	ND	*	5.4	0.45
208-96-8	Acenaphthylene	ND	*	5.4	0.41
98-86-2	Acetophenone	ND	*	5.4	0.59
120-12-7	Anthracene	ND	*	5.4	0.30
1912-24-9	Atrazine	ND	*	5.4	0.50
100-52-7	Benzaldehyde	ND	*	5.4	0.29
56-55-3	Benzo[a]anthracene	ND	*	5.4	0.39
50-32-8	Benzo[a]pyrene	ND	*	5.4	0.51
205-99-2	Benzo[b]fluoranthene	ND	*	5.4	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0046 | Lab Sample ID: 480-64676-3

Matrix: Water | Lab File ID: W09281.D

Analysis Method: 8270D | Date Collected: 07/31/2014 08:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 229.7(mL) | Date Analyzed: 08/02/2014 19:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND	*	5.4	0.38
207-08-9	Benzo[k]fluoranthene	ND	*	5.4	0.79
111-91-1	Bis(2-chloroethoxy)methane	ND	*	5.4	0.38
111-44-4	Bis(2-chloroethyl)ether	ND	*	5.4	0.44
117-81-7	Bis(2-ethylhexyl) phthalate	ND	*	5.4	2.0
85-68-7	Butyl benzyl phthalate	ND	*	5.4	0.46
105-60-2	Caprolactam	ND	*	5.4	2.4
86-74-8	Carbazole	ND	*	5.4	0.33
218-01-9	Chrysene	ND	*	5.4	0.36
84-74-2	Di-n-butyl phthalate	ND	*	5.4	0.34
117-84-0	Di-n-octyl phthalate	ND	*	5.4	0.51
53-70-3	Dibenz(a,h)anthracene	ND	*	5.4	0.46
132-64-9	Dibenzofuran	ND	*	11	0.56
84-66-2	Diethyl phthalate	ND	*	5.4	0.24
131-11-3	Dimethyl phthalate	ND	*	5.4	0.39
206-44-0	Fluoranthene	ND	*	5.4	0.44
86-73-7	Fluorene	ND	*	5.4	0.39
118-74-1	Hexachlorobenzene	ND	*	5.4	0.56
87-68-3	Hexachlorobutadiene	ND		5.4	0.74
77-47-4	Hexachlorocyclopentadiene	ND		5.4	0.64
67-72-1	Hexachloroethane	ND		5.4	0.64
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	5.4	0.51
78-59-1	Isophorone	ND	*	5.4	0.47
621-64-7	N-Nitrosodi-n-propylamine	ND	*	5.4	0.59
86-30-6	N-Nitrosodiphenylamine	ND	*	5.4	0.56
91-20-3	Naphthalene	ND	*	5.4	0.83
98-95-3	Nitrobenzene	ND	*	5.4	0.32
87-86-5	Pentachlorophenol	ND		11	2.4
85-01-8	Phenanthrene	ND	*	5.4	0.48
108-95-2	Phenol	ND		5.4	0.42
129-00-0	Pyrene	ND	*	5.4	0.37

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0046 | Lab Sample ID: 480-64676-3

Matrix: Water | Lab File ID: W09281.D

Analysis Method: 8270D | Date Collected: 07/31/2014 08:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 229.7(mL) | Date Analyzed: 08/02/2014 19:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	111		52-132
321-60-8	2-Fluorobiphenyl	90		48-120
367-12-4	2-Fluorophenol	86		20-120
4165-60-0	Nitrobenzene-d5	81		46-120
1718-51-0	p-Terphenyl-d14	81		67-150
4165-62-2	Phenol-d5	55		16-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09281.D
Lims ID: 480-64676-C-3-A Lab Sample ID: 480-64676-3
Client ID: AS-WTPE-14-0046
Sample Type: Client
Inject. Date: 02-Aug-2014 19:28:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-018
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-Aug-2014 10:48:45 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: quirkp Date: 05-Aug-2014 10:48:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.732	5.738	-0.006	89	139734	4.00	
* 2 Naphthalene-d8	136	6.806	6.806	0.000	98	555382	4.00	
* 3 Acenaphthene-d10	164	8.248	8.254	-0.006	91	358419	4.00	
* 4 Phenanthrene-d10	188	9.466	9.472	-0.006	96	613831	4.00	
* 5 Chrysene-d12	240	11.721	11.726	-0.005	96	772774	4.00	
* 6 Perylene-d12	264	13.382	13.382	0.000	98	875536	4.00	
$ 7 2-Fluorophenol	112	4.637	4.632	0.005	83	176001	6.84	
$ 8 Phenol-d5	99	5.497	5.497	0.000	93	146876	4.41	
$ 9 Nitrobenzene-d5	82	6.208	6.208	0.000	78	204707	6.49	
$ 10 2-Fluorobiphenyl	172	7.698	7.704	-0.006	98	681821	7.20	
$ 11 2,4,6-Tribromophenol	330	8.906	8.906	0.000	83	240521	8.87	
$ 12 p-Terphenyl-d14	244	10.775	10.775	0.000	98	897754	6.47	
71 Benzaldehyde	77	5.358	5.353	0.005	89	1253	0.0459	
72 Phenol	94		5.508				ND	
74 Bis(2-chloroethyl)ether	93		5.519				ND	
75 2-Chlorophenol	128		5.577				ND	
83 2,2'-oxybis[1-chloropropan	45		5.978				ND	
82 2-Methylphenol	108		6.010				ND	
86 Acetophenone	105		6.085				ND	
87 N-Nitrosodi-n-propylamine	70		6.101				ND	
88 4-Methylphenol	108		6.138				ND	
89 Hexachloroethane	117		6.160				ND	
85 Nitrobenzene	77		6.229				ND	
94 Isophorone	82		6.432				ND	
97 2-Nitrophenol	139		6.496				ND	
99 2,4-Dimethylphenol	107		6.566				ND	
103 Bis(2-chloroethoxy)methane	93		6.619				ND	
106 2,4-Dichlorophenol	162		6.721				ND	
107 Naphthalene	128		6.827				ND	
108 4-Chloroaniline	127		6.886				ND	
110 Hexachlorobutadiene	225		6.929				ND	
114 Caprolactam	113		7.218				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
117 4-Chloro-3-methylphenol	107		7.314				ND	
121 2-Methylnaphthalene	142	7.394	7.399	-0.005	93	681	0.0183	
125 Hexachlorocyclopentadiene	237		7.527				ND	
127 2,4,6-Trichlorophenol	196		7.645				ND	
129 2,4,5-Trichlorophenol	196		7.693				ND	
130 1,1'-Biphenyl	154		7.784				ND	
131 2-Chloronaphthalene	162		7.800				ND	
132 2-Nitroaniline	65		7.896				ND	
134 Dimethyl phthalate	163		8.045				ND	
135 2,6-Dinitrotoluene	165		8.094				ND	
137 Acenaphthylene	152		8.136				ND	
140 3-Nitroaniline	138		8.248				ND	
141 Acenaphthene	153	8.275	8.281	-0.006	89	706	0.006991	
142 2,4-Dinitrophenol	184		8.323				ND	
144 2,4-Dinitrotoluene	165		8.425				ND	
145 Dibenzofuran	168		8.425				ND	
143 4-Nitrophenol	109		8.430				ND	
149 Diethyl phthalate	149	8.612	8.617	-0.005	94	667	0.0460	
152 4-Chlorophenyl phenyl ethe	204		8.703				ND	
151 Fluorene	166		8.703				ND	
153 4-Nitroaniline	138		8.756				ND	
154 4,6-Dinitro-2-methylphenol	198		8.761				ND	
157 N-Nitrosodiphenylamine	169		8.799				ND	
164 4-Bromophenyl phenyl ether	248		9.103				ND	
168 Hexachlorobenzene	284		9.151				ND	
170 Atrazine	200		9.248				ND	
172 Pentachlorophenol	266		9.333				ND	
177 Phenanthrene	178		9.493				ND	
180 Anthracene	178		9.536				ND	
181 Carbazole	167		9.670				ND	
184 Di-n-butyl phthalate	149	9.947	9.953	-0.006	98	11975	0.008313	
191 Fluoranthene	202		10.466				ND	
193 Pyrene	202		10.647				ND	
200 Butyl benzyl phthalate	149	11.187	11.192	-0.005	88	1152	0.0150	
204 3,3'-Dichlorobenzidine	252		11.689				ND	
205 Benzo[a]anthracene	228		11.716				ND	
206 Bis(2-ethylhexyl) phthalat	149	11.737	11.742	-0.005	88	10905	0.1014	
207 Chrysene	228		11.753				ND	
208 Di-n-octyl phthalate	149		12.458				ND	
209 Benzo[b]fluoranthene	252		12.912				ND	
211 Benzo[k]fluoranthene	252		12.950				ND	
213 Benzo[a]pyrene	252		13.313				ND	
215 Indeno[1,2,3-cd]pyrene	276		14.777				ND	
216 Dibenz(a,h)anthracene	278		14.809				ND	
217 Benzo[g,h,i]perylene	276		15.129				ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

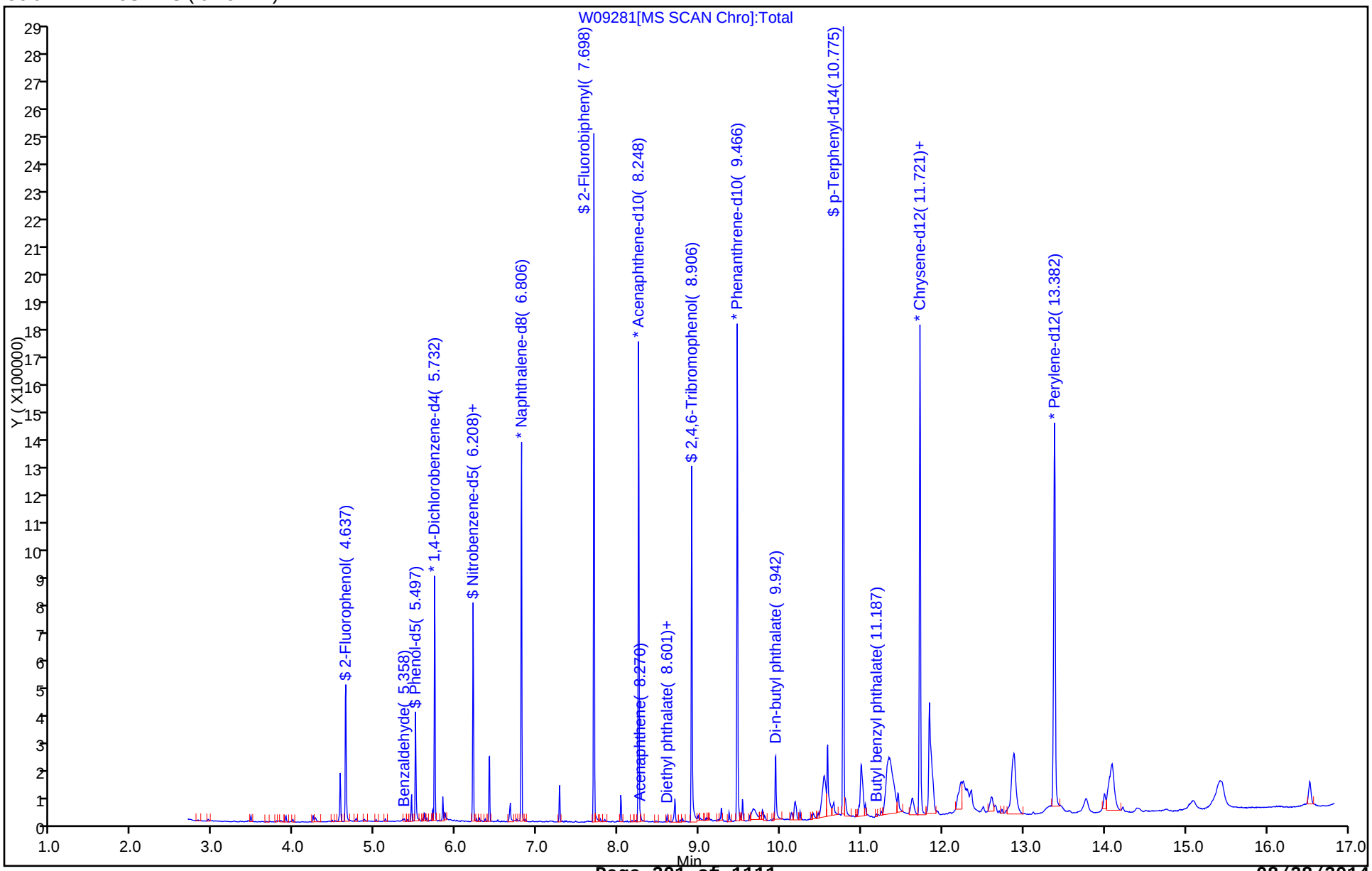
Report Date: 05-Aug-2014 10:48:45 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09281.D

Injection Date:	02-Aug-2014 19:28:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-64676-C-3-A	Lab Sample ID:	480-64676-3	Worklist Smp#:	18
Client ID:	AS-WTPE-14-0046				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0047 | Lab Sample ID: 480-64676-4

Matrix: Water | Lab File ID: W09282.D

Analysis Method: 8270D | Date Collected: 07/31/2014 11:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 248.6(mL) | Date Analyzed: 08/02/2014 19:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND	*	5.0	0.66
108-60-1	bis (2-chloroisopropyl) ether	ND	*	5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND	*	5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND	*	5.0	0.61
120-83-2	2,4-Dichlorophenol	ND	*	5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND	*	10	2.2
121-14-2	2,4-Dinitrotoluene	ND	*	5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND	*	5.0	0.40
91-58-7	2-Chloronaphthalene	ND	*	5.0	0.46
95-57-8	2-Chlorophenol	ND	*	5.0	0.53
91-57-6	2-Methylnaphthalene	ND	*	5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND	*	10	0.42
88-75-5	2-Nitrophenol	ND	*	5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND	*	5.0	0.40
99-09-2	3-Nitroaniline	ND	*	10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND	*	10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND	*	5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND	*	5.0	0.45
106-47-8	4-Chloroaniline	ND	*	5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND	*	5.0	0.35
106-44-5	4-Methylphenol	ND	*	10	0.36
100-01-6	4-Nitroaniline	ND	*	10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	1.1	J *	5.0	0.41
208-96-8	Acenaphthylene	ND	*	5.0	0.38
98-86-2	Acetophenone	ND	*	5.0	0.54
120-12-7	Anthracene	0.42	J *	5.0	0.28
1912-24-9	Atrazine	ND	*	5.0	0.46
100-52-7	Benzaldehyde	ND	*	5.0	0.27
56-55-3	Benzo[a]anthracene	ND	*	5.0	0.36
50-32-8	Benzo[a]pyrene	ND	*	5.0	0.47
205-99-2	Benzo[b]fluoranthene	ND	*	5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0047 | Lab Sample ID: 480-64676-4

Matrix: Water | Lab File ID: W09282.D

Analysis Method: 8270D | Date Collected: 07/31/2014 11:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 248.6(mL) | Date Analyzed: 08/02/2014 19:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND	*	5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND	*	5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND	*	5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND	*	5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	3.8	J *	5.0	1.8
85-68-7	Butyl benzyl phthalate	ND	*	5.0	0.42
105-60-2	Caprolactam	ND	*	5.0	2.2
86-74-8	Carbazole	ND	*	5.0	0.30
218-01-9	Chrysene	ND	*	5.0	0.33
84-74-2	Di-n-butyl phthalate	ND	*	5.0	0.31
117-84-0	Di-n-octyl phthalate	ND	*	5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND	*	5.0	0.42
132-64-9	Dibenzofuran	ND	*	10	0.51
84-66-2	Diethyl phthalate	ND	*	5.0	0.22
131-11-3	Dimethyl phthalate	ND	*	5.0	0.36
206-44-0	Fluoranthene	ND	*	5.0	0.40
86-73-7	Fluorene	0.89	J *	5.0	0.36
118-74-1	Hexachlorobenzene	ND	*	5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*	5.0	0.47
78-59-1	Isophorone	ND	*	5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND	*	5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND	*	5.0	0.51
91-20-3	Naphthalene	ND	*	5.0	0.76
98-95-3	Nitrobenzene	ND	*	5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	1.2	J *	5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND	*	5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0047 | Lab Sample ID: 480-64676-4

Matrix: Water | Lab File ID: W09282.D

Analysis Method: 8270D | Date Collected: 07/31/2014 11:00

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 248.6(mL) | Date Analyzed: 08/02/2014 19:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	128		52-132
321-60-8	2-Fluorobiphenyl	102		48-120
367-12-4	2-Fluorophenol	88		20-120
4165-60-0	Nitrobenzene-d5	91		46-120
1718-51-0	p-Terphenyl-d14	95		67-150
4165-62-2	Phenol-d5	60		16-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09282.D
Lims ID: 480-64676-C-4-A Lab Sample ID: 480-64676-4
Client ID: AS-WTPE-14-0047
Sample Type: Client
Inject. Date: 02-Aug-2014 19:53:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-019
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-Aug-2014 10:50:21 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: quirkp Date: 05-Aug-2014 10:50:32

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.732	5.738	-0.006	90	146562	4.00	
*	2 Naphthalene-d8	136	6.806	6.806	0.000	98	549307	4.00	
*	3 Acenaphthene-d10	164	8.249	8.254	-0.005	91	344718	4.00	
*	4 Phenanthrene-d10	188	9.467	9.472	-0.005	96	588974	4.00	
*	5 Chrysene-d12	240	11.721	11.726	-0.005	96	741681	4.00	
*	6 Perylene-d12	264	13.388	13.382	0.006	98	868988	4.00	
$	7 2-Fluorophenol	112	4.632	4.632	0.000	83	190435	7.06	
$	8 Phenol-d5	99	5.497	5.497	0.000	92	168175	4.82	
$	9 Nitrobenzene-d5	82	6.208	6.208	0.000	78	227709	7.30	
$	10 2-Fluorobiphenyl	172	7.698	7.704	-0.006	98	723886	8.14	
$	11 2,4,6-Tribromophenol	330	8.906	8.906	0.000	83	265699	10.2	
$	12 p-Terphenyl-d14	244	10.775	10.775	0.000	99	982807	7.63	
	71 Benzaldehyde	77	5.358	5.353	0.005	85	1701	0.0594	
	72 Phenol	94		5.508				ND	
	74 Bis(2-chloroethyl)ether	93		5.519				ND	
	75 2-Chlorophenol	128		5.577				ND	
	83 2,2'-oxybis[1-chloropropan	45		5.978				ND	
	82 2-Methylphenol	108		6.010				ND	
	86 Acetophenone	105		6.085				ND	
	87 N-Nitrosodi-n-propylamine	70		6.101				ND	
	88 4-Methylphenol	108		6.138				ND	
	89 Hexachloroethane	117		6.160				ND	
	85 Nitrobenzene	77		6.229				ND	
	94 Isophorone	82		6.432				ND	
	97 2-Nitrophenol	139		6.496				ND	
	99 2,4-Dimethylphenol	107		6.566				ND	
	103 Bis(2-chloroethoxy)methane	93		6.619				ND	
	106 2,4-Dichlorophenol	162		6.721				ND	
	107 Naphthalene	128		6.827				ND	
	108 4-Chloroaniline	127		6.886				ND	
	110 Hexachlorobutadiene	225		6.929				ND	
	114 Caprolactam	113		7.218				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
117 4-Chloro-3-methylphenol	107		7.314				ND	
121 2-Methylnaphthalene	142	7.394	7.399	-0.005	92	7822	0.0823	
125 Hexachlorocyclopentadiene	237		7.527				ND	
127 2,4,6-Trichlorophenol	196		7.645				ND	
129 2,4,5-Trichlorophenol	196		7.693				ND	
130 1,1'-Biphenyl	154	7.778	7.784	-0.006	93	6233	0.0428	
131 2-Chloronaphthalene	162		7.800				ND	
132 2-Nitroaniline	65		7.896				ND	
134 Dimethyl phthalate	163		8.045				ND	
135 2,6-Dinitrotoluene	165		8.094				ND	
137 Acenaphthylene	152		8.136				ND	
140 3-Nitroaniline	138		8.248				ND	
141 Acenaphthene	153	8.275	8.281	-0.006	93	27664	0.2848	
142 2,4-Dinitrophenol	184		8.323				ND	
145 Dibenzofuran	168	8.420	8.425	-0.005	97	19945	0.1177	
144 2,4-Dinitrotoluene	165		8.425				ND	
143 4-Nitrophenol	109		8.430				ND	
149 Diethyl phthalate	149	8.612	8.617	-0.005	90	772	0.0471	
151 Fluorene	166	8.697	8.703	-0.006	96	26847	0.2214	
152 4-Chlorophenyl phenyl ethe	204		8.703				ND	
153 4-Nitroaniline	138		8.756				ND	
154 4,6-Dinitro-2-methylphenol	198		8.761				ND	
157 N-Nitrosodiphenylamine	169		8.799				ND	
164 4-Bromophenyl phenyl ether	248		9.103				ND	
168 Hexachlorobenzene	284		9.151				ND	
170 Atrazine	200		9.248				ND	
172 Pentachlorophenol	266		9.333				ND	
177 Phenanthrene	178	9.488	9.493	-0.005	95	57236	0.2861	
180 Anthracene	178	9.525	9.536	-0.011	96	24875	0.1034	
181 Carbazole	167		9.670				ND	
184 Di-n-butyl phthalate	149	9.947	9.953	-0.006	98	10572	0.003013	
191 Fluoranthene	202	10.460	10.466	-0.006	97	13166	0.0310	
193 Pyrene	202		10.647				ND	
200 Butyl benzyl phthalate	149	11.187	11.192	-0.005	85	1409	0.0191	
204 3,3'-Dichlorobenzidine	252		11.689				ND	
205 Benzo[a]anthracene	228		11.716				ND	
206 Bis(2-ethylhexyl) phthalat	149	11.742	11.742	0.000	89	98187	0.9514	
207 Chrysene	228		11.753				ND	
208 Di-n-octyl phthalate	149		12.458				ND	
209 Benzo[b]fluoranthene	252		12.912				ND	
211 Benzo[k]fluoranthene	252		12.950				ND	
213 Benzo[a]pyrene	252		13.313				ND	
215 Indeno[1,2,3-cd]pyrene	276		14.777				ND	
216 Dibenz(a,h)anthracene	278		14.809				ND	
217 Benzo[g,h,i]perylene	276		15.129				ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

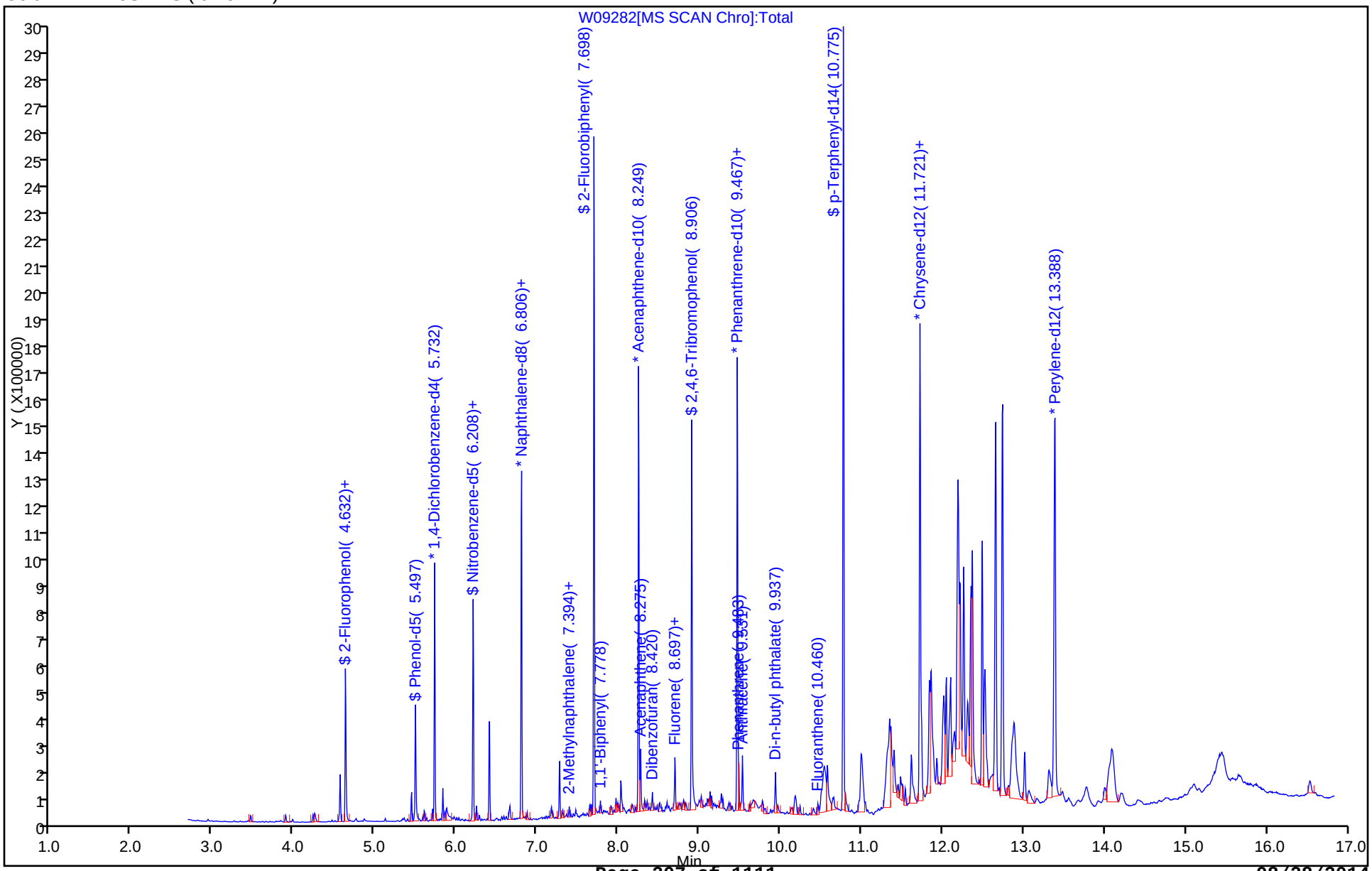
Report Date: 05-Aug-2014 10:50:32 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09282.D

Injection Date:	02-Aug-2014 19:53:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-64676-C-4-A	Lab Sample ID:	480-64676-4	Worklist Smp#:	19
Client ID:	AS-WTPE-14-0047				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



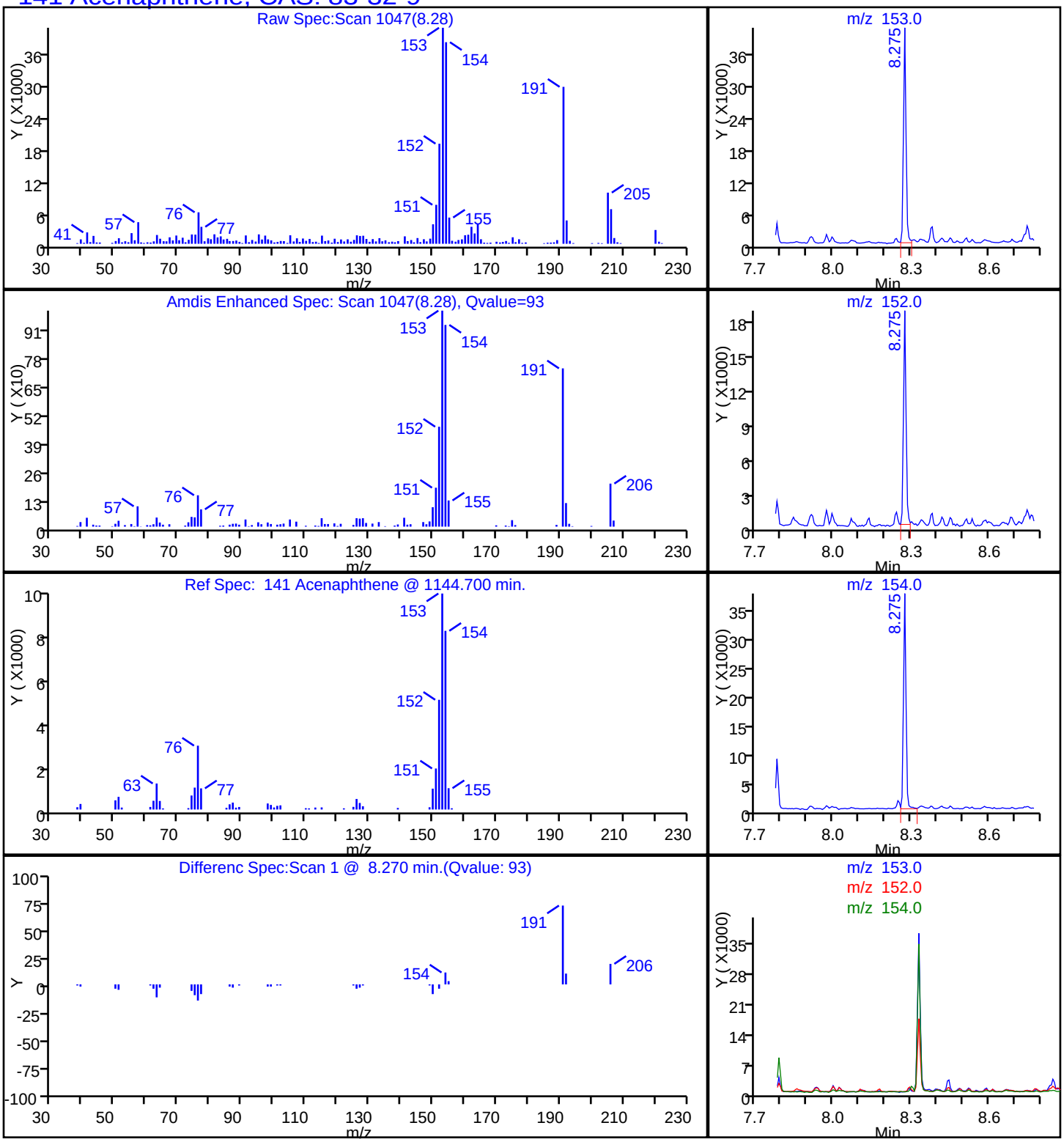
Report Date: 05-Aug-2014 10:50:32 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09282.D

Injection Date:	02-Aug-2014 19:53:30	Instrument ID:	HP5973W		
Lims ID:	480-64676-C-4-A	Lab Sample ID:	480-64676-4		
Client ID:	AS-WTPE-14-0047				
Operator ID:	PJQ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

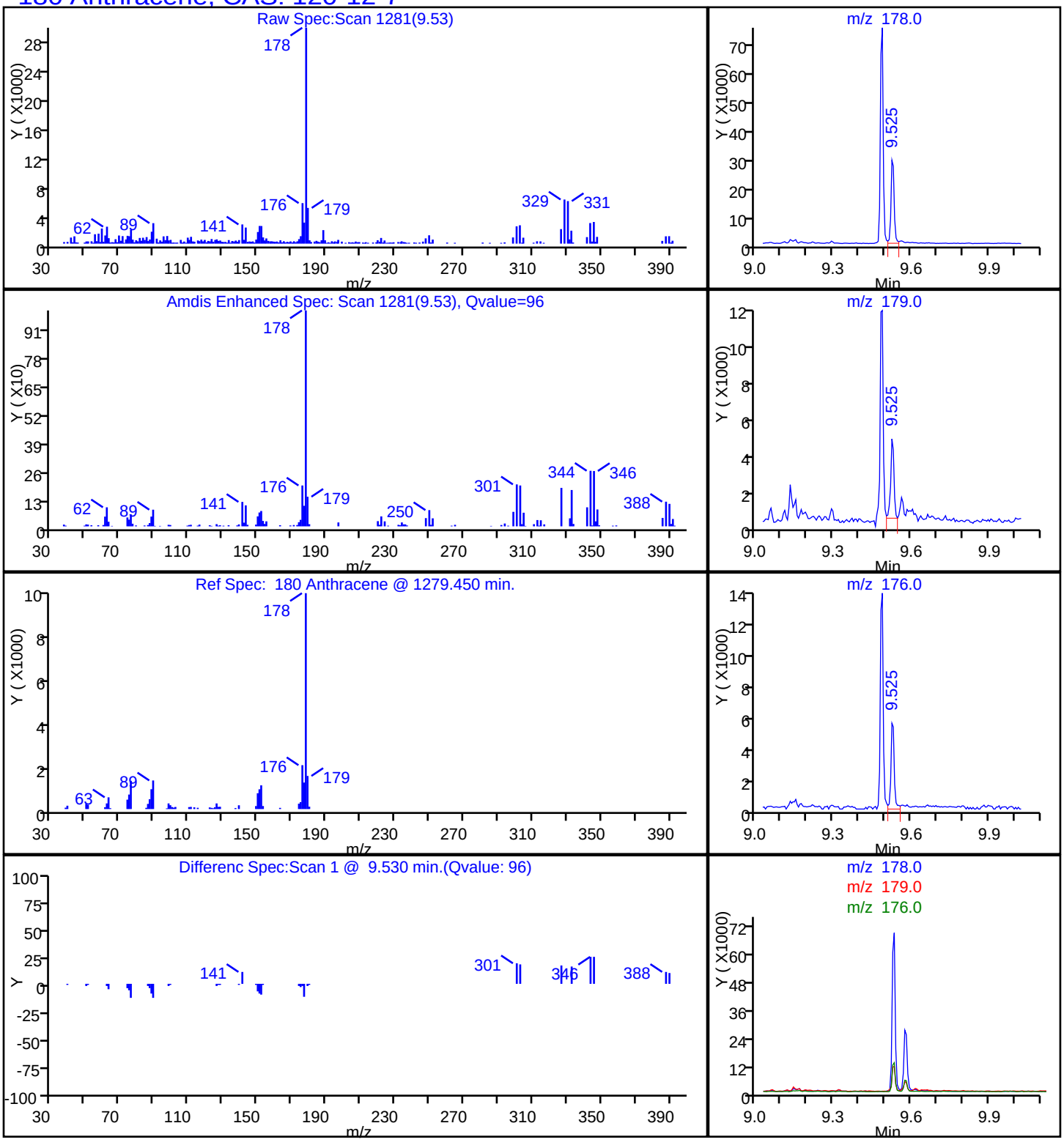
141 Acenaphthene, CAS: 83-32-9



Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09282.D

Injection Date:	02-Aug-2014 19:53:30	Instrument ID:	HP5973W		
Lims ID:	480-64676-C-4-A	Lab Sample ID:	480-64676-4		
Client ID:	AS-WTPE-14-0047				
Operator ID:	PJQ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

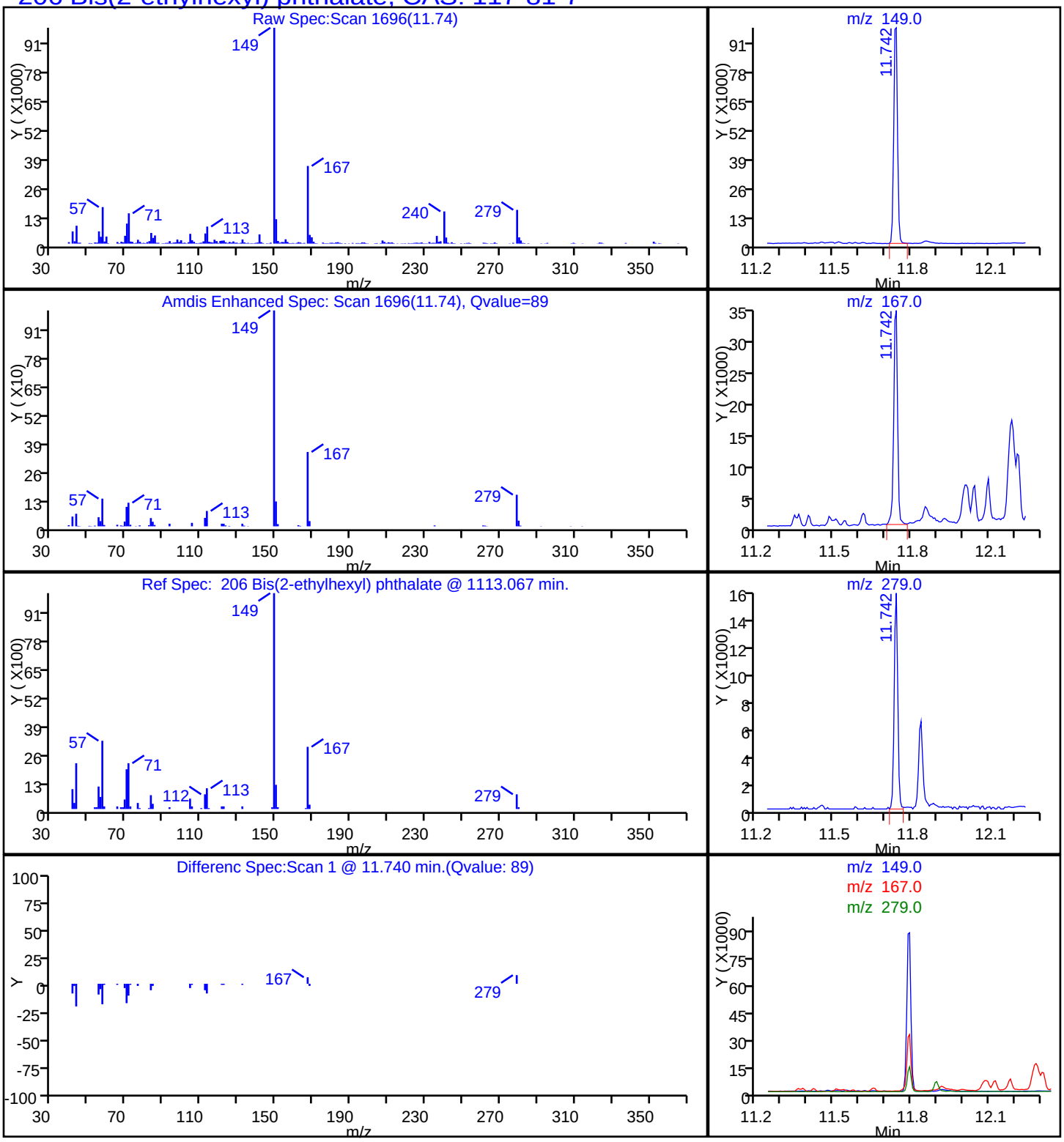
180 Anthracene, CAS: 120-12-7



TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09282.D				
Injection Date:	02-Aug-2014 19:53:30	Instrument ID:	HP5973W		
Lims ID:	480-64676-C-4-A	Lab Sample ID:	480-64676-4		
Client ID:	AS-WTPE-14-0047				
Operator ID:	PJQ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

206 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7



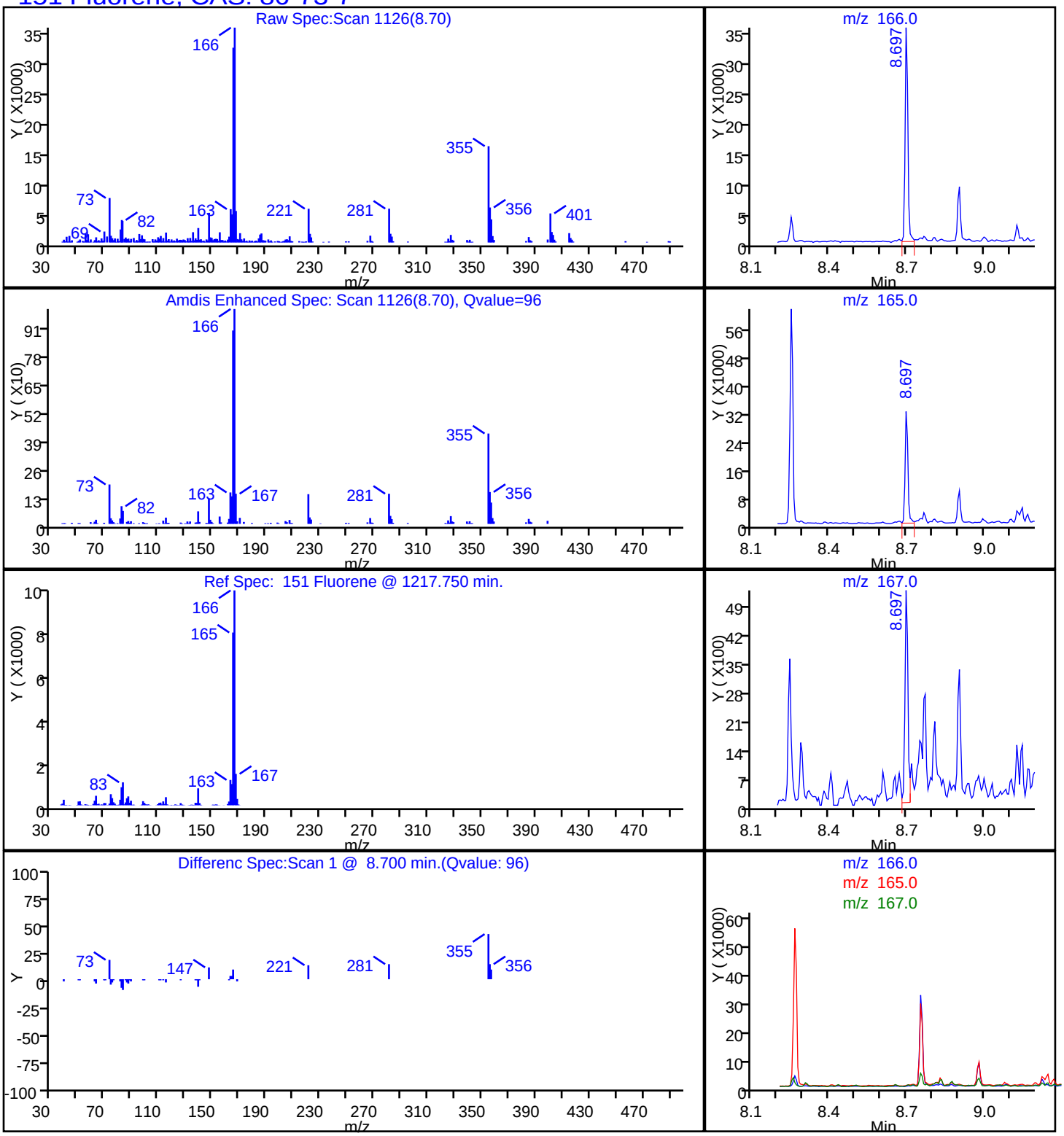
Report Date: 05-Aug-2014 10:50:32 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09282.D

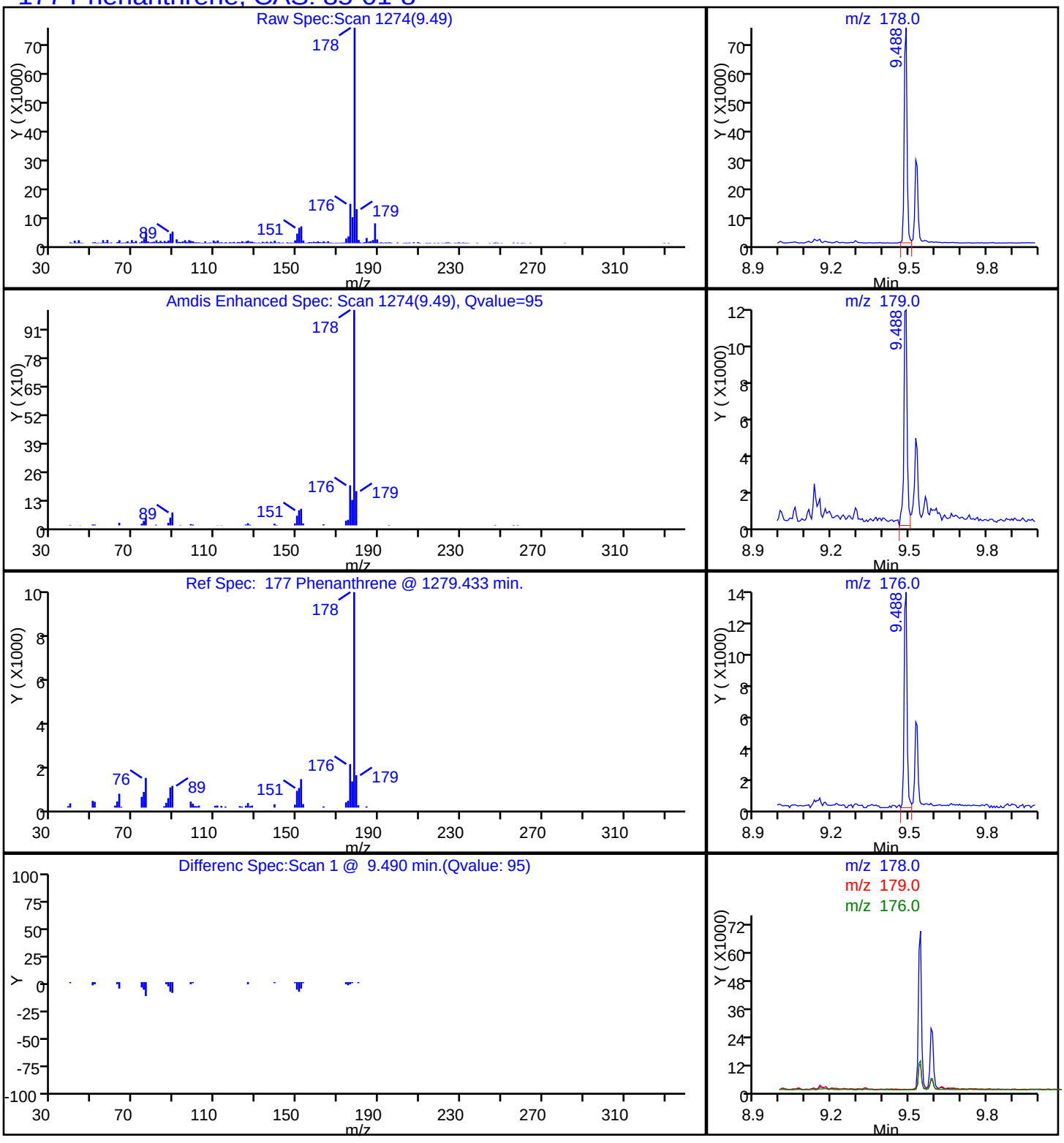
Injection Date:	02-Aug-2014 19:53:30	Instrument ID:	HP5973W		
Lims ID:	480-64676-C-4-A	Lab Sample ID:	480-64676-4		
Client ID:	AS-WTPE-14-0047				
Operator ID:	PJQ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

151 Fluorene, CAS: 86-73-7



Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09282.D
Injection Date: 02-Aug-2014 19:53:30 Instrument ID: HP5973W
Lims ID: 480-64676-C-4-A Lab Sample ID: 480-64676-4
Client ID: AS-WTPE-14-0047
Operator ID: PJQ ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

177 Phenanthrene, CAS: 85-01-8



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-194440/3	W08965.D
Level 2	IC 480-194440/4	W08966.D
Level 3	IC 480-194440/5	W08967.D
Level 4	ICIS 480-194440/6	W08968.D
Level 5	IC 480-194440/7	W08969.D
Level 6	IC 480-194440/8	W08970.D
Level 7	IC 480-194440/9	W08971.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.3161 0.3701	0.2582 0.3728	0.2872	0.2802	0.2901	Qua	-0.007	0.2569	0.0081						0.9930		0.9900
N-Nitrosodimethylamine	0.2565 0.2630	0.2408 0.2621	0.2392	0.2593	0.2617	Ave		0.2547				4.0		20.0			
Pyridine	0.2645 0.4978	0.2155 0.5196	0.3052	0.4034	0.4708	Qua	-0.144	0.4257	0.0072						0.9980		0.9900
Aniline	1.5250 1.5366	1.5013 1.4475	1.6840	1.6357	1.5671	Ave		1.5567				5.2		20.0			
Phenol	1.3112 1.3216	1.2059 1.2456	1.3144	1.4225	1.3606	Ave		1.3117			0.8000	5.4		20.0			
Bis(2-chloroethyl)ether	1.2563 1.0950	1.2639 1.0489	1.2446	1.1659	1.1098	Ave		1.1692			0.7000	7.5		20.0			
2-Chlorophenol	1.2624 1.2913	1.2374 1.2408	1.2955	1.3456	1.2890	Ave		1.2803			0.8000	2.9		20.0			
n-Decane	0.8610 0.8471	0.8732 0.7741	0.8633	0.8390	0.8196	Ave		0.8396			0.0100	4.0		20.0			
1,3-Dichlorobenzene	1.5853 1.4666	1.5973 1.3458	1.5857	1.5255	1.4779	Ave		1.5120				6.0		20.0			
1,4-Dichlorobenzene	1.6167 1.4480	1.6301 1.2731	1.6044	1.5616	1.4851	Ave		1.5170				8.4		20.0			
Benzyl alcohol	0.7326 0.7244	0.7914 0.6732	0.8167	0.7699	0.7392	Ave		0.7496				6.3		20.0			
1,2-Dichlorobenzene	1.5729 1.3632	1.5681 1.1976	1.5612	1.5168	1.4184	Ave		1.4569				9.6		20.0			
bis (2-chloroisopropyl) ether	1.0867 0.8368	1.1005 0.7881	1.0239	0.9085	0.8566	Ave		0.9430			0.0100	13.0		20.0			
2-Methylphenol	1.1587 1.0349	1.1501 1.0048	1.1668	1.1171	1.0447	Ave		1.0967			0.7000	6.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetophenone	1.7847 1.4405	1.8333 1.3505	1.7824	1.5939	1.4874	Lin1	0.1829	1.4277			0.0100				0.9940		0.9900
N-Nitrosodi-n-propylamine	0.7347 0.6183	0.7557 0.5520	0.7167	0.6574	0.6236	Ave		0.6655			0.5000	11.0		20.0			
4-Methylphenol	1.2966 1.0343	1.3186 0.9761	1.2521	1.1396	1.0625	Ave		1.1543			0.6000	12.0		20.0			
Hexachloroethane	0.5378 0.5056	0.5210 0.4745	0.5388	0.5268	0.5119	Ave		0.5166			0.3000	4.3		20.0			
Nitrobenzene	0.2705 0.2664	0.2665 0.2560	0.2786	0.2772	0.2700	Ave		0.2693			0.2000	2.8		20.0			
Isophorone	0.4994 0.4906	0.4814 0.4927	0.5025	0.4983	0.4966	Ave		0.4945			0.4000	1.4		20.0			
2-Nitrophenol	0.1660 0.2047	0.1675 0.2065	0.1926	0.2017	0.2054	Ave		0.1921			0.1000	9.3		20.0			
2,4-Dimethylphenol	0.3068 0.2923	0.3017 0.2844	0.3042	0.3002	0.2976	Ave		0.2982			0.2000	2.6		20.0			
Bis(2-chloroethoxy)methane	0.3693 0.3412	0.3577 0.3236	0.3587	0.3592	0.3496	Ave		0.3513			0.3000	4.3		20.0			
2,4-Dichlorophenol	0.3154 0.3151	0.3166 0.2938	0.3318	0.3244	0.3233	Ave		0.3172			0.2000	3.8		20.0			
1,2,4-Trichlorobenzene	0.4146 0.3733	0.4118 0.3384	0.4112	0.4005	0.3858	Ave		0.3908				7.1		20.0			
Naphthalene	1.1288 0.8094	1.1106 +++++	1.0767	0.9760	0.8514	Lin1	0.1169	0.8573			0.7000				0.9900		0.9900
4-Chloroaniline	0.2166 0.3932	0.2588 0.3899	0.3307	0.3758	0.3890	Lin1	-0.057	0.3930			0.0100				0.9990		0.9900
Hexachlorobutadiene	0.2643 0.2462	0.2634 0.2202	0.2669	0.2638	0.2543	Ave		0.2542			0.0100	6.5		20.0			
4-Chloro-3-methylphenol	0.2387 0.2466	0.2498 0.2366	0.2553	0.2620	0.2521	Ave		0.2487			0.2000	3.6		20.0			
2-Methylnaphthalene	0.7819 0.6267	0.7626 0.5384	0.7743	0.7240	0.6680	Qua	-0.010	0.8151	-0.018		0.4000				1.0000		0.9900
1-Methylnaphthalene	0.7293 0.5905	0.7184 0.5067	0.7194	0.6894	0.6229	Qua	-0.010	0.7662	-0.017		0.0100				1.0000		0.9900
Hexachlorocyclopentadiene	0.1848 0.3480	0.2053 0.3397	0.2825	0.3252	0.3466	Lin1	-0.055	0.3454			0.0500				0.9990		0.9900
1,2,4,5-Tetrachlorobenzene	0.7095 0.6466	0.6973 0.5609	0.7126	0.6947	0.6647	Ave		0.6695			0.0100	8.0		20.0			
2,4,6-Trichlorophenol	0.3760 0.4208	0.3844 0.4067	0.4230	0.4289	0.4311	Ave		0.4101			0.2000	5.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,4,5-Trichlorophenol	0.3783 0.4372	0.3986 0.4144	0.4343	0.4529	0.4522	Ave		0.4240			0.2000	6.6		20.0			
Biphenyl	1.5396 1.1382	1.5361 0.9103	1.5107	1.3858	1.2165	Qua	0.0042	1.5929	-0.046		0.0100				1.0000		0.9900
2-Chloronaphthalene	1.2201 1.0244	1.2127 0.8597	1.2161	1.1511	1.0725	Qua	-0.065	1.3310	-0.031		0.8000				1.0000		0.9900
2-Nitroaniline	0.1600 0.1951	0.1622 0.1951	0.1766	0.1856	0.1926	Ave		0.1810			0.0100	8.3		20.0			
Dimethyl phthalate	1.3031 1.2287	1.3139 1.1566	1.2863	1.2550	1.2383	Ave		1.2545			0.0100	4.3		20.0			
1,3-Dinitrobenzene	0.0977 0.1510	0.1084 0.1545	0.1302	0.1421	0.1504	Lin1	-0.019	0.1525							0.9990		0.9900
2,6-Dinitrotoluene	0.2490 0.3229	0.2753 0.3162	0.2960	0.3132	0.3215	Ave		0.2991				9.3		20.0			
Acenaphthylene	1.7554 1.3338	1.7660 1.1054	1.7330	1.5571	1.4245	Qua	0.0145	1.7874	-0.046		0.9000				1.0000		0.9900
3-Nitroaniline	0.1805 0.2270	0.1656 0.2590	0.1533	0.1695	0.2085	Qua	-0.007	0.1462	0.0076		0.0100				0.9990		0.9900
Acenaphthene	1.2108 0.9933	1.2138 +++++	1.1885	1.1190	1.0363	Ave		1.1269			0.9000	8.4		20.0			
2,4-Dinitrophenol	0.0486 0.1802	0.0553 0.1975	0.1019	0.1474	0.1743	Qua	-0.118	0.1485	0.0018		0.0100				0.9990		0.9900
4-Nitrophenol	0.0563 0.1067	0.0766 0.1051	0.0932	0.1020	0.1064	Lin1	-0.029	0.1066			0.0100				1.0000		0.9900
2,4-Dinitrotoluene	0.3050 0.4090	0.3246 0.3877	0.3897	0.4121	0.4152	Ave		0.3776			0.2000	12.0		20.0			
Dibenzofuran	1.7500 1.2896	1.7089 1.0676	1.6804	1.5210	1.3703	Qua	0.0287	1.7280	-0.044		0.8000				1.0000		0.9900
2,3,4,6-Tetrachlorophenol	0.3205 0.4065	0.3412 0.4009	0.3794	0.3977	0.4033	Ave		0.3785			0.0100	9.0		20.0			
Diethyl phthalate	1.1836 1.0160	1.2277 0.8613	1.2074	1.1634	1.0675	Qua	-0.053	1.3216	-0.030		0.0100				1.0000		0.9900
Hexadecane	0.4486 0.3650	0.4430 0.2905	0.4486	0.4348	0.3949	Qua	-0.039	0.5180	-0.015		0.0100				1.0000		0.9900
4-Chlorophenyl phenyl ether	0.7585 0.6085	0.7407 0.4947	0.7499	0.7030	0.6381	Qua	-0.035	0.8192	-0.021		0.4000				1.0000		0.9900
Fluorene	1.3782 1.0816	1.3888 0.9098	1.3475	1.2618	1.1366	Qua	-0.001	1.4179	-0.034		0.9000				1.0000		0.9900
4-Nitroaniline	0.1902 0.1164	0.1713 +++++	0.1021	0.1089	0.1006	Lin1	0.0227	0.1054			0.0100				0.9920		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4,6-Dinitro-2-methylphenol	0.0659 0.1554	0.0779 0.1577	0.1180	0.1455	0.1524	Lin1	-0.064	0.1566			0.0100				0.9980		0.9900
1,2-Diphenylhydrazine	0.8429 0.7733	0.8238 0.6919	0.8240	0.8011	0.7715	Ave		0.7898				6.4		20.0			
trans-Azobenzene	0.5145 0.4486	0.5016 0.4009	0.4982	0.4799	0.4497	Ave		0.4705				8.5		20.0			
4-Bromophenyl phenyl ether	0.3056 0.2941	0.3034 0.2755	0.3053	0.3038	0.2986	Ave		0.2980			0.1000	3.6		20.0			
Hexachlorobenzene	0.3989 0.3735	0.4020 0.3411	0.3992	0.4019	0.3802	Ave		0.3853			0.1000	5.9		20.0			
Pentachlorophenol	0.1236 0.1999	0.1433 0.1889	0.1934	0.2131	0.2059	Lin1	-0.039	0.2005			0.0500				0.9970		0.9900
n-Octadecane	0.2530 0.2345	0.2471 0.2070	0.2553	0.2542	0.2398	Ave		0.2416			0.0100	7.1		20.0			
Phenanthrene	1.1659 0.8693	1.1553 0.7486	1.1448	1.0430	0.9124	Qua	0.0697	1.1224	-0.025		0.7000				0.9990		0.9900
Anthracene	1.1396 0.8670	1.1529 0.7263	1.1729	1.0559	0.9234	Qua	0.0486	1.1669	-0.030		0.7000				1.0000		0.9900
Carbazole	0.9671 0.5808	0.8884 0.5195	0.7986	0.6279	0.5771	Lin1	0.1552	0.5535			0.0100				0.9900		0.9900
Di-n-butyl phthalate	1.1485 0.8343	1.1695 0.6865	1.1962	1.0613	0.9124	Qua	0.0683	1.1769	-0.033		0.0100				0.9990		0.9900
Fluoranthene	1.2828 0.9547	1.2810 0.7771	1.3010	1.1719	1.0042	Qua	0.0490	1.3057	-0.036		0.6000				0.9990		0.9900
Pyrene	1.0958 0.8478	1.1007 0.7129	1.1230	1.0236	0.8828	Qua	0.0475	1.1161	-0.027		0.6000				0.9990		0.9900
Butyl benzyl phthalate	0.3788 0.3973	0.3878 0.3777	0.4139	0.4180	0.4106	Ave		0.3977			0.0100	4.2		20.0			
Benzo[a]anthracene	1.1547 0.9764	1.1126 0.8882	1.1170	1.0884	0.9955	Ave		1.0475			0.8000	9.2		20.0			
Bis(2-ethylhexyl) phthalate	0.5595 0.5498	0.5594 0.4815	0.5883	0.5971	0.5605	Ave		0.5566			0.0100	6.7		20.0			
Chrysene	1.0776 0.8254	1.0571 0.7226	1.0667	0.9917	0.8534	Qua	0.0690	1.0411	-0.022		0.7000				0.9990		0.9900
Di-n-octyl phthalate	0.8431 0.9091	0.8801 0.8290	0.9734	0.9998	0.9351	Ave		0.9099			0.0100	7.0		20.0			
Benzo[b]fluoranthene	0.9123 1.1219	0.9997 1.0874	1.0923	1.0570	1.0862	Ave		1.0510			0.7000	6.9		20.0			
Benzo[k]fluoranthene	1.0491 0.9355	1.1149 0.7244	1.1575	1.1470	1.0238	Qua	-0.144	1.3846	-0.043		0.7000				1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	0.9246 0.9568	0.9642 0.8614	1.0311	1.0355	0.9898	Ave		0.9662			0.7000	6.3		20.0			
Indeno[1,2,3-cd]pyrene	1.1955 1.3002	1.2831 1.2144	1.3130	1.2914	1.3022	Ave		1.2714			0.5000	3.7		20.0			
Dibenz(a,h)anthracene	1.0189 1.0397	1.0781 0.9327	1.1497	1.1250	1.0683	Ave		1.0589				6.8		20.0			
Benzo[g,h,i]perylene	1.0658 0.9991	1.1188 0.8840	1.0898	1.0479	1.0185	Ave		1.0320			0.5000	7.4		20.0			
2-Fluorophenol	0.6883 0.7969	0.6315 0.8635	0.6635	0.7018	0.8072	Ave		0.7361				12.0		20.0			
Phenol-d5	0.8954 0.9957	0.8490 0.9416	0.9341	1.0475	1.0084	Ave		0.9531				7.2		20.0			
Nitrobenzene-d5	0.2197 0.2296	0.2171 0.2282	0.2303	0.2322	0.2321	Ave		0.2270				2.7		20.0			
2-Fluorobiphenyl	1.1773 0.9942	1.1795 0.8482	1.1578	1.1125	1.0257	Qua	-0.046	1.2569	-0.027						1.0000		0.9900
2,4,6-Tribromophenol	0.1605 0.1844	0.1671 0.1762	0.1758	0.1866	0.1862	Ave		0.1767				5.7		20.0			
p-Terphenyl-d14	0.7846 0.6443	0.7852 0.5417	0.8097	0.7669	0.6778	Qua	-0.010	0.8554	-0.021						1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-194440/3	W08965.D
Level 2	IC 480-194440/4	W08966.D
Level 3	IC 480-194440/5	W08967.D
Level 4	ICIS 480-194440/6	W08968.D
Level 5	IC 480-194440/7	W08969.D
Level 6	IC 480-194440/8	W08970.D
Level 7	IC 480-194440/9	W08971.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCB	Qua	3185 164561	4511 271171	22082	61820	109009	0.250 10.0	0.500 15.0	2.00	5.00	8.00
N-Nitrosodimethylamine	DCB	Ave	2584 116925	4207 190641	18392	57211	98368	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Pyridine	DCB	Qua	2665 221351	3766 377901	23469	88983	176929	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Aniline	DCB	Ave	15364 683215	26233 1052792	129497	360840	588932	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Phenol	DCB	Ave	13210 587620	21072 905984	101075	313825	511319	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Bis(2-chloroethyl)ether	DCB	Ave	12657 486866	22085 762906	95707	257207	417081	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2-Chlorophenol	DCB	Ave	12718 574136	21621 902460	99620	296856	484408	0.250 10.0	0.500 15.0	2.00	5.00	8.00
n-Decane	DCB	Ave	8674 376617	15258 562998	66389	185097	308014	0.250 10.0	0.500 15.0	2.00	5.00	8.00
1,3-Dichlorobenzene	DCB	Ave	15971 652083	27910 978834	121939	336529	555405	0.250 10.0	0.500 15.0	2.00	5.00	8.00
1,4-Dichlorobenzene	DCB	Ave	16287 643830	28483 925922	123370	344494	558132	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzyl alcohol	DCB	Ave	7381 322099	13828 489641	62802	169842	277796	0.250 10.0	0.500 15.0	2.00	5.00	8.00
1,2-Dichlorobenzene	DCB	Ave	15846 606110	27401 871047	120048	334617	533034	0.250 10.0	0.500 15.0	2.00	5.00	8.00
bis (2-chloroisopropyl) ether	DCB	Ave	10948 372053	19230 573219	78733	200419	321907	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2-Methylphenol	DCB	Ave	11673 460117	20096 730836	89720	246433	392600	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Acetophenone	DCB	Lin1	17980 640474	32035 982256	137059	351625	558990	0.250 10.0	0.500 15.0	2.00	5.00	8.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
N-Nitrosodi-n-propylamine	DCB	Ave	7402 274898	13205 401472	55114	145018	234341	0.250 10.0	0.500 15.0	2.00	5.00	8.00
4-Methylphenol	DCB	Ave	13063 459862	23040 709926	96282	251405	399317	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Hexachloroethane	DCB	Ave	5418 224806	9104 345112	41432	116209	192375	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Nitrobenzene	NPT	Ave	11209 415455	19909 647487	85441	221719	355101	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Isophorone	NPT	Ave	20693 765018	35966 1246440	154118	398651	653073	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2-Nitrophenol	NPT	Ave	6879 319217	12516 522346	59079	161365	270088	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2,4-Dimethylphenol	NPT	Ave	12711 455875	22539 719399	93303	240176	391452	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Bis(2-chloroethoxy)methane	NPT	Ave	15303 532017	26720 818474	110010	287325	459789	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2,4-Dichlorophenol	NPT	Ave	13071 491321	23652 743220	101764	259512	425192	0.250 10.0	0.500 15.0	2.00	5.00	8.00
1,2,4-Trichlorobenzene	NPT	Ave	17181 582205	30769 856058	126115	320353	507415	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Naphthalene	NPT	Lin1	46773 1262224	82976 +++++	330266	780779	1119788	0.250 10.0	0.500 +++++	2.00	5.00	8.00
4-Chloroaniline	NPT	Lin1	8976 613174	19337 986370	101434	300582	511630	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Hexachlorobutadiene	NPT	Ave	10950 383918	19676 557122	81856	211045	334469	0.250 10.0	0.500 15.0	2.00	5.00	8.00
4-Chloro-3-methylphenol	NPT	Ave	9891 384631	18663 598402	78322	209566	331582	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2-Methylnaphthalene	NPT	Qua	32400 977357	56977 1361911	237500	579132	878514	0.250 10.0	0.500 15.0	2.00	5.00	8.00
1-Methylnaphthalene	NPT	Qua	30222 920902	53675 1281786	220668	551485	819234	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Hexachlorocyclopentadiene	ANT	Lin1	4774 331121	9521 531676	54180	162094	281818	0.250 10.0	0.500 15.0	2.00	5.00	8.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	18323 615202	32332 878034	136693	346309	540453	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2,4,6-Trichlorophenol	ANT	Ave	9710 400359	17824 636646	81135	213815	350507	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2,4,5-Trichlorophenol	ANT	Ave	9769 415974	18485 648719	83295	225739	367672	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Biphenyl	ANT	Qua	39762 1082914	71230 1424900	289768	690799	989070	0.250 10.0	0.500 15.0	2.00	5.00	8.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Chloronaphthalene	ANT	Qua	31510 974635	56235 1345715	233262	573821	871971	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2-Nitroaniline	ANT	Ave	4133 185630	7522 305378	33865	92534	156570	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Dimethyl phthalate	ANT	Ave	33654 1169033	60926 1810400	246723	625609	1006755	0.250 10.0	0.500 15.0	2.00	5.00	8.00
1,3-Dinitrobenzene	NPT	Lin1	4048 235500	8098 390953	39926	113698	197779	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2,6-Dinitrotoluene	ANT	Ave	6430 307179	12765 494932	56772	156105	261395	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Acenaphthylene	ANT	Qua	45337 1269045	81890 1730204	332414	776180	1158171	0.250 10.0	0.500 15.0	2.00	5.00	8.00
3-Nitroaniline	ANT	Qua	4662 215980	7677 405475	29406	84471	169553	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Acenaphthene	ANT	Ave	31270 945094	56283 +++++	227975	557816	842524	0.250 10.0	0.500 +++++	2.00	5.00	8.00
2,4-Dinitrophenol	ANT	Qua	2509 342906	5128 618127	39080	146935	283394	0.500 20.0	1.00 30.0	4.00	10.0	16.0
4-Nitrophenol	ANT	Lin1	2907 203056	7108 329166	35743	101642	172995	0.500 20.0	1.00 30.0	4.00	10.0	16.0
2,4-Dinitrotoluene	ANT	Ave	7878 389093	15050 606859	74752	205410	337600	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Dibenzofuran	ANT	Qua	45197 1226926	79244 1671158	322318	758185	1114119	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2,3,4,6-Tetrachlorophenol	ANT	Ave	8278 386789	15820 627492	72772	198222	327901	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Diethyl phthalate	ANT	Qua	30568 966631	56927 1348092	231582	579953	867963	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Hexadecane	ANT	Qua	11585 347252	20540 454651	86040	216742	321105	0.250 10.0	0.500 15.0	2.00	5.00	8.00
4-Chlorophenyl phenyl ether	ANT	Qua	19589 578988	34345 774358	143830	350437	518834	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Fluorene	ANT	Qua	35595 1029109	64398 1424111	258457	628969	924130	0.250 10.0	0.500 15.0	2.00	5.00	8.00
4-Nitroaniline	ANT	Lin1	4913 110763	7944 +++++	19585	54284	81823	0.250 10.0	0.500 +++++	2.00	5.00	8.00
4,6-Dinitro-2-methylphenol	PHN	Lin1	5581 509557	11865 852189	74898	242054	425101	0.500 20.0	1.00 30.0	4.00	10.0	16.0
1,2-Diphenylhydrazine	ANT	Ave	21770 735735	38201 1083042	158054	399340	627263	0.250 10.0	0.500 15.0	2.00	5.00	8.00
trans-Azobenzene	PHN	Ave	21770 735735	38201 1083042	158054	399340	627263	0.250 10.0	0.500 15.0	2.00	5.00	8.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Bromophenyl phenyl ether	PHN	Ave	12930 482253	23106 744292	96850	252766	416529	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Hexachlorobenzene	PHN	Ave	16879 612543	30615 921568	126635	334429	530414	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Pentachlorophenol	PHN	Lin1	10456 655717	21823 1020466	122727	354628	574478	0.500 20.0	1.00 30.0	4.00	10.0	16.0
n-Octadecane	PHN	Ave	10706 384557	18817 559097	81001	211519	334562	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Phenanthrene	PHN	Qua	49332 1425590	87976 2022435	363168	867838	1272776	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Anthracene	PHN	Qua	48222 1421871	87793 1962089	372109	878553	1288199	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Carbazole	PHN	Lin1	40920 952509	67656 1403563	253344	522459	805110	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Di-n-butyl phthalate	PHN	Qua	48597 1368137	89058 1854513	379480	883036	1272827	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Fluoranthene	PHN	Qua	54279 1565573	97546 2099233	412746	975118	1400837	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Pyrene	CRY	Qua	56055 1616055	100776 2138049	425570	994907	1435751	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Butyl benzyl phthalate	CRY	Ave	19380 757354	35509 1132699	156862	406241	667861	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzo[a]anthracene	CRY	Ave	59068 1861243	101867 2663820	423271	1057905	1619110	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	28619 1048030	51214 1444174	222919	580368	911565	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Chrysene	CRY	Qua	55125 1573328	96787 2167073	404215	963918	1387930	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Di-n-octyl phthalate	CRY	Ave	43129 1733010	80580 2486293	368854	971749	1520821	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzo[b]fluoranthene	PRY	Ave	50051 2380060	96401 3882750	450383	1134587	1947888	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzo[k]fluoranthene	PRY	Qua	57552 1984574	107516 2586510	477285	1231255	1835886	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzo[a]pyrene	PRY	Ave	50723 2029845	92977 3075860	425160	1111537	1774901	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	65586 2758234	123732 4336198	541407	1386296	2335123	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Dibenz(a,h)anthracene	PRY	Ave	55898 2205525	103965 3330410	474045	1207641	1915666	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzo[g,h,i]perylene	PRY	Ave	58471 2119428	107886 3156454	449367	1124848	1826388	0.250 10.0	0.500 15.0	2.00	5.00	8.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 18:10 Calibration End Date: 07/23/2014 20:44 Calibration ID: 19578

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Fluorophenol	DCB	Ave	6934 354311	11034 628045	51025	154827	303340	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Phenol-d5	DCB	Ave	9021 442729	14835 684833	71830	231090	378987	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Nitrobenzene-d5	NPT	Ave	9103 358007	16216 577179	70638	185753	305208	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2-Fluorobiphenyl	ANT	Qua	30407 945935	54692 1327682	222085	554541	833941	0.250 10.0	0.500 15.0	2.00	5.00	8.00
2,4,6-Tribromophenol	PHN	Ave	6791 302456	12727 475905	55769	155289	259691	0.250 10.0	0.500 15.0	2.00	5.00	8.00
p-Terphenyl-d14	CRY	Qua	40134 1228225	71889 1624479	306839	745364	1102325	0.250 10.0	0.500 15.0	2.00	5.00	8.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08965.D
Lims ID: IC 8270LVI - .25
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jul-2014 18:10:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-002
Misc. Info.: IC 8270LVI - .25
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub18

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:18:53 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 23-Jul-2014 20:34:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.841	5.842	-0.001	90	161192	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.899	-0.005	98	662992	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.347	-0.005	92	413228	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.570	-0.010	97	677020	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.852	-0.011	98	818483	4.00	4.00	
* 6 Perylene-d12	264	13.540	13.577	-0.037	99	877752	4.00	4.00	
$ 7 2-Fluorophenol	112	4.752	4.746	0.006	83	6934	0.2500	0.2338	
$ 8 Phenol-d5	99	5.564	5.564	0.000	82	9021	0.2500	0.2349	
$ 9 Nitrobenzene-d5	82	6.301	6.306	-0.005	80	9103	0.2500	0.2419	
$ 10 2-Fluorobiphenyl	172	7.786	7.791	-0.005	99	30407	0.2500	0.2723	
$ 11 2,4,6-Tribromophenol	330	8.993	8.993	0.000	85	6791	0.2500	0.2271	
$ 12 p-Terphenyl-d14	244	10.868	10.868	0.000	97	40134	0.2500	0.2422	
55 1,4-Dioxane	88	3.128	3.117	0.011	85	3185	0.2500	0.3299	
53 N-Nitrosodimethylamine	42	3.437	3.421	0.016	62	2584	0.2500	0.2518	M
52 Pyridine	52	3.496	3.459	0.037	94	2665	0.2500	0.4885	M
69 Aniline	93	5.564	5.569	-0.005	98	15364	0.2500	0.2449	
72 Phenol	94	5.574	5.580	-0.006	95	13210	0.2500	0.2499	
74 Bis(2-chloroethyl)ether	93	5.622	5.628	-0.006	96	12657	0.2500	0.2686	
75 2-Chlorophenol	128	5.670	5.670	0.000	90	12718	0.2500	0.2465	
267 n-Decane	57	5.713	5.713	0.000	0	8674	0.2500	0.2564	
78 1,3-Dichlorobenzene	146	5.788	5.793	-0.005	96	15971	0.2500	0.2621	
77 1,4-Dichlorobenzene	146	5.852	5.857	-0.005	95	16287	0.2500	0.2664	
79 Benzyl alcohol	108	5.964	5.970	-0.006	89	7381	0.2500	0.2443	
73 1,2-Dichlorobenzene	146	5.980	5.980	0.000	98	15846	0.2500	0.2699	
83 2,2'-oxybis[1-chloropropan	45	6.071	6.076	-0.005	90	10948	0.2500	0.2881	
82 2-Methylphenol	108	6.071	6.076	-0.005	94	11673	0.2500	0.2641	
86 Acetophenone	105	6.173	6.183	-0.010	94	17980	0.2500	0.1844	
87 N-Nitrosodi-n-propylamine	70	6.178	6.189	-0.011	72	7402	0.2500	0.2760	
88 4-Methylphenol	108	6.199	6.205	-0.006	98	13063	0.2500	0.2808	
89 Hexachloroethane	117	6.258	6.263	-0.005	86	5418	0.2500	0.2602	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Nitrobenzene	77	6.312	6.322	-0.010	79	11209	0.2500	0.2511	
94 Isophorone	82	6.515	6.525	-0.010	95	20693	0.2500	0.2525	
97 2-Nitrophenol	139	6.579	6.584	-0.005	80	6879	0.2500	0.2161	
99 2,4-Dimethylphenol	107	6.632	6.637	-0.005	89	12711	0.2500	0.2572	
103 Bis(2-chloroethoxy)methane	93	6.696	6.707	-0.011	93	15303	0.2500	0.2628	
106 2,4-Dichlorophenol	162	6.792	6.798	-0.006	85	13071	0.2500	0.2486	
100 1,2,4-Trichlorobenzene	180	6.851	6.851	0.000	92	17181	0.2500	0.2652	
107 Naphthalene	128	6.910	6.915	-0.005	94	46773	0.2500	0.1929	
108 4-Chloroaniline	127	6.969	6.969	0.000	96	8976	0.2500	0.2822	
110 Hexachlorobutadiene	225	7.017	7.022	-0.005	90	10950	0.2500	0.2599	
117 4-Chloro-3-methylphenol	107	7.380	7.375	0.005	88	9891	0.2500	0.2399	
121 2-Methylnaphthalene	142	7.481	7.487	-0.006	93	32400	0.2500	0.2536	
236 1-Methylnaphthalene	142	7.562	7.567	-0.005	96	30222	0.2500	0.2526	
125 Hexachlorocyclopentadiene	237	7.615	7.615	0.000	90	4774	0.2500	0.2934	
124 1,2,4,5-Tetrachlorobenzene	216	7.620	7.626	-0.006	93	18323	0.2500	0.2649	
127 2,4,6-Trichlorophenol	196	7.722	7.722	0.000	86	9710	0.2500	0.2292	
129 2,4,5-Trichlorophenol	196	7.765	7.759	0.006	91	9769	0.2500	0.2230	
130 1,1'-Biphenyl	154	7.866	7.871	-0.005	93	39762	0.2500	0.2406	
131 2-Chloronaphthalene	162	7.882	7.887	-0.005	91	31510	0.2500	0.2798	
132 2-Nitroaniline	65	7.973	7.978	-0.005	95	4133	0.2500	0.2210	
134 Dimethyl phthalate	163	8.123	8.133	-0.010	98	33654	0.2500	0.2597	
139 1,3-Dinitrobenzene	168	8.144	8.155	-0.011	87	4048	0.2500	0.2850	
135 2,6-Dinitrotoluene	165	8.171	8.176	-0.005	86	6430	0.2500	0.2081	
137 Acenaphthylene	152	8.224	8.229	-0.005	97	45337	0.2500	0.2389	
140 3-Nitroaniline	138	8.315	8.331	-0.016	85	4662	0.2500	0.3487	
141 Acenaphthene	153	8.368	8.374	-0.006	93	31270	0.2500	0.2686	
142 2,4-Dinitrophenol	184	8.400	8.406	-0.006	80	2509	0.5000	0.9448	
143 4-Nitrophenol	109	8.486	8.486	0.000	64	2907	0.5000	0.5321	
144 2,4-Dinitrotoluene	165	8.502	8.507	-0.005	89	7878	0.2500	0.2019	
145 Dibenzofuran	168	8.507	8.512	-0.005	98	45197	0.2500	0.2380	
147 2,3,4,6-Tetrachlorophenol	232	8.619	8.619	0.000	66	8278	0.2500	0.2117	
149 Diethyl phthalate	149	8.700	8.710	-0.010	99	30568	0.2500	0.2658	
240 Hexadecane	57	8.716	8.721	-0.005	89	11585	0.2500	0.2950	
151 Fluorene	166	8.790	8.796	-0.006	94	35595	0.2500	0.2449	
152 4-Chlorophenyl phenyl ethe	204	8.790	8.796	-0.006	69	19589	0.2500	0.2758	
153 4-Nitroaniline	138	8.817	8.828	-0.011	96	4913	0.2500	0.2361	M
154 4,6-Dinitro-2-methylphenol	198	8.833	8.844	-0.011	96	5581	0.5000	0.6185	
159 1,2-Diphenylhydrazine	77	8.919	8.924	-0.005	96	21770	0.2500	0.2668	
158 Azobenzene	77	8.919	8.924	-0.005	92	21770	0.2500	0.2734	
164 4-Bromophenyl phenyl ether	248	9.191	9.196	-0.005	54	12930	0.2500	0.2563	
168 Hexachlorobenzene	284	9.239	9.244	-0.005	94	16879	0.2500	0.2588	
172 Pentachlorophenol	266	9.410	9.415	-0.005	95	10456	0.5000	0.5013	
269 n-Octadecane	57	9.474	9.474	0.000	0	10706	0.2500	0.2619	
177 Phenanthrene	178	9.581	9.586	-0.005	96	49332	0.2500	0.1985	
180 Anthracene	178	9.624	9.629	-0.005	96	48222	0.2500	0.2036	
181 Carbazole	167	9.757	9.757	0.000	95	40920	0.2500	0.1564	
184 Di-n-butyl phthalate	149	10.040	10.046	-0.006	99	48597	0.2500	0.1870	
191 Fluoranthene	202	10.553	10.559	-0.006	97	54279	0.2500	0.2093	
193 Pyrene	202	10.740	10.746	-0.006	98	56055	0.2500	0.2039	
200 Butyl benzyl phthalate	149	11.290	11.296	-0.006	91	19380	0.2500	0.2381	
205 Benzo[a]anthracene	228	11.830	11.835	-0.005	97	59068	0.2500	0.2756	
206 Bis(2-ethylhexyl) phthalat	149	11.857	11.862	-0.005	90	28619	0.2500	0.2513	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
207 Chrysene	228	11.867	11.873	-0.006	96	55125	0.2500	0.1932	
208 Di-n-octyl phthalate	149	12.594	12.599	-0.005	97	43129	0.2500	0.2316	
209 Benzo[b]fluoranthene	252	13.048	13.064	-0.016	95	50051	0.2500	0.2170	
211 Benzo[k]fluoranthene	252	13.085	13.101	-0.016	98	57552	0.2500	0.2962	
213 Benzo[a]pyrene	252	13.459	13.475	-0.016	75	50723	0.2500	0.2392	
215 Indeno[1,2,3-cd]pyrene	276	14.945	14.961	-0.016	97	65586	0.2500	0.2351	
216 Dibenz(a,h)anthracene	278	14.971	14.993	-0.022	87	55898	0.2500	0.2406	
217 Benzo[g,h,i]perylene	276	15.297	15.319	-0.021	97	58471	0.2500	0.2582	
S 220 Total Cresols	1				0			0.5450	
S 218 3 & 4 Methylphenol	108				0		0.2500	0.2808	
S 219 3-Methylphenol	1				0		0.2500	0.2808	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_8270LV_WRK_00060	Amount Added:	1.00	Units: mL	
MB_LLIS_WRK_00034	Amount Added:	20.00	Units: uL	Run Reagent

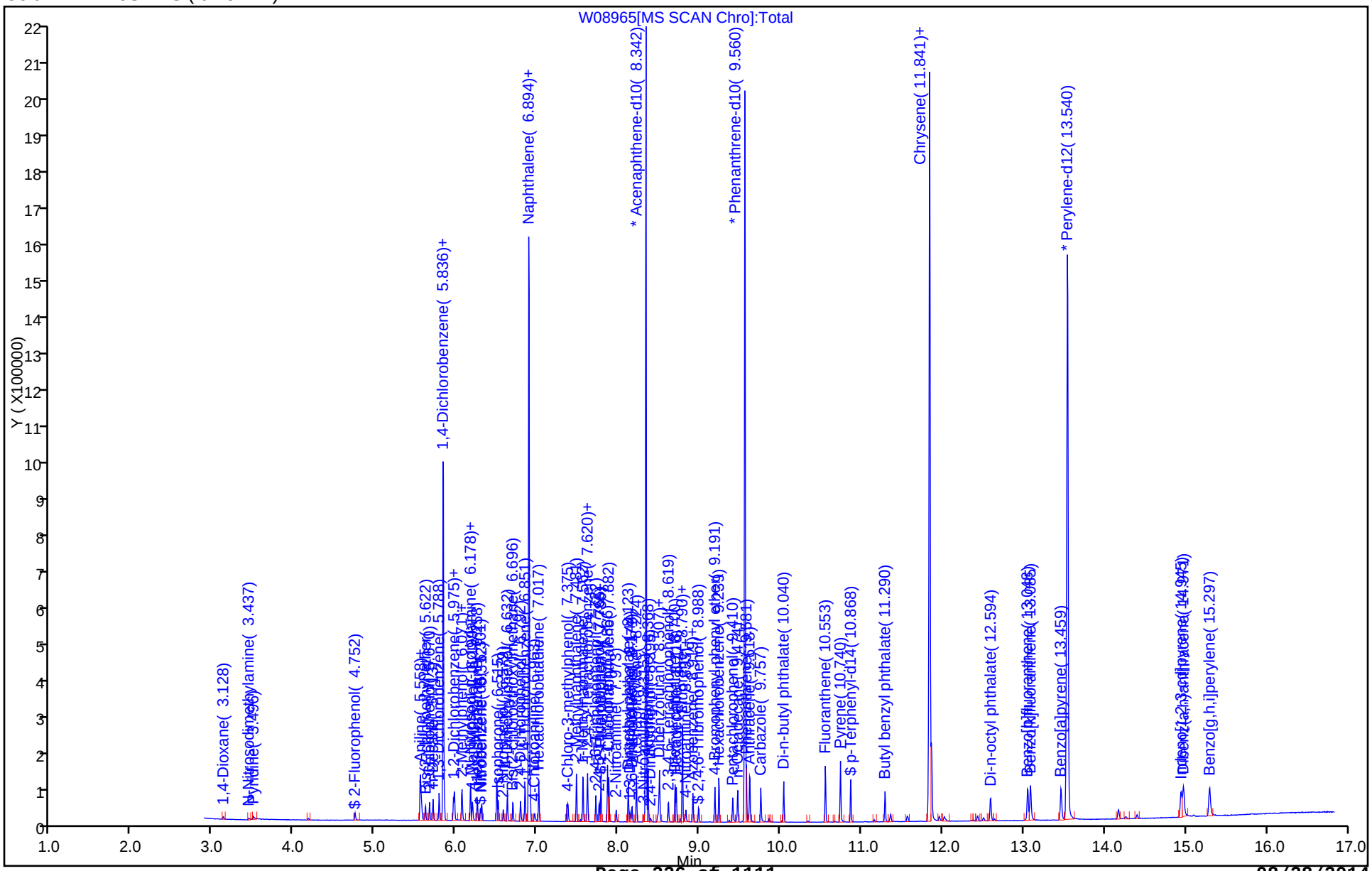
Report Date: 24-Jul-2014 12:18:54 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08965.D

Injection Date:	23-Jul-2014 18:10:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC 8270LVI - .25			Worklist Smp#:	3
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

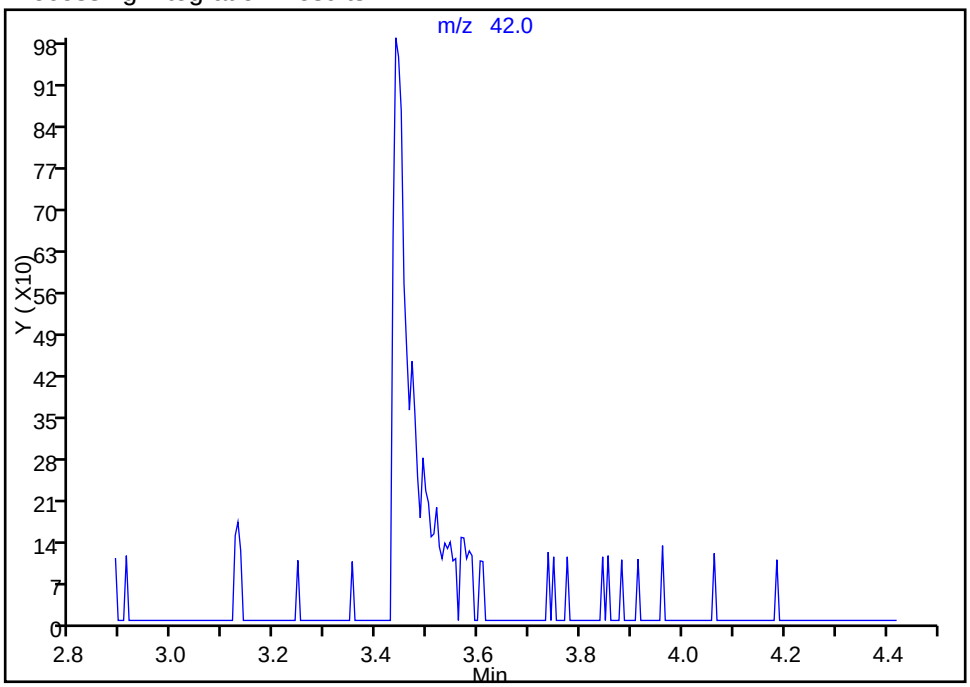
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08965.D				
Injection Date:	23-Jul-2014 18:10:30	Instrument ID:	HP5973W		
Lims ID:	IC 8270LVI - .25				
Client ID:					
Operator ID:	MKP	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	4.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

53 N-Nitrosodimethylamine, CAS: 62-75-9

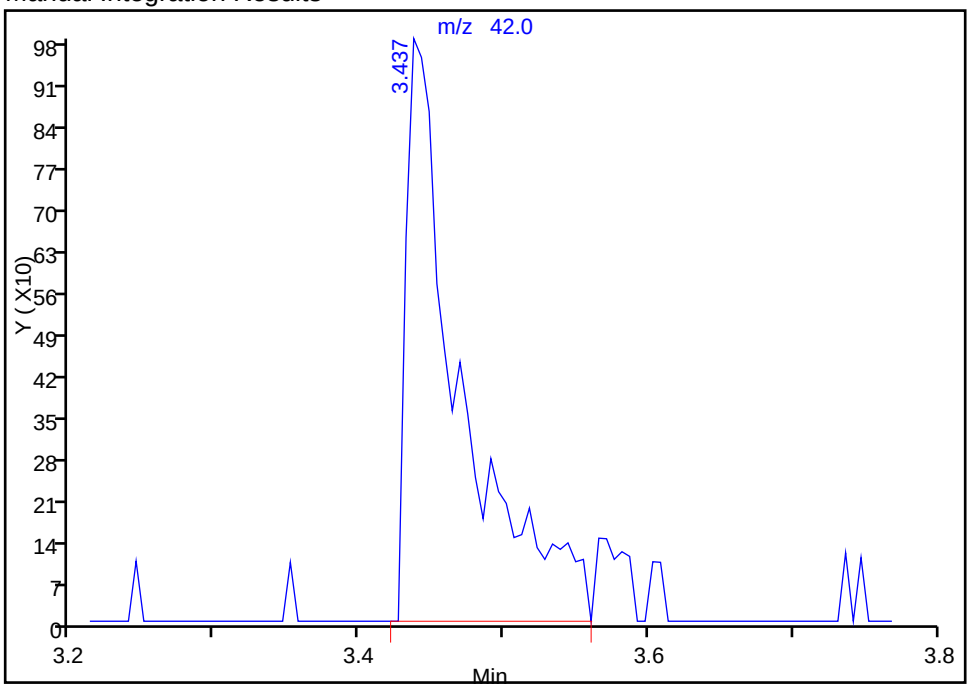
Not Detected
Expected RT: 3.42

Processing Integration Results



Manual Integration Results

RT: 3.44
Response: 2584
Amount: 0.251798



Reviewer: pagem, 24-Jul-2014 11:38:35
Audit Action: Manually Integrated
Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

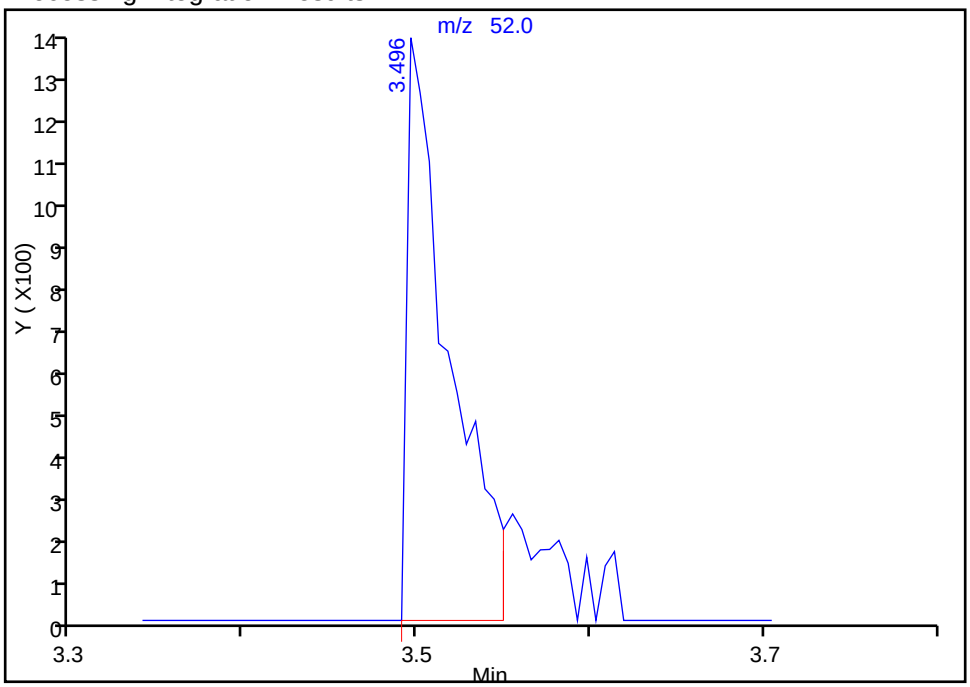
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08965.D
Injection Date: 23-Jul-2014 18:10:30 Instrument ID: HP5973W
Lims ID: IC 8270LVI - .25
Client ID:
Operator ID: MKP ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

52 Pyridine, CAS: 110-86-1

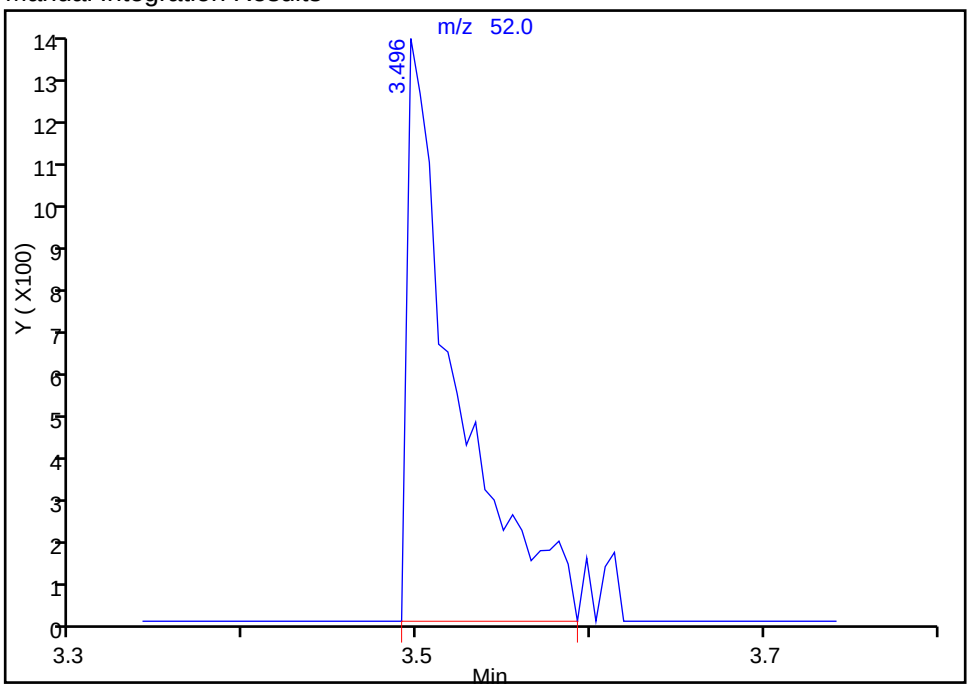
Processing Integration Results

RT: 3.50
Response: 2268
Amount: 0.200050



Manual Integration Results

RT: 3.50
Response: 2665
Amount: 0.488500



Reviewer: pagem, 23-Jul-2014 20:34:55
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

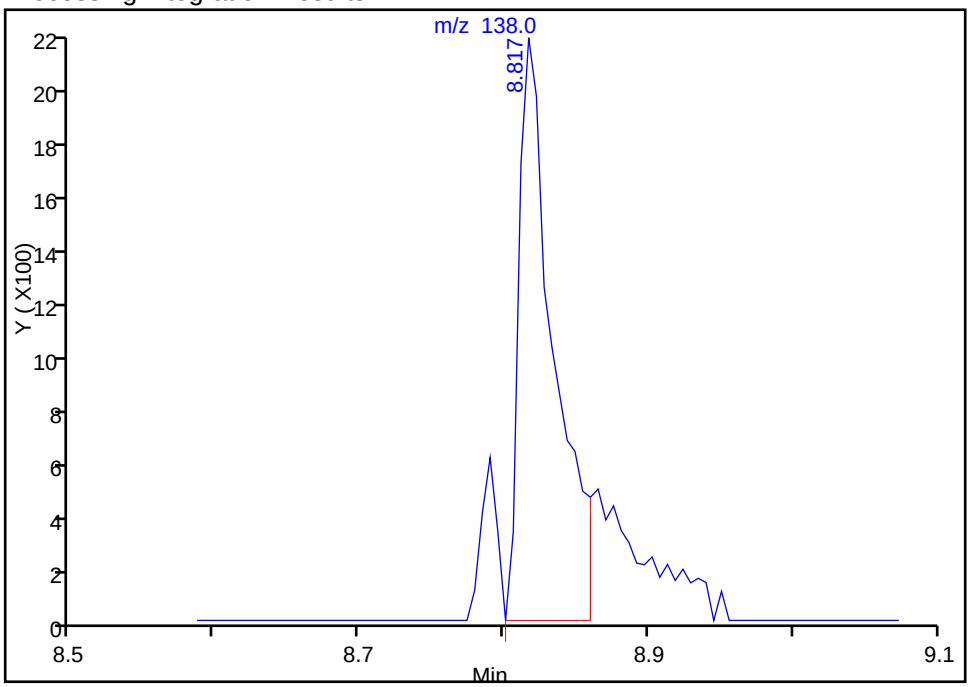
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08965.D
Injection Date: 23-Jul-2014 18:10:30 Instrument ID: HP5973W
Lims ID: IC 8270LVI - .25
Client ID:
Operator ID: MKP ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

153 4-Nitroaniline, CAS: 100-01-6

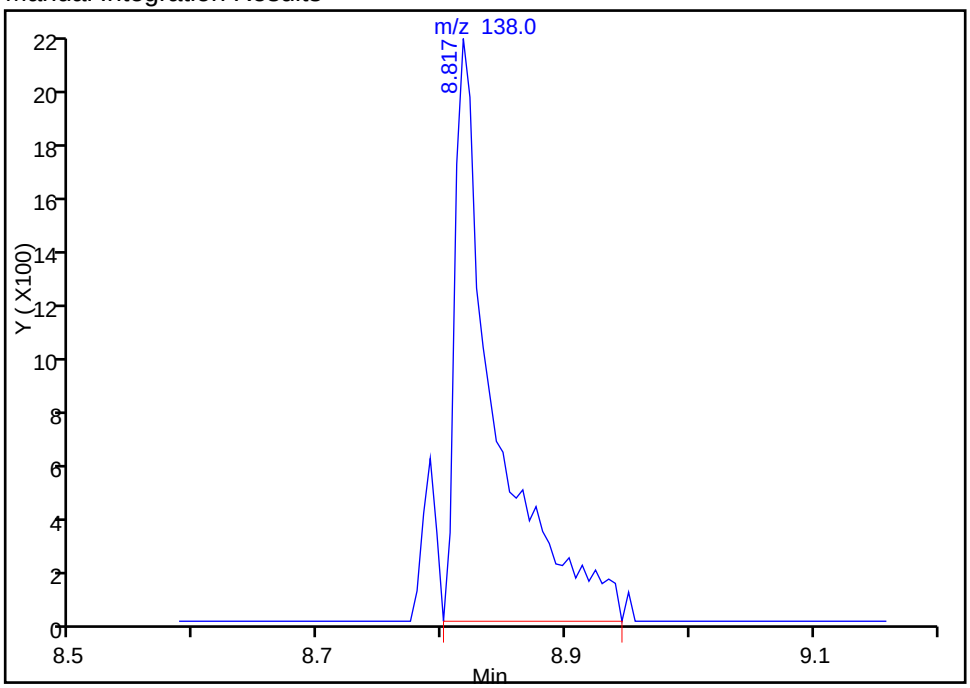
Processing Integration Results

RT: 8.82
Response: 3713
Amount: 0.274039



Manual Integration Results

RT: 8.82
Response: 4913
Amount: 0.236101



Reviewer: pagem, 23-Jul-2014 20:34:55
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08966.D
Lims ID: IC 8270LVI - .5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jul-2014 18:36:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-003
Misc. Info.: IC 8270LVI - .5
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub18

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:18:55 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 23-Jul-2014 20:35:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.842	-0.006	91	139789	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.899	-0.005	98	597678	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.347	-0.005	92	370965	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.570	-0.010	96	609210	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.852	-0.011	97	732471	4.00	4.00	
* 6 Perylene-d12	264	13.540	13.577	-0.037	99	771470	4.00	4.00	
$ 7 2-Fluorophenol	112	4.752	4.746	0.006	85	11034	0.5000	0.4289	
$ 8 Phenol-d5	99	5.564	5.564	0.000	94	14835	0.5000	0.4454	
$ 9 Nitrobenzene-d5	82	6.296	6.306	-0.010	80	16216	0.5000	0.4781	
$ 10 2-Fluorobiphenyl	172	7.786	7.791	-0.005	99	54692	0.5000	0.5113	
$ 11 2,4,6-Tribromophenol	330	8.988	8.993	-0.005	85	12727	0.5000	0.4730	
$ 12 p-Terphenyl-d14	244	10.868	10.868	0.000	97	71889	0.5000	0.4759	
55 1,4-Dioxane	88	3.122	3.117	0.005	84	4511	0.5000	0.5196	
53 N-Nitrosodimethylamine	42	3.432	3.421	0.011	67	4207	0.5000	0.4727	M
52 Pyridine	52	3.491	3.459	0.032	94	3766	0.5000	0.5846	
69 Aniline	93	5.564	5.569	-0.005	98	26233	0.5000	0.4822	
72 Phenol	94	5.574	5.580	-0.006	96	21072	0.5000	0.4597	
74 Bis(2-chloroethyl)ether	93	5.617	5.628	-0.011	96	22085	0.5000	0.5405	
75 2-Chlorophenol	128	5.670	5.670	0.000	90	21621	0.5000	0.4832	
267 n-Decane	57	5.713	5.713	0.000	0	15258	0.5000	0.5200	
78 1,3-Dichlorobenzene	146	5.788	5.793	-0.005	96	27910	0.5000	0.5282	
77 1,4-Dichlorobenzene	146	5.852	5.857	-0.005	96	28483	0.5000	0.5373	
79 Benzyl alcohol	108	5.964	5.970	-0.006	95	13828	0.5000	0.5278	
73 1,2-Dichlorobenzene	146	5.975	5.980	-0.005	98	27401	0.5000	0.5382	
83 2,2'-oxybis[1-chloropropan	45	6.071	6.076	-0.005	89	19230	0.5000	0.5835	
82 2-Methylphenol	108	6.066	6.076	-0.010	93	20096	0.5000	0.5243	
86 Acetophenone	105	6.173	6.183	-0.010	96	32035	0.5000	0.5139	
87 N-Nitrosodi-n-propylamine	70	6.178	6.189	-0.011	74	13205	0.5000	0.5678	
88 4-Methylphenol	108	6.199	6.205	-0.006	98	23040	0.5000	0.5712	
89 Hexachloroethane	117	6.258	6.263	-0.005	87	9104	0.5000	0.5042	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Nitrobenzene	77	6.312	6.322	-0.010	78	19909	0.5000	0.4948	
94 Isophorone	82	6.515	6.525	-0.010	96	35966	0.5000	0.4868	
97 2-Nitrophenol	139	6.579	6.584	-0.005	81	12516	0.5000	0.4361	
99 2,4-Dimethylphenol	107	6.632	6.637	-0.005	89	22539	0.5000	0.5059	
103 Bis(2-chloroethoxy)methane	93	6.696	6.707	-0.011	95	26720	0.5000	0.5090	
106 2,4-Dichlorophenol	162	6.792	6.798	-0.006	85	23652	0.5000	0.4990	
100 1,2,4-Trichlorobenzene	180	6.851	6.851	0.000	92	30769	0.5000	0.5269	
107 Naphthalene	128	6.910	6.915	-0.005	95	82976	0.5000	0.5115	
108 4-Chloroaniline	127	6.963	6.969	-0.006	96	19337	0.5000	0.4737	
110 Hexachlorobutadiene	225	7.017	7.022	-0.005	90	19676	0.5000	0.5181	
117 4-Chloro-3-methylphenol	107	7.375	7.375	0.000	88	18663	0.5000	0.5022	
121 2-Methylnaphthalene	142	7.482	7.487	-0.005	93	56977	0.5000	0.4854	
236 1-Methylnaphthalene	142	7.562	7.567	-0.005	95	53675	0.5000	0.4873	
125 Hexachlorocyclopentadiene	237	7.615	7.615	0.000	90	9521	0.5000	0.4569	
124 1,2,4,5-Tetrachlorobenzene	216	7.620	7.626	-0.006	93	32332	0.5000	0.5207	
127 2,4,6-Trichlorophenol	196	7.722	7.722	0.000	86	17824	0.5000	0.4686	
129 2,4,5-Trichlorophenol	196	7.759	7.759	0.000	93	18485	0.5000	0.4701	
130 1,1'-Biphenyl	154	7.866	7.871	-0.005	93	71230	0.5000	0.4863	
131 2-Chloronaphthalene	162	7.882	7.887	-0.005	92	56235	0.5000	0.5104	
132 2-Nitroaniline	65	7.973	7.978	-0.005	94	7522	0.5000	0.4480	
134 Dimethyl phthalate	163	8.123	8.133	-0.010	98	60926	0.5000	0.5237	
139 1,3-Dinitrobenzene	168	8.144	8.155	-0.011	86	8098	0.5000	0.4803	
135 2,6-Dinitrotoluene	165	8.171	8.176	-0.005	86	12765	0.5000	0.4601	
137 Acenaphthylene	152	8.224	8.229	-0.005	97	81890	0.5000	0.4921	
140 3-Nitroaniline	138	8.315	8.331	-0.016	82	7677	0.5000	0.5942	
141 Acenaphthene	153	8.368	8.374	-0.006	93	56283	0.5000	0.5385	
142 2,4-Dinitrophenol	184	8.395	8.406	-0.011	81	5128	1.00	1.15	
143 4-Nitrophenol	109	8.481	8.486	-0.006	70	7108	1.00	0.9871	
144 2,4-Dinitrotoluene	165	8.502	8.507	-0.005	90	15050	0.5000	0.4298	
145 Dibenzofuran	168	8.507	8.512	-0.005	97	79244	0.5000	0.4839	
147 2,3,4,6-Tetrachlorophenol	232	8.619	8.619	0.000	66	15820	0.5000	0.4507	
149 Diethyl phthalate	149	8.700	8.710	-0.010	99	56927	0.5000	0.5108	
240 Hexadecane	57	8.716	8.721	-0.005	88	20540	0.5000	0.5111	
151 Fluorene	166	8.790	8.796	-0.006	94	64398	0.5000	0.4961	
152 4-Chlorophenyl phenyl ethe	204	8.790	8.796	-0.006	68	34345	0.5000	0.5009	
153 4-Nitroaniline	138	8.817	8.828	-0.011	94	7944	0.5000	0.5974	
154 4,6-Dinitro-2-methylphenol	198	8.833	8.844	-0.011	97	11865	1.00	0.9054	
159 1,2-Diphenylhydrazine	77	8.919	8.924	-0.005	95	38201	0.5000	0.5215	
158 Azobenzene	77	8.919	8.924	-0.005	91	38201	0.5000	0.5331	
164 4-Bromophenyl phenyl ether	248	9.191	9.196	-0.005	54	23106	0.5000	0.5090	
168 Hexachlorobenzene	284	9.239	9.244	-0.005	94	30615	0.5000	0.5217	
172 Pentachlorophenol	266	9.410	9.415	-0.005	96	21823	1.00	0.9078	
269 n-Octadecane	57	9.474	9.474	0.000	0	18817	0.5000	0.5115	
177 Phenanthrene	178	9.581	9.586	-0.005	95	87976	0.5000	0.4573	
180 Anthracene	178	9.618	9.629	-0.011	96	87793	0.5000	0.4577	
181 Carbazole	167	9.757	9.757	0.000	95	67656	0.5000	0.5222	
184 Di-n-butyl phthalate	149	10.040	10.046	-0.006	99	89058	0.5000	0.4444	
191 Fluoranthene	202	10.553	10.559	-0.006	97	97546	0.5000	0.4587	
193 Pyrene	202	10.740	10.746	-0.006	98	100776	0.5000	0.4556	
200 Butyl benzyl phthalate	149	11.291	11.296	-0.005	90	35509	0.5000	0.4875	
205 Benzo[a]anthracene	228	11.830	11.835	-0.005	97	101867	0.5000	0.5310	
206 Bis(2-ethylhexyl) phthalat	149	11.857	11.862	-0.005	90	51214	0.5000	0.5025	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
207 Chrysene	228	11.867	11.873	-0.006	96	96787	0.5000	0.4455	
208 Di-n-octyl phthalate	149	12.594	12.599	-0.005	96	80580	0.5000	0.4836	
209 Benzo[b]fluoranthene	252	13.053	13.064	-0.011	95	96401	0.5000	0.4756	
211 Benzo[k]fluoranthene	252	13.086	13.101	-0.015	98	107516	0.5000	0.5149	
213 Benzo[a]pyrene	252	13.459	13.475	-0.016	75	92977	0.5000	0.4989	
215 Indeno[1,2,3-cd]pyrene	276	14.945	14.961	-0.016	97	123732	0.5000	0.5046	
216 Dibenz(a,h)anthracene	278	14.971	14.993	-0.022	91	103965	0.5000	0.5091	
217 Benzo[g,h,i]perylene	276	15.297	15.319	-0.021	97	107886	0.5000	0.5420	
S 220 Total Cresols	1				0			1.10	
S 218 3 & 4 Methylphenol	108				0		0.5000	0.5712	
S 219 3-Methylphenol	1				0		0.5000	0.5712	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_8270LV_WRK_00061	Amount Added:	1.00	Units: mL	
MB_LLIS_WRK_00034	Amount Added:	20.00	Units: uL	Run Reagent

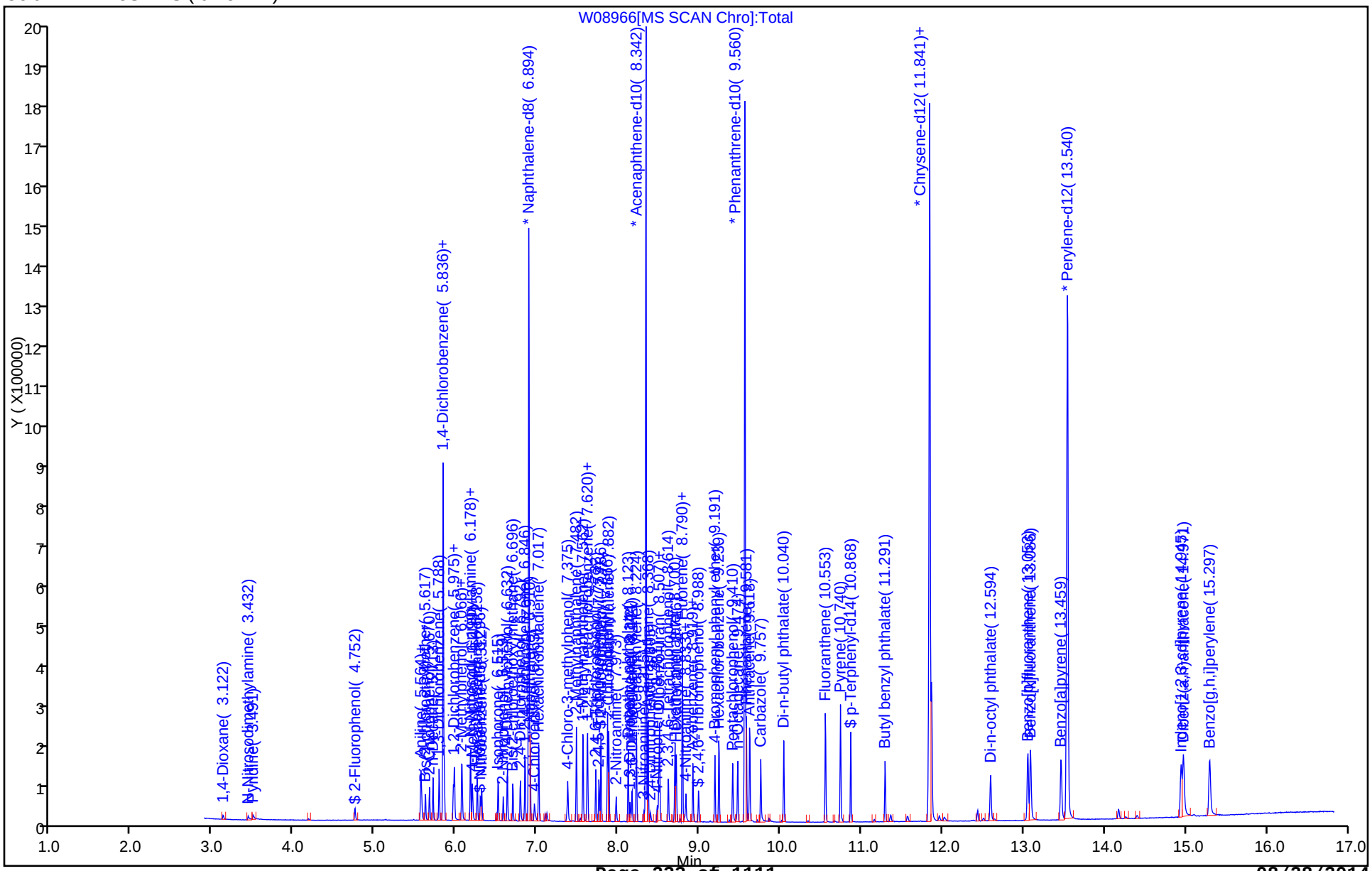
Report Date: 24-Jul-2014 12:18:56 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08966.D

Injection Date:	23-Jul-2014 18:36:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC 8270LVI - .5			Worklist Smp#:	4
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

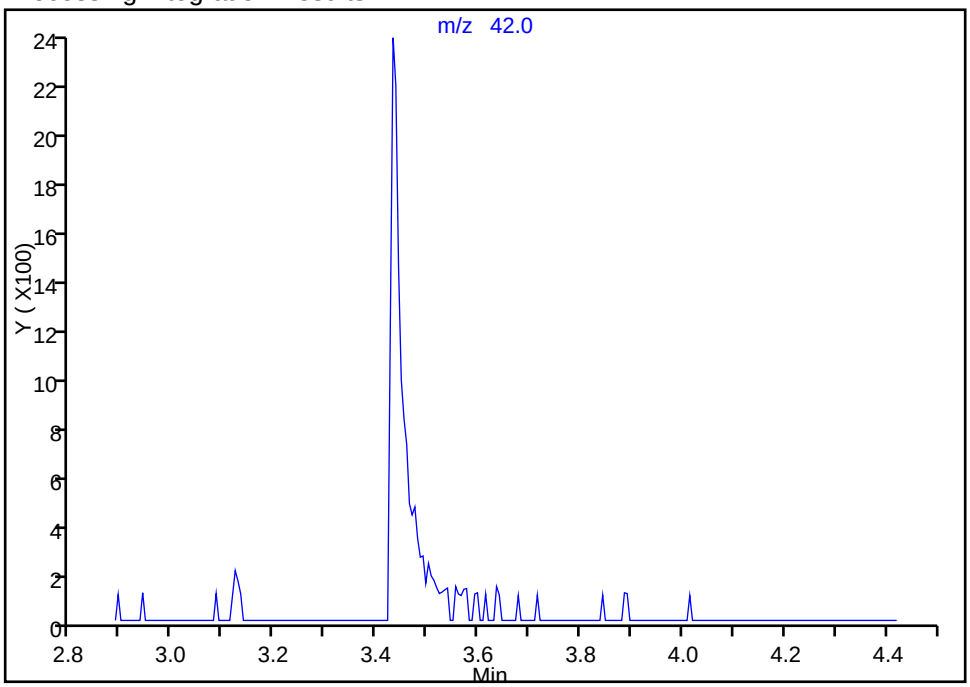
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08966.D
Injection Date: 23-Jul-2014 18:36:30 Instrument ID: HP5973W
Lims ID: IC 8270LVI - .5
Client ID:
Operator ID: MKP ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

53 N-Nitrosodimethylamine, CAS: 62-75-9

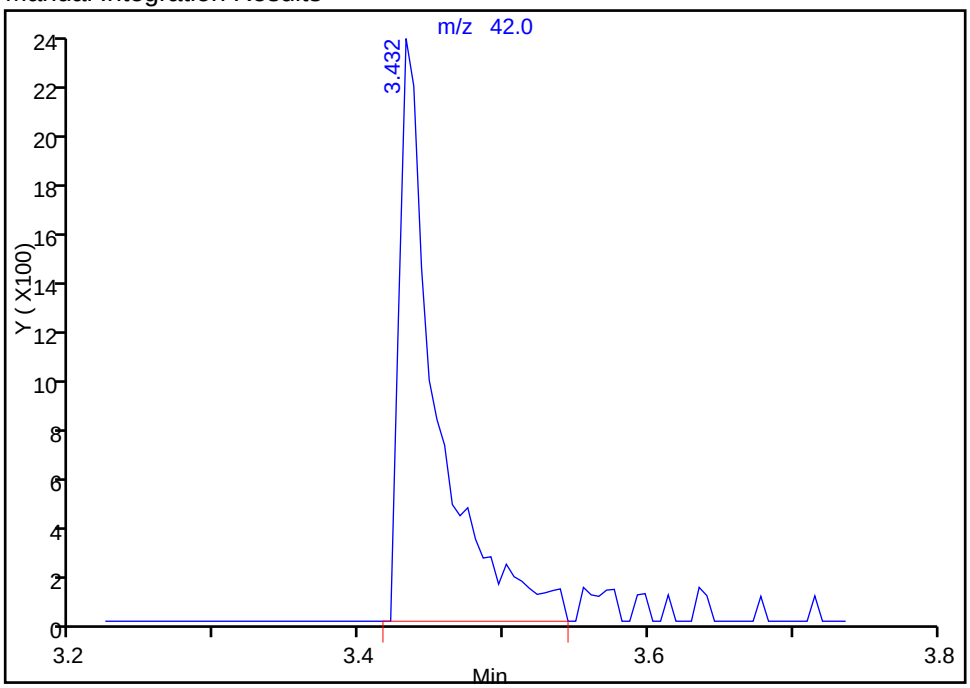
Processing Integration Results

Not Detected
Expected RT: 3.42



Manual Integration Results

RT: 3.43
Response: 4207
Amount: 0.472719



Reviewer: pagem, 24-Jul-2014 11:39:02
Audit Action: Manually Integrated
Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08967.D
Lims ID: IC 8270LVI - 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jul-2014 19:01:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-005
Misc. Info.: IC 8270LVI - 2
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub18

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:18:57 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 23-Jul-2014 20:36:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.841	5.842	-0.001	90	153794	4.00	4.00	
* 2 Naphthalene-d8	136	6.899	6.899	0.000	98	613456	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.347	-0.005	91	383620	4.00	4.00	
* 4 Phenanthrene-d10	188	9.565	9.570	-0.005	96	634493	4.00	4.00	
* 5 Chrysene-d12	240	11.846	11.852	-0.006	96	757903	4.00	4.00	
* 6 Perylene-d12	264	13.545	13.577	-0.032	99	824663	4.00	4.00	
$ 7 2-Fluorophenol	112	4.746	4.746	0.000	84	51025	2.00	1.80	
$ 8 Phenol-d5	99	5.558	5.564	-0.006	94	71830	2.00	1.96	
$ 9 Nitrobenzene-d5	82	6.301	6.306	-0.005	79	70638	2.00	2.03	
$ 10 2-Fluorobiphenyl	172	7.786	7.791	-0.005	99	222085	2.00	1.96	
$ 11 2,4,6-Tribromophenol	330	8.993	8.993	0.000	85	55769	2.00	1.99	
$ 12 p-Terphenyl-d14	244	10.869	10.868	0.001	97	306839	2.00	2.00	
55 1,4-Dioxane	88	3.117	3.117	0.000	85	22082	2.00	2.12	
53 N-Nitrosodimethylamine	42	3.421	3.421	0.000	73	18392	2.00	1.88	
52 Pyridine	52	3.470	3.459	0.011	91	23469	2.00	1.72	
69 Aniline	93	5.564	5.569	-0.005	97	129497	2.00	2.16	
72 Phenol	94	5.569	5.580	-0.011	96	101075	2.00	2.00	
74 Bis(2-chloroethyl)ether	93	5.622	5.628	-0.006	95	95707	2.00	2.13	
75 2-Chlorophenol	128	5.671	5.670	0.001	89	99620	2.00	2.02	
267 n-Decane	57	5.713	5.713	0.000	0	66389	2.00	2.06	
78 1,3-Dichlorobenzene	146	5.788	5.793	-0.005	96	121939	2.00	2.10	
77 1,4-Dichlorobenzene	146	5.852	5.857	-0.005	97	123370	2.00	2.12	
79 Benzyl alcohol	108	5.964	5.970	-0.006	95	62802	2.00	2.18	
73 1,2-Dichlorobenzene	146	5.980	5.980	0.000	97	120048	2.00	2.14	
83 2,2'-oxybis[1-chloropropan	45	6.071	6.076	-0.005	91	78733	2.00	2.17	
82 2-Methylphenol	108	6.071	6.076	-0.005	93	89720	2.00	2.13	
86 Acetophenone	105	6.178	6.183	-0.005	94	137059	2.00	2.37	
87 N-Nitrosodi-n-propylamine	70	6.183	6.189	-0.006	71	55114	2.00	2.15	
88 4-Methylphenol	108	6.199	6.205	-0.006	98	96282	2.00	2.17	
89 Hexachloroethane	117	6.258	6.263	-0.005	89	41432	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Nitrobenzene	77	6.317	6.322	-0.005	77	85441	2.00	2.07	
94 Isophorone	82	6.520	6.525	-0.005	95	154118	2.00	2.03	
97 2-Nitrophenol	139	6.584	6.584	0.000	78	59079	2.00	2.01	
99 2,4-Dimethylphenol	107	6.632	6.637	-0.005	88	93303	2.00	2.04	
103 Bis(2-chloroethoxy)methane	93	6.702	6.707	-0.005	94	110010	2.00	2.04	
106 2,4-Dichlorophenol	162	6.792	6.798	-0.006	85	101764	2.00	2.09	
100 1,2,4-Trichlorobenzene	180	6.851	6.851	0.000	92	126115	2.00	2.10	
107 Naphthalene	128	6.915	6.915	0.000	96	330266	2.00	2.38	
108 4-Chloroaniline	127	6.963	6.969	-0.006	96	101434	2.00	1.83	
110 Hexachlorobutadiene	225	7.017	7.022	-0.005	90	81856	2.00	2.10	
117 4-Chloro-3-methylphenol	107	7.375	7.375	0.000	87	78322	2.00	2.05	
121 2-Methylnaphthalene	142	7.487	7.487	0.000	93	237500	2.00	2.00	
236 1-Methylnaphthalene	142	7.567	7.567	0.000	95	220668	2.00	1.98	
125 Hexachlorocyclopentadiene	237	7.615	7.615	0.000	92	54180	2.00	1.80	
124 1,2,4,5-Tetrachlorobenzene	216	7.620	7.626	-0.006	94	136693	2.00	2.13	
127 2,4,6-Trichlorophenol	196	7.722	7.722	0.000	85	81135	2.00	2.06	
129 2,4,5-Trichlorophenol	196	7.759	7.759	0.000	92	83295	2.00	2.05	
130 1,1'-Biphenyl	154	7.866	7.871	-0.005	94	289768	2.00	2.01	
131 2-Chloronaphthalene	162	7.882	7.887	-0.005	93	233262	2.00	1.97	
132 2-Nitroaniline	65	7.973	7.978	-0.005	93	33865	2.00	1.95	
134 Dimethyl phthalate	163	8.128	8.133	-0.005	98	246723	2.00	2.05	
139 1,3-Dinitrobenzene	168	8.149	8.155	-0.006	83	39926	2.00	1.83	
135 2,6-Dinitrotoluene	165	8.171	8.176	-0.005	86	56772	2.00	1.98	
137 Acenaphthylene	152	8.224	8.229	-0.005	97	332414	2.00	2.04	
140 3-Nitroaniline	138	8.320	8.331	-0.011	86	29406	2.00	1.95	
141 Acenaphthene	153	8.368	8.374	-0.006	93	227975	2.00	2.11	
142 2,4-Dinitrophenol	184	8.400	8.406	-0.006	81	39080	4.00	3.40	
143 4-Nitrophenol	109	8.475	8.486	-0.011	70	35743	4.00	3.76	
144 2,4-Dinitrotoluene	165	8.502	8.507	-0.005	91	74752	2.00	2.06	
145 Dibenzofuran	168	8.507	8.512	-0.005	97	322318	2.00	2.03	
147 2,3,4,6-Tetrachlorophenol	232	8.619	8.619	0.000	66	72772	2.00	2.00	
149 Diethyl phthalate	149	8.705	8.710	-0.005	99	231582	2.00	1.96	
240 Hexadecane	57	8.716	8.721	-0.005	87	86040	2.00	1.91	
151 Fluorene	166	8.790	8.796	-0.006	94	258457	2.00	2.00	
152 4-Chlorophenyl phenyl ethe	204	8.790	8.796	-0.006	76	143830	2.00	1.97	
153 4-Nitroaniline	138	8.822	8.828	-0.006	23	19585	2.00	1.72	
154 4,6-Dinitro-2-methylphenol	198	8.838	8.844	-0.006	96	74898	4.00	3.42	
159 1,2-Diphenylhydrazine	77	8.924	8.924	0.000	94	158054	2.00	2.09	
158 Azobenzene	77	8.924	8.924	0.000	89	158054	2.00	2.12	
164 4-Bromophenyl phenyl ether	248	9.191	9.196	-0.005	54	96850	2.00	2.05	
168 Hexachlorobenzene	284	9.244	9.244	0.000	94	126635	2.00	2.07	
172 Pentachlorophenol	266	9.410	9.415	-0.005	95	122727	4.00	4.05	
269 n-Octadecane	57	9.474	9.474	0.000	0	81001	2.00	2.11	
177 Phenanthrene	178	9.581	9.586	-0.005	96	363168	2.00	2.08	
180 Anthracene	178	9.624	9.629	-0.005	96	372109	2.00	2.08	
181 Carbazole	167	9.757	9.757	0.000	95	253344	2.00	2.61	
184 Di-n-butyl phthalate	149	10.040	10.046	-0.006	99	379480	2.00	2.10	
191 Fluoranthene	202	10.559	10.559	0.000	96	412746	2.00	2.07	
193 Pyrene	202	10.740	10.746	-0.006	98	425570	2.00	2.07	
200 Butyl benzyl phthalate	149	11.291	11.296	-0.005	91	156862	2.00	2.08	
205 Benzo[a]anthracene	228	11.830	11.835	-0.005	97	423271	2.00	2.13	
206 Bis(2-ethylhexyl) phthalat	149	11.862	11.862	0.000	89	222919	2.00	2.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
207 Chrysene	228	11.868	11.873	-0.005	96	404215	2.00	2.07	
208 Di-n-octyl phthalate	149	12.594	12.599	-0.005	97	368854	2.00	2.14	
209 Benzo[b]fluoranthene	252	13.054	13.064	-0.010	96	450383	2.00	2.08	
211 Benzo[k]fluoranthene	252	13.091	13.101	-0.010	98	477285	2.00	1.89	
213 Benzo[a]pyrene	252	13.465	13.475	-0.010	75	425160	2.00	2.13	
215 Indeno[1,2,3-cd]pyrene	276	14.950	14.961	-0.011	97	541407	2.00	2.07	
216 Dibenz(a,h)anthracene	278	14.982	14.993	-0.011	92	474045	2.00	2.17	
217 Benzo[g,h,i]perylene	276	15.303	15.319	-0.015	97	449367	2.00	2.11	
S 220 Total Cresols	1				0			4.30	
S 218 3 & 4 Methylphenol	108				0		2.00	2.17	
S 219 3-Methylphenol	1				0		2.00	2.17	

Reagents:

MB_8270LV_WRK_00062	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00034	Amount Added: 20.00	Units: uL	Run Reagent

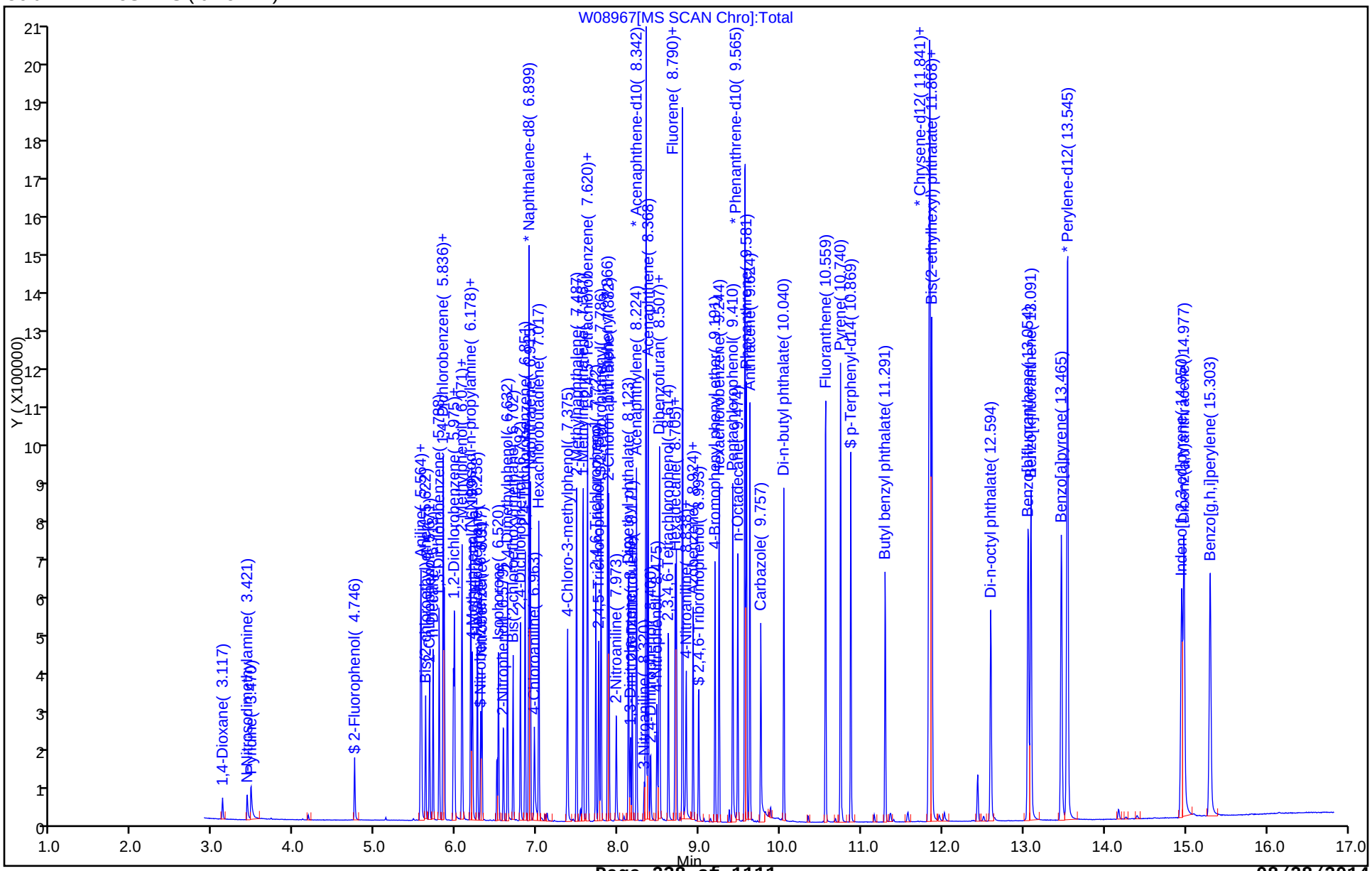
Report Date: 24-Jul-2014 12:18:59 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08967.D

Injection Date:	23-Jul-2014 19:01:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC 8270LVI - 2			Worklist Smp#:	5
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08968.D
Lims ID: ICIS 8270LVI - 5
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 23-Jul-2014 19:27:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-006
Misc. Info.: ICIS 8270LVI - 5
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub18

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:00 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 23-Jul-2014 20:31:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.841	5.841	0.000	90	176487	4.00	4.00	
* 2 Naphthalene-d8	136	6.899	6.899	0.000	98	639954	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	398785	4.00	4.00	
* 4 Phenanthrene-d10	188	9.565	9.565	0.000	96	665653	4.00	4.00	
* 5 Chrysene-d12	240	11.846	11.846	0.000	96	777571	4.00	4.00	
* 6 Perylene-d12	264	13.545	13.545	0.000	99	858757	4.00	4.00	
$ 7 2-Fluorophenol	112	4.746	4.746	0.000	84	154827	5.00	4.77	
$ 8 Phenol-d5	99	5.564	5.564	0.000	93	231090	5.00	5.50	
$ 9 Nitrobenzene-d5	82	6.306	6.306	0.000	80	185753	5.00	5.11	
$ 10 2-Fluorobiphenyl	172	7.791	7.791	0.000	99	554541	5.00	5.00	
$ 11 2,4,6-Tribromophenol	330	8.993	8.993	0.000	84	155289	5.00	5.28	
$ 12 p-Terphenyl-d14	244	10.868	10.868	0.000	97	745364	5.00	5.14	
55 1,4-Dioxane	88	3.117	3.117	0.000	85	61820	5.00	4.77	
53 N-Nitrosodimethylamine	42	3.421	3.421	0.000	81	57211	5.00	5.09	
52 Pyridine	52	3.459	3.459	0.000	94	88983	5.00	4.70	
69 Aniline	93	5.569	5.569	0.000	96	360840	5.00	5.25	
72 Phenol	94	5.580	5.580	0.000	96	313825	5.00	5.42	
74 Bis(2-chloroethyl)ether	93	5.628	5.628	0.000	95	257207	5.00	4.99	
75 2-Chlorophenol	128	5.670	5.670	0.000	90	296856	5.00	5.26	
267 n-Decane	57	5.713	5.713	0.000	0	185097	5.00	5.00	
78 1,3-Dichlorobenzene	146	5.793	5.793	0.000	96	336529	5.00	5.04	
77 1,4-Dichlorobenzene	146	5.857	5.857	0.000	96	344494	5.00	5.15	
79 Benzyl alcohol	108	5.970	5.970	0.000	96	169842	5.00	5.14	
73 1,2-Dichlorobenzene	146	5.980	5.980	0.000	99	334617	5.00	5.21	
83 2,2'-oxybis[1-chloropropan	45	6.076	6.076	0.000	73	200419	5.00	4.82	
82 2-Methylphenol	108	6.076	6.076	0.000	93	246433	5.00	5.09	
86 Acetophenone	105	6.183	6.183	0.000	95	351625	5.00	5.45	
87 N-Nitrosodi-n-propylamine	70	6.189	6.189	0.000	70	145018	5.00	4.94	
88 4-Methylphenol	108	6.205	6.205	0.000	97	251405	5.00	4.94	
89 Hexachloroethane	117	6.263	6.263	0.000	85	116209	5.00	5.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Nitrobenzene	77	6.322	6.322	0.000	78	221719	5.00	5.15	
94 Isophorone	82	6.525	6.525	0.000	95	398651	5.00	5.04	
97 2-Nitrophenol	139	6.584	6.584	0.000	79	161365	5.00	5.25	
99 2,4-Dimethylphenol	107	6.637	6.637	0.000	88	240176	5.00	5.03	
103 Bis(2-chloroethoxy)methane	93	6.707	6.707	0.000	94	287325	5.00	5.11	
106 2,4-Dichlorophenol	162	6.798	6.798	0.000	85	259512	5.00	5.11	
100 1,2,4-Trichlorobenzene	180	6.851	6.851	0.000	92	320353	5.00	5.12	
107 Naphthalene	128	6.915	6.915	0.000	97	780779	5.00	5.56	
108 4-Chloroaniline	127	6.969	6.969	0.000	96	300582	5.00	4.93	
110 Hexachlorobutadiene	225	7.022	7.022	0.000	89	211045	5.00	5.19	
117 4-Chloro-3-methylphenol	107	7.375	7.375	0.000	87	209566	5.00	5.27	
121 2-Methylnaphthalene	142	7.487	7.487	0.000	91	579132	5.00	5.02	
236 1-Methylnaphthalene	142	7.567	7.567	0.000	96	551485	5.00	5.10	
125 Hexachlorocyclopentadiene	237	7.615	7.615	0.000	92	162094	5.00	4.87	
124 1,2,4,5-Tetrachlorobenzene	216	7.626	7.626	0.000	93	346309	5.00	5.19	
127 2,4,6-Trichlorophenol	196	7.722	7.722	0.000	86	213815	5.00	5.23	
129 2,4,5-Trichlorophenol	196	7.759	7.759	0.000	92	225739	5.00	5.34	
130 1,1'-Biphenyl	154	7.871	7.871	0.000	95	690799	5.00	5.09	
131 2-Chloronaphthalene	162	7.887	7.887	0.000	93	573821	5.00	4.94	
132 2-Nitroaniline	65	7.978	7.978	0.000	93	92534	5.00	5.13	
134 Dimethyl phthalate	163	8.133	8.133	0.000	98	625609	5.00	5.00	
139 1,3-Dinitrobenzene	168	8.155	8.155	0.000	83	113698	5.00	4.79	
135 2,6-Dinitrotoluene	165	8.176	8.176	0.000	84	156105	5.00	5.23	
137 Acenaphthylene	152	8.229	8.229	0.000	97	776180	5.00	4.98	
140 3-Nitroaniline	138	8.331	8.331	0.000	84	84471	5.00	4.69	
141 Acenaphthene	153	8.374	8.374	0.000	94	557816	5.00	4.96	
142 2,4-Dinitrophenol	184	8.406	8.406	0.000	81	146935	10.0	9.60	
143 4-Nitrophenol	109	8.486	8.486	0.000	69	101642	10.0	9.83	
144 2,4-Dinitrotoluene	165	8.507	8.507	0.000	88	205410	5.00	5.46	
145 Dibenzofuran	168	8.512	8.512	0.000	98	758185	5.00	5.03	
147 2,3,4,6-Tetrachlorophenol	232	8.619	8.619	0.000	66	198222	5.00	5.25	
149 Diethyl phthalate	149	8.710	8.710	0.000	99	579953	5.00	5.02	
240 Hexadecane	57	8.721	8.721	0.000	86	216742	5.00	4.99	
151 Fluorene	166	8.796	8.796	0.000	95	628969	5.00	5.06	
152 4-Chlorophenyl phenyl ethe	204	8.796	8.796	0.000	70	350437	5.00	4.98	
153 4-Nitroaniline	138	8.828	8.828	0.000	95	54284	5.00	4.95	
154 4,6-Dinitro-2-methylphenol	198	8.844	8.844	0.000	96	242054	10.0	9.70	
159 1,2-Diphenylhydrazine	77	8.924	8.924	0.000	94	399340	5.00	5.07	
158 Azobenzene	77	8.924	8.924	0.000	90	399340	5.00	5.10	
164 4-Bromophenyl phenyl ether	248	9.196	9.196	0.000	53	252766	5.00	5.10	
168 Hexachlorobenzene	284	9.244	9.244	0.000	94	334429	5.00	5.22	
172 Pentachlorophenol	266	9.415	9.415	0.000	95	354628	10.0	10.8	
269 n-Octadecane	57	9.474	9.474	0.000	0	211519	5.00	5.26	
177 Phenanthrene	178	9.586	9.586	0.000	96	867838	5.00	5.20	
180 Anthracene	178	9.629	9.629	0.000	97	878553	5.00	5.16	
181 Carbazole	167	9.757	9.757	0.000	95	522459	5.00	5.39	
184 Di-n-butyl phthalate	149	10.046	10.046	0.000	99	883036	5.00	5.22	
191 Fluoranthene	202	10.559	10.559	0.000	97	975118	5.00	5.18	
193 Pyrene	202	10.746	10.746	0.000	95	994907	5.00	5.20	
200 Butyl benzyl phthalate	149	11.296	11.296	0.000	91	406241	5.00	5.25	
205 Benzo[a]anthracene	228	11.835	11.835	0.000	98	1057905	5.00	5.20	
206 Bis(2-ethylhexyl) phthalat	149	11.862	11.862	0.000	90	580368	5.00	5.36	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
207 Chrysene	228	11.873	11.873	0.000	90	963918	5.00	5.28	
208 Di-n-octyl phthalate	149	12.599	12.599	0.000	96	971749	5.00	5.49	
209 Benzo[b]fluoranthene	252	13.064	13.064	0.000	96	1134587	5.00	5.03	
211 Benzo[k]fluoranthene	252	13.101	13.101	0.000	97	1231255	5.00	5.04	
213 Benzo[a]pyrene	252	13.475	13.475	0.000	77	1111537	5.00	5.36	
215 Indeno[1,2,3-cd]pyrene	276	14.961	14.961	0.000	97	1386296	5.00	5.08	M
216 Dibenz(a,h)anthracene	278	14.993	14.993	0.000	90	1207641	5.00	5.31	
217 Benzo[g,h,i]perylene	276	15.319	15.319	0.000	97	1124848	5.00	5.08	
S 220 Total Cresols	1				0			10.0	
S 218 3 & 4 Methylphenol	108				0		5.00	4.94	
S 219 3-Methylphenol	1				0		5.00	4.94	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_8270LV_WRK_00063	Amount Added:	1.00	Units: mL	
MB_LLIS_WRK_00034	Amount Added:	20.00	Units: uL	Run Reagent

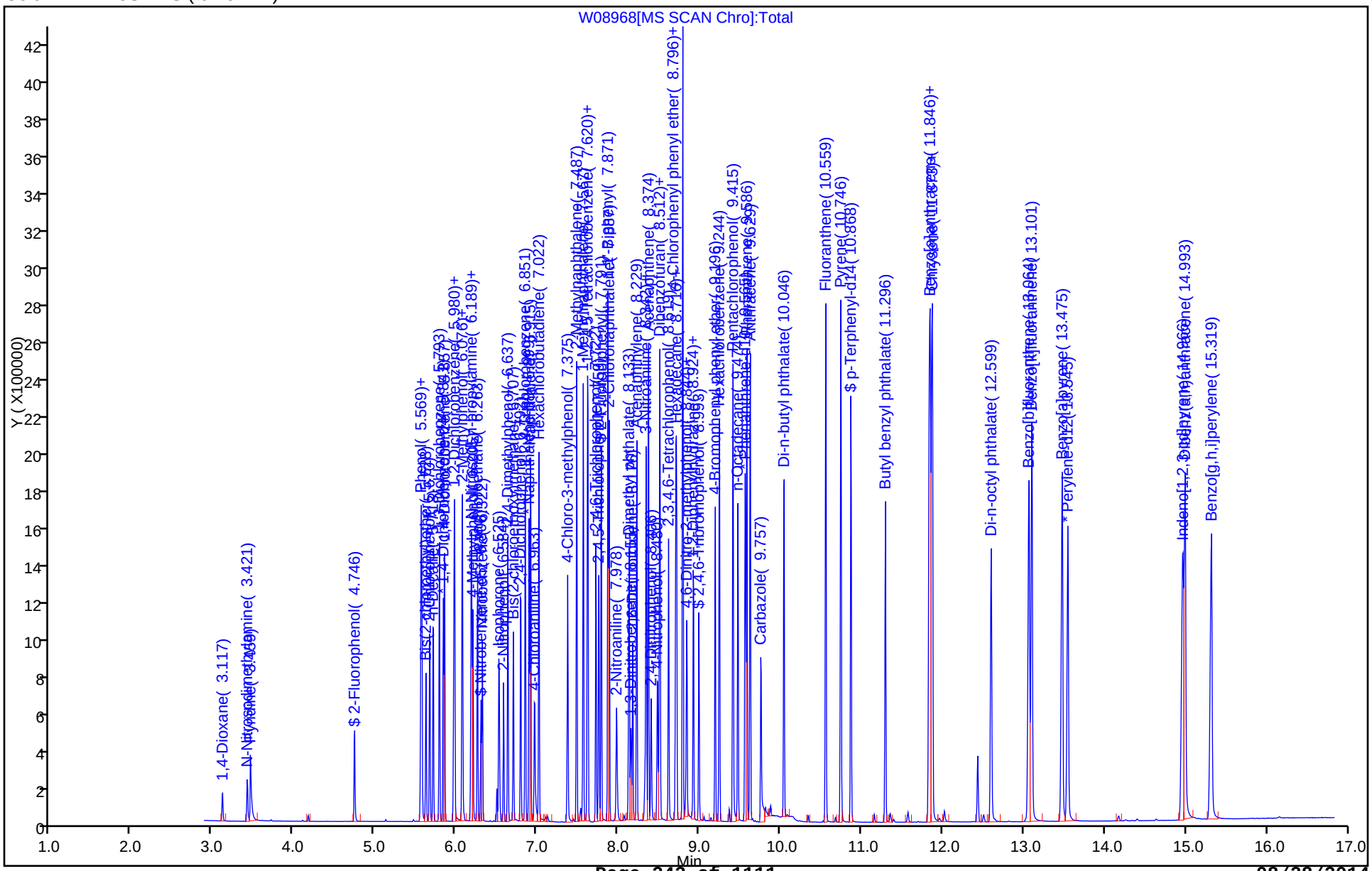
Report Date: 24-Jul-2014 12:19:01 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08968.D

Injection Date:	23-Jul-2014 19:27:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	ICIS 8270LVI - 5			Worklist Smp#:	6
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

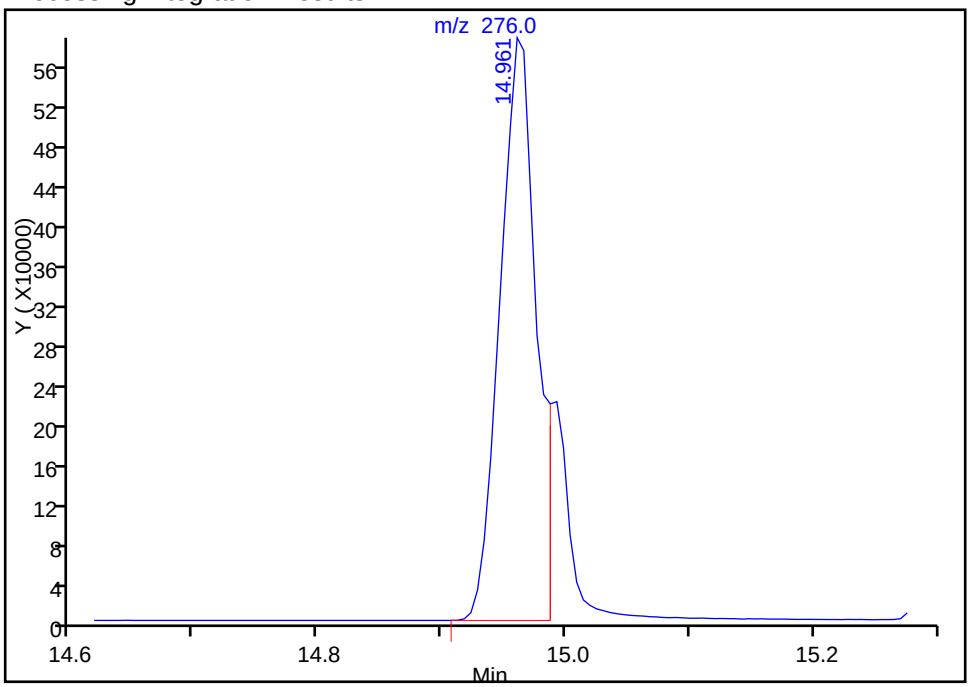
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08968.D
Injection Date: 23-Jul-2014 19:27:30 Instrument ID: HP5973W
Lims ID: ICIS 8270LVI - 5
Client ID:
Operator ID: MKP ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

215 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

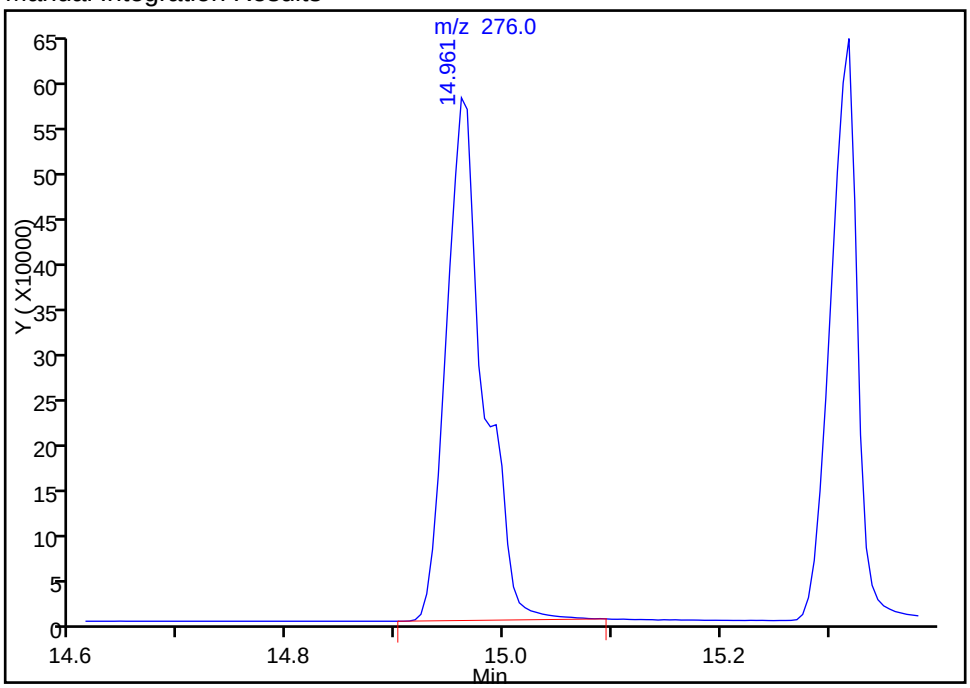
Processing Integration Results

RT: 14.96
Response: 1201622
Amount: 4.504128



Manual Integration Results

RT: 14.96
Response: 1386296
Amount: 5.078823



Reviewer: pagem, 23-Jul-2014 20:32:05
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08969.D
Lims ID: IC 8270LVI - 8
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jul-2014 19:52:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-007
Misc. Info.: IC 8270LVI - 8
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub18

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:04 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 23-Jul-2014 20:37:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.841	5.841	0.000	90	187906	4.00	4.00	
* 2 Naphthalene-d8	136	6.899	6.899	0.000	98	657604	4.00	4.00	
* 3 Acenaphthene-d10	164	8.347	8.342	0.005	92	406522	4.00	4.00	
* 4 Phenanthrene-d10	188	9.570	9.565	0.005	96	697493	4.00	4.00	
* 5 Chrysene-d12	240	11.851	11.846	0.005	96	813186	4.00	4.00	
* 6 Perylene-d12	264	13.550	13.545	0.005	99	896625	4.00	4.00	
$ 7 2-Fluorophenol	112	4.746	4.746	0.000	84	303340	8.00	8.77	
$ 8 Phenol-d5	99	5.569	5.564	0.005	93	378987	8.00	8.46	
$ 9 Nitrobenzene-d5	82	6.312	6.306	0.006	79	305208	8.00	8.18	
$ 10 2-Fluorobiphenyl	172	7.791	7.791	0.000	97	833941	8.00	7.90	
$ 11 2,4,6-Tribromophenol	330	8.999	8.993	0.006	84	259691	8.00	8.43	
$ 12 p-Terphenyl-d14	244	10.874	10.868	0.006	97	1102325	8.00	7.86	
55 1,4-Dioxane	88	3.117	3.117	0.000	85	109009	8.00	7.36	
53 N-Nitrosodimethylamine	42	3.427	3.421	0.006	81	98368	8.00	8.22	
52 Pyridine	52	3.459	3.459	0.000	91	176929	8.00	8.08	
69 Aniline	93	5.574	5.569	0.005	94	588932	8.00	8.05	
72 Phenol	94	5.585	5.580	0.005	95	511319	8.00	8.30	
74 Bis(2-chloroethyl)ether	93	5.633	5.628	0.005	96	417081	8.00	7.59	
75 2-Chlorophenol	128	5.676	5.670	0.006	89	484408	8.00	8.05	
267 n-Decane	57	5.719	5.713	0.006	0	308014	8.00	7.81	
78 1,3-Dichlorobenzene	146	5.793	5.793	0.000	96	555405	8.00	7.82	
77 1,4-Dichlorobenzene	146	5.857	5.857	0.000	96	558132	8.00	7.83	
79 Benzyl alcohol	108	5.975	5.970	0.005	96	277796	8.00	7.89	
73 1,2-Dichlorobenzene	146	5.980	5.980	0.000	99	533034	8.00	7.79	
83 2,2'-oxybis[1-chloropropan	45	6.076	6.076	0.000	76	321907	8.00	7.27	
82 2-Methylphenol	108	6.082	6.076	0.006	93	392600	8.00	7.62	
86 Acetophenone	105	6.189	6.183	0.006	95	558990	8.00	8.21	
87 N-Nitrosodi-n-propylamine	70	6.199	6.189	0.010	69	234341	8.00	7.50	
88 4-Methylphenol	108	6.210	6.205	0.005	97	399317	8.00	7.36	
89 Hexachloroethane	117	6.263	6.263	0.000	85	192375	8.00	7.93	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Nitrobenzene	77	6.328	6.322	0.006	77	355101	8.00	8.02	
94 Isophorone	82	6.536	6.525	0.011	95	653073	8.00	8.03	
97 2-Nitrophenol	139	6.589	6.584	0.005	78	270088	8.00	8.55	
99 2,4-Dimethylphenol	107	6.643	6.637	0.006	88	391452	8.00	7.99	
103 Bis(2-chloroethoxy)methane	93	6.707	6.707	0.000	95	459789	8.00	7.96	
106 2,4-Dichlorophenol	162	6.798	6.798	0.000	86	425192	8.00	8.15	
100 1,2,4-Trichlorobenzene	180	6.851	6.851	0.000	93	507415	8.00	7.90	
107 Naphthalene	128	6.921	6.915	0.006	98	1119788	8.00	7.81	
108 4-Chloroaniline	127	6.969	6.969	0.000	96	511630	8.00	8.06	
110 Hexachlorobutadiene	225	7.022	7.022	0.000	89	334469	8.00	8.00	
117 4-Chloro-3-methylphenol	107	7.380	7.375	0.005	87	331582	8.00	8.11	
121 2-Methylnaphthalene	142	7.487	7.487	0.000	91	878514	8.00	8.03	
236 1-Methylnaphthalene	142	7.572	7.567	0.005	96	819234	8.00	7.94	
125 Hexachlorocyclopentadiene	237	7.620	7.615	0.005	91	281818	8.00	8.19	
124 1,2,4,5-Tetrachlorobenzene	216	7.626	7.626	0.000	94	540453	8.00	7.94	
127 2,4,6-Trichlorophenol	196	7.727	7.722	0.005	86	350507	8.00	8.41	
129 2,4,5-Trichlorophenol	196	7.759	7.759	0.000	92	367672	8.00	8.53	
130 1,1'-Biphenyl	154	7.877	7.871	0.006	95	989070	8.00	7.89	
131 2-Chloronaphthalene	162	7.893	7.887	0.006	93	871971	8.00	7.98	
132 2-Nitroaniline	65	7.984	7.978	0.006	93	156570	8.00	8.51	
134 Dimethyl phthalate	163	8.144	8.133	0.011	98	1006755	8.00	7.90	
139 1,3-Dinitrobenzene	168	8.165	8.155	0.010	84	197779	8.00	8.01	
135 2,6-Dinitrotoluene	165	8.187	8.176	0.011	83	261395	8.00	8.60	
137 Acenaphthylene	152	8.229	8.229	0.000	96	1158171	8.00	8.00	
140 3-Nitroaniline	138	8.342	8.331	0.011	84	169553	8.00	8.06	
141 Acenaphthene	153	8.374	8.374	0.000	94	842524	8.00	7.36	
142 2,4-Dinitrophenol	184	8.411	8.406	0.005	80	283394	16.0	16.3	
143 4-Nitrophenol	109	8.491	8.486	0.005	69	172995	16.0	16.2	
144 2,4-Dinitrotoluene	165	8.518	8.507	0.011	80	337600	8.00	8.80	
145 Dibenzofuran	168	8.518	8.512	0.006	95	1114119	8.00	7.94	
147 2,3,4,6-Tetrachlorophenol	232	8.625	8.619	0.006	66	327901	8.00	8.52	
149 Diethyl phthalate	149	8.716	8.710	0.006	99	867963	8.00	7.96	
240 Hexadecane	57	8.721	8.721	0.000	85	321105	8.00	8.05	
151 Fluorene	166	8.801	8.796	0.005	95	924130	8.00	7.91	
152 4-Chlorophenyl phenyl ethe	204	8.796	8.796	0.000	83	518834	8.00	7.91	
153 4-Nitroaniline	138	8.838	8.828	0.010	93	81823	8.00	7.42	
154 4,6-Dinitro-2-methylphenol	198	8.854	8.844	0.010	96	425101	16.0	16.0	
159 1,2-Diphenylhydrazine	77	8.929	8.924	0.005	92	627263	8.00	7.81	
158 Azobenzene	77	8.929	8.924	0.005	88	627263	8.00	7.65	
164 4-Bromophenyl phenyl ether	248	9.202	9.196	0.006	54	416529	8.00	8.01	
168 Hexachlorobenzene	284	9.250	9.244	0.006	93	530414	8.00	7.90	
172 Pentachlorophenol	266	9.421	9.415	0.006	95	574478	16.0	16.6	
269 n-Octadecane	57	9.479	9.474	0.005	0	334562	8.00	7.94	
177 Phenanthrene	178	9.592	9.586	0.006	96	1272776	8.00	7.83	
180 Anthracene	178	9.634	9.629	0.005	97	1288199	8.00	7.87	
181 Carbazole	167	9.763	9.757	0.006	95	805110	8.00	8.06	
184 Di-n-butyl phthalate	149	10.046	10.046	0.000	99	1272827	8.00	7.92	
191 Fluoranthene	202	10.564	10.559	0.005	96	1400837	8.00	7.75	
193 Pyrene	202	10.751	10.746	0.005	92	1435751	8.00	7.75	
200 Butyl benzyl phthalate	149	11.296	11.296	0.000	91	667861	8.00	8.26	
205 Benzo[a]anthracene	228	11.841	11.835	0.006	97	1619110	8.00	7.60	
206 Bis(2-ethylhexyl) phthalat	149	11.862	11.862	0.000	89	911565	8.00	8.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
207 Chrysene	228	11.883	11.873	0.010	94	1387930	8.00	7.74	
208 Di-n-octyl phthalate	149	12.605	12.599	0.006	96	1520821	8.00	8.22	
209 Benzo[b]fluoranthene	252	13.075	13.064	0.011	95	1947888	8.00	8.27	
211 Benzo[k]fluoranthene	252	13.112	13.101	0.011	96	1835886	8.00	8.05	
213 Benzo[a]pyrene	252	13.486	13.475	0.011	76	1774901	8.00	8.20	
215 Indeno[1,2,3-cd]pyrene	276	14.971	14.961	0.010	97	2335123	8.00	8.19	
216 Dibenz(a,h)anthracene	278	15.003	14.993	0.010	91	1915666	8.00	8.07	
217 Benzo[g,h,i]perylene	276	15.335	15.319	0.017	97	1826388	8.00	7.90	
S 220 Total Cresols	1				0			15.0	
S 218 3 & 4 Methylphenol	108				0		8.00	7.36	
S 219 3-Methylphenol	1				0		8.00	7.36	

Reagents:

MB_8270LV_WRK_00064	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00034	Amount Added: 20.00	Units: uL	Run Reagent

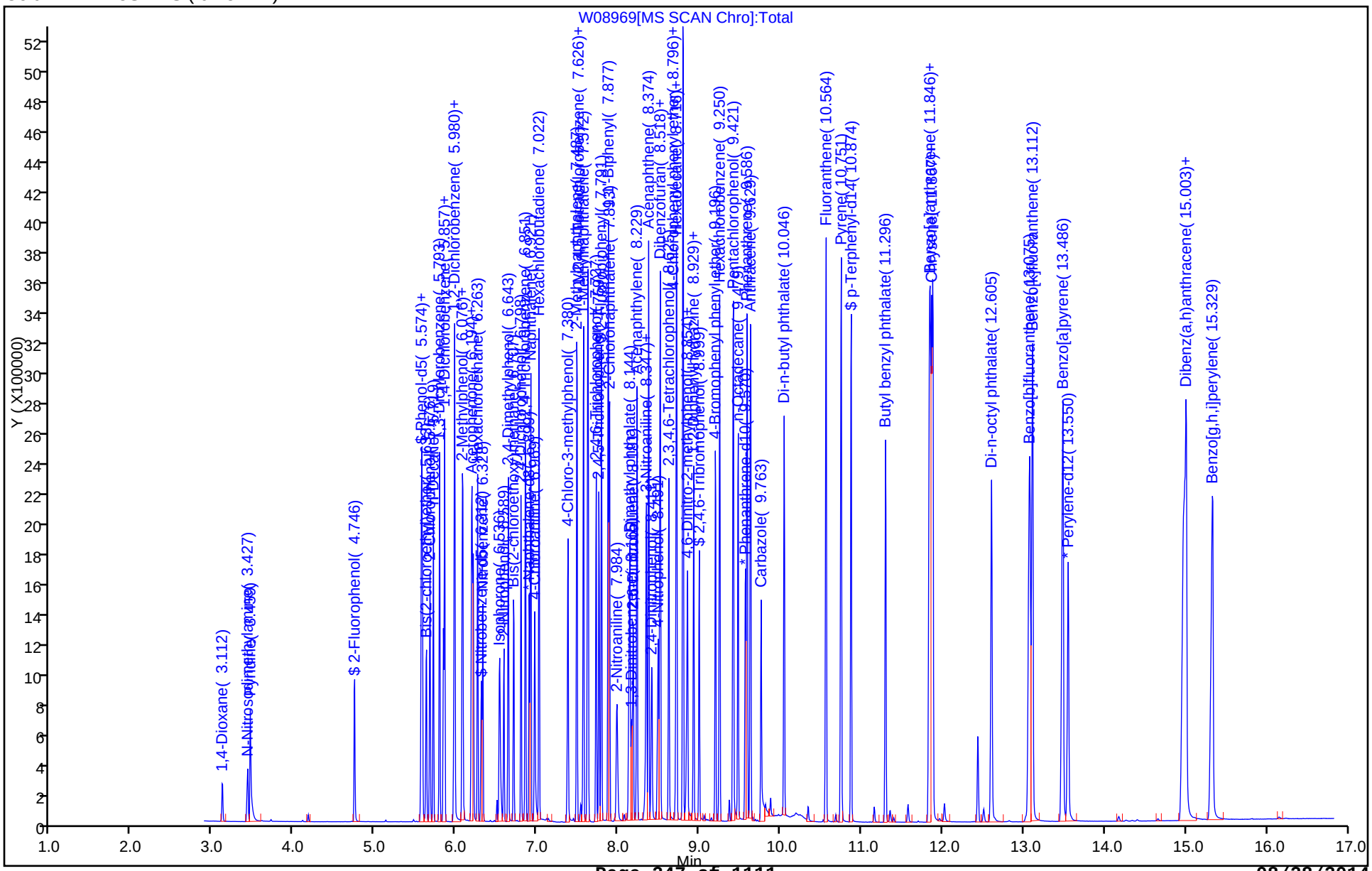
Report Date: 24-Jul-2014 12:19:04 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08969.D

Injection Date:	23-Jul-2014 19:52:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC 8270LVI - 8			Worklist Smp#:	7
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08970.D
Lims ID: IC 8270LVI - 10
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jul-2014 20:18:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-008
Misc. Info.: IC 8270LVI - 10
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub18

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:06 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 23-Jul-2014 20:37:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.842	5.841	0.001	91	177848	4.00	4.00	
* 2 Naphthalene-d8	136	6.905	6.899	0.006	98	623781	4.00	4.00	
* 3 Acenaphthene-d10	164	8.347	8.342	0.005	92	380574	4.00	4.00	
* 4 Phenanthrene-d10	188	9.570	9.565	0.005	96	655975	4.00	4.00	
* 5 Chrysene-d12	240	11.852	11.846	0.006	96	762489	4.00	4.00	
* 6 Perylene-d12	264	13.550	13.545	0.005	98	848561	4.00	4.00	
$ 7 2-Fluorophenol	112	4.746	4.746	0.000	85	354311	10.0	10.8	
$ 8 Phenol-d5	99	5.574	5.564	0.010	92	442729	10.0	10.4	
$ 9 Nitrobenzene-d5	82	6.312	6.306	0.006	80	358007	10.0	10.1	
$ 10 2-Fluorobiphenyl	172	7.791	7.791	0.000	97	945935	10.0	10.2	
$ 11 2,4,6-Tribromophenol	330	8.999	8.993	0.006	84	302456	10.0	10.4	
$ 12 p-Terphenyl-d14	244	10.874	10.868	0.006	97	1228225	10.0	9.98	
55 1,4-Dioxane	88	3.122	3.117	0.005	86	164561	10.0	10.8	
53 N-Nitrosodimethylamine	42	3.438	3.421	0.017	79	116925	10.0	10.3	
52 Pyridine	52	3.464	3.459	0.005	94	221351	10.0	10.3	
69 Aniline	93	5.574	5.569	0.005	97	683215	10.0	9.87	
72 Phenol	94	5.585	5.580	0.005	96	587620	10.0	10.1	
74 Bis(2-chloroethyl)ether	93	5.633	5.628	0.005	96	486866	10.0	9.37	
75 2-Chlorophenol	128	5.676	5.670	0.006	90	574136	10.0	10.1	
267 n-Decane	57	5.719	5.713	0.006	0	376617	10.0	10.1	
78 1,3-Dichlorobenzene	146	5.799	5.793	0.006	96	652083	10.0	9.70	
77 1,4-Dichlorobenzene	146	5.858	5.857	0.001	95	643830	10.0	9.55	
79 Benzyl alcohol	108	5.980	5.970	0.010	96	322099	10.0	9.66	
73 1,2-Dichlorobenzene	146	5.986	5.980	0.006	98	606110	10.0	9.36	
83 2,2'-oxybis[1-chloropropan	45	6.082	6.076	0.006	76	372053	10.0	8.87	
82 2-Methylphenol	108	6.082	6.076	0.006	93	460117	10.0	9.44	
86 Acetophenone	105	6.194	6.183	0.011	94	640474	10.0	9.96	
87 N-Nitrosodi-n-propylamine	70	6.199	6.189	0.010	70	274898	10.0	9.29	
88 4-Methylphenol	108	6.210	6.205	0.005	97	459862	10.0	8.96	
89 Hexachloroethane	117	6.264	6.263	0.001	86	224806	10.0	9.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Nitrobenzene	77	6.328	6.322	0.006	78	415455	10.0	9.89	
94 Isophorone	82	6.536	6.525	0.011	95	765018	10.0	9.92	
97 2-Nitrophenol	139	6.589	6.584	0.005	78	319217	10.0	10.7	
99 2,4-Dimethylphenol	107	6.643	6.637	0.006	89	455875	10.0	9.80	
103 Bis(2-chloroethoxy)methane	93	6.712	6.707	0.005	94	532017	10.0	9.71	
106 2,4-Dichlorophenol	162	6.803	6.798	0.005	85	491321	10.0	9.93	
100 1,2,4-Trichlorobenzene	180	6.857	6.851	0.006	93	582205	10.0	9.55	
107 Naphthalene	128	6.921	6.915	0.006	98	1262224	10.0	9.31	
108 4-Chloroaniline	127	6.969	6.969	0.000	96	613174	10.0	10.1	
110 Hexachlorobutadiene	225	7.022	7.022	0.000	89	383918	10.0	9.69	
117 4-Chloro-3-methylphenol	107	7.380	7.375	0.005	87	384631	10.0	9.92	
121 2-Methylnaphthalene	142	7.492	7.487	0.005	90	977357	10.0	9.93	
236 1-Methylnaphthalene	142	7.572	7.567	0.005	96	920902	10.0	9.96	
125 Hexachlorocyclopentadiene	237	7.621	7.615	0.005	91	331121	10.0	10.2	
124 1,2,4,5-Tetrachlorobenzene	216	7.631	7.626	0.005	94	615202	10.0	9.66	
127 2,4,6-Trichlorophenol	196	7.727	7.722	0.005	86	400359	10.0	10.3	
129 2,4,5-Trichlorophenol	196	7.759	7.759	0.000	93	415974	10.0	10.3	
130 1,1'-Biphenyl	154	7.877	7.871	0.006	95	1082914	10.0	10.0	
131 2-Chloronaphthalene	162	7.893	7.887	0.006	94	974635	10.0	10.1	
132 2-Nitroaniline	65	7.984	7.978	0.006	93	185630	10.0	10.8	
134 Dimethyl phthalate	163	8.144	8.133	0.011	98	1169033	10.0	9.79	
139 1,3-Dinitrobenzene	168	8.171	8.155	0.016	83	235500	10.0	10.0	
135 2,6-Dinitrotoluene	165	8.187	8.176	0.011	84	307179	10.0	10.8	
137 Acenaphthylene	152	8.235	8.229	0.006	96	1269045	10.0	10.0	
140 3-Nitroaniline	138	8.342	8.331	0.011	84	215980	10.0	10.2	
141 Acenaphthene	153	8.374	8.374	0.000	93	945094	10.0	8.81	
142 2,4-Dinitrophenol	184	8.417	8.406	0.010	80	342906	20.0	20.2	
143 4-Nitrophenol	109	8.497	8.486	0.011	70	203056	20.0	20.3	
144 2,4-Dinitrotoluene	165	8.518	8.507	0.011	78	389093	10.0	10.8	
145 Dibenzofuran	168	8.518	8.512	0.006	96	1226926	10.0	10.0	
147 2,3,4,6-Tetrachlorophenol	232	8.625	8.619	0.006	66	386789	10.0	10.7	
149 Diethyl phthalate	149	8.716	8.710	0.006	99	966631	10.0	10.1	
240 Hexadecane	57	8.721	8.721	0.000	86	347252	10.0	10.0	
151 Fluorene	166	8.801	8.796	0.005	94	1029109	10.0	10.0	
152 4-Chlorophenyl phenyl ethe	204	8.801	8.796	0.005	83	578988	10.0	10.2	
153 4-Nitroaniline	138	8.839	8.828	0.011	97	110763	10.0	10.8	
154 4,6-Dinitro-2-methylphenol	198	8.860	8.844	0.016	96	509557	20.0	20.3	
159 1,2-Diphenylhydrazine	77	8.929	8.924	0.005	92	735735	10.0	9.79	
158 Azobenzene	77	8.929	8.924	0.005	89	735735	10.0	9.54	
164 4-Bromophenyl phenyl ether	248	9.202	9.196	0.006	66	482253	10.0	9.87	
168 Hexachlorobenzene	284	9.255	9.244	0.011	93	612543	10.0	9.69	
172 Pentachlorophenol	266	9.421	9.415	0.006	95	655717	20.0	20.1	
269 n-Octadecane	57	9.480	9.474	0.006	0	384557	10.0	9.71	
177 Phenanthrene	178	9.592	9.586	0.006	96	1425590	10.0	9.90	
180 Anthracene	178	9.635	9.629	0.006	97	1421871	10.0	9.88	
181 Carbazole	167	9.763	9.757	0.006	95	952509	10.0	10.2	
184 Di-n-butyl phthalate	149	10.046	10.046	0.000	98	1368137	10.0	9.68	
191 Fluoranthene	202	10.564	10.559	0.005	96	1565573	10.0	10.0	
193 Pyrene	202	10.751	10.746	0.005	91	1616055	10.0	9.99	
200 Butyl benzyl phthalate	149	11.301	11.296	0.005	91	757354	10.0	9.99	
205 Benzo[a]anthracene	228	11.841	11.835	0.006	97	1861243	10.0	9.32	
206 Bis(2-ethylhexyl) phthalat	149	11.868	11.862	0.006	89	1048030	10.0	9.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
207 Chrysene	228	11.884	11.873	0.011	96	1573328	10.0	9.92	M
208 Di-n-octyl phthalate	149	12.605	12.599	0.006	96	1733010	10.0	10.0	
209 Benzo[b]fluoranthene	252	13.080	13.064	0.016	95	2380060	10.0	10.7	
211 Benzo[k]fluoranthene	252	13.112	13.101	0.011	96	1984574	10.0	9.98	
213 Benzo[a]pyrene	252	13.486	13.475	0.011	77	2029845	10.0	9.90	
215 Indeno[1,2,3-cd]pyrene	276	14.982	14.961	0.021	97	2758234	10.0	10.2	
216 Dibenz(a,h)anthracene	278	15.014	14.993	0.021	93	2205525	10.0	9.82	
217 Benzo[g,h,i]perylene	276	15.340	15.319	0.022	97	2119428	10.0	9.68	
S 220 Total Cresols	1				0			18.4	
S 218 3 & 4 Methylphenol	108				0		10.0	8.96	
S 219 3-Methylphenol	1				0		10.0	8.96	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_8270LV_WRK_00065	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00034	Amount Added: 20.00	Units: uL	Run Reagent

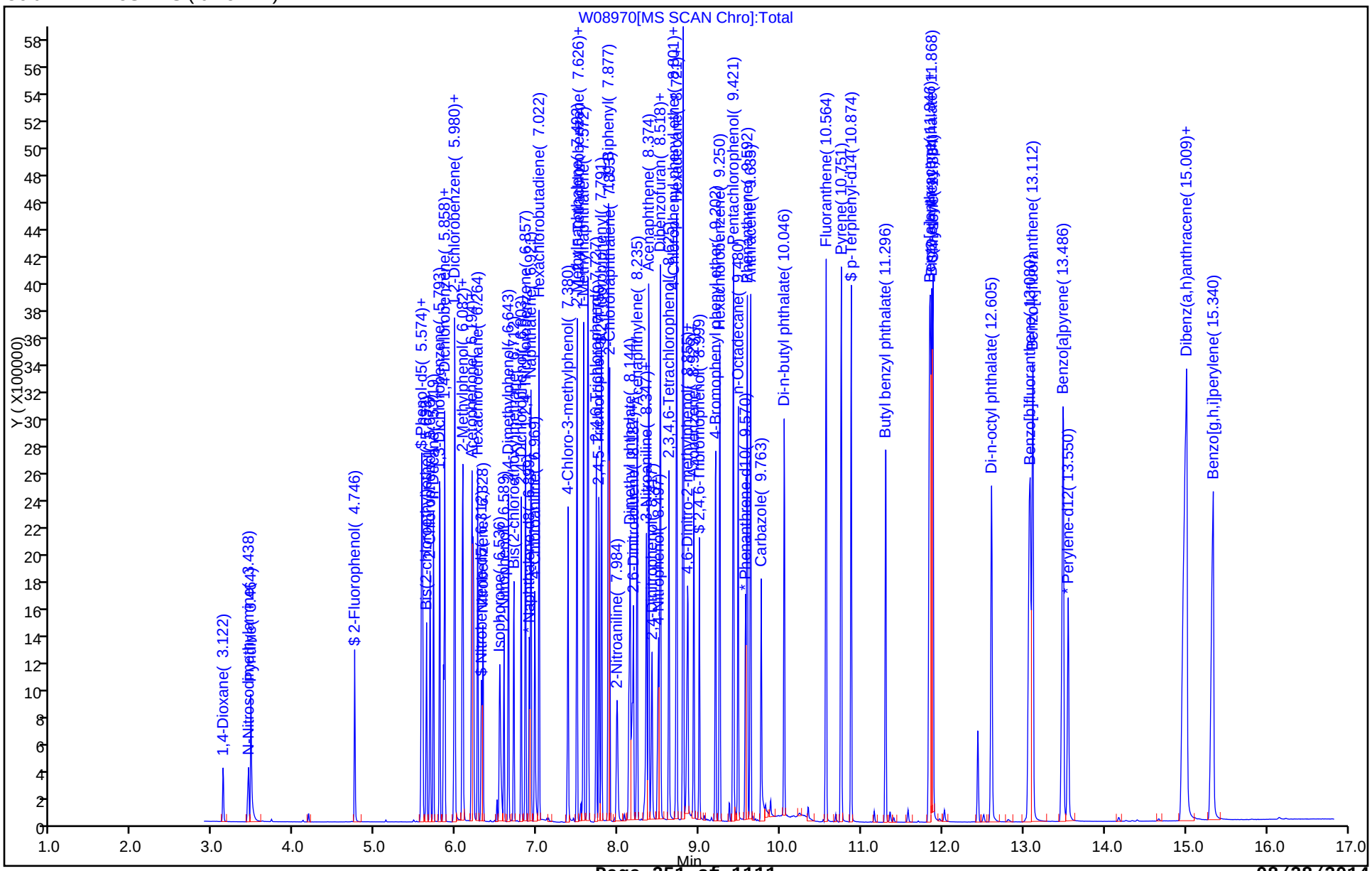
Report Date: 24-Jul-2014 12:19:07 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08970.D

Injection Date:	23-Jul-2014 20:18:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC 8270LVI - 10			Worklist Smp#:	8
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

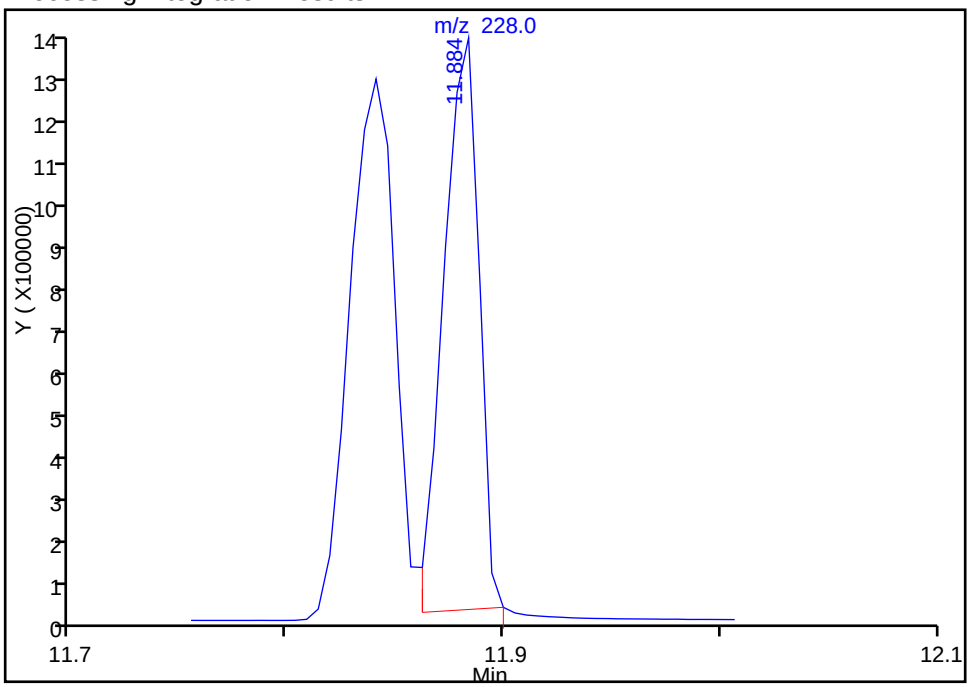
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08970.D
Injection Date: 23-Jul-2014 20:18:30 Instrument ID: HP5973W
Lims ID: IC 8270LVI - 10
Client ID:
Operator ID: MKP ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

207 Chrysene, CAS: 218-01-9

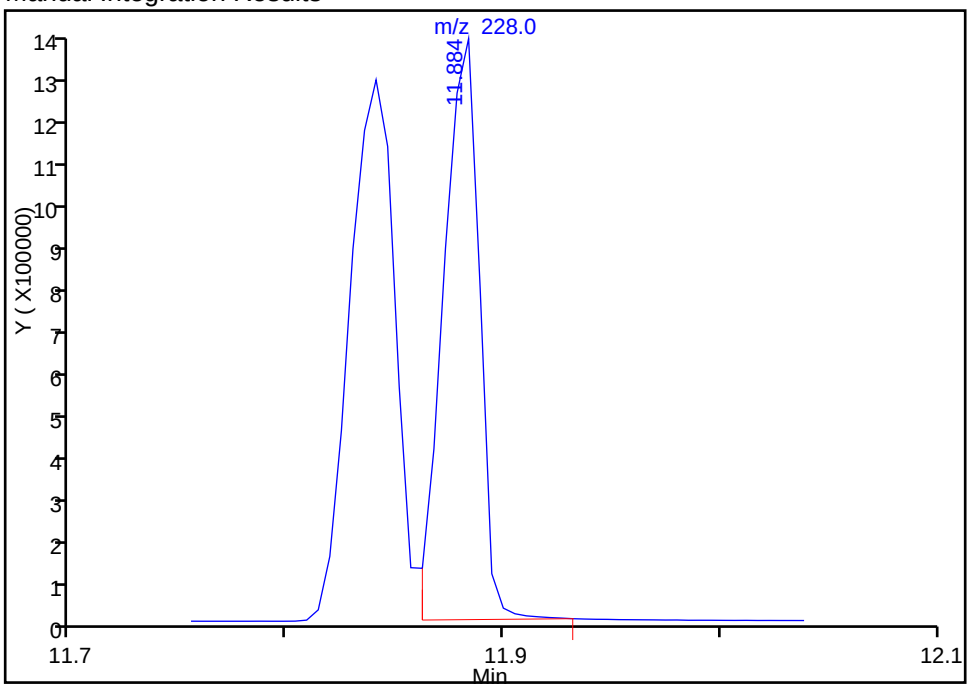
Processing Integration Results

RT: 11.88
Response: 1509704
Amount: 9.564650



Manual Integration Results

RT: 11.88
Response: 1573328
Amount: 9.915612



Reviewer: pagem, 24-Jul-2014 08:00:06
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08971.D
Lims ID: IC 8270LVI - 15
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jul-2014 20:44:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-009
Misc. Info.: IC 8270LVI - 15
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub18

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:09 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:01:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.847	5.841	0.006	90	193952	4.00	4.00	
* 2 Naphthalene-d8	136	6.904	6.899	0.005	98	674571	4.00	4.00	
* 3 Acenaphthene-d10	164	8.347	8.342	0.005	92	417406	4.00	4.00	
* 4 Phenanthrene-d10	188	9.576	9.565	0.011	96	720408	4.00	4.00	
* 5 Chrysene-d12	240	11.862	11.846	0.016	96	799753	4.00	4.00	
* 6 Perylene-d12	264	13.561	13.545	0.016	99	952210	4.00	4.00	
$ 7 2-Fluorophenol	112	4.746	4.746	0.000	85	628045	15.0	17.6	
$ 8 Phenol-d5	99	5.580	5.564	0.016	78	684833	15.0	14.8	
$ 9 Nitrobenzene-d5	82	6.317	6.306	0.011	81	577179	15.0	15.1	
$ 10 2-Fluorobiphenyl	172	7.797	7.791	0.006	95	1327682	15.0	14.9	
$ 11 2,4,6-Tribromophenol	330	9.004	8.993	0.011	84	475905	15.0	15.0	
$ 12 p-Terphenyl-d14	244	10.879	10.868	0.011	95	1624479	15.0	15.1	
55 1,4-Dioxane	88	3.122	3.117	0.005	86	271171	15.0	14.9	
53 N-Nitrosodimethylamine	42	3.448	3.421	0.027	80	190641	15.0	15.4	
52 Pyridine	52	3.469	3.459	0.010	94	377901	15.0	14.9	
69 Aniline	93	5.580	5.569	0.011	96	1052792	15.0	13.9	
72 Phenol	94	5.596	5.580	0.016	94	905984	15.0	14.2	
74 Bis(2-chloroethyl)ether	93	5.644	5.628	0.016	96	762906	15.0	13.5	
75 2-Chlorophenol	128	5.681	5.670	0.011	90	902460	15.0	14.5	
267 n-Decane	57	5.724	5.713	0.011	0	562998	15.0	13.8	
78 1,3-Dichlorobenzene	146	5.799	5.793	0.006	95	978834	15.0	13.4	
77 1,4-Dichlorobenzene	146	5.863	5.857	0.006	92	925922	15.0	12.6	
79 Benzyl alcohol	108	5.991	5.970	0.021	95	489641	15.0	13.5	
73 1,2-Dichlorobenzene	146	5.986	5.980	0.006	99	871047	15.0	12.3	
83 2,2'-oxybis[1-chloropropan	45	6.082	6.076	0.006	95	573219	15.0	12.5	
82 2-Methylphenol	108	6.092	6.076	0.016	93	730836	15.0	13.7	M
86 Acetophenone	105	6.199	6.183	0.016	95	982256	15.0	14.1	
87 N-Nitrosodi-n-propylamine	70	6.210	6.189	0.021	69	401472	15.0	12.4	
88 4-Methylphenol	108	6.221	6.205	0.016	97	709926	15.0	12.7	
89 Hexachloroethane	117	6.263	6.263	0.000	87	345112	15.0	13.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Nitrobenzene	77	6.338	6.322	0.016	77	647487	15.0	14.3	
94 Isophorone	82	6.547	6.525	0.022	95	1246440	15.0	14.9	
97 2-Nitrophenol	139	6.595	6.584	0.011	79	522346	15.0	16.1	
99 2,4-Dimethylphenol	107	6.653	6.637	0.016	89	719399	15.0	14.3	
103 Bis(2-chloroethoxy)methane	93	6.717	6.707	0.010	95	818474	15.0	13.8	
106 2,4-Dichlorophenol	162	6.808	6.798	0.010	86	743220	15.0	13.9	
100 1,2,4-Trichlorobenzene	180	6.856	6.851	0.005	94	856058	15.0	13.0	
107 Naphthalene	128	6.926	6.915	0.011	97	1657646	15.0	11.3	
108 4-Chloroaniline	127	6.974	6.969	0.005	96	986370	15.0	15.0	
110 Hexachlorobutadiene	225	7.027	7.022	0.005	90	557122	15.0	13.0	
117 4-Chloro-3-methylphenol	107	7.385	7.375	0.010	88	598402	15.0	14.3	
121 2-Methylnaphthalene	142	7.492	7.487	0.005	91	1361911	15.0	15.0	
236 1-Methylnaphthalene	142	7.578	7.567	0.011	96	1281786	15.0	15.0	
125 Hexachlorocyclopentadiene	237	7.620	7.615	0.005	92	531676	15.0	14.9	
124 1,2,4,5-Tetrachlorobenzene	216	7.636	7.626	0.010	93	878034	15.0	12.6	
127 2,4,6-Trichlorophenol	196	7.733	7.722	0.011	86	636646	15.0	14.9	
129 2,4,5-Trichlorophenol	196	7.765	7.759	0.006	93	648719	15.0	14.7	
130 1,1'-Biphenyl	154	7.882	7.871	0.011	93	1424900	15.0	15.1	
131 2-Chloronaphthalene	162	7.898	7.887	0.011	97	1345715	15.0	14.9	
132 2-Nitroaniline	65	7.989	7.978	0.011	93	305378	15.0	16.2	
134 Dimethyl phthalate	163	8.160	8.133	0.027	98	1810400	15.0	13.8	
139 1,3-Dinitrobenzene	168	8.181	8.155	0.026	89	390953	15.0	15.3	
135 2,6-Dinitrotoluene	165	8.197	8.176	0.021	86	494932	15.0	15.9	
137 Acenaphthylene	152	8.235	8.229	0.006	94	1730204	15.0	15.0	
140 3-Nitroaniline	138	8.352	8.331	0.021	85	405475	15.0	14.9	M
141 Acenaphthene	153	8.379	8.374	0.005	93	1313200	15.0	11.2	
142 2,4-Dinitrophenol	184	8.427	8.406	0.021	80	618127	30.0	29.9	
143 4-Nitrophenol	109	8.507	8.486	0.021	71	329166	30.0	29.9	
144 2,4-Dinitrotoluene	165	8.534	8.507	0.027	90	606859	15.0	15.4	
145 Dibenzofuran	168	8.523	8.512	0.011	96	1671158	15.0	15.0	
147 2,3,4,6-Tetrachlorophenol	232	8.630	8.619	0.011	66	627492	15.0	15.9	
149 Diethyl phthalate	149	8.732	8.710	0.022	98	1348092	15.0	15.0	
240 Hexadecane	57	8.726	8.721	0.005	87	454651	15.0	14.9	
151 Fluorene	166	8.812	8.796	0.016	94	1424111	15.0	15.0	
152 4-Chlorophenyl phenyl ethe	204	8.801	8.796	0.005	85	774358	15.0	14.9	
153 4-Nitroaniline	138	8.854	8.828	0.026	95	252747	15.0	22.8	M
154 4,6-Dinitro-2-methylphenol	198	8.870	8.844	0.026	95	852189	30.0	30.6	
159 1,2-Diphenylhydrazine	77	8.935	8.924	0.011	90	1083042	15.0	13.1	
158 Azobenzene	77	8.935	8.924	0.011	88	1083042	15.0	12.8	
164 4-Bromophenyl phenyl ether	248	9.207	9.196	0.011	75	744292	15.0	13.9	
168 Hexachlorobenzene	284	9.260	9.244	0.016	93	921568	15.0	13.3	
172 Pentachlorophenol	266	9.426	9.415	0.011	94	1020466	30.0	28.5	
269 n-Octadecane	57	9.479	9.474	0.005	0	559097	15.0	12.9	
177 Phenanthrene	178	9.597	9.586	0.011	95	2022435	15.0	15.1	
180 Anthracene	178	9.640	9.629	0.011	95	1962089	15.0	15.1	
181 Carbazole	167	9.768	9.757	0.011	96	1403563	15.0	13.8	
184 Di-n-butyl phthalate	149	10.051	10.046	0.005	98	1854513	15.0	15.4	
191 Fluoranthene	202	10.569	10.559	0.010	93	2099233	15.0	15.1	
193 Pyrene	202	10.756	10.746	0.010	90	2138049	15.0	15.1	
200 Butyl benzyl phthalate	149	11.301	11.296	0.005	92	1132699	15.0	14.2	
205 Benzo[a]anthracene	228	11.846	11.835	0.011	97	2663820	15.0	12.7	
206 Bis(2-ethylhexyl) phthalat	149	11.867	11.862	0.005	90	1444174	15.0	13.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
207 Chrysene	228	11.894	11.873	0.021	95	2167073	15.0	15.1	
208 Di-n-octyl phthalate	149	12.610	12.599	0.011	96	2486293	15.0	13.7	
209 Benzo[b]fluoranthene	252	13.096	13.064	0.032	94	3882750	15.0	15.5	
211 Benzo[k]fluoranthene	252	13.134	13.101	0.033	92	2586510	15.0	14.9	
213 Benzo[a]pyrene	252	13.502	13.475	0.027	77	3075860	15.0	13.4	
215 Indeno[1,2,3-cd]pyrene	276	15.009	14.961	0.048	96	4336198	15.0	14.3	
216 Dibenz(a,h)anthracene	278	15.035	14.993	0.042	90	3330410	15.0	13.2	
217 Benzo[g,h,i]perylene	276	15.356	15.319	0.038	96	3156454	15.0	12.8	
S 220 Total Cresols	1				0			26.4	
S 218 3 & 4 Methylphenol	108				0		15.0	12.7	
S 219 3-Methylphenol	1				0		15.0	12.7	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_8270LV_WRK_00066	Amount Added:	1.00	Units: mL	
MB_LLIS_WRK_00034	Amount Added:	20.00	Units: uL	Run Reagent

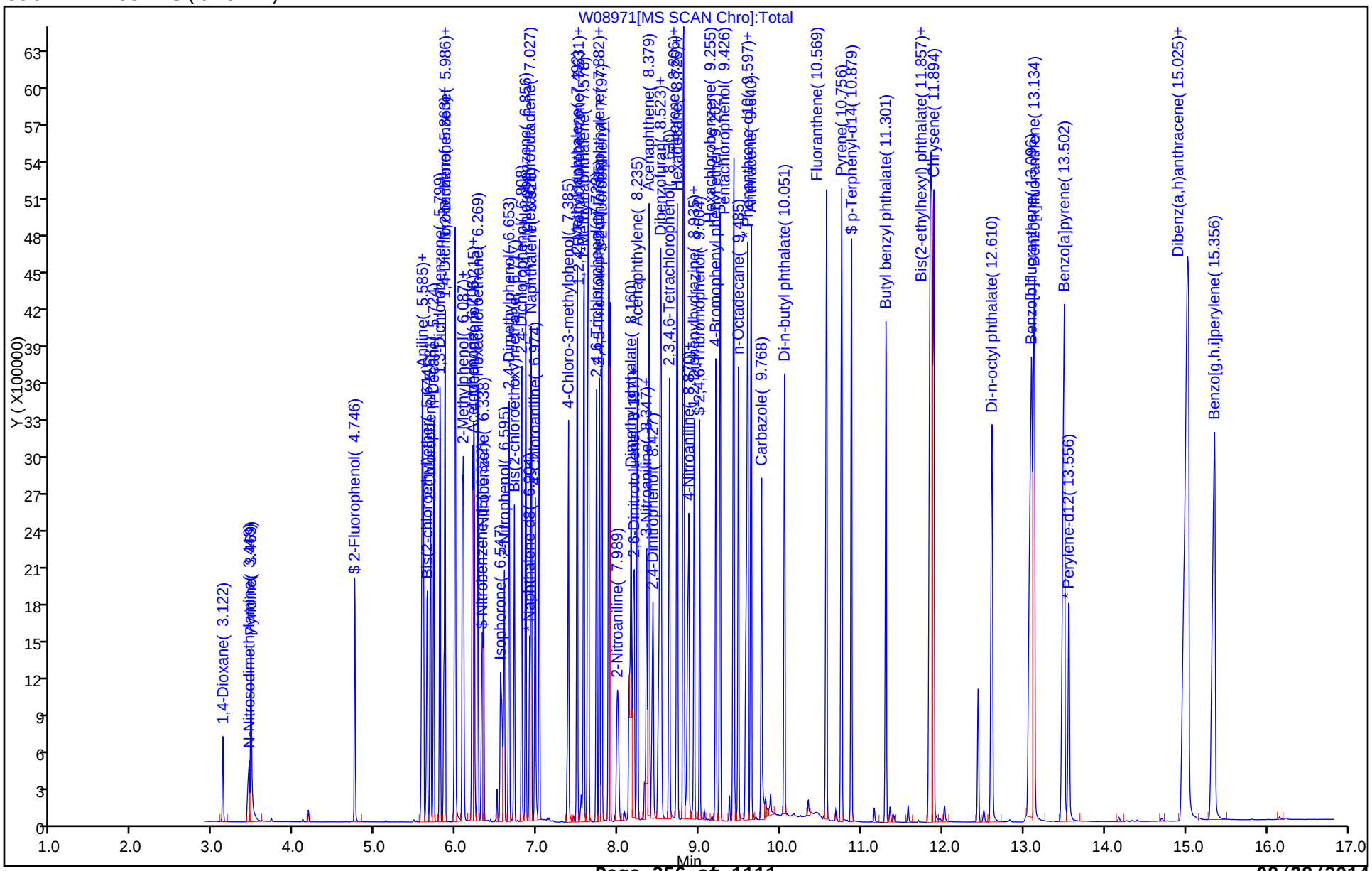
Report Date: 24-Jul-2014 12:19:10 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08971.D

Injection Date:	23-Jul-2014 20:44:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC 8270LVI - 15			Worklist Smp#:	9
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

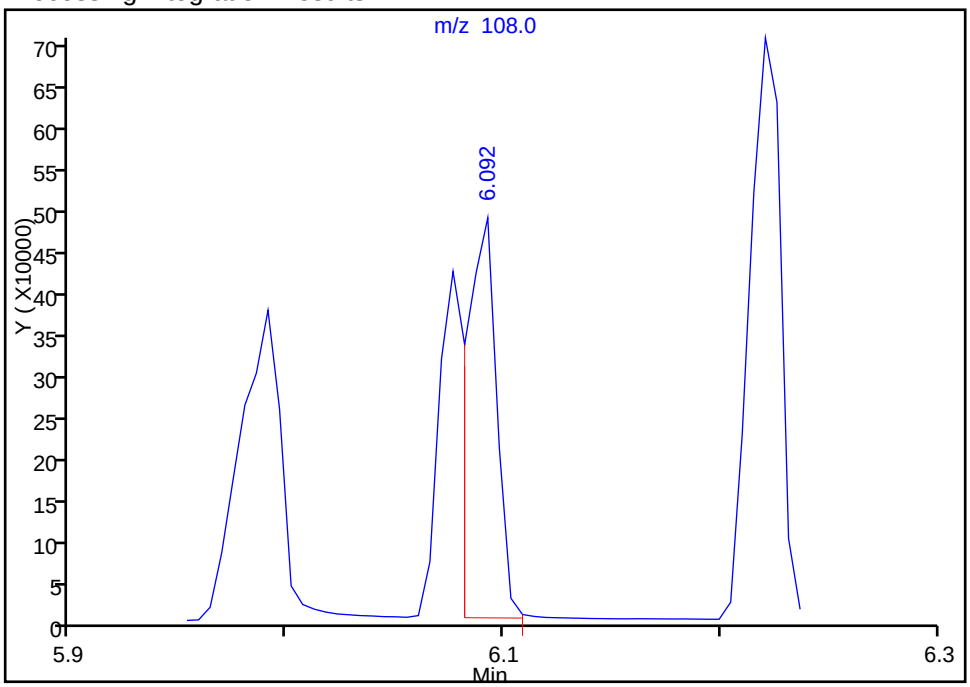
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08971.D
Injection Date: 23-Jul-2014 20:44:30 Instrument ID: HP5973W
Lims ID: IC 8270LVI - 15
Client ID:
Operator ID: MKP ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

82 2-Methylphenol, CAS: 95-48-7

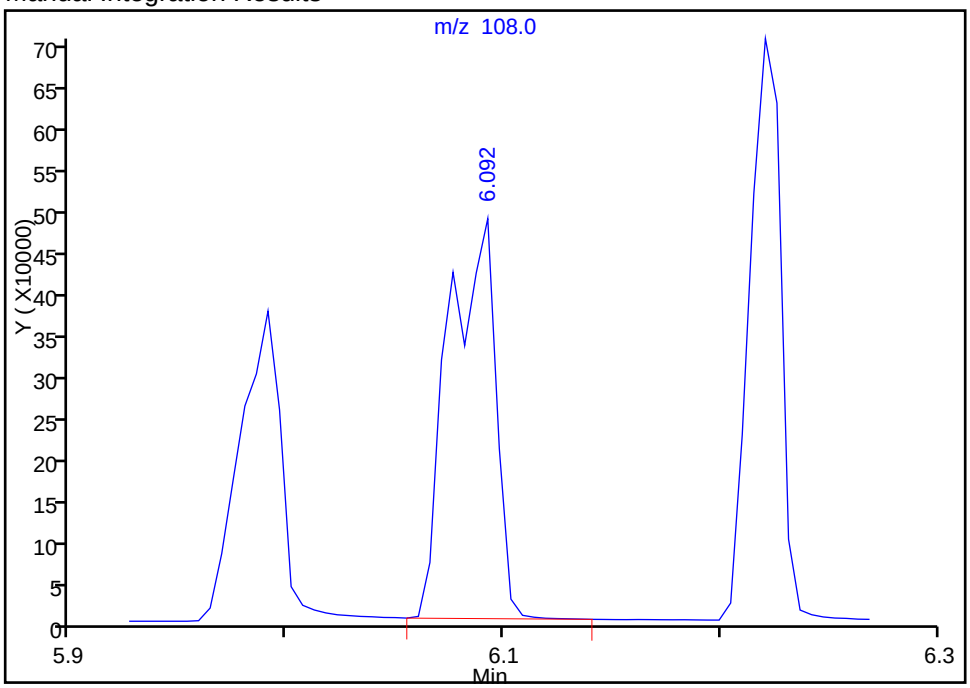
Processing Integration Results

RT: 6.09
Response: 471757
Amount: 10.802509



Manual Integration Results

RT: 6.09
Response: 730836
Amount: 13.743482



Reviewer: pagem, 24-Jul-2014 08:01:13
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

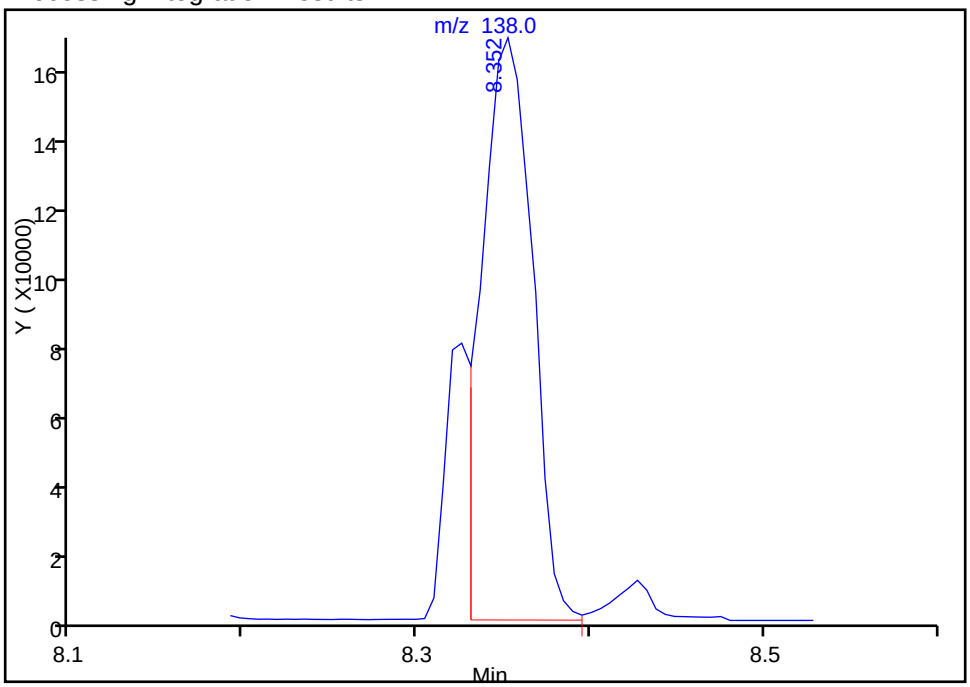
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08971.D
Injection Date: 23-Jul-2014 20:44:30 Instrument ID: HP5973W
Lims ID: IC 8270LVI - 15
Client ID:
Operator ID: MKP ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

140 3-Nitroaniline, CAS: 99-09-2

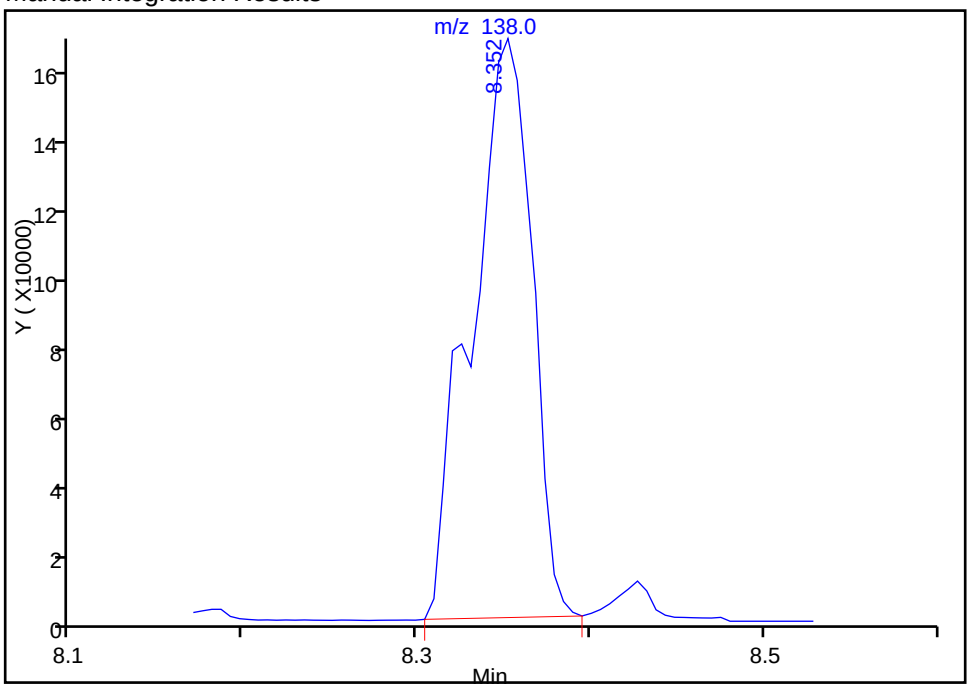
Processing Integration Results

RT: 8.35
Response: 345016
Amount: 17.469850



Manual Integration Results

RT: 8.35
Response: 405475
Amount: 14.947539



Reviewer: pagem, 24-Jul-2014 08:01:13
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

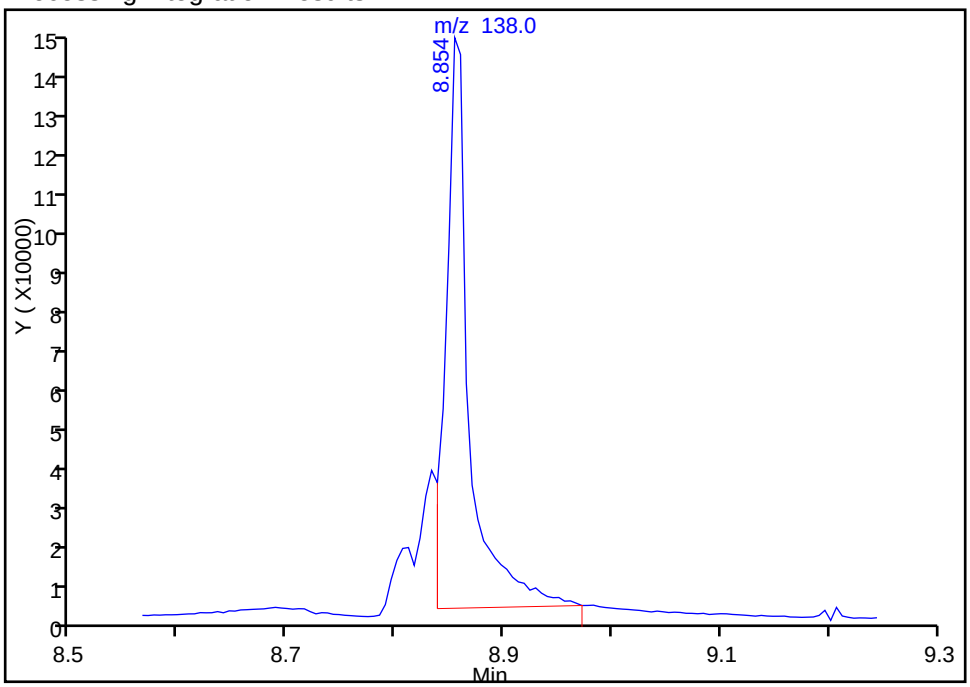
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08971.D
Injection Date: 23-Jul-2014 20:44:30 Instrument ID: HP5973W
Lims ID: IC 8270LVI - 15
Client ID:
Operator ID: MKP ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

153 4-Nitroaniline, CAS: 100-01-6

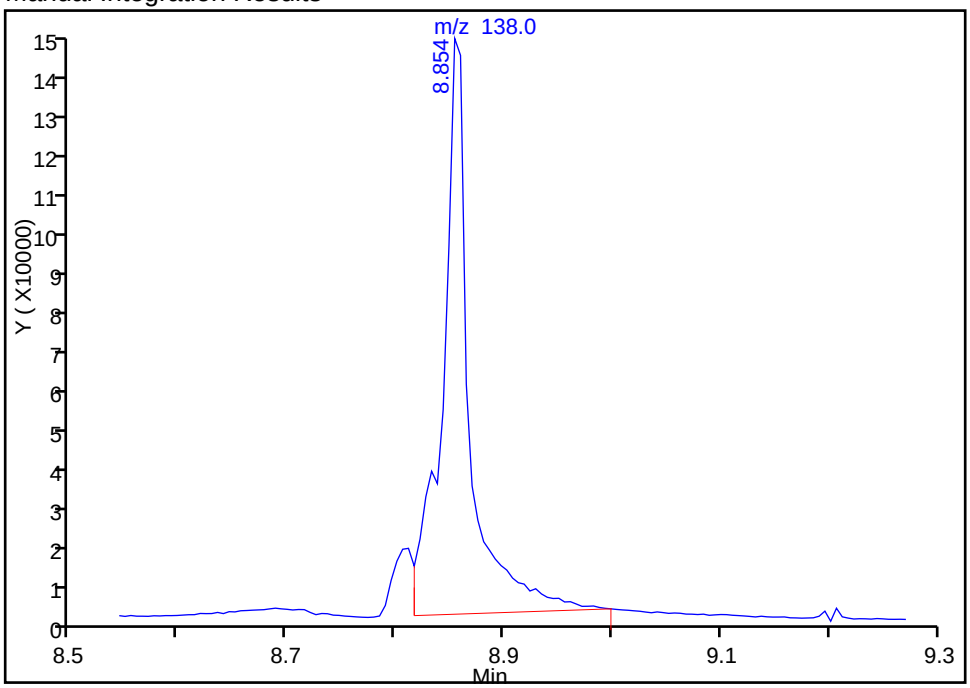
Processing Integration Results

RT: 8.85
Response: 211959
Amount: 15.027004



Manual Integration Results

RT: 8.85
Response: 252747
Amount: 22.754985



Reviewer: pagem, 24-Jul-2014 08:02:40
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 21:34 Calibration End Date: 07/24/2014 00:03 Calibration ID: 19588

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-194440/11	W08973.D
Level 2	IC 480-194440/12	W08974.D
Level 3	IC 480-194440/13	W08975.D
Level 4	IC 480-194440/14	W08976.D
Level 5	IC 480-194440/15	W08977.D
Level 6	IC 480-194440/16	W08978.D
Level 7	IC 480-194440/17	W08979.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzaldehyde	0.7523 0.7996	0.7704 0.7671	0.7673	0.7969	0.8174	Ave		0.7816			0.0100	3.0		20.0			
Benzoic acid	0.0868 0.2199	0.1052 0.2266	0.1577	0.1968	0.2075	Lin1	-0.195	0.2202							0.9960		0.9900
Caprolactam	0.0908 0.1058	0.0903 0.1074	0.0979	0.1003	0.1013	Ave		0.0991			0.0100	6.7		20.0			
N-Nitrosodiphenylamine	0.4868 0.4567	0.4916 0.4151	0.5078	0.5011	0.4678	Ave		0.4753			0.0100	6.7		20.0			
Atrazine	0.3289 0.3761	0.3394 0.3643	0.3666	0.3774	0.3693	Ave		0.3603			0.0100	5.2		20.0			
Benzidine	 0.2151	0.0454 0.2288	0.0860	0.1547	0.1987	Qua	-0.147	0.1830	0.0039						0.9970		0.9900
3,3'-Dichlorobenzidine	0.3137 0.3059	0.3111 0.3239	0.2923	0.2792	0.2903	Ave		0.3023			0.0100	5.2		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 194440

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/23/2014 21:34 Calibration End Date: 07/24/2014 00:03 Calibration ID: 19588

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-194440/11	W08973.D
Level 2	IC 480-194440/12	W08974.D
Level 3	IC 480-194440/13	W08975.D
Level 4	IC 480-194440/14	W08976.D
Level 5	IC 480-194440/15	W08977.D
Level 6	IC 480-194440/16	W08978.D
Level 7	IC 480-194440/17	W08979.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzaldehyde	DCB	Ave	8859 335308	18208 485289	74581	169378	242094	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzoic acid	NPT	Lin1	13957 1506206	34638 2385352	212516	679152	1082933	1.00 40.0	2.00 60.0	8.00	20.0	32.0
Caprolactam	NPT	Ave	3652 181201	7429 282606	32978	86495	132232	0.250 10.0	0.500 15.0	2.00	5.00	8.00
N-Nitrosodiphenylamine	PHN	Ave	20265 810217	42056 1145761	173361	441594	627904	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Atrazine	ANT	Ave	8328 408785	17523 614624	77107	204113	302467	0.250 10.0	0.500 15.0	2.00	5.00	8.00
Benzidine	CRY	Qua	 467089	4573 760990	36115	165837	323188	 10.0	0.500 15.0	2.00	5.00	8.00
3,3'-Dichlorobenzidine	CRY	Ave	15646 664348	31317 1077650	122793	299374	472350	0.250 10.0	0.500 15.0	2.00	5.00	8.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08973.D
Lims ID: IC AD1 .25
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jul-2014 21:34:30 ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-011
Misc. Info.: IC AD1 .25
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:15 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:05:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.841	-0.005	91	188417	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.899	-0.005	98	643221	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	405124	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.565	-0.005	96	666028	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.846	-0.005	96	798106	4.00	4.00	
* 6 Perylene-d12	264	13.540	13.545	-0.005	99	881083	4.00	4.00	
71 Benzaldehyde	77	5.468	5.473	-0.005	92	8859	0.2500	0.2406	
105 Benzoic acid	105	6.712	6.841	-0.129	75	13957	1.00	1.28	
114 Caprolactam	113	7.247	7.295	-0.048	91	3652	0.2500	0.2291	
157 N-Nitrosodiphenylamine	169	8.887	8.892	-0.005	59	20265	0.2500	0.2561	
170 Atrazine	200	9.330	9.335	-0.005	94	8328	0.2500	0.2282	
192 Benzidine	184		10.671					ND	
204 3,3'-Dichlorobenzidine	252	11.809	11.809	0.000	70	15646	0.2500	0.2594	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

MB_AD1LVI_WRK_00043 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00034 Amount Added: 20.00 Units: uL Run Reagent

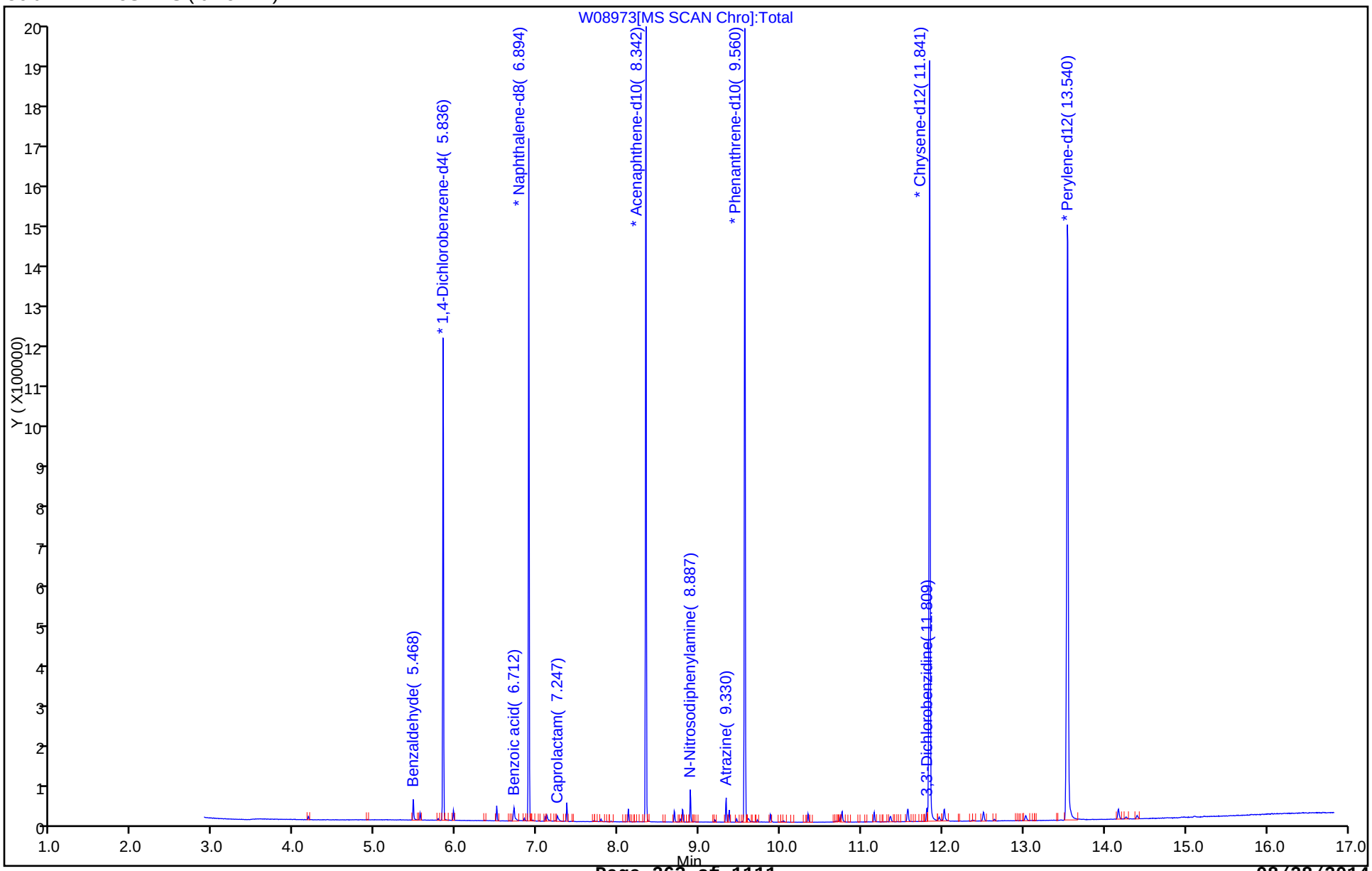
Report Date: 24-Jul-2014 12:19:16 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08973.D

Injection Date:	23-Jul-2014 21:34:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC AD1 .25			Worklist Smp#:	11
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08974.D
Lims ID: IC AD1 .5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jul-2014 21:59:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-012
Misc. Info.: IC AD1 .5
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:18 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:06:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.841	-0.005	91	189088	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.899	-0.005	98	658308	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	413050	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.565	-0.005	97	684360	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.846	-0.005	96	805344	4.00	4.00	
* 6 Perylene-d12	264	13.540	13.545	-0.005	99	885653	4.00	4.00	
71 Benzaldehyde	77	5.467	5.473	-0.006	91	18208	0.5000	0.4928	
105 Benzoic acid	105	6.728	6.841	-0.113	81	34638	2.00	1.84	M
114 Caprolactam	113	7.246	7.295	-0.049	91	7429	0.5000	0.4554	
157 N-Nitrosodiphenylamine	169	8.886	8.892	-0.006	59	42056	0.5000	0.5172	
170 Atrazine	200	9.330	9.335	-0.005	94	17523	0.5000	0.4710	
192 Benzidine	184	10.676	10.671	0.005	98	4573	0.5000	0.9106	M
204 3,3'-Dichlorobenzidine	252	11.809	11.809	0.000	70	31317	0.5000	0.5145	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_AD1LVI_WRK_00044 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00034 Amount Added: 20.00 Units: uL Run Reagent

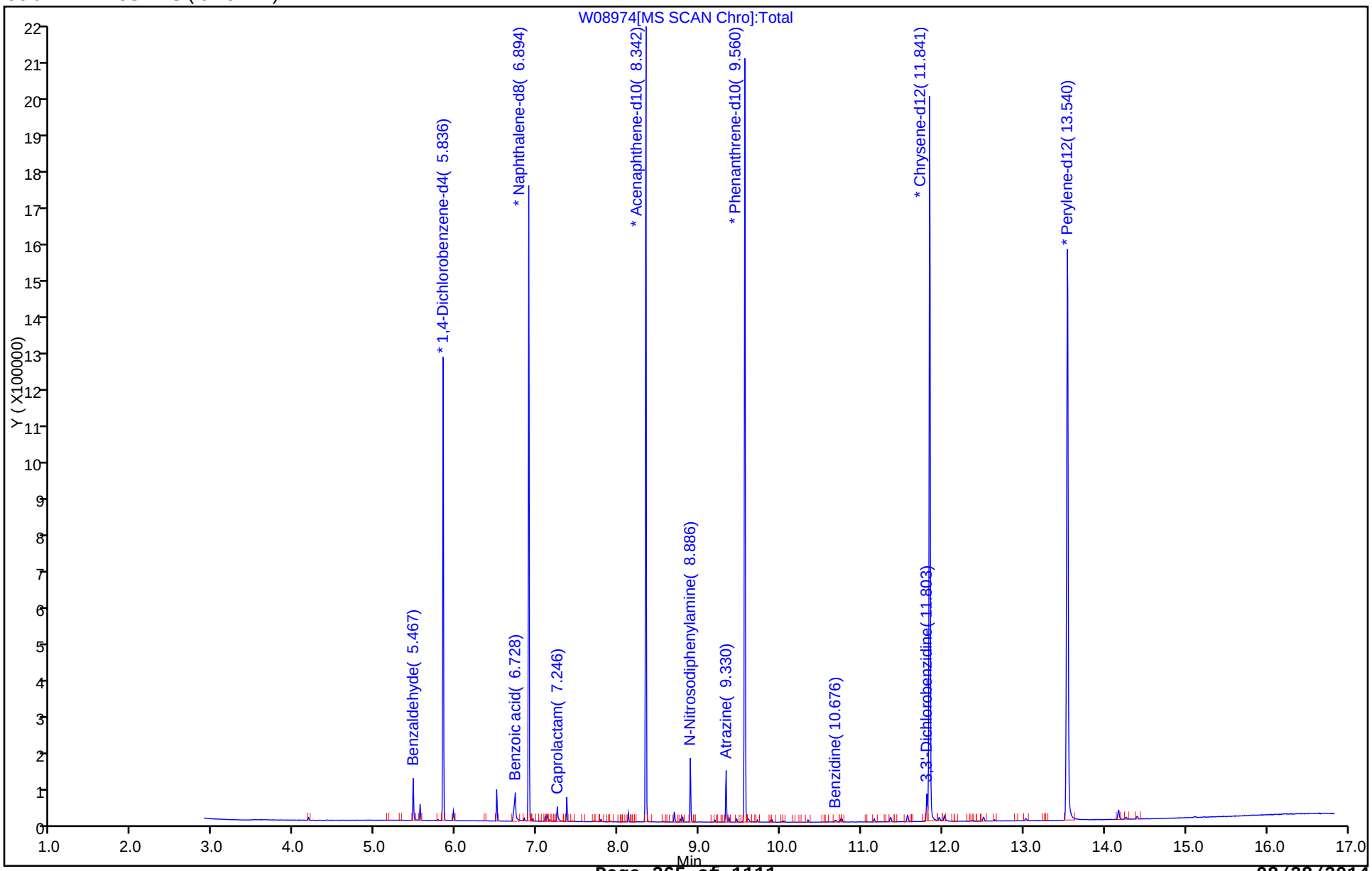
Report Date: 24-Jul-2014 12:19:18 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08974.D

Injection Date:	23-Jul-2014 21:59:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC AD1 .5			Worklist Smp#:	12
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

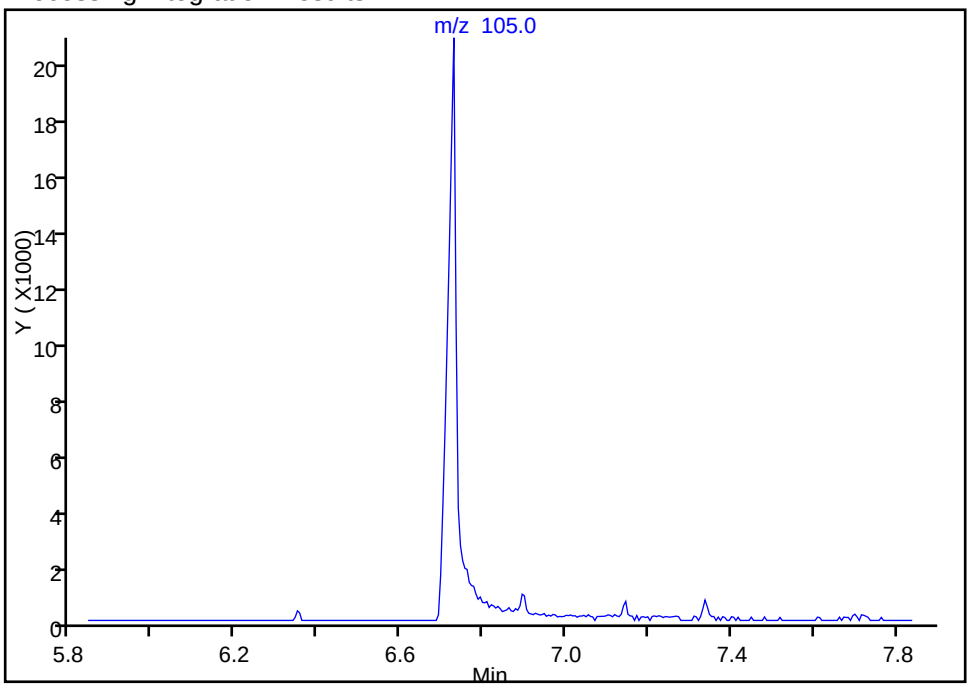
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08974.D
Injection Date: 23-Jul-2014 21:59:30 Instrument ID: HP5973W
Lims ID: IC AD1 .5
Client ID:
Operator ID: MKP ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

105 Benzoic acid, CAS: 65-85-0

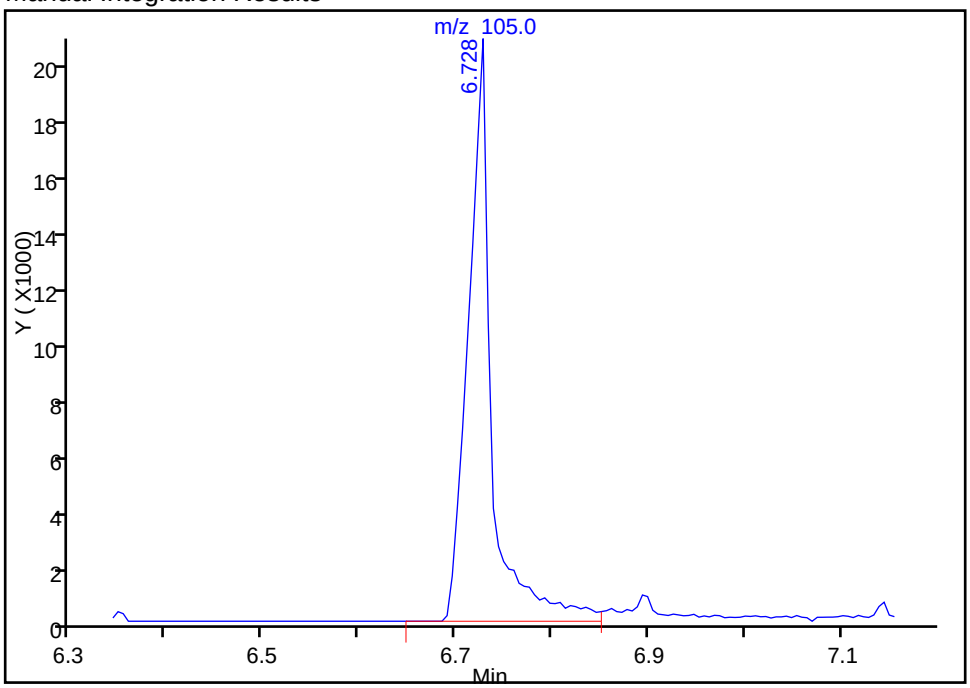
Not Detected
Expected RT: 6.84

Processing Integration Results



Manual Integration Results

RT: 6.73
Response: 34638
Amount: 1.841446



Reviewer: pagem, 24-Jul-2014 08:06:09
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

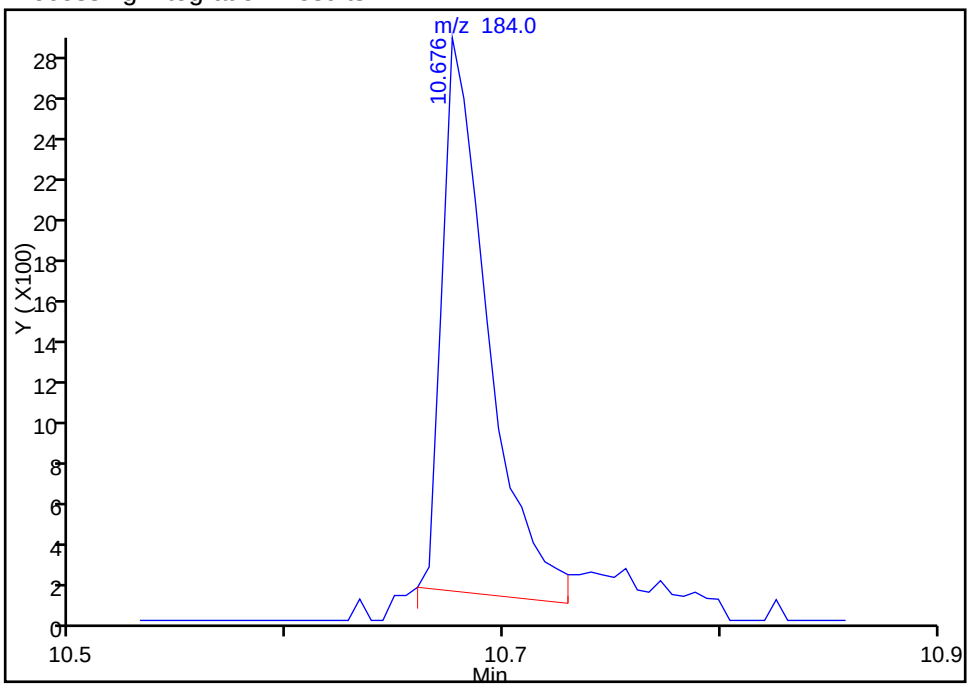
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08974.D
Injection Date: 23-Jul-2014 21:59:30 Instrument ID: HP5973W
Lims ID: IC AD1 .5
Client ID:
Operator ID: MKP ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

192 Benzidine, CAS: 92-87-5

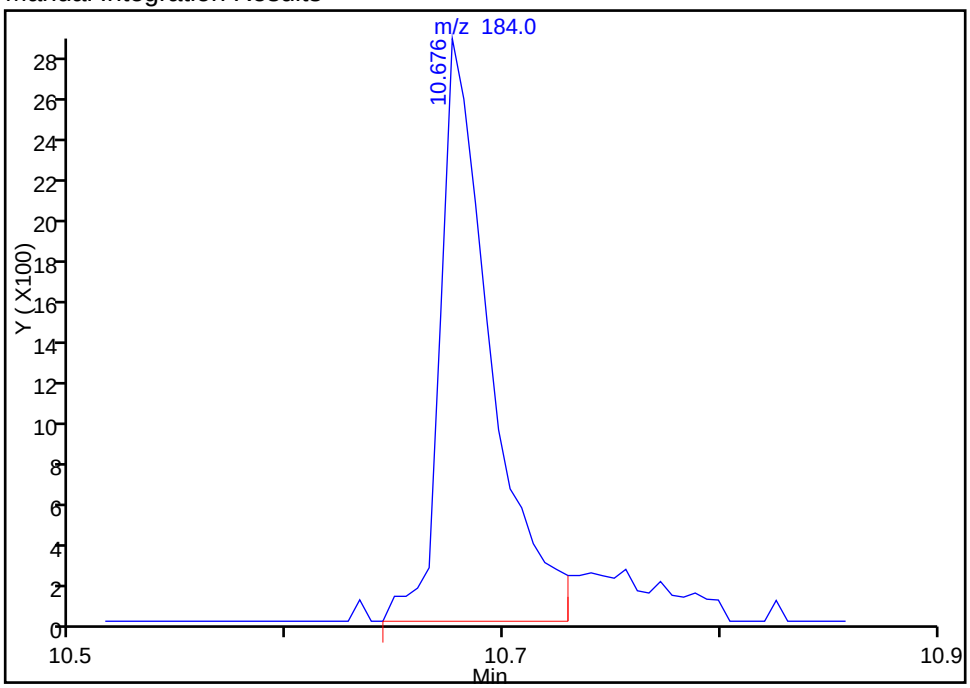
Processing Integration Results

RT: 10.68
Response: 3949
Amount: 0.935278



Manual Integration Results

RT: 10.68
Response: 4573
Amount: 0.910561



Reviewer: pagem, 24-Jul-2014 08:06:09
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08975.D
Lims ID: IC AD1 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jul-2014 22:23:30 ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-013
Misc. Info.: IC AD1 2
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:20 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:06:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.841	-0.005	91	194408	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.899	-0.005	98	673970	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	420617	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.565	-0.005	97	682787	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.846	-0.005	96	840289	4.00	4.00	
* 6 Perylene-d12	264	13.545	13.545	0.000	99	901302	4.00	4.00	
71 Benzaldehyde	77	5.468	5.473	-0.005	91	74581	2.00	1.96	
105 Benzoic acid	105	6.782	6.841	-0.059	83	212516	8.00	6.61	
114 Caprolactam	113	7.268	7.295	-0.027	90	32978	2.00	1.97	
157 N-Nitrosodiphenylamine	169	8.887	8.892	-0.005	59	173361	2.00	2.14	
170 Atrazine	200	9.330	9.335	-0.005	94	77107	2.00	2.04	
192 Benzidine	184	10.671	10.671	0.000	99	36115	2.00	1.68	M
204 3,3'-Dichlorobenzidine	252	11.803	11.809	-0.006	70	122793	2.00	1.93	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_AD1LVI_WRK_00045 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00034 Amount Added: 20.00 Units: uL Run Reagent

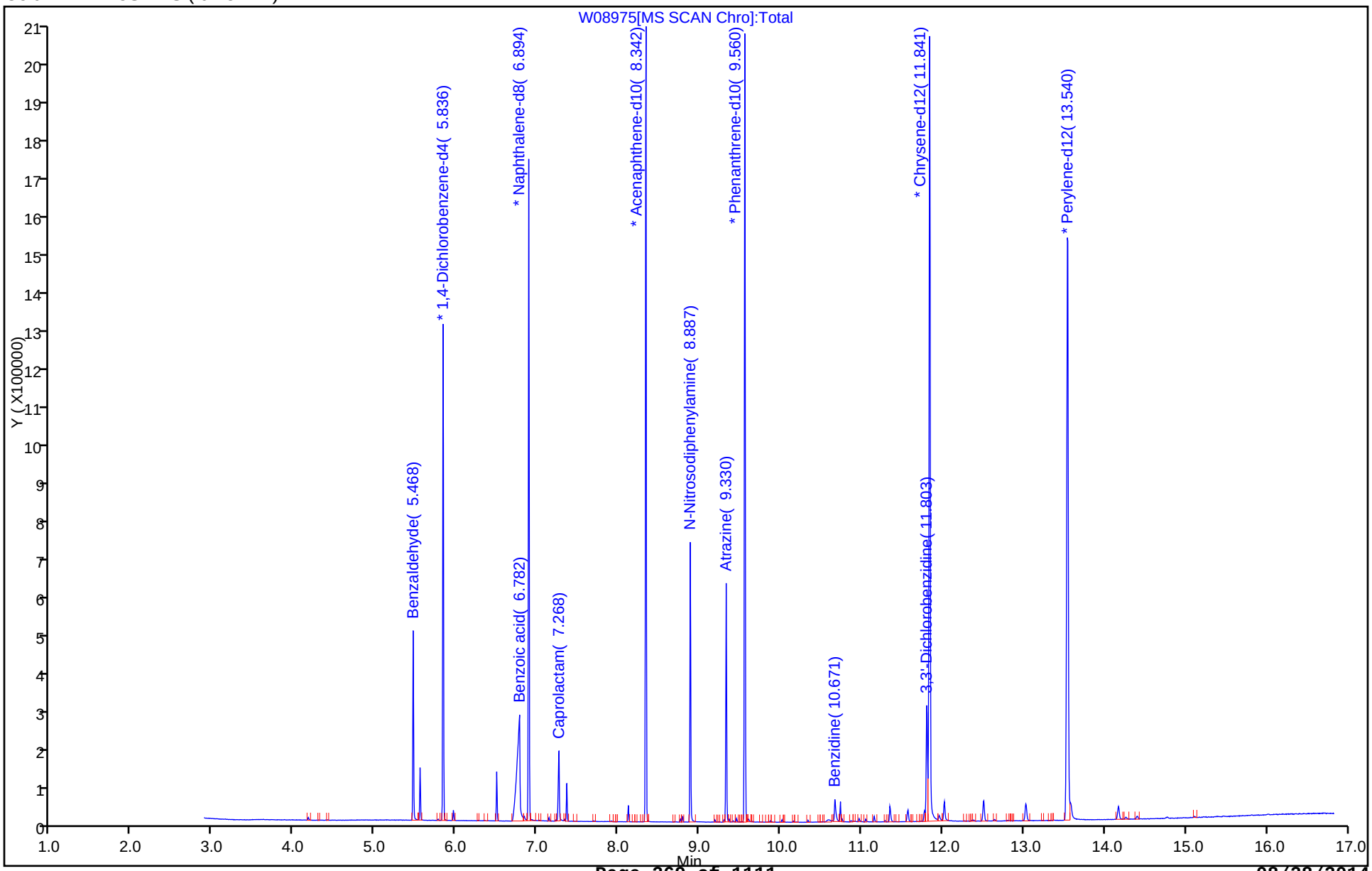
Report Date: 24-Jul-2014 12:19:20 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08975.D

Injection Date:	23-Jul-2014 22:23:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC AD1 2			Worklist Smp#:	13
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

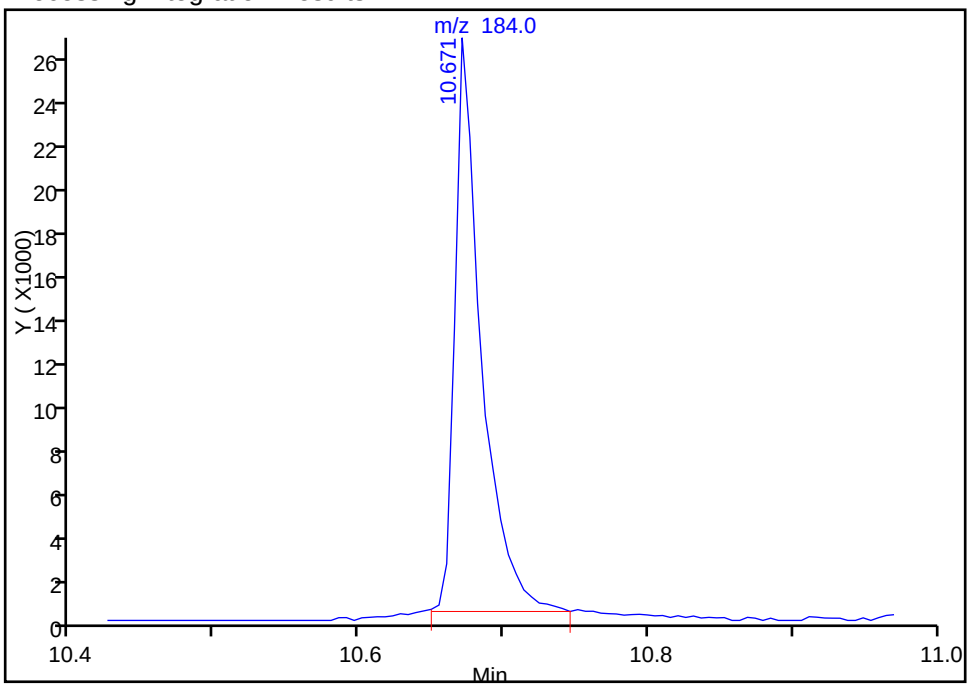
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08975.D
Injection Date: 23-Jul-2014 22:23:30 Instrument ID: HP5973W
Lims ID: IC AD1 2
Client ID:
Operator ID: MKP ALS Bottle#: 12 Worklist Smp#: 13
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

192 Benzidine, CAS: 92-87-5

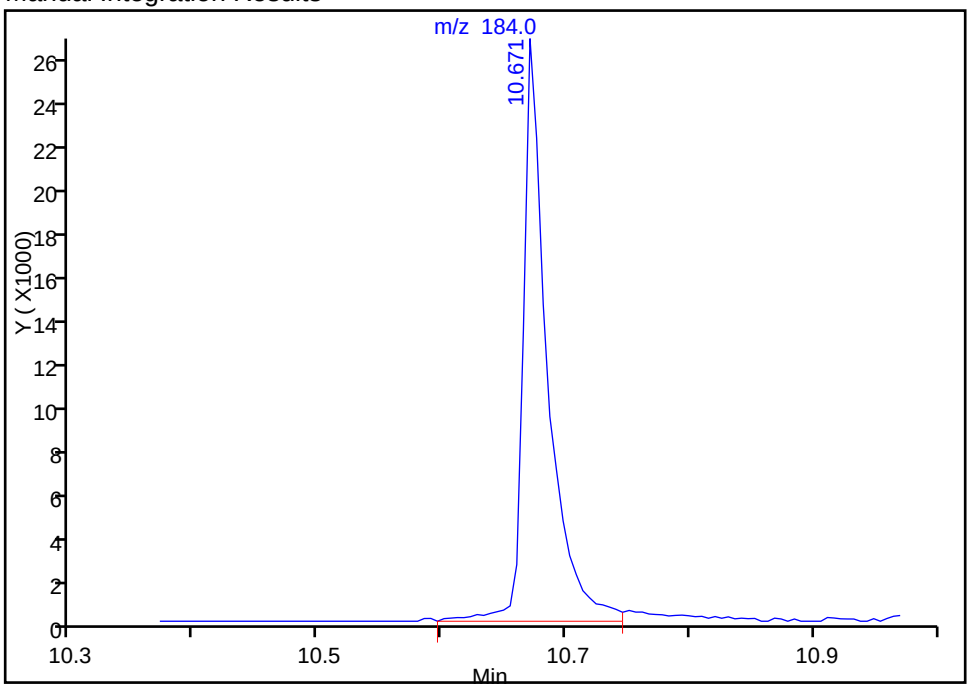
Processing Integration Results

RT: 10.67
Response: 32972
Amount: 1.634639



Manual Integration Results

RT: 10.67
Response: 36115
Amount: 1.683750



Reviewer: pagem, 24-Jul-2014 08:06:36
Audit Action: Split an Integrated Peak
Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08976.D
Lims ID: IC AD1 5
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jul-2014 22:48:30 ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-014
Misc. Info.: IC AD1 5
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:21 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:06:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.836	0.000	91	170035	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.894	0.000	98	690042	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	432636	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.560	0.000	97	704942	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.841	0.000	96	857681	4.00	4.00	
* 6 Perylene-d12	264	13.540	13.540	0.000	99	913637	4.00	4.00	
71 Benzaldehyde	77	5.473	5.473	0.000	91	169378	5.00	5.10	
105 Benzoic acid	105	6.841	6.841	0.000	83	679152	20.0	18.8	
114 Caprolactam	113	7.295	7.295	0.000	92	86495	5.00	5.06	
157 N-Nitrosodiphenylamine	169	8.892	8.892	0.000	59	441594	5.00	5.27	
170 Atrazine	200	9.335	9.335	0.000	94	204113	5.00	5.24	
192 Benzidine	184	10.671	10.671	0.000	99	165837	5.00	4.59	
204 3,3'-Dichlorobenzidine	252	11.809	11.809	0.000	70	299374	5.00	4.62	

Reagents:

MB_AD1LVI_WRK_00046 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00034 Amount Added: 20.00 Units: uL Run Reagent

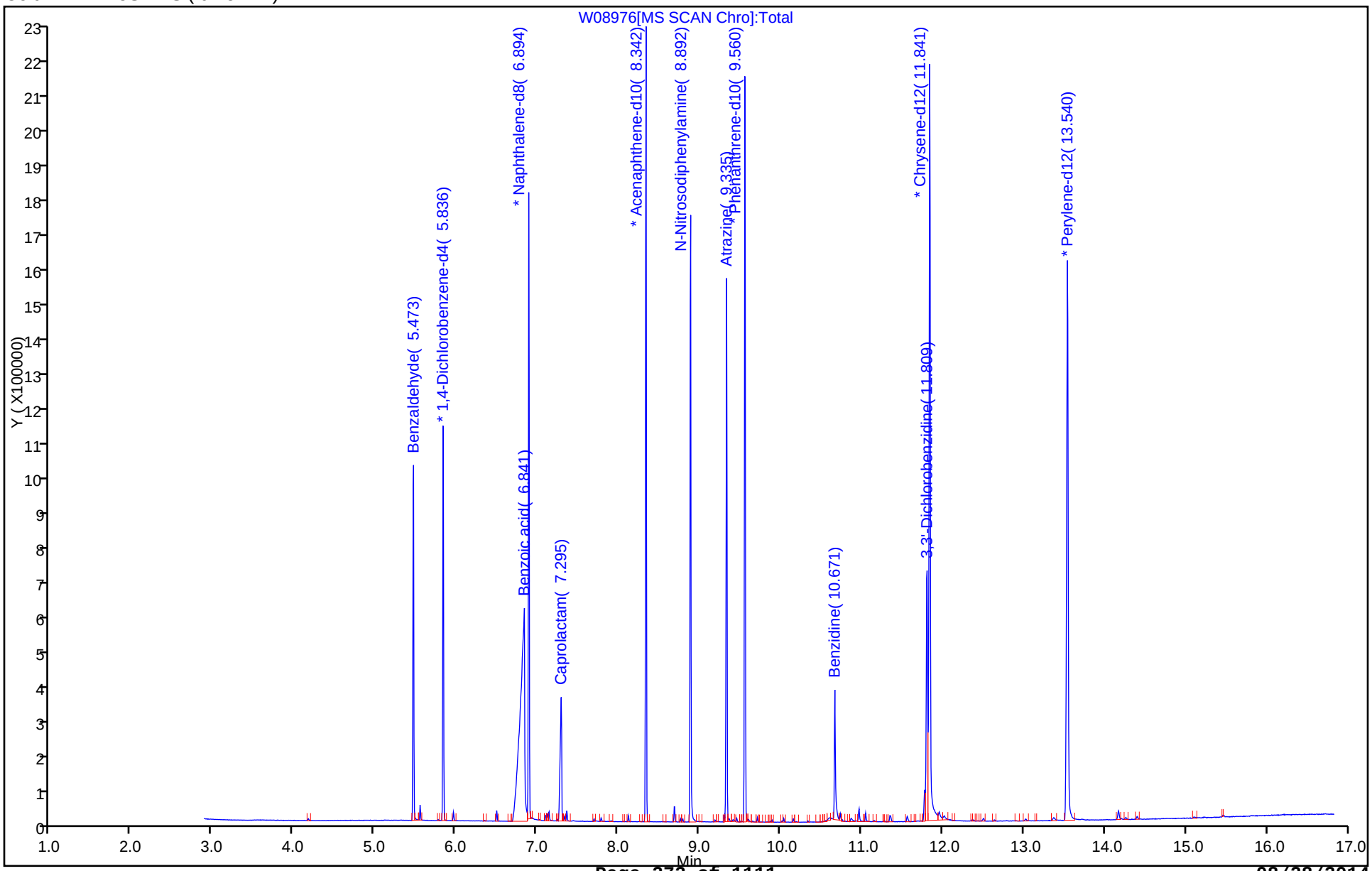
Report Date: 24-Jul-2014 12:19:22 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08976.D

Injection Date:	23-Jul-2014 22:48:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC AD1 5			Worklist Smp#:	14
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08977.D
Lims ID: IC AD1 8
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jul-2014 23:13:30 ALS Bottle#: 14 Worklist Smp#: 15
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-015
Misc. Info.: IC AD1 8
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:24 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:06:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.836	0.000	91	148083	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.894	0.000	98	652515	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	409512	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.560	0.000	97	671101	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.841	0.000	96	813438	4.00	4.00	
* 6 Perylene-d12	264	13.540	13.540	0.000	99	832419	4.00	4.00	
71 Benzaldehyde	77	5.473	5.473	0.000	92	242094	8.00	8.37	
105 Benzoic acid	105	6.873	6.841	0.032	80	1082933	32.0	31.0	
114 Caprolactam	113	7.311	7.295	0.016	90	132232	8.00	8.18	
157 N-Nitrosodiphenylamine	169	8.892	8.892	0.000	60	627904	8.00	7.87	
170 Atrazine	200	9.341	9.335	0.006	94	302467	8.00	8.20	
192 Benzidine	184	10.671	10.671	0.000	99	323188	8.00	8.11	
204 3,3'-Dichlorobenzidine	252	11.809	11.809	0.000	70	472350	8.00	7.68	

Reagents:

MB_AD1LVI_WRK_00047 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00034 Amount Added: 20.00 Units: uL Run Reagent

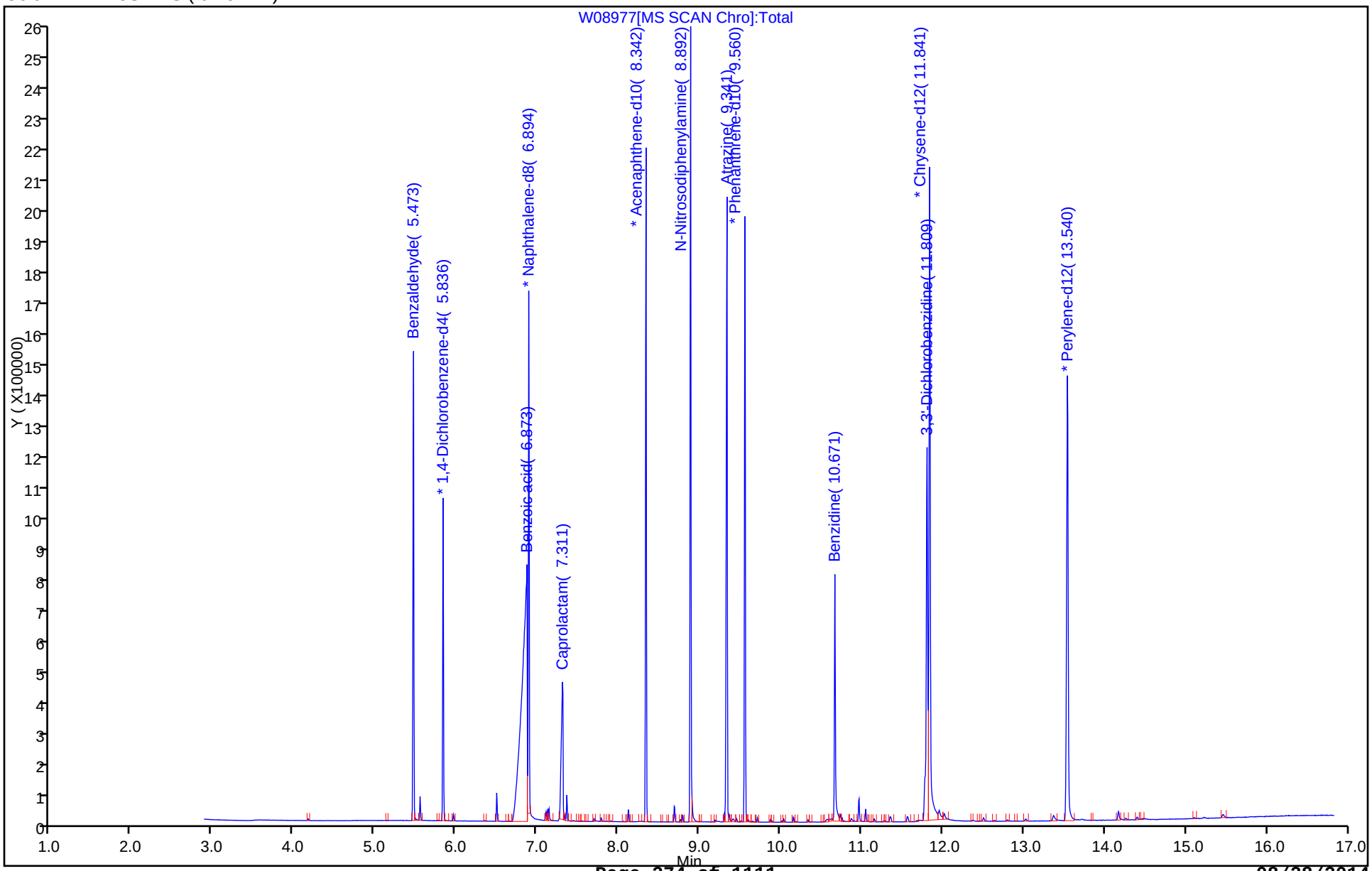
Report Date: 24-Jul-2014 12:19:24 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08977.D

Injection Date:	23-Jul-2014 23:13:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC AD1 8			Worklist Smp#:	15
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08978.D
Lims ID: IC AD1 10
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jul-2014 23:38:30 ALS Bottle#: 15 Worklist Smp#: 16
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-016
Misc. Info.: IC AD1 10
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:26 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:07:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.836	0.000	91	167742	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.894	0.000	98	685025	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	434808	4.00	4.00	
* 4 Phenanthrene-d10	188	9.560	9.560	0.000	96	709677	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.841	0.000	96	868707	4.00	4.00	
* 6 Perylene-d12	264	13.540	13.540	0.000	99	894116	4.00	4.00	
71 Benzaldehyde	77	5.473	5.473	0.000	91	335308	10.0	10.2	
105 Benzoic acid	105	6.894	6.841	0.053	43	1506206	40.0	40.8	
114 Caprolactam	113	7.327	7.295	0.032	90	181201	10.0	10.7	
157 N-Nitrosodiphenylamine	169	8.892	8.892	0.000	61	810217	10.0	9.61	
170 Atrazine	200	9.346	9.335	0.011	94	408785	10.0	10.4	
192 Benzidine	184	10.671	10.671	0.000	99	467089	10.0	10.3	
204 3,3'-Dichlorobenzidine	252	11.809	11.809	0.000	71	664348	10.0	10.1	

Reagents:

MB_AD1LVI_WRK_00048 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00034 Amount Added: 20.00 Units: uL Run Reagent

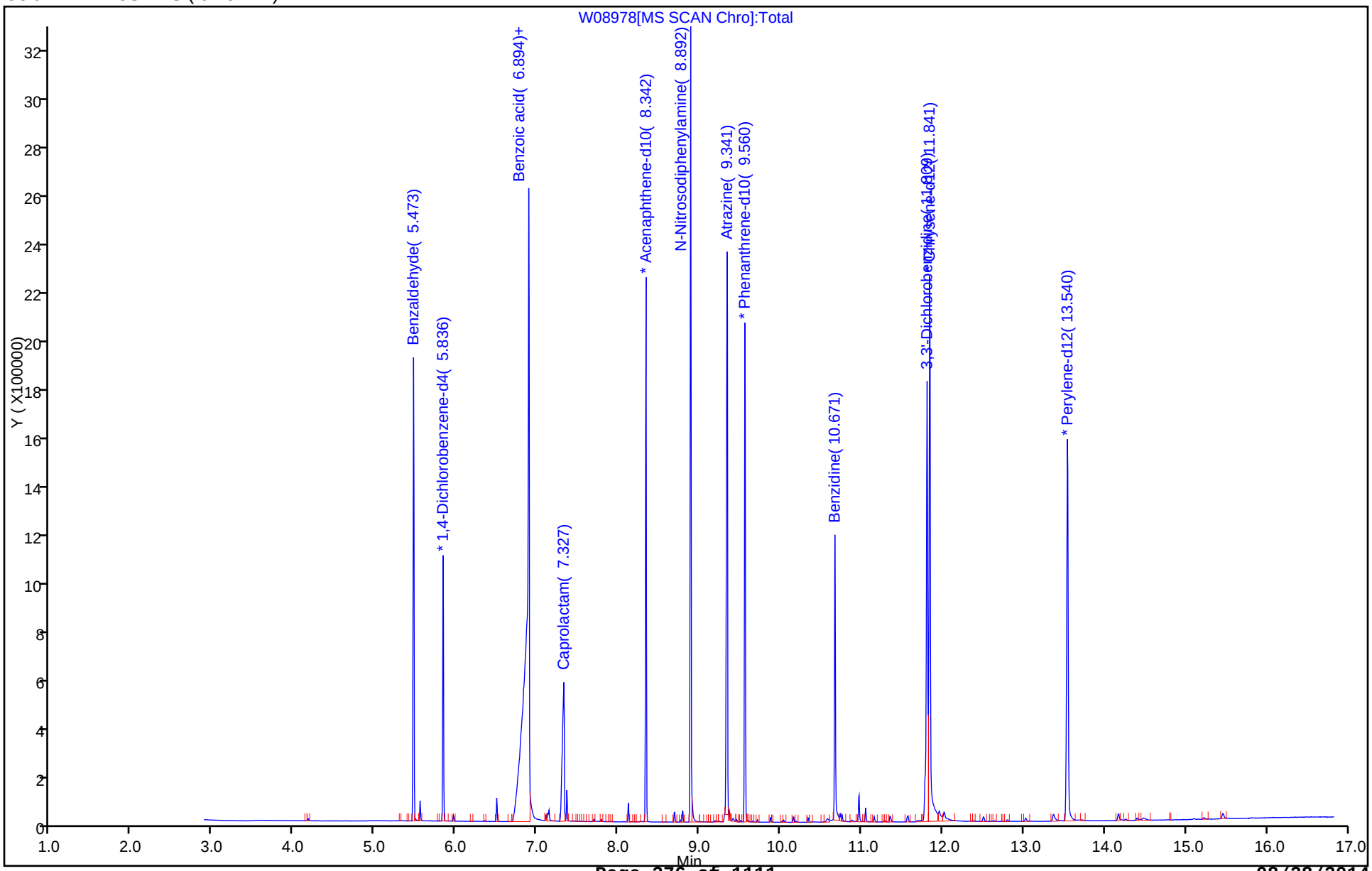
Report Date: 24-Jul-2014 12:19:26 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08978.D

Injection Date:	23-Jul-2014 23:38:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC AD1 10			Worklist Smp#:	16
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08979.D
Lims ID: IC AD1 15
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Jul-2014 00:03:30 ALS Bottle#: 16 Worklist Smp#: 17
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034029-017
Misc. Info.: IC AD1 15
Operator ID: MKP Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:19:28 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 24-Jul-2014 08:07:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.836	5.836	0.000	91	168693	4.00	4.00	
* 2 Naphthalene-d8	136	6.894	6.894	0.000	98	701770	4.00	4.00	
* 3 Acenaphthene-d10	164	8.342	8.342	0.000	92	449928	4.00	4.00	
* 4 Phenanthrene-d10	188	9.565	9.560	0.005	96	736035	4.00	4.00	
* 5 Chrysene-d12	240	11.841	11.841	0.000	96	887125	4.00	4.00	
* 6 Perylene-d12	264	13.545	13.540	0.005	99	904766	4.00	4.00	
71 Benzaldehyde	77	5.478	5.473	0.005	92	485289	15.0	14.7	
105 Benzoic acid	105	6.937	6.841	0.096	80	2385352	60.0	62.6	
114 Caprolactam	113	7.353	7.295	0.058	87	282606	15.0	16.3	
157 N-Nitrosodiphenylamine	169	8.897	8.892	0.005	63	1145761	15.0	13.1	
170 Atrazine	200	9.351	9.335	0.016	94	614624	15.0	15.2	
192 Benzidine	184	10.676	10.671	0.005	99	760990	15.0	14.9	
204 3,3'-Dichlorobenzidine	252	11.814	11.809	0.005	71	1077650	15.0	16.1	

Reagents:

MB_AD1LVI_WRK_00049 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00034 Amount Added: 20.00 Units: uL Run Reagent

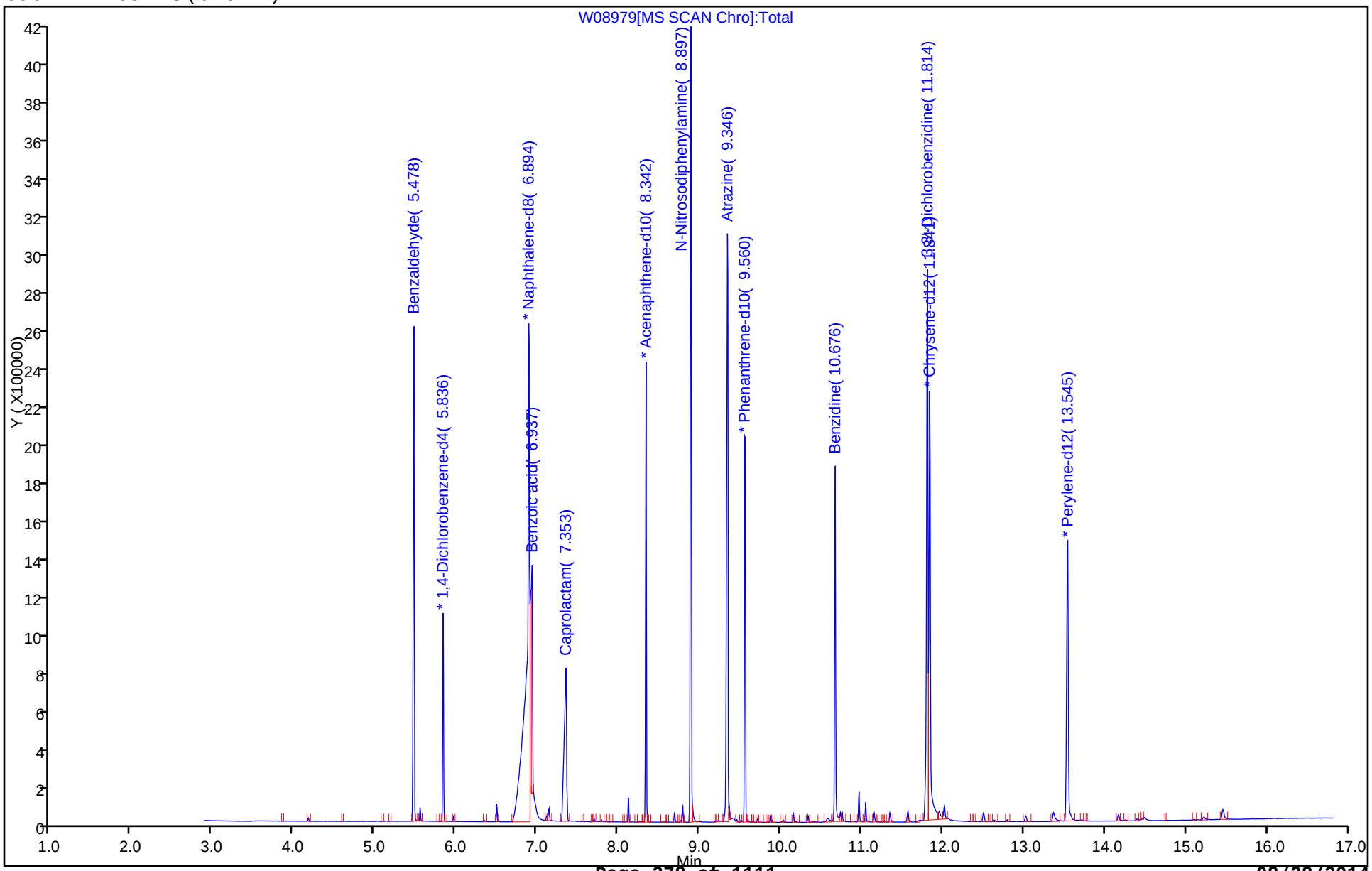
Report Date: 24-Jul-2014 12:19:29 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08979.D

Injection Date:	24-Jul-2014 00:03:30	Instrument ID:	HP5973W	Operator ID:	MKP
Lims ID:	IC AD1 15			Worklist Smp#:	17
Client ID:					
Injection Vol:	4.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCVIS 480-196033/3 Calibration Date: 08/02/2014 12:48

Instrument ID: HP5973W Calib Start Date: 07/23/2014 18:10

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/23/2014 20:44

Lab File ID: W09266.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Qua		0.4719	0.0100	7460	5000	49.2	50.0
N-Nitrosodimethylamine	Ave	0.2547	0.2770	0.0100	5440	5000	8.8	25.0
Pyridine	Qua		0.5385	0.0100	6050	5000	20.9	50.0
Aniline	Ave	1.557	1.485	0.0100	4770	5000	-4.6	50.0
Phenol	Ave	1.312	1.340	0.8000	5110	5000	2.2	20.0
Bis(2-chloroethyl)ether	Ave	1.169	1.159	0.7000	4950	5000	-0.9	20.0
2-Chlorophenol	Ave	1.280	1.365	0.8000	5330	5000	6.6	20.0
1,3-Dichlorobenzene	Ave	1.512	1.572	0.0100	5200	5000	4.0	20.0
1,4-Dichlorobenzene	Ave	1.517	1.573	0.0100	5180	5000	3.7	20.0
1,2-Dichlorobenzene	Ave	1.457	1.500	0.0100	5150	5000	3.0	20.0
Benzyl alcohol	Ave	0.7496	0.7602	0.0100	5070	5000	1.4	50.0
bis (2-chloroisopropyl) ether	Ave	0.9430	0.8714	0.0100	4620	5000	-7.6	20.0
2-Methylphenol	Ave	1.097	1.112	0.7000	5070	5000	1.4	20.0
Acetophenone	Lin1		1.504	0.0100	5140	5000	2.8	40.0
N-Nitrosodi-n-propylamine	Ave	0.6655	0.6288	0.5000	4720	5000	-5.5	20.0
4-Methylphenol	Ave	1.154	1.113	0.6000	4820	5000	-3.6	20.0
Hexachloroethane	Ave	0.5166	0.5244	0.3000	5080	5000	1.5	20.0
Nitrobenzene	Ave	0.2693	0.2643	0.2000	4910	5000	-1.9	20.0
Isophorone	Ave	0.4945	0.4701	0.4000	4750	5000	-4.9	20.0
2-Nitrophenol	Ave	0.1921	0.2153	0.1000	5610	5000	12.1	20.0
2,4-Dimethylphenol	Ave	0.2982	0.2970	0.2000	4980	5000	-0.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.3513	0.3443	0.3000	4900	5000	-2.0	20.0
2,4-Dichlorophenol	Ave	0.3172	0.3363	0.2000	5300	5000	6.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3908	0.4100	0.0100	5250	5000	4.9	20.0
Naphthalene	Lin1		0.9538	0.7000	5430	5000	8.5	20.0
4-Chloroaniline	Lin1		0.2494	0.0100	3320	5000	-33.6*	20.0
Hexachlorobutadiene	Ave	0.2542	0.2666	0.0100	5240	5000	4.9	20.0
4-Chloro-3-methylphenol	Ave	0.2487	0.2576	0.2000	5180	5000	3.6	20.0
2-Methylnaphthalene	Qua		0.7143	0.4000	4950	5000	-1.0	20.0
1-Methylnaphthalene	Qua		0.6689	0.0100	4930	5000	-1.5	40.0
Hexachlorocyclopentadiene	Lin1		0.3268	0.0500	4890	5000	-2.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6695	0.7129	0.0100	5320	5000	6.5	40.0
2,4,6-Trichlorophenol	Ave	0.4101	0.4394	0.2000	5360	5000	7.1	20.0
2,4,5-Trichlorophenol	Ave	0.4240	0.4647	0.2000	5480	5000	9.6	20.0
Biphenyl	Qua		1.367	0.0100	5010	5000	0.1	40.0
2-Chloronaphthalene	Qua		1.139	0.8000	4880	5000	-2.3	20.0
2-Nitroaniline	Ave	0.1810	0.1863	0.0100	5140	5000	2.9	20.0
Dimethyl phthalate	Ave	1.255	1.285	0.0100	5120	5000	2.4	20.0
1,3-Dinitrobenzene	Lin1		0.1532	0.0100	5150	5000	2.9	50.0
2,6-Dinitrotoluene	Ave	0.2991	0.3282	0.2000	5490	5000	9.7	25.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCVIS 480-196033/3 Calibration Date: 08/02/2014 12:48

Instrument ID: HP5973W Calib Start Date: 07/23/2014 18:10

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/23/2014 20:44

Lab File ID: W09266.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Qua		1.622	0.9000	5220	5000	4.5	20.0
3-Nitroaniline	Qua		0.1280	0.0100	3710	5000	-25.8*	20.0
Acenaphthene	Ave	1.127	1.131	0.0100	5020	5000	0.4	20.0
2,4-Dinitrophenol	Qua		0.1557	0.0100	10100	10000	0.6	20.0
2,4-Dinitrotoluene	Ave	0.3776	0.4047	0.0100	5360	5000	7.2	20.0
Dibenzofuran	Qua		1.526	0.8000	5050	5000	1.1	20.0
4-Nitrophenol	Lin1		0.0813	0.0100	7900	10000	-21.0*	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3785	0.4044	0.0100	5340	5000	6.8	40.0
Diethyl phthalate	Qua		1.131	0.0100	4870	5000	-2.7	20.0
Hexadecane	Qua		0.3990	0.0100	4520	5000	-9.7	40.0
4-Chlorophenyl phenyl ether	Qua		0.7082	0.4000	5020	5000	0.5	20.0
Fluorene	Qua		1.237	0.9000	4950	5000	-1.1	20.0
4-Nitroaniline	Lin1		0.0904	0.0100	4070	5000	-18.6	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1490	0.0100	9920	10000	-0.8	20.0
1,2-Diphenylhydrazine	Ave	0.7898	0.7724	0.0100	4890	5000	-2.2	25.0
trans-Azobenzene	Ave	0.4705	0.4479	0.0100	4760	5000	-4.8	40.0
4-Bromophenyl phenyl ether	Ave	0.2980	0.3170	0.1000	5320	5000	6.4	20.0
Hexachlorobenzene	Ave	0.3853	0.4150	0.1000	5390	5000	7.7	20.0
Pentachlorophenol	Lin1		0.1900	0.0500	9670	10000	-3.3	20.0
Phenanthrene	Qua		1.024	0.7000	5080	5000	1.7	20.0
Anthracene	Qua		1.067	0.7000	5220	5000	4.5	20.0
Carbazole	Lin1		0.5516	0.0100	4700	5000	-6.0	20.0
Di-n-butyl phthalate	Qua		1.017	0.0100	4960	5000	-0.9	20.0
Fluoranthene	Qua		1.169	0.6000	5170	5000	3.3	20.0
Pyrene	Qua		1.009	0.6000	5120	5000	2.3	20.0
Butyl benzyl phthalate	Ave	0.3977	0.4050	0.0100	5090	5000	1.8	20.0
Benzo[a]anthracene	Ave	1.048	1.095	0.8000	5220	5000	4.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5566	0.5587	0.0100	5020	5000	0.4	20.0
Chrysene	Qua		0.9801	0.7000	5210	5000	4.1	20.0
Di-n-octyl phthalate	Ave	0.9099	0.9903	0.0100	5440	5000	8.8	20.0
Benzo[b]fluoranthene	Ave	1.051	1.069	0.7000	5080	5000	1.7	20.0
Benzo[k]fluoranthene	Qua		1.141	0.7000	5010	5000	0.2	20.0
Benzo[a]pyrene	Ave	0.9662	1.041	0.7000	5390	5000	7.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.271	1.354	0.5000	5320	5000	6.5	20.0
Dibenz(a,h)anthracene	Ave	1.059	1.146	0.4000	5410	5000	8.2	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.079	0.5000	5230	5000	4.6	20.0
2-Fluorophenol	Ave	0.7361	0.8669	0.0100	5890	5000	17.8	25.0
Phenol-d5	Ave	0.9531	1.058	0.0100	5550	5000	11.0	25.0
Nitrobenzene-d5	Ave	0.2270	0.2283	0.0100	5030	5000	0.6	25.0
2-Fluorobiphenyl	Qua		1.118	0.0100	5030	5000	0.5	25.0
2,4,6-Tribromophenol	Ave	0.1767	0.2028	0.0100	5740	5000	14.8	25.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCVIS 480-196033/3 Calibration Date: 08/02/2014 12:48

Instrument ID: HP5973W Calib Start Date: 07/23/2014 18:10

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/23/2014 20:44

Lab File ID: W09266.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
p-Terphenyl-d14	Qua		0.7790	0.0100	5240	5000	4.7	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09266.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Aug-2014 12:48:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-003
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub12

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2014 15:10:26 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: quirkp Date: 02-Aug-2014 14:00:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.738	5.738	0.000	89	172222	4.00	4.00	
* 2 Naphthalene-d8	136	6.806	6.806	0.000	98	612729	4.00	4.00	
* 3 Acenaphthene-d10	164	8.254	8.254	0.000	92	378256	4.00	4.00	
* 4 Phenanthrene-d10	188	9.472	9.472	0.000	96	652365	4.00	4.00	
* 5 Chrysene-d12	240	11.726	11.726	0.000	96	772725	4.00	4.00	
* 6 Perylene-d12	264	13.382	13.382	0.000	99	892461	4.00	4.00	
$ 7 2-Fluorophenol	112	4.632	4.632	0.000	84	186630	5.00	5.89	
$ 8 Phenol-d5	99	5.497	5.497	0.000	93	227828	5.00	5.55	
$ 9 Nitrobenzene-d5	82	6.208	6.208	0.000	78	174885	5.00	5.03	
$ 10 2-Fluorobiphenyl	172	7.704	7.704	0.000	99	528664	5.00	5.03	
$ 11 2,4,6-Tribromophenol	330	8.906	8.906	0.000	84	165367	5.00	5.74	
$ 12 p-Terphenyl-d14	244	10.775	10.775	0.000	97	752389	5.00	5.24	
55 1,4-Dioxane	88	2.778	2.778	0.000	85	101588	5.00	7.46	
53 N-Nitrosodimethylamine	42	3.131	3.131	0.000	82	59627	5.00	5.44	
52 Pyridine	52	3.163	3.163	0.000	93	115918	5.00	6.05	
69 Aniline	93	5.460	5.460	0.000	98	319787	5.00	4.77	
72 Phenol	94	5.508	5.508	0.000	92	288577	5.00	5.11	
74 Bis(2-chloroethyl)ether	93	5.519	5.519	0.000	95	249413	5.00	4.95	
75 2-Chlorophenol	128	5.577	5.577	0.000	89	293933	5.00	5.33	
267 n-Decane	57	5.609	5.609	0.000	0	183669	5.00	4.72	
78 1,3-Dichlorobenzene	146	5.684	5.684	0.000	96	338441	5.00	5.20	
77 1,4-Dichlorobenzene	146	5.748	5.748	0.000	96	338542	5.00	5.18	
73 1,2-Dichlorobenzene	146	5.877	5.877	0.000	98	322974	5.00	5.15	
79 Benzyl alcohol	108	5.882	5.882	0.000	95	163645	5.00	5.07	
83 2,2'-oxybis[1-chloropropan	45	5.978	5.978	0.000	88	187594	5.00	4.62	
82 2-Methylphenol	108	6.010	6.010	0.000	89	239334	5.00	5.07	
86 Acetophenone	105	6.085	6.085	0.000	93	323695	5.00	5.14	
87 N-Nitrosodi-n-propylamine	70	6.101	6.101	0.000	69	135366	5.00	4.72	
88 4-Methylphenol	108	6.138	6.138	0.000	98	239499	5.00	4.82	
89 Hexachloroethane	117	6.160	6.160	0.000	85	112889	5.00	5.08	
85 Nitrobenzene	77	6.229	6.229	0.000	76	202406	5.00	4.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
94 Isophorone	82	6.432	6.432	0.000	95	360046	5.00	4.75	
97 2-Nitrophenol	139	6.496	6.496	0.000	76	164907	5.00	5.61	
99 2,4-Dimethylphenol	107	6.566	6.566	0.000	87	227448	5.00	4.98	
103 Bis(2-chloroethoxy)methane	93	6.619	6.619	0.000	93	263705	5.00	4.90	
106 2,4-Dichlorophenol	162	6.721	6.721	0.000	84	257550	5.00	5.30	
100 1,2,4-Trichlorobenzene	180	6.758	6.758	0.000	91	314002	5.00	5.25	
107 Naphthalene	128	6.827	6.827	0.000	96	730494	5.00	5.43	
108 4-Chloroaniline	127	6.886	6.886	0.000	96	191015	5.00	3.32	M
110 Hexachlorobutadiene	225	6.929	6.929	0.000	88	204173	5.00	5.24	
117 4-Chloro-3-methylphenol	107	7.314	7.314	0.000	86	197319	5.00	5.18	
121 2-Methylnaphthalene	142	7.399	7.399	0.000	92	547112	5.00	4.95	
236 1-Methylnaphthalene	142	7.479	7.479	0.000	96	512313	5.00	4.93	
125 Hexachlorocyclopentadiene	237	7.527	7.527	0.000	91	154534	5.00	4.89	
124 1,2,4,5-Tetrachlorobenzene	216	7.538	7.538	0.000	93	337092	5.00	5.32	
127 2,4,6-Trichlorophenol	196	7.645	7.645	0.000	84	207776	5.00	5.36	
129 2,4,5-Trichlorophenol	196	7.693	7.693	0.000	92	219735	5.00	5.48	
130 1,1'-Biphenyl	154	7.784	7.784	0.000	95	646370	5.00	5.01	
131 2-Chloronaphthalene	162	7.800	7.800	0.000	91	538639	5.00	4.88	
132 2-Nitroaniline	65	7.896	7.896	0.000	92	88062	5.00	5.14	
134 Dimethyl phthalate	163	8.045	8.045	0.000	98	607601	5.00	5.12	
139 1,3-Dinitrobenzene	168	8.072	8.072	0.000	78	117297	5.00	5.15	
135 2,6-Dinitrotoluene	165	8.094	8.094	0.000	82	155182	5.00	5.49	
137 Acenaphthylene	152	8.136	8.136	0.000	97	766788	5.00	5.22	
140 3-Nitroaniline	138	8.248	8.248	0.000	84	60542	5.00	3.71	
141 Acenaphthene	153	8.281	8.281	0.000	93	534866	5.00	5.02	
142 2,4-Dinitrophenol	184	8.323	8.323	0.000	79	147211	10.0	10.1	
144 2,4-Dinitrotoluene	165	8.425	8.425	0.000	87	191329	5.00	5.36	
145 Dibenzofuran	168	8.425	8.425	0.000	98	721700	5.00	5.05	
143 4-Nitrophenol	109	8.430	8.430	0.000	58	76908	10.0	7.90	
147 2,3,4,6-Tetrachlorophenol	232	8.537	8.537	0.000	65	191194	5.00	5.34	
149 Diethyl phthalate	149	8.617	8.617	0.000	99	534971	5.00	4.87	
240 Hexadecane	57	8.628	8.628	0.000	86	188631	5.00	4.52	
151 Fluorene	166	8.703	8.703	0.000	94	584654	5.00	4.95	
152 4-Chlorophenyl phenyl ethe	204	8.703	8.703	0.000	81	334861	5.00	5.02	
153 4-Nitroaniline	138	8.756	8.756	0.000	93	42721	5.00	4.07	
154 4,6-Dinitro-2-methylphenol	198	8.761	8.761	0.000	96	242990	10.0	9.92	
158 Azobenzene	77	8.836	8.836	0.000	87	365217	5.00	4.76	
159 1,2-Diphenylhydrazine	77	8.836	8.836	0.000	91	365217	5.00	4.89	
164 4-Bromophenyl phenyl ether	248	9.103	9.103	0.000	53	258465	5.00	5.32	
168 Hexachlorobenzene	284	9.151	9.151	0.000	93	338443	5.00	5.39	
172 Pentachlorophenol	266	9.333	9.333	0.000	95	309899	10.0	9.67	
269 n-Octadecane	57	9.381	9.381	0.000	0	191381	5.00	4.77	
177 Phenanthrene	178	9.493	9.493	0.000	96	834959	5.00	5.08	
180 Anthracene	178	9.536	9.536	0.000	96	869757	5.00	5.22	
181 Carbazole	167	9.670	9.670	0.000	95	449774	5.00	4.70	
184 Di-n-butyl phthalate	149	9.953	9.953	0.000	98	829214	5.00	4.96	
191 Fluoranthene	202	10.466	10.466	0.000	97	953322	5.00	5.17	
193 Pyrene	202	10.647	10.647	0.000	95	974545	5.00	5.12	
200 Butyl benzyl phthalate	149	11.192	11.192	0.000	90	391164	5.00	5.09	
205 Benzo[a]anthracene	228	11.716	11.716	0.000	98	1057334	5.00	5.22	
206 Bis(2-ethylhexyl) phthalat	149	11.742	11.742	0.000	88	539674	5.00	5.02	
207 Chrysene	228	11.753	11.753	0.000	95	946633	5.00	5.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
208 Di-n-octyl phthalate	149	12.458	12.458	0.000	96	956574	5.00	5.44	
209 Benzo[b]fluoranthene	252	12.912	12.912	0.000	96	1192095	5.00	5.08	
211 Benzo[k]fluoranthene	252	12.950	12.950	0.000	97	1272483	5.00	5.01	
213 Benzo[a]pyrene	252	13.313	13.313	0.000	76	1161531	5.00	5.39	
215 Indeno[1,2,3-cd]pyrene	276	14.777	14.777	0.000	96	1510226	5.00	5.32	
216 Dibenz(a,h)anthracene	278	14.809	14.809	0.000	92	1278715	5.00	5.41	
217 Benzo[g,h,i]perylene	276	15.129	15.129	0.000	97	1203768	5.00	5.23	
S 220 Total Cresols	1				0			9.89	
S 218 3 & 4 Methylphenol	108				0			4.82	
S 219 3-Methylphenol	1				0		5.00	4.82	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_8270LV_WRK_00071	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00046	Amount Added: 20.00	Units: uL	Run Reagent

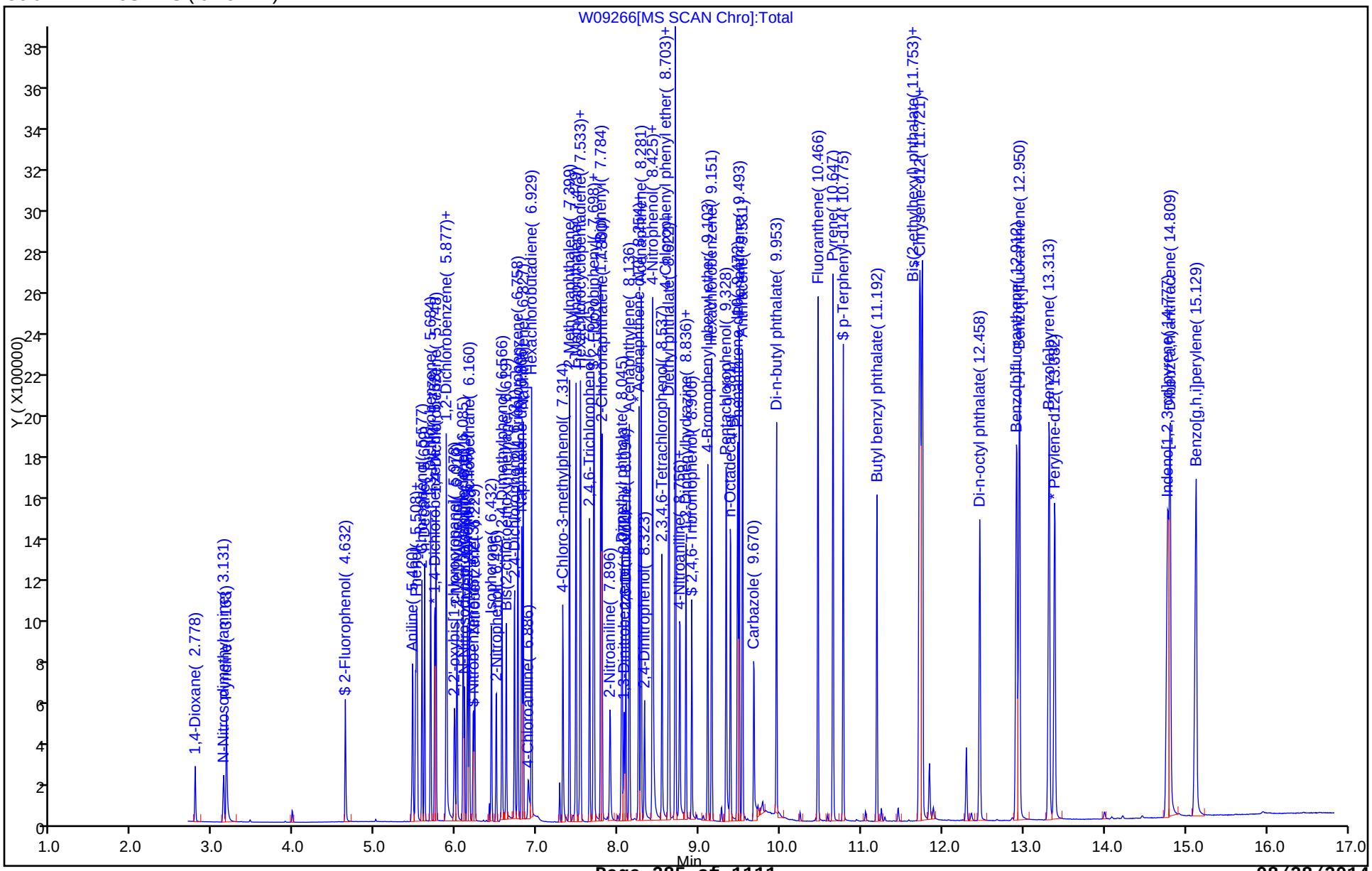
Report Date: 02-Aug-2014 15:10:30 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09266.D

Injection Date:	02-Aug-2014 12:48:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

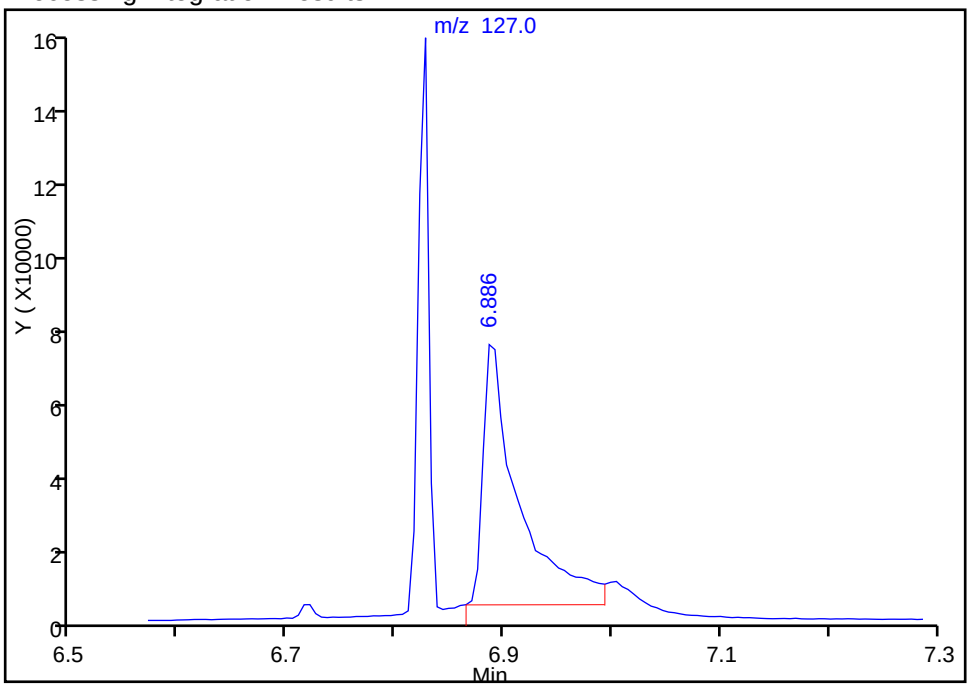
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09266.D
Injection Date: 02-Aug-2014 12:48:30 Instrument ID: HP5973W
Lims ID: CCVIS
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

108 4-Chloroaniline, CAS: 106-47-8

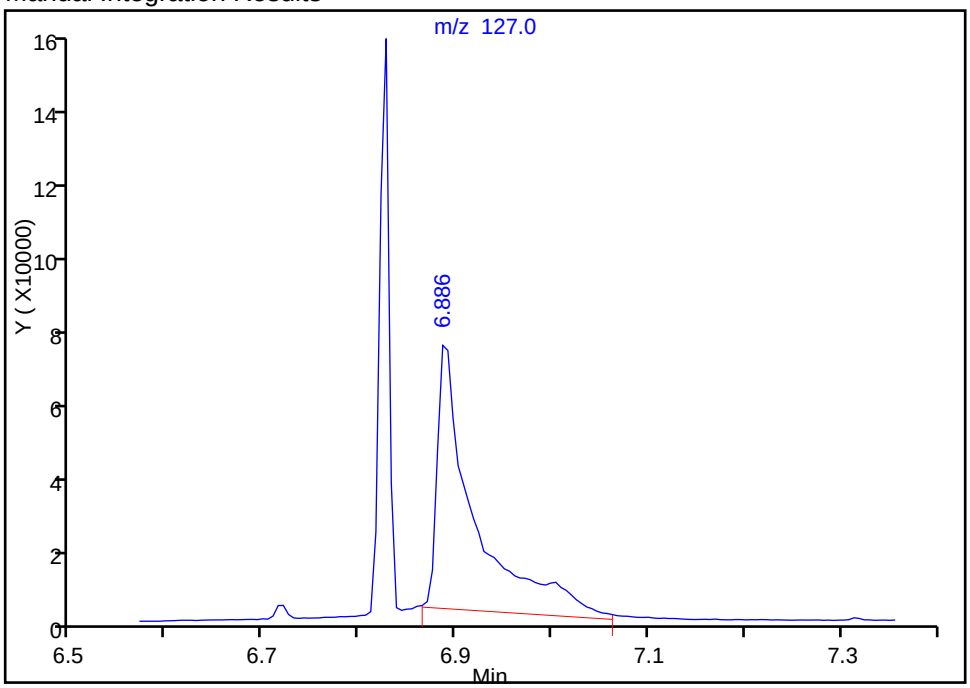
Processing Integration Results

RT: 6.89
Response: 160525
Amount: 2.811059



Manual Integration Results

RT: 6.89
Response: 191015
Amount: 3.317556



Reviewer: quirkp, 02-Aug-2014 13:11:31
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCVIS 480-196033/3 Calibration Date: 08/02/2014 12:48

Instrument ID: HP5973W Calib Start Date: 07/25/2014 14:34

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/25/2014 17:04

Lab File ID: W09266.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Decane	Ave	0.9044	0.8532	0.0100	4720	5000	-5.7	40.0
n-Octadecane	Ave	0.2460	0.2347	0.0100	4770	5000	-4.6	40.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09266.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Aug-2014 12:48:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-003
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub12

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2014 15:10:26 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: quirkp Date: 02-Aug-2014 14:00:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.738	5.738	0.000	89	172222	4.00	4.00	
* 2 Naphthalene-d8	136	6.806	6.806	0.000	98	612729	4.00	4.00	
* 3 Acenaphthene-d10	164	8.254	8.254	0.000	92	378256	4.00	4.00	
* 4 Phenanthrene-d10	188	9.472	9.472	0.000	96	652365	4.00	4.00	
* 5 Chrysene-d12	240	11.726	11.726	0.000	96	772725	4.00	4.00	
* 6 Perylene-d12	264	13.382	13.382	0.000	99	892461	4.00	4.00	
$ 7 2-Fluorophenol	112	4.632	4.632	0.000	84	186630	5.00	5.89	
$ 8 Phenol-d5	99	5.497	5.497	0.000	93	227828	5.00	5.55	
$ 9 Nitrobenzene-d5	82	6.208	6.208	0.000	78	174885	5.00	5.03	
$ 10 2-Fluorobiphenyl	172	7.704	7.704	0.000	99	528664	5.00	5.03	
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$ 12 p-Terphenyl-d14	244	10.775	10.775	0.000	97	752389	5.00	5.24	
55 1,4-Dioxane	88	2.778	2.778	0.000	85	101588	5.00	7.46	
53 N-Nitrosodimethylamine	42	3.131	3.131	0.000	82	59627	5.00	5.44	
52 Pyridine	52	3.163	3.163	0.000	93	115918	5.00	6.05	
69 Aniline	93	5.460	5.460	0.000	98	319787	5.00	4.77	
72 Phenol	94	5.508	5.508	0.000	92	288577	5.00	5.11	
74 Bis(2-chloroethyl)ether	93	5.519	5.519	0.000	95	249413	5.00	4.95	
75 2-Chlorophenol	128	5.577	5.577	0.000	89	293933	5.00	5.33	
267 n-Decane	57	5.609	5.609	0.000	0	183669	5.00	4.72	
78 1,3-Dichlorobenzene	146	5.684	5.684	0.000	96	338441	5.00	5.20	
77 1,4-Dichlorobenzene	146	5.748	5.748	0.000	96	338542	5.00	5.18	
73 1,2-Dichlorobenzene	146	5.877	5.877	0.000	98	322974	5.00	5.15	
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82 2-Methylphenol	108	6.010	6.010	0.000	89	239334	5.00	5.07	
86 Acetophenone	105	6.085	6.085	0.000	93	323695	5.00	5.14	
87 N-Nitrosodi-n-propylamine	70	6.101	6.101	0.000	69	135366	5.00	4.72	
88 4-Methylphenol	108	6.138	6.138	0.000	98	239499	5.00	4.82	
89 Hexachloroethane	117	6.160	6.160	0.000	85	112889	5.00	5.08	
85 Nitrobenzene	77	6.229	6.229	0.000	76	202406	5.00	4.91	

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99 2,4-Dimethylphenol	107	6.566	6.566	0.000	87	227448	5.00	4.98	
103 Bis(2-chloroethoxy)methane	93	6.619	6.619	0.000	93	263705	5.00	4.90	
106 2,4-Dichlorophenol	162	6.721	6.721	0.000	84	257550	5.00	5.30	
100 1,2,4-Trichlorobenzene	180	6.758	6.758	0.000	91	314002	5.00	5.25	
107 Naphthalene	128	6.827	6.827	0.000	96	730494	5.00	5.43	
108 4-Chloroaniline	127	6.886	6.886	0.000	96	191015	5.00	3.32	M
110 Hexachlorobutadiene	225	6.929	6.929	0.000	88	204173	5.00	5.24	
117 4-Chloro-3-methylphenol	107	7.314	7.314	0.000	86	197319	5.00	5.18	
121 2-Methylnaphthalene	142	7.399	7.399	0.000	92	547112	5.00	4.95	
236 1-Methylnaphthalene	142	7.479	7.479	0.000	96	512313	5.00	4.93	
125 Hexachlorocyclopentadiene	237	7.527	7.527	0.000	91	154534	5.00	4.89	
124 1,2,4,5-Tetrachlorobenzene	216	7.538	7.538	0.000	93	337092	5.00	5.32	
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131 2-Chloronaphthalene	162	7.800	7.800	0.000	91	538639	5.00	4.88	
132 2-Nitroaniline	65	7.896	7.896	0.000	92	88062	5.00	5.14	
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135 2,6-Dinitrotoluene	165	8.094	8.094	0.000	82	155182	5.00	5.49	
137 Acenaphthylene	152	8.136	8.136	0.000	97	766788	5.00	5.22	
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147 2,3,4,6-Tetrachlorophenol	232	8.537	8.537	0.000	65	191194	5.00	5.34	
149 Diethyl phthalate	149	8.617	8.617	0.000	99	534971	5.00	4.87	
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154 4,6-Dinitro-2-methylphenol	198	8.761	8.761	0.000	96	242990	10.0	9.92	
158 Azobenzene	77	8.836	8.836	0.000	87	365217	5.00	4.76	
159 1,2-Diphenylhydrazine	77	8.836	8.836	0.000	91	365217	5.00	4.89	
164 4-Bromophenyl phenyl ether	248	9.103	9.103	0.000	53	258465	5.00	5.32	
168 Hexachlorobenzene	284	9.151	9.151	0.000	93	338443	5.00	5.39	
172 Pentachlorophenol	266	9.333	9.333	0.000	95	309899	10.0	9.67	
269 n-Octadecane	57	9.381	9.381	0.000	0	191381	5.00	4.77	
177 Phenanthrene	178	9.493	9.493	0.000	96	834959	5.00	5.08	
180 Anthracene	178	9.536	9.536	0.000	96	869757	5.00	5.22	
181 Carbazole	167	9.670	9.670	0.000	95	449774	5.00	4.70	
184 Di-n-butyl phthalate	149	9.953	9.953	0.000	98	829214	5.00	4.96	
191 Fluoranthene	202	10.466	10.466	0.000	97	953322	5.00	5.17	
193 Pyrene	202	10.647	10.647	0.000	95	974545	5.00	5.12	
200 Butyl benzyl phthalate	149	11.192	11.192	0.000	90	391164	5.00	5.09	
205 Benzo[a]anthracene	228	11.716	11.716	0.000	98	1057334	5.00	5.22	
206 Bis(2-ethylhexyl) phthalat	149	11.742	11.742	0.000	88	539674	5.00	5.02	
207 Chrysene	228	11.753	11.753	0.000	95	946633	5.00	5.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
208 Di-n-octyl phthalate	149	12.458	12.458	0.000	96	956574	5.00	5.44	
209 Benzo[b]fluoranthene	252	12.912	12.912	0.000	96	1192095	5.00	5.08	
211 Benzo[k]fluoranthene	252	12.950	12.950	0.000	97	1272483	5.00	5.01	
213 Benzo[a]pyrene	252	13.313	13.313	0.000	76	1161531	5.00	5.39	
215 Indeno[1,2,3-cd]pyrene	276	14.777	14.777	0.000	96	1510226	5.00	5.32	
216 Dibenz(a,h)anthracene	278	14.809	14.809	0.000	92	1278715	5.00	5.41	
217 Benzo[g,h,i]perylene	276	15.129	15.129	0.000	97	1203768	5.00	5.23	
S 220 Total Cresols	1				0			9.89	
S 218 3 & 4 Methylphenol	108				0			4.82	
S 219 3-Methylphenol	1				0		5.00	4.82	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

MB_8270LV_WRK_00071	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00046	Amount Added: 20.00	Units: uL	Run Reagent

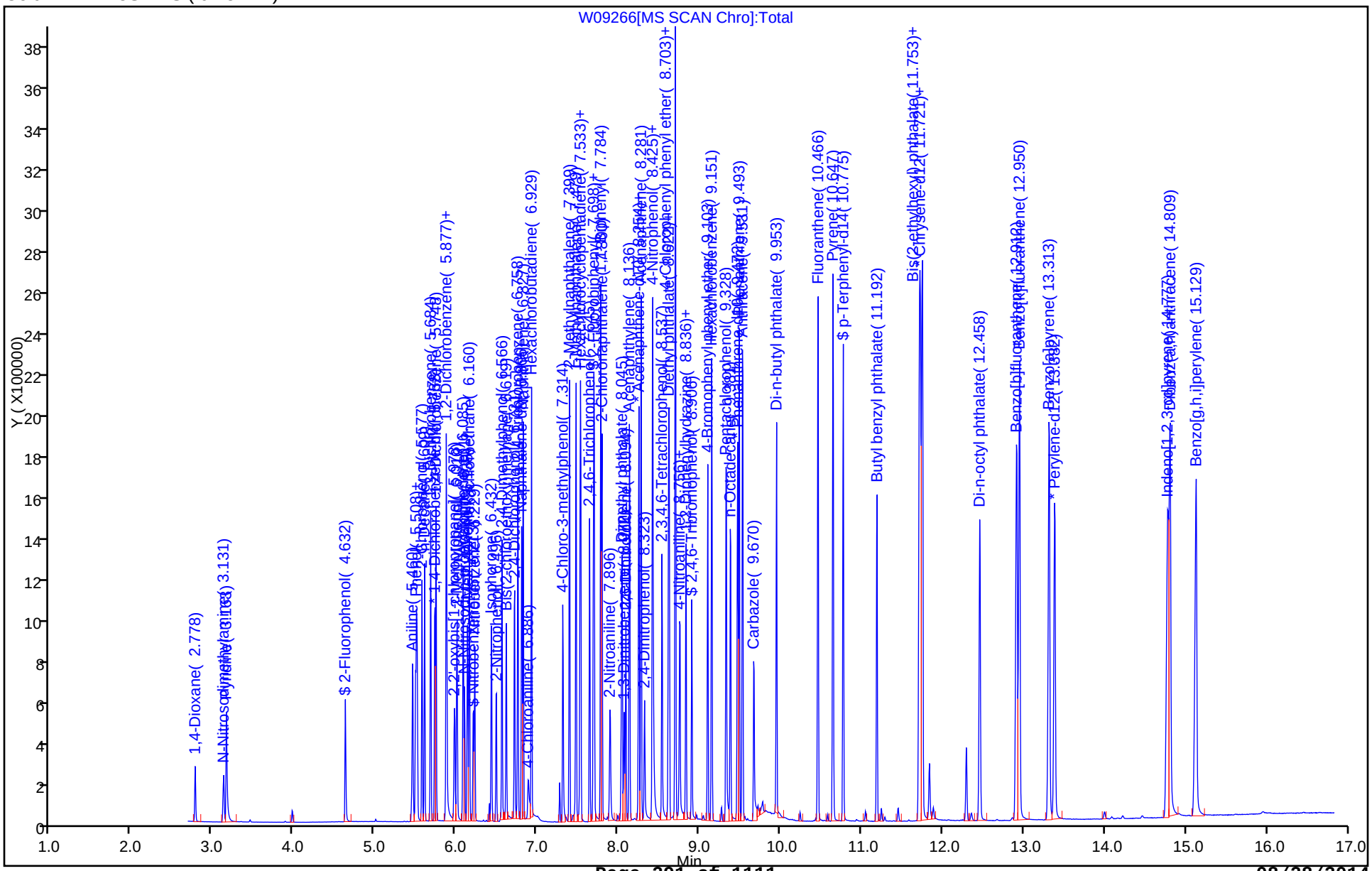
Report Date: 02-Aug-2014 15:10:30 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09266.D

Injection Date:	02-Aug-2014 12:48:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-196033/5 Calibration Date: 08/02/2014 14:04

Instrument ID: HP5973W Calib Start Date: 07/23/2014 21:34

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/24/2014 00:03

Lab File ID: W09268.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	0.7816	0.7810	0.0100	5000	5000	-0.0	40.0
Benzoic acid	Lin1		0.2190	0.0100	20800	20000	3.9	25.0
Caprolactam	Ave	0.0991	0.1024	0.0100	5170	5000	3.3	40.0
N-Nitrosodiphenylamine	Ave	0.4753	0.4894	0.0100	5150	5000	3.0	20.0
Atrazine	Ave	0.3603	0.3670	0.0100	5090	5000	1.9	25.0
Benzidine	Qua		0.1360	0.0100	4160	5000	-16.9	25.0
3,3'-Dichlorobenzidine	Ave	0.3023	0.3398	0.0100	5620	5000	12.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09268.D
Lims ID: CCV - ADD1
Client ID:
Sample Type: CCV
Inject. Date: 02-Aug-2014 14:04:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-005
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub8

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2014 14:23:14 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: quirkp Date: 02-Aug-2014 14:23:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.732	5.732	0.000	89	121183	4.00	4.00	
* 2 Naphthalene-d8	136	6.801	6.801	0.000	98	584856	4.00	4.00	
* 3 Acenaphthene-d10	164	8.249	8.249	0.000	91	383405	4.00	4.00	
* 4 Phenanthrene-d10	188	9.467	9.467	0.000	96	650544	4.00	4.00	
* 5 Chrysene-d12	240	11.721	11.721	0.000	96	799278	4.00	4.00	
* 6 Perylene-d12	264	13.377	13.377	0.000	98	883369	4.00	4.00	
71 Benzaldehyde	77	5.353	5.353	0.000	90	118306	5.00	5.00	
105 Benzoic acid	105	6.774	6.774	0.000	82	640378	20.0	20.8	
114 Caprolactam	113	7.218	7.218	0.000	89	74857	5.00	5.17	
157 N-Nitrosodiphenylamine	169	8.799	8.799	0.000	59	398000	5.00	5.15	
170 Atrazine	200	9.248	9.248	0.000	93	175897	5.00	5.09	
192 Benzidine	184	10.583	10.583	0.000	99	135845	5.00	4.16	
204 3,3'-Dichlorobenzidine	252	11.689	11.689	0.000	70	339471	5.00	5.62	

Reagents:

MB_AD1LVI_WRK_00051 Amount Added: 1.00 Units: mL
MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

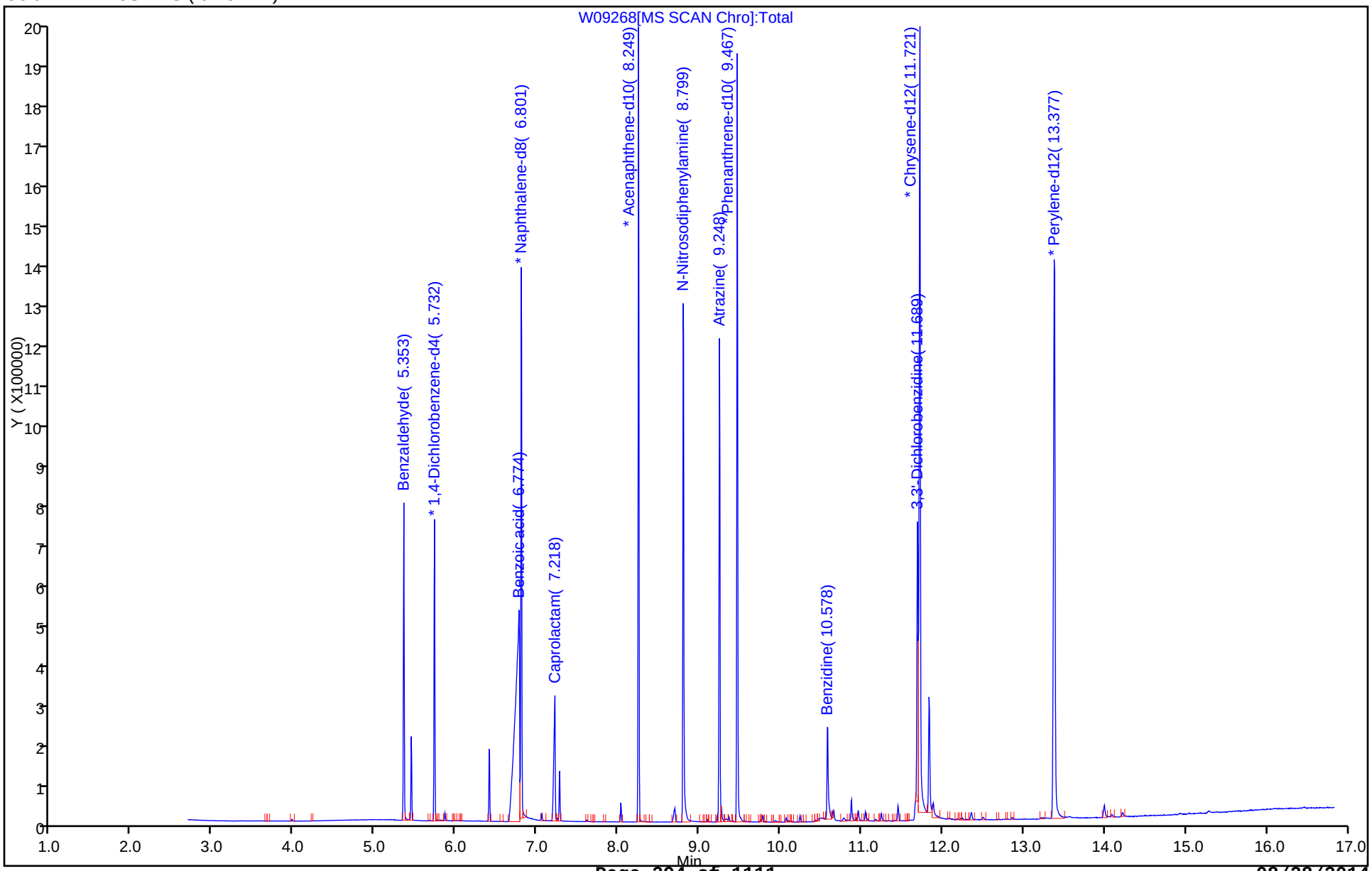
Report Date: 02-Aug-2014 14:23:15 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09268.D

Injection Date:	02-Aug-2014 14:04:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	CCV - ADD1			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 23-Jul-2014 17:16:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: DFTPP
Operator ID: MKP Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2014 12:18:50 Calib Date: 24-Jul-2014 03:24:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08987.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: pagem Date: 23-Jul-2014 17:35:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
90 Pentachlorophenol_T	266	9.412	9.412	0.000	95	422711	NR	NR	
98 DFTPP									
112 Benzidine_T	184	10.673	10.673	0.000	99	557998	NR	NR	
122 4,4'-DDE	246	10.823	10.823	0.000	96	4904		NR	7
118 4,4'-DDD	235	11.133	11.133	0.000	98	4273		NR	7
126 4,4'-DDT	235	11.384	11.384	0.000	97	785513	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

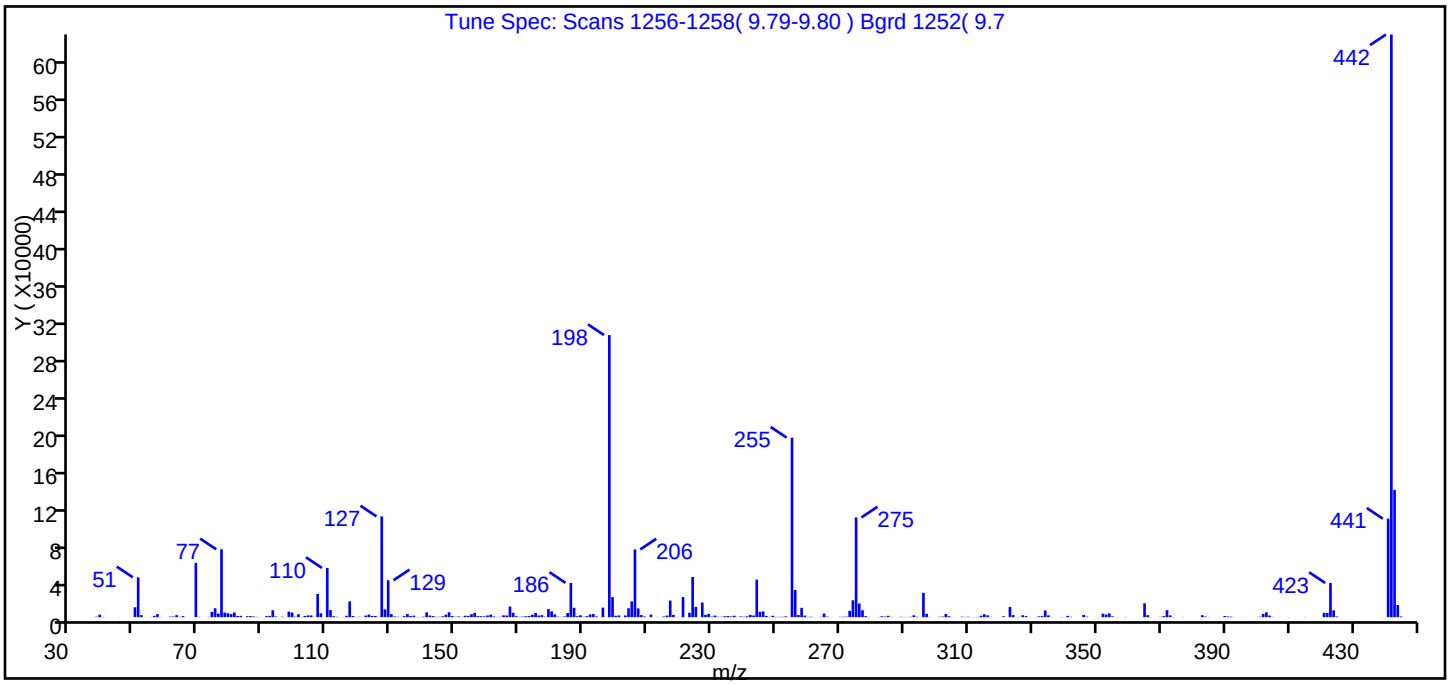
MB_DFTPP_WRK_00182 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D
Injection Date: 23-Jul-2014 17:16:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: MKP ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

98 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	14.10
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	19.30
70	Less than 2.00% of mass 69	0.10 (0.60)
127	10.00 - 80.00% of mass 198	35.70
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.10
275	10.00 - 60.00% of mass 198	35.30
365	Greater than 1.00% of mass 198	4.90
441	Present, but Less than 24.00% of mass 442	34.90 (16.90)
442	Greater than 50.00% of mass 198	206.60
443	15.00 - 24.00% of mass 442	45.10 (21.80)

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D\W-LVI-8270.rslt\spectra.d
Injection Date: 23-Jul-2014 17:16:30
Spectrum: Tune Spec: Scans 1256-1258(9.79-9.80) Bgrd 1252(9.7
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	94	133.00	204	216.00	1689	309.00	318
38.00	489	134.00	1125	217.00	17656	310.00	411
39.00	2619	135.00	3327	218.00	2421	311.00	37
40.00	218	136.00	1245	219.00	225	312.00	109
41.00	82	137.00	1626	221.00	21336	313.00	297
45.00	102	138.00	225	223.00	4682	314.00	1488
49.00	36	139.00	207	224.00	42736	315.00	3064
50.00	10519	140.00	543	225.00	10951	316.00	1933
51.00	42392	141.00	5019	227.00	15529	317.00	386
52.00	2154	142.00	1741	228.00	2421	319.00	34
53.00	71	143.00	1171	229.00	3497	320.00	128
55.00	165	144.00	339	230.00	549	321.00	934
56.00	1373	145.00	362	231.00	1695	323.00	10898
57.00	3279	146.00	903	232.00	338	324.00	2179
58.00	141	147.00	2667	233.00	350	325.00	147
61.00	594	148.00	5234	234.00	987	326.00	284
62.00	622	149.00	1165	235.00	1241	327.00	2068
63.00	2091	150.00	376	236.00	792	328.00	1074
64.00	301	151.00	724	237.00	1499	329.00	172
65.00	1123	152.00	311	238.00	273	330.00	34
66.00	34	153.00	1518	239.00	671	332.00	795
69.00	57904	154.00	1314	240.00	504	333.00	1107
70.00	338	155.00	3139	241.00	954	334.00	7125
71.00	39	156.00	4645	242.00	2484	335.00	1864
73.00	322	157.00	1128	243.00	1703	336.00	250
74.00	5599	158.00	1006	244.00	39960	339.00	206
75.00	9482	159.00	789	245.00	5738	340.00	159
76.00	3780	160.00	1797	246.00	6081	341.00	1344
77.00	72280	161.00	2714	247.00	1249	342.00	415
78.00	4895	162.00	786	248.00	301	346.00	2374
79.00	4146	163.00	257	249.00	1460	347.00	540
80.00	3274	164.00	362	250.00	329	350.00	86
81.00	4957	165.00	1965	251.00	337	351.00	105

Report Date: 24-Jul-2014 12:18:51 Chrom Revision: 2.2 24-Jun-2014 07:21:42
Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D\W-LVI-8270.rslt\spectra.d
Injection Date: 23-Jul-2014 17:16:30
Spectrum: Tune Spec: Scans 1256-1258(9.79-9.80) Bgrd 1252(9.7
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 315

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1207	166.00	1789	252.00	363	352.00	3635
83.00	1391	167.00	11324	253.00	806	353.00	2789
85.00	967	168.00	4678	255.00	191232	354.00	4018
86.00	1184	169.00	963	256.00	28904	355.00	819
87.00	729	170.00	379	257.00	2232	356.00	42
88.00	283	171.00	551	258.00	9923	359.00	219
89.00	166	172.00	996	259.00	1666	360.00	44
91.00	1084	173.00	1345	260.00	296	361.00	35
92.00	1356	174.00	2601	261.00	389	365.00	14715
93.00	7377	175.00	4430	262.00	75	366.00	2106
94.00	649	176.00	1700	263.00	92	367.00	122
95.00	82	177.00	2096	264.00	320	370.00	394
96.00	426	178.00	445	265.00	3854	371.00	1059
97.00	62	179.00	8474	266.00	534	372.00	7371
98.00	5895	180.00	6227	267.00	104	373.00	1891
99.00	4947	181.00	2917	270.00	289	374.00	203
100.00	492	182.00	502	271.00	434	377.00	187
101.00	3119	183.00	264	272.00	502	383.00	2087
102.00	226	184.00	705	273.00	6771	384.00	619
103.00	1213	185.00	4441	274.00	18024	385.00	126
104.00	1869	186.00	36504	275.00	106216	390.00	1138
105.00	1761	187.00	9973	276.00	14512	391.00	734
107.00	24744	188.00	1009	277.00	7359	392.00	548
108.00	4086	189.00	1970	278.00	1092	393.00	103
110.00	52416	190.00	329	279.00	242	395.00	43
111.00	7547	191.00	1076	282.00	167	396.00	36
112.00	995	192.00	2915	283.00	901	397.00	112
113.00	340	193.00	3399	284.00	630	401.00	493
114.00	38	194.00	772	285.00	1448	402.00	3379
115.00	139	195.00	104	286.00	305	403.00	5119
116.00	1469	196.00	10180	288.00	118	404.00	1673
117.00	16840	198.00	300480	289.00	357	405.00	209
118.00	1245	199.00	21328	290.00	290	410.00	149
119.00	270	200.00	1483	291.00	180	415.00	195

Report Date: 24-Jul-2014 12:18:51 Chrom Revision: 2.2 24-Jun-2014 07:21:42
Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D\W-LVI-8270.rslt\spectra.d
Injection Date: 23-Jul-2014 17:16:30
Spectrum: Tune Spec: Scans 1256-1258(9.79-9.80) Bgrd 1252(9.7
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 315

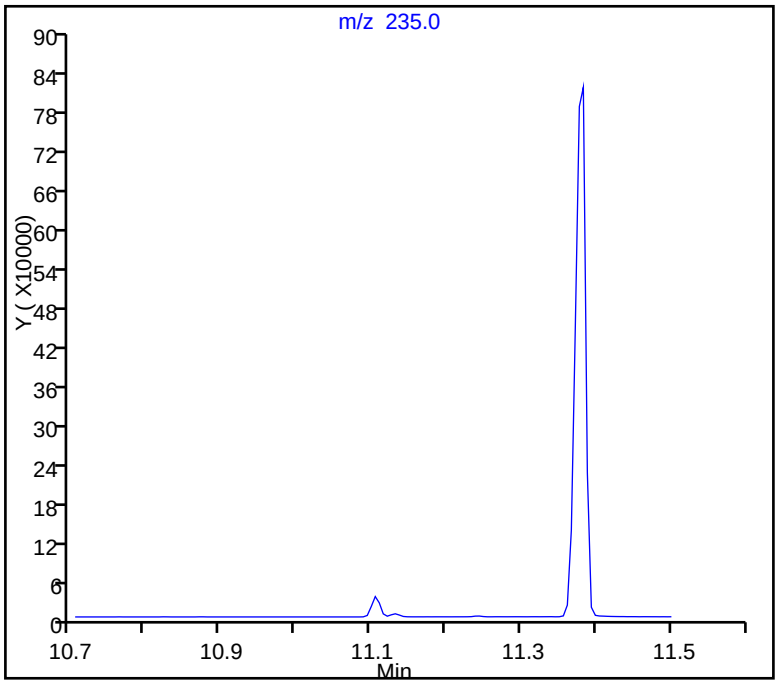
m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	344	201.00	1793	292.00	393	421.00	4640
121.00	116	203.00	1765	293.00	1945	422.00	4514
122.00	1649	204.00	9438	294.00	458	423.00	36440
123.00	2697	205.00	16720	296.00	25824	424.00	7207
124.00	1174	206.00	72152	297.00	3572	425.00	724
125.00	1202	207.00	9310	298.00	278	439.00	110
127.00	107328	208.00	2193	301.00	392	441.00	104872
128.00	8300	209.00	709	302.00	584	442.00	620672
129.00	39272	211.00	2751	303.00	3387	443.00	135616
130.00	3246	213.00	251	304.00	964	444.00	12923
131.00	706	214.00	77	305.00	131	445.00	765
132.00	430	215.00	710	308.00	482		

Breakdown Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D
Injection Date: 23-Jul-2014 17:16:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: MKP ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

126 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

126 4,4'-DDT, Area = 785513
118 4,4'-DDD, Area = 4273
122 4,4'-DDE, Area = 4904

%Breakdown: 1.15%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

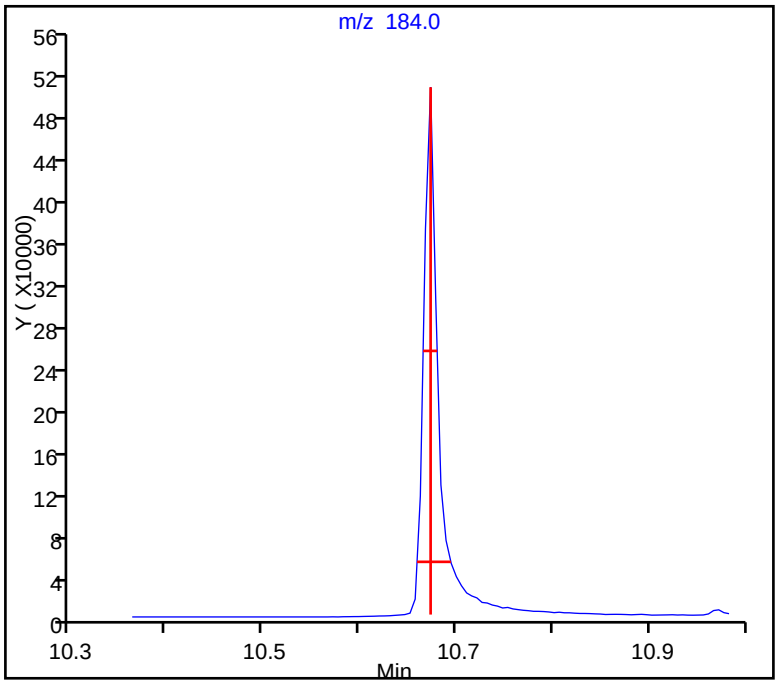
Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D
Injection Date: 23-Jul-2014 17:16:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: MKP ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

112 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

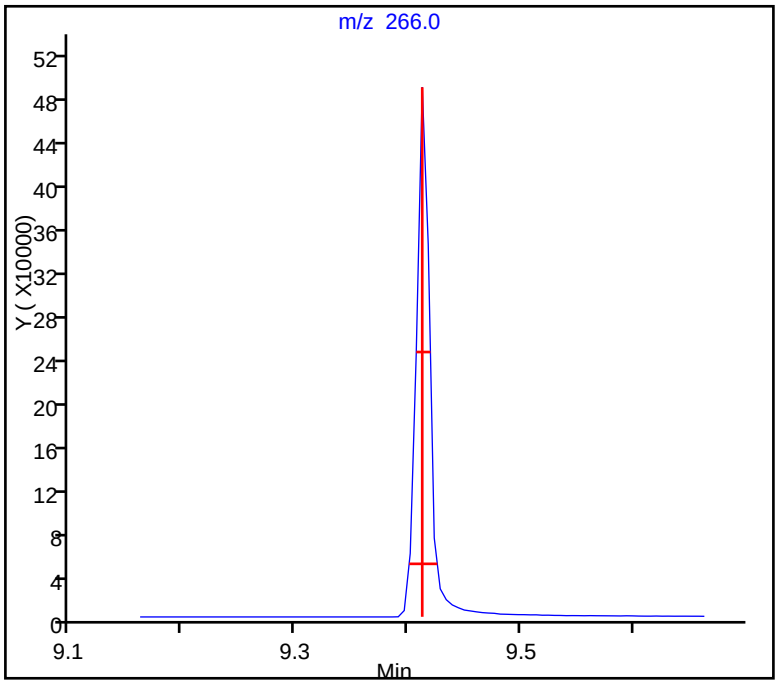
Data File: \\Bufchrom\ChromData\HP5973W\20140723-34029.b\W08963.D
Injection Date: 23-Jul-2014 17:16:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: MKP ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 4.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

90 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 02-Aug-2014 12:24:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-002
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2014 12:43:59 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: quirkp Date: 02-Aug-2014 12:43:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
90 Pentachlorophenol_T	266	9.328	9.328	0.000	95	540202	NR	NR	
98 DFTPP									
112 Benzidine_T	184	10.583	10.583	0.000	99	887530	NR	NR	
122 4,4'-DDE	246	10.727	10.727	0.000	94	8270		NR	7
118 4,4'-DDD	235	11.005	11.005	0.000	97	19036		NR	7
126 4,4'-DDT	235	11.272	11.272	0.000	97	1008679	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

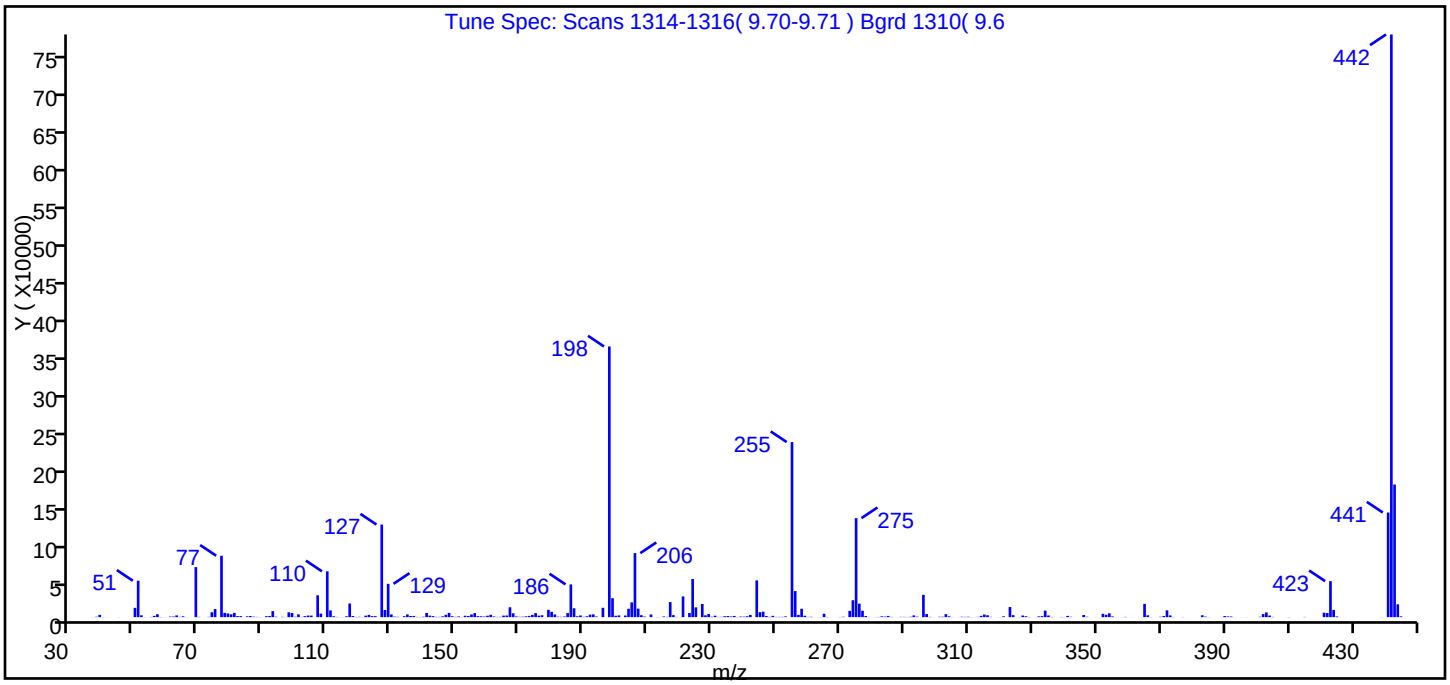
MB_DFTPP_WRK_00185 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D
Injection Date: 02-Aug-2014 12:24:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

98 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	13.50
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	18.50
70	Less than 2.00% of mass 69	0.10 (0.60)
127	10.00 - 80.00% of mass 198	34.20
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.00
275	10.00 - 60.00% of mass 198	36.60
365	Greater than 1.00% of mass 198	4.90
441	Present, but Less than 24.00% of mass 442	38.70 (18.00)
442	Greater than 50.00% of mass 198	215.30
443	15.00 - 24.00% of mass 442	49.00 (22.80)

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D\W-LVI-8270.rslt\spectra.d
Injection Date: 02-Aug-2014 12:24:30
Spectrum: Tune Spec: Scans 1314-1316(9.70-9.71) Bgrd 1310(9.6
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	125	135.00	3631	224.00	50656	315.00	3467
38.00	493	136.00	1512	225.00	13001	316.00	2504
39.00	3023	137.00	1635	227.00	17464	317.00	433
40.00	177	138.00	323	228.00	2426	319.00	88
41.00	50	139.00	259	229.00	4218	320.00	137
45.00	126	140.00	538	230.00	555	321.00	1110
50.00	12334	141.00	5554	231.00	1879	323.00	13411
51.00	48360	142.00	2033	232.00	293	324.00	2640
52.00	2421	143.00	1396	233.00	388	326.00	225
53.00	132	144.00	376	234.00	1216	327.00	2148
55.00	300	145.00	397	235.00	1482	328.00	1226
56.00	1672	146.00	1079	236.00	933	329.00	218
57.00	3876	147.00	3118	237.00	1613	331.00	34
58.00	233	148.00	5616	238.00	240	332.00	1007
59.00	75	149.00	1201	239.00	753	333.00	1349
60.00	33	150.00	364	240.00	651	334.00	8651
61.00	736	151.00	904	241.00	1216	335.00	2201
62.00	783	152.00	191	242.00	2915	336.00	301
63.00	2328	153.00	1871	244.00	48784	339.00	253
64.00	329	154.00	1539	245.00	6582	340.00	141
65.00	1124	155.00	3530	246.00	7228	341.00	1668
66.00	117	156.00	5350	247.00	1481	342.00	481
69.00	66448	157.00	1319	248.00	375	343.00	36
70.00	372	158.00	1146	249.00	1741	346.00	2844
73.00	392	159.00	812	250.00	361	347.00	529
74.00	6497	160.00	1909	251.00	357	348.00	38
75.00	10737	161.00	3149	252.00	404	350.00	127
77.00	81584	162.00	886	253.00	994	351.00	52
78.00	5665	163.00	290	255.00	232512	352.00	4456
79.00	4878	164.00	432	256.00	34600	353.00	3180
80.00	3777	165.00	2035	257.00	2944	354.00	5075
81.00	5616	166.00	2121	258.00	11185	355.00	968
82.00	1408	167.00	13137	259.00	1833	356.00	90

Report Date: 02-Aug-2014 12:44:00 Chrom Revision: 2.2 24-Jun-2014 07:21:42
Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D\W-LVI-8270.rslt\spectra.d
Injection Date: 02-Aug-2014 12:24:30
Spectrum: Tune Spec: Scans 1314-1316(9.70-9.71) Bgrd 1310(9.6
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1354	168.00	5130	260.00	329	357.00	48
84.00	34	169.00	942	261.00	472	358.00	91
85.00	1067	170.00	443	262.00	40	359.00	375
86.00	1467	171.00	588	263.00	43	360.00	74
87.00	610	172.00	1098	264.00	120	361.00	91
88.00	297	173.00	1647	265.00	4541	365.00	17624
89.00	178	174.00	2950	266.00	293	366.00	2422
91.00	1277	175.00	5380	267.00	20	367.00	178
92.00	1472	176.00	2004	269.00	35	370.00	514
93.00	7994	177.00	2515	270.00	228	371.00	1490
94.00	606	179.00	9708	271.00	499	372.00	9037
95.00	21	180.00	7101	273.00	8313	373.00	2295
96.00	401	181.00	3541	274.00	22464	374.00	291
97.00	100	182.00	614	275.00	131456	377.00	212
98.00	6417	183.00	427	276.00	17936	383.00	2477
99.00	5442	184.00	821	277.00	8475	384.00	706
100.00	490	185.00	5350	278.00	1477	385.00	163
101.00	3684	186.00	43496	279.00	305	389.00	37
102.00	262	187.00	11808	281.00	152	390.00	1462
103.00	1325	188.00	1172	282.00	259	391.00	937
104.00	2089	189.00	2229	283.00	1074	392.00	852
105.00	2054	190.00	366	284.00	760	393.00	96
107.00	28960	191.00	1195	285.00	1638	395.00	79
108.00	4711	192.00	3339	286.00	334	396.00	38
110.00	60872	193.00	3643	288.00	88	397.00	116
111.00	8941	194.00	842	289.00	366	401.00	545
112.00	1181	196.00	12406	290.00	365	402.00	4057
113.00	327	198.00	359488	291.00	263	403.00	6286
114.00	48	199.00	25144	292.00	503	404.00	2151
115.00	75	200.00	1827	293.00	2330	405.00	333
116.00	1145	201.00	2302	294.00	651	410.00	185
117.00	18160	203.00	2146	296.00	29608	415.00	309
118.00	1459	204.00	11113	297.00	4173	416.00	37
119.00	234	205.00	19616	298.00	335	419.00	34

Report Date: 02-Aug-2014 12:44:00 Chrom Revision: 2.2 24-Jun-2014 07:21:42
Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D\W-LVI-8270.rslt\spectra.d
Injection Date: 02-Aug-2014 12:24:30
Spectrum: Tune Spec: Scans 1314-1316(9.70-9.71) Bgrd 1310(9.6
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 321

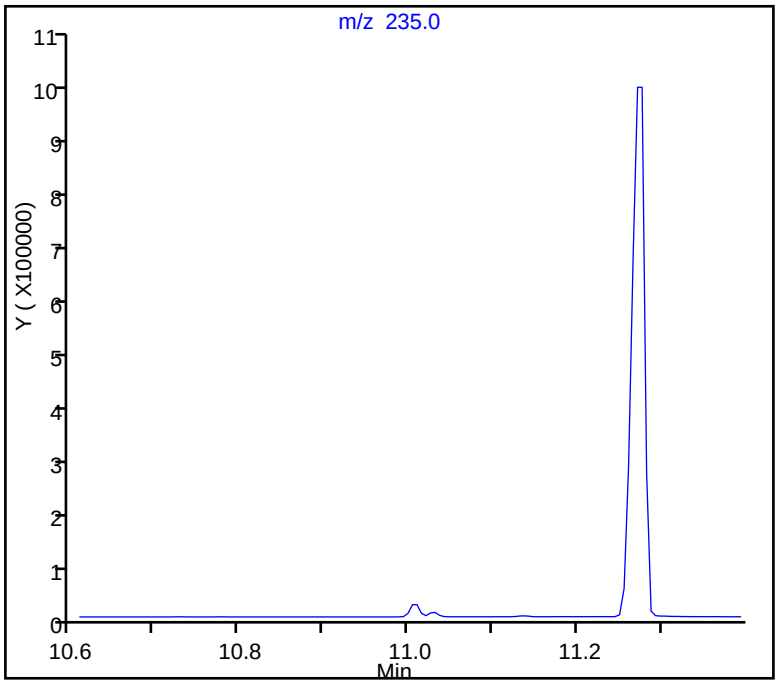
m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	424	206.00	85016	299.00	44	421.00	5946
121.00	187	207.00	11334	301.00	481	422.00	5484
122.00	1957	208.00	2576	302.00	545	423.00	47808
123.00	2981	209.00	772	303.00	3970	424.00	9564
124.00	1405	211.00	3549	304.00	1137	425.00	943
125.00	1330	213.00	231	305.00	143	439.00	146
127.00	122976	214.00	40	307.00	69	441.00	138944
128.00	9437	215.00	886	308.00	520	442.00	773824
129.00	44248	216.00	354	309.00	371	443.00	176128
130.00	3618	217.00	20032	310.00	573	444.00	17064
131.00	680	218.00	2673	311.00	154	445.00	1065
132.00	426	219.00	311	312.00	94		
133.00	89	221.00	27504	313.00	359		
134.00	1281	223.00	5482	314.00	1725		

Breakdown Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D
Injection Date: 02-Aug-2014 12:24:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

126 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

126 4,4'-DDT, Area = 1008679
118 4,4'-DDD, Area = 19036
122 4,4'-DDE, Area = 8270

%Breakdown: 2.64%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

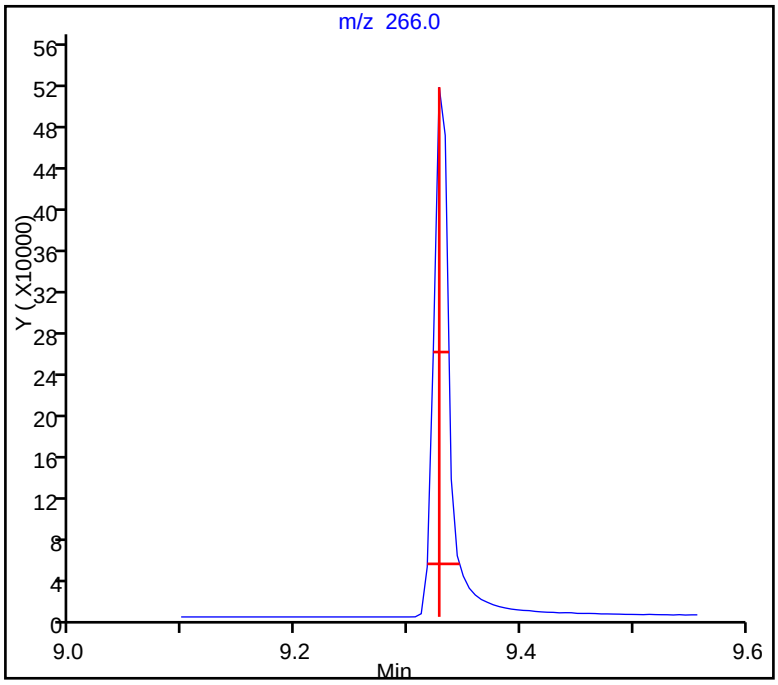
Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D
Injection Date: 02-Aug-2014 12:24:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

90 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

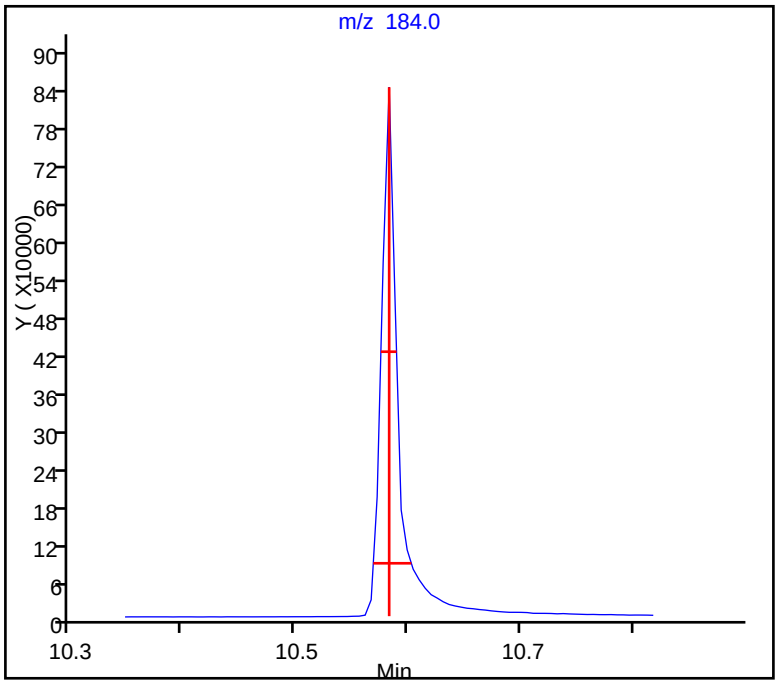
Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09265.D
Injection Date: 02-Aug-2014 12:24:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

112 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-195843/1-A

Matrix: Water | Lab File ID: W09271.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 15:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	0.365	J	5.0	0.27
56-55-3	Benzo[a]anthracene	ND		5.0	0.36
50-32-8	Benzo[a]pyrene	ND		5.0	0.47
205-99-2	Benzo[b]fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-195843/1-A

Matrix: Water | Lab File ID: W09271.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 15:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	1.8
85-68-7	Butyl benzyl phthalate	ND		5.0	0.42
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-195843/1-A

Matrix: Water | Lab File ID: W09271.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 15:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	114		52-132
321-60-8	2-Fluorobiphenyl	96		48-120
367-12-4	2-Fluorophenol	100		20-120
4165-60-0	Nitrobenzene-d5	96		46-120
1718-51-0	p-Terphenyl-d14	107		67-150
4165-62-2	Phenol-d5	66		16-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09271.D
Lims ID: MB 480-195843/1-A
Client ID:
Sample Type: MB
Inject. Date: 02-Aug-2014 15:19:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-008
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-Aug-2014 09:55:17 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: quirkp Date: 05-Aug-2014 09:55:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.732	5.738	-0.006	91	149657	4.00	4.00	
* 2 Naphthalene-d8	136	6.806	6.806	0.000	98	620440	4.00	4.00	
* 3 Acenaphthene-d10	164	8.248	8.254	-0.006	92	393358	4.00	4.00	
* 4 Phenanthrene-d10	188	9.466	9.472	-0.006	96	681863	4.00	4.00	
* 5 Chrysene-d12	240	11.721	11.726	-0.005	96	827453	4.00	4.00	
* 6 Perylene-d12	264	13.382	13.382	0.000	98	903698	4.00	4.00	
$ 7 2-Fluorophenol	112	4.637	4.632	0.005	84	221386	8.00	8.04	
$ 8 Phenol-d5	99	5.497	5.497	0.000	93	189584	8.00	5.32	
$ 9 Nitrobenzene-d5	82	6.208	6.208	0.000	79	269650	8.00	7.66	
$ 10 2-Fluorobiphenyl	172	7.698	7.704	-0.006	98	788462	8.00	7.68	
$ 11 2,4,6-Tribromophenol	330	8.905	8.906	-0.001	83	273737	8.00	9.09	
$ 12 p-Terphenyl-d14	244	10.775	10.775	0.000	99	1198172	8.00	8.59	
13 o-Anisidine	1		0.750					ND	
55 1,4-Dioxane	88		2.778					ND	
53 N-Nitrosodimethylamine	42		3.131					ND	
52 Pyridine	52		3.163					ND	
244 Triethyl amine	86		3.242					ND	
16 Dimethylformamide	73		3.306					ND	
62 2-Picoline	93		4.001					ND	
63 N-Nitrosomethylethylamine	88		4.135					ND	
65 Methyl methanesulfonate	80		4.455					ND	
235 Acrylamide	44		4.600					ND	
70 N-Nitrosodiethylamine	102		4.813					ND	
76 Ethyl methanesulfonate	79		5.107					ND	
54 1-Methylcyclopentanol	71		5.115					ND	
71 Benzaldehyde	77	5.358	5.353	0.005	90	2670		0.0913	
69 Aniline	93		5.460					ND	
81 Pentachloroethane	167		5.508					ND	
72 Phenol	94		5.508					ND	
74 Bis(2-chloroethyl)ether	93		5.519					ND	
75 2-Chlorophenol	128		5.577					ND	
267 n-Decane	57	5.609	5.609	0.000	0	6394		0.1890	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
78 1,3-Dichlorobenzene	146		5.684					ND	
77 1,4-Dichlorobenzene	146		5.748					ND	
56 2-Chlorobenzotrifluoride	180		5.756					ND	
57 4-Chlorobenzotrifluoride	180		5.842					ND	
73 1,2-Dichlorobenzene	146		5.877					ND	
79 Benzyl alcohol	108	5.876	5.876	-0.006	95	22542		0.8037	M
58 n,n'-Dimethylacetamide	87		5.927					ND	
83 2,2'-oxybis[1-chloropropan	45		5.978					ND	
82 2-Methylphenol	108		6.010					ND	
86 Acetophenone	105		6.085					ND	
93 N-Nitrosopyrrolidine	100		6.096					ND	
87 N-Nitrosodi-n-propylamine	70		6.101					ND	
95 N-Nitrosomorpholine	56		6.128					ND	
91 4-Methylbenzenamine	106		6.133					ND	
96 2-Toluidine	106		6.138					ND	
88 4-Methylphenol	108		6.138					ND	
89 Hexachloroethane	117		6.160					ND	
85 Nitrobenzene	77		6.229					ND	
59 4-Chloropyridine	78	6.208	6.249	-0.041	0	5030		NC	
60 3-Chloropyridine	78		6.280					ND	
61 3-Chlorobenzotrifluoride	180		6.349					ND	
104 N-Nitrosopiperidine	114		6.373					ND	
94 Isophorone	82		6.432					ND	
102 2-Chloroaniline	127		6.486					ND	
97 2-Nitrophenol	139		6.496					ND	
99 2,4-Dimethylphenol	107		6.566					ND	
101 Tetraethyl lead	237		6.576					ND	
109 o,o',o''-Triethylphosphoro	198		6.608					ND	
103 Bis(2-chloroethoxy)methane	93		6.619					ND	
254 n,n'-Dimethylaniline	120		6.629					ND	
111 alpha,alpha-Dimethyl phene	58		6.683					ND	
106 2,4-Dichlorophenol	162		6.721					ND	
64 2-Chloropyridine	78		6.723					ND	
100 1,2,4-Trichlorobenzene	180		6.758					ND	
105 Benzoic acid	105		6.774					ND	
107 Naphthalene	128		6.827					ND	
113 Alpha-Terpineol	59		6.854					ND	
108 4-Chloroaniline	127		6.886					ND	
115 2,6-Dichlorophenol	162		6.913					ND	
116 Hexachloropropene	213		6.913					ND	
66 2-Chlorotoluene	91		6.915					ND	
110 Hexachlorobutadiene	225		6.929					ND	
67 3-Chlorotoluene	91		6.942					ND	
68 4-Chlorotoluene	91		6.979					ND	
42 Quinoline	129		7.121					ND	
119 N-Nitrosodi-n-butylamine	84		7.175					ND	
120 p-Phenylene diamine	108		7.196					ND	
114 Caprolactam	113		7.218					ND	
117 4-Chloro-3-methylphenol	107		7.314					ND	
15 p-Fluoroaniline	111	7.319	7.321	-0.002	80	460		NC	
123 Safrole, Total	162		7.340					ND	
121 2-Methylnaphthalene	142	7.394	7.399	-0.005	91	1378		0.0232	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
128 Phthalic anhydride	104		7.463					ND	
236 1-Methylnaphthalene	142	7.474	7.479	-0.005	94	862		0.0204	
125 Hexachlorocyclopentadiene	237		7.527					ND	
124 1,2,4,5-Tetrachlorobenzene	216		7.538					ND	
127 2,4,6-Trichlorophenol	196		7.645					ND	
129 2,4,5-Trichlorophenol	196		7.693					ND	
133 Isosafrole	162		7.768					ND	
130 1,1'-Biphenyl	154		7.784					ND	
131 2-Chloronaphthalene	162		7.800					ND	
237 1-Chloronaphthalene	162		7.832					ND	
132 2-Nitroaniline	65		7.896					ND	
80 N-Methylaniline	106		7.898					ND	
136 1,4-Naphthoquinone	158		7.965					ND	
29 Dicyclohexylamine	138		7.971					ND	
138 1,4-Dinitrobenzene	168		8.024					ND	
134 Dimethyl phthalate	163		8.045					ND	
139 1,3-Dinitrobenzene	168		8.072					ND	
135 2,6-Dinitrotoluene	165		8.094					ND	
137 Acenaphthylene	152		8.136					ND	
27 2,6-Dichloropyridine	112		8.181					ND	
140 3-Nitroaniline	138		8.248					ND	
141 Acenaphthene	153	8.275	8.281	-0.006	85	1009		0.009105	
142 2,4-Dinitrophenol	184		8.323					ND	
146 Pentachlorobenzene	250		8.403					ND	
144 2,4-Dinitrotoluene	165		8.425					ND	
145 Dibenzofuran	168		8.425					ND	
143 4-Nitrophenol	109		8.430					ND	
92 Benzeneacetonitrile	117		8.449					ND	
148 1-Naphthylamine	143		8.510					ND	
268 2,3,5,6-Tetrachlorophenol	232		8.521					ND	
147 2,3,4,6-Tetrachlorophenol	232		8.537					ND	
150 2-Naphthylamine	143		8.574					ND	
149 Diethyl phthalate	149	8.612	8.617	-0.005	95	1113		0.0489	
240 Hexadecane	57	8.622	8.628	-0.006	89	1134		0.0985	
155 Thionazin	97		8.692					ND	
152 4-Chlorophenyl phenyl ethe	204		8.703					ND	
151 Fluorene	166		8.703					ND	
156 N-Nitro-o-toluidine	152		8.745					ND	
153 4-Nitroaniline	138		8.756					ND	
154 4,6-Dinitro-2-methylphenol	198		8.761					ND	
157 N-Nitrosodiphenylamine	169		8.799					ND	
161 Tributyl phosphate	99		8.810					ND	
160 Diphenylamine	169		8.820					ND	
158 Azobenzene	77		8.836					ND	
159 1,2-Diphenylhydrazine	77		8.836					ND	
162 Sulfotepp	322		8.954					ND	
165 Diallate	43		9.050					ND	
163 1,3,5-Trinitrobenzene	213		9.055					ND	
166 Phorate	75		9.060					ND	
221 Benzeneacetic acid (TIC)	91		9.084					ND	
167 Phenacetin	108		9.098					ND	
164 4-Bromophenyl phenyl ether	248		9.103					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
168 Hexachlorobenzene	284		9.151					ND	
169 Dimethoate	87		9.210					ND	
171 Simazine	201		9.248					ND	
170 Atrazine	200		9.248					ND	
172 Pentachlorophenol	266		9.333					ND	
173 4-Aminobiphenyl	169		9.338					ND	
174 Pentachloronitrobenzene	237		9.344					ND	
269 n-Octadecane	57	9.381	9.381	0.000	0	651		0.0155	
175 Pronamide	173		9.397					ND	
179 Disulfoton	88		9.488					ND	
178 Dinoseb	211		9.488					ND	
177 Phenanthrene	178	9.482	9.493	-0.011	96	13658		0.009314	
180 Anthracene	178		9.536					ND	
181 Carbazole	167		9.670					ND	
183 Alachlor	160		9.792					ND	
182 Methyl parathion	109		9.798					ND	
184 Di-n-butyl phthalate	149	9.947	9.953	-0.006	99	12666		0.005140	
186 Ethyl Parathion	97		10.118					ND	
187 4-Nitroquinoline-1-oxide	190		10.150					ND	
224 CBF-400	214		10.155					ND	
185 Anthraquinone	180		10.172					ND	
188 Methapyrilene	58		10.289					ND	
229 Octachlorostyrene	308		10.316					ND	
190 Isodrin	193		10.353					ND	
191 Fluoranthene	202		10.466					ND	
189 1-Hydroxyanthraquinone	224		10.519					ND	
192 Benzidine	184		10.583					ND	
193 Pyrene	202		10.647					ND	
195 Aramite, Total	185		10.839					ND	
194 1,4-Dihydroxyanthraquinone	240		10.898					ND	
196 p-Dimethylamino azobenzene	120		10.909					ND	
197 Chlorobenzilate	139		10.946					ND	
199 Famphur	218		11.160					ND	
200 Butyl benzyl phthalate	149	11.187	11.192	-0.005	90	2589		0.0315	
201 3,3'-Dimethylbenzidine	212		11.203					ND	
198 9-Octadecenamide	72		11.224					ND	
202 Kepone	272		11.235					ND	
51 Dibenzo[a,e]pyrene	302		11.347					ND	
203 2-Acetylaminofluorene	181		11.454					ND	
50 CAG-800	149		11.554					ND	
204 3,3'-Dichlorobenzidine	252		11.689					ND	
205 Benzo[a]anthracene	228		11.716					ND	
36 4,4'-Methylene bis(2-chlor	231		11.721					ND	
206 Bis(2-ethylhexyl) phthalat	149	11.737	11.742	-0.005	89	12069		0.1048	
207 Chrysene	228		11.753					ND	
44 NVF-400	82		12.014					ND	
238 6-Methylchrysene	242		12.266					ND	
208 Di-n-octyl phthalate	149	12.458	12.458	0.000	93	1417		0.007528	
209 Benzo[b]fluoranthene	252		12.912					ND	
210 7,12-Dimethylbenz(a)anthra	256		12.928					ND	
211 Benzo[k]fluoranthene	252		12.950					ND	
212 Hexachlorophene	196		13.206					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
213 Benzo[a]pyrene	252		13.313					ND	
214 3-Methylcholanthrene	252		13.810					ND	
17 Tricresyl phosphate	91		14.437					ND	
232 Dibenz[a,h]acridine	279		14.590					ND	
215 Indeno[1,2,3-cd]pyrene	276		14.777					ND	
216 Dibenz(a,h)anthracene	278		14.809					ND	
217 Benzo[g,h,i]perylene	276		15.129					ND	
270 Lidocaine	1		0.000					ND	
271 5-Ethyl-5-phenyl barbituri	1		0.000					ND	
257 4-Chlorobenzotrifluoride T	1		0.750					ND	
247 alpha,alpha-Dimethyl phene	1		0.750					ND	
48 Phenylacetic Acid	1		0.750					ND	
256 2,6-Dichlorotoluene TIC	1		0.750					ND	
228 7H-Dibenzo[c,g]carbazole	1		0.750					ND	
34 2,3-Dichlorophenol	1		0.750					ND	
251 Hexamethyldisiloxane TIC	1		0.750					ND	
248 Tetramethyl lead TIC	1		0.750					ND	
259 2,4-Dichlorotoluene TIC	1		0.750					ND	
250 2,4-Xylidine TIC	1		0.750					ND	
243 5-Methyl-o-Anisidine TIC	1		0.750					ND	
258 2-Chlorobenzotrifluoride T	1		0.750					ND	
241 2,4-Toluene diamine	1		0.750					ND	
33 Benefin (TIC)	1		0.750					ND	
252 4,4'-Methylene bis(2-chlor	1		0.750					ND	
226 2,3,7,8-TCDD	1		0.750					ND	
24 2,6-Dichlorotoluene	1		0.750					ND	
246 o-Anisidine TIC	1		0.750					ND	
233 Dibenzo[a,h]pyrene	1		0.750					ND	
25 1,3,5-Trichlorobenzene	180		0.750					ND	
264 1,2,3-Trimethylbenzene	105		0.750					ND	
249 1,3-phenylenediamine TIC	1		0.750					ND	
245 Tris(2,3-dibromopropyl)pho	1		0.750					ND	
41 trans Azobenzene (TIC)	1		0.750					ND	
261 Benzophenone	1		0.750					ND	
234 Benzo[j]fluoranthene	1		0.750					ND	
239 Dibenz(a,i)pyrene	1		0.750					ND	
260 3-Chlorobenzotrifluoride T	1		0.750					ND	
266 1,4-Dioxane TIC	1		0.750					ND	
231 Dibenz[a,j]acridine	279		0.750					ND	
30 Pendimethalin	1		0.750					ND	
37 5-Methyl-o-Anisidine	1		0.750					ND	
28 Prometryn (TIC)	1		0.750					ND	
265 4-Chloro-3-nitro-alpha,alp	1		0.750					ND	
253 1-Bromopropane	1		0.750					ND	
227 Phenylmercaptan	110		0.750					ND	
262 4-tert-Octylphenol	1		0.750					ND	
46 2,4-Dichlorotoluene	1		0.750					ND	
230 Indene	115		0.750					ND	
263 Phenyl ether	1		0.750					ND	
38 Pendimethalin (TIC)	1		0.750					ND	
49 4-Chlorophenol	1		0.750					ND	
118 4,4'-DDD	235		11.005					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
225 CBF-500	161	12.057	12.046	0.011	0	107		NR	
14 CN-500	112	14.809	14.818	-0.009	0	221		NR	7
47 CU-600	58	14.980	14.989	-0.009	0	150		NR	7
S 19 Chlorobenzotrifluoride N.O	1		0.750					0	
S 23 Chlorotoluene N.O.S	1		0.750					0	
S 220 Total Cresols	1		0.750					0	
S 218 3 & 4 Methylphenol	108		0.750					0	
S 219 3-Methylphenol	1		0.750					0	
S 242 EPH Adjustment 1	1		0.750					0	
T 39 2-Aminopyridine	94		6.917					0	
T 21 1-Methylnaphthalene (TIC)	142		8.820					0	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
NC - Not Calibrated
ND - Not Detected or Marked ND
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Reagents:

MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

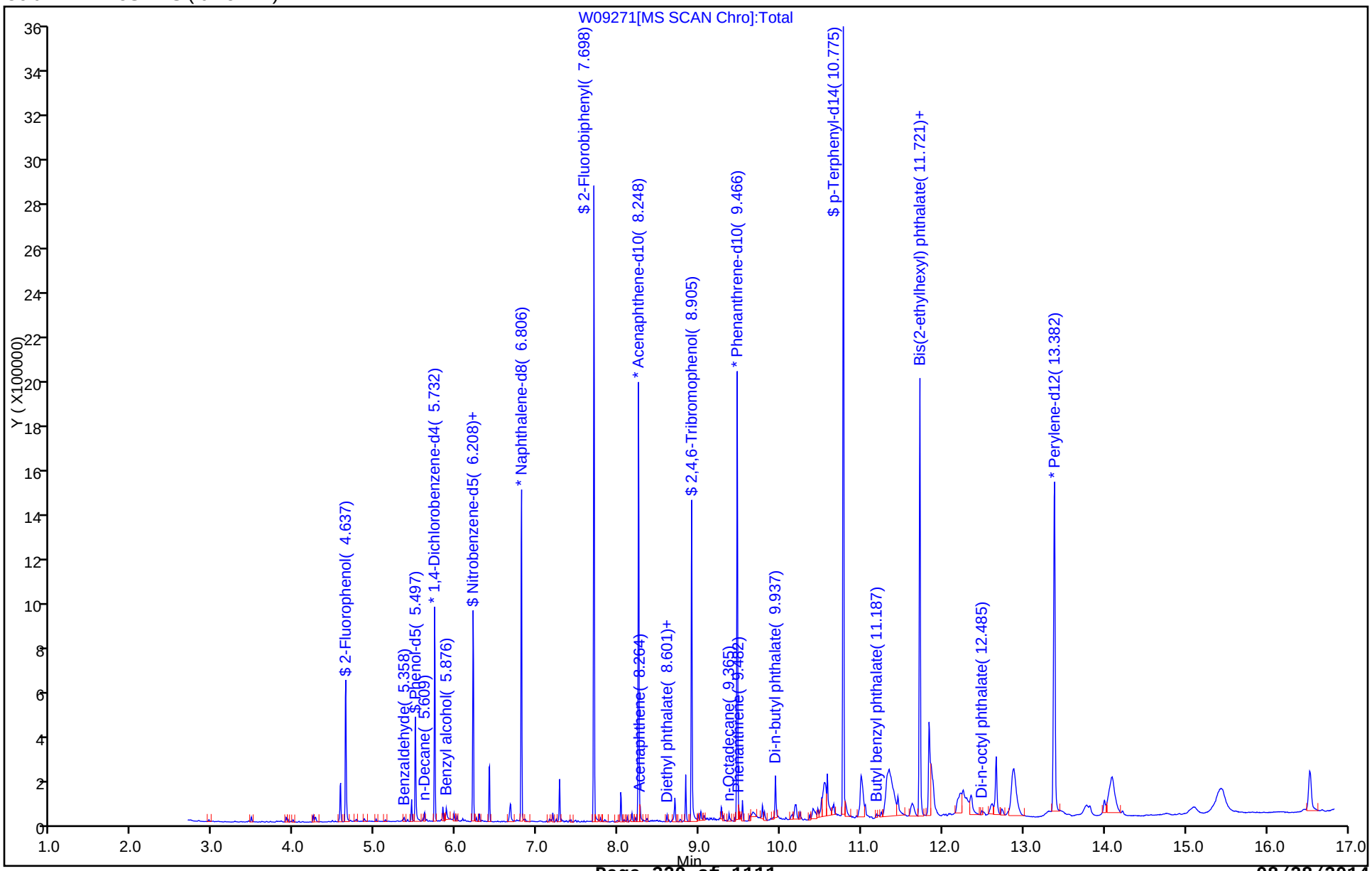
Report Date: 05-Aug-2014 09:55:18 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09271.D

Injection Date:	02-Aug-2014 15:19:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	MB 480-195843/1-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Report Date: 05-Aug-2014 09:55:18 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09271.D

Injection Date: 02-Aug-2014 15:19:30 Instrument ID: HP5973W

Lims ID: MB 480-195843/1-A

Client ID:

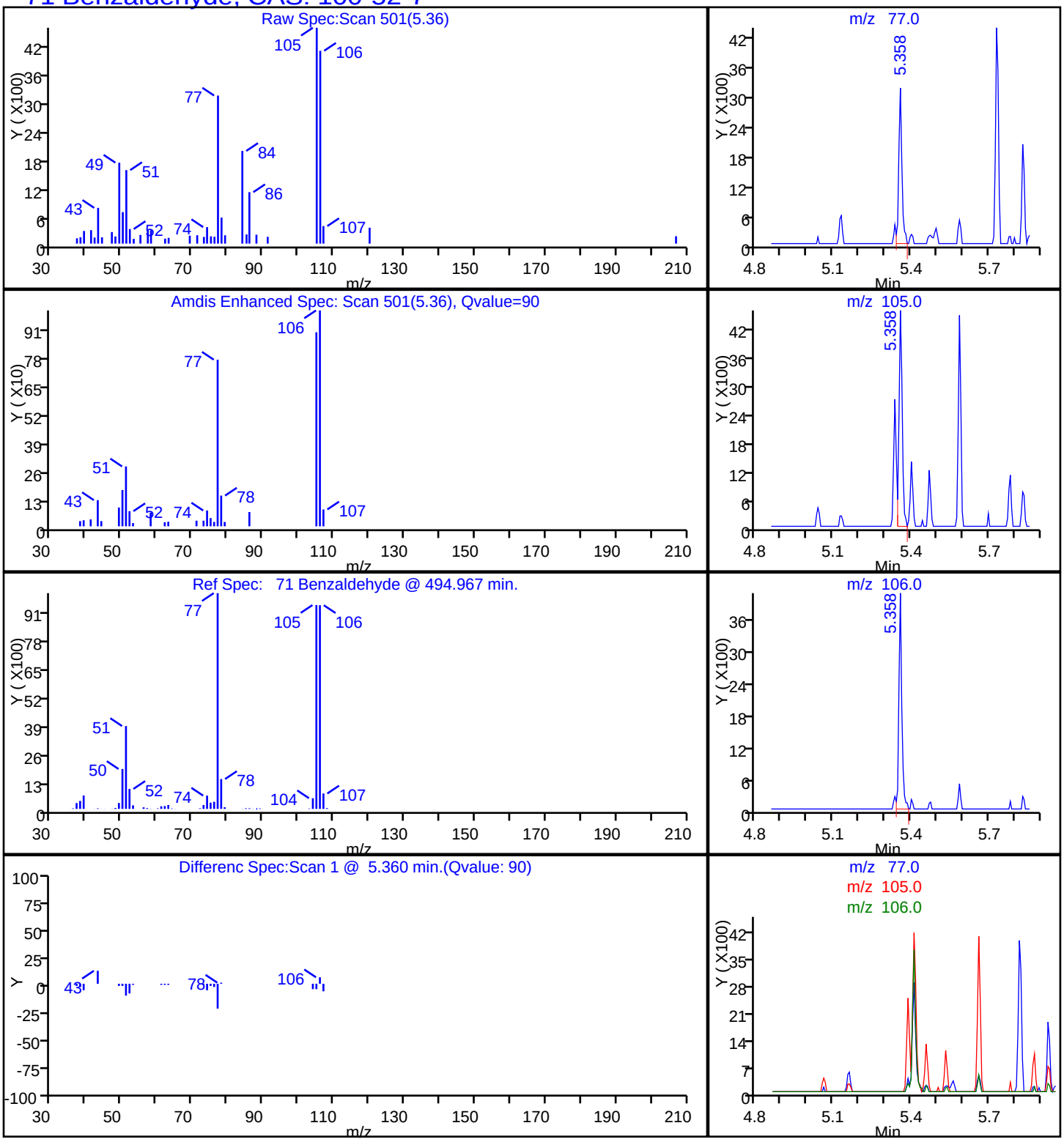
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

71 Benzaldehyde, CAS: 100-52-7



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-195843/2-A

Matrix: Water | Lab File ID: W09272.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 15:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	28.9		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	22.5		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	31.9		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	33.0		5.0	0.61
120-83-2	2,4-Dichlorophenol	31.8		5.0	0.51
105-67-9	2,4-Dimethylphenol	26.5		5.0	0.50
51-28-5	2,4-Dinitrophenol	63.7		10	2.2
121-14-2	2,4-Dinitrotoluene	32.1		5.0	0.45
606-20-2	2,6-Dinitrotoluene	33.5		5.0	0.40
91-58-7	2-Chloronaphthalene	29.1		5.0	0.46
95-57-8	2-Chlorophenol	29.8		5.0	0.53
91-57-6	2-Methylnaphthalene	28.7		5.0	0.60
95-48-7	2-Methylphenol	28.7		5.0	0.40
88-74-4	2-Nitroaniline	31.5		10	0.42
88-75-5	2-Nitrophenol	33.8		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	69.6		5.0	0.40
99-09-2	3-Nitroaniline	30.0		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	63.6		10	2.2
101-55-3	4-Bromophenyl phenyl ether	31.5		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	32.3		5.0	0.45
106-47-8	4-Chloroaniline	19.7		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	29.8		5.0	0.35
106-44-5	4-Methylphenol	26.2		10	0.36
100-01-6	4-Nitroaniline	58.5		10	0.25
100-02-7	4-Nitrophenol	40.3		10	1.5
83-32-9	Acenaphthene	28.2		5.0	0.41
208-96-8	Acenaphthylene	30.8		5.0	0.38
98-86-2	Acetophenone	29.8		5.0	0.54
120-12-7	Anthracene	29.6		5.0	0.28
1912-24-9	Atrazine	63.4		5.0	0.46
100-52-7	Benzaldehyde	34.3		5.0	0.27
56-55-3	Benzo[a]anthracene	30.5		5.0	0.36
50-32-8	Benzo[a]pyrene	31.5		5.0	0.47
205-99-2	Benzo[b]fluoranthene	33.2		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-195843/2-A

Matrix: Water | Lab File ID: W09272.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 15:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	33.3		5.0	0.35
207-08-9	Benzo[k]fluoranthene	29.4		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	27.7		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	27.4		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	29.1		5.0	1.8
85-68-7	Butyl benzyl phthalate	31.3		5.0	0.42
105-60-2	Caprolactam	28.9		5.0	2.2
86-74-8	Carbazole	38.3		5.0	0.30
218-01-9	Chrysene	33.0		5.0	0.33
84-74-2	Di-n-butyl phthalate	29.5		5.0	0.31
117-84-0	Di-n-octyl phthalate	32.5		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	32.9		5.0	0.42
132-64-9	Dibenzofuran	29.8		10	0.51
84-66-2	Diethyl phthalate	29.8		5.0	0.22
131-11-3	Dimethyl phthalate	31.2		5.0	0.36
206-44-0	Fluoranthene	30.4		5.0	0.40
86-73-7	Fluorene	29.5		5.0	0.36
118-74-1	Hexachlorobenzene	31.1		5.0	0.51
87-68-3	Hexachlorobutadiene	29.5		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	28.5		5.0	0.59
67-72-1	Hexachloroethane	27.7		5.0	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	32.9		5.0	0.47
78-59-1	Isophorone	28.7		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	28.2		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	51.4		5.0	0.51
91-20-3	Naphthalene	29.4		5.0	0.76
98-95-3	Nitrobenzene	28.5		5.0	0.29
87-86-5	Pentachlorophenol	56.8		10	2.2
85-01-8	Phenanthrene	30.6		5.0	0.44
108-95-2	Phenol	19.6		5.0	0.39
129-00-0	Pyrene	30.8		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-195843/2-A

Matrix: Water | Lab File ID: W09272.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 15:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	129		52-132
321-60-8	2-Fluorobiphenyl	111		48-120
367-12-4	2-Fluorophenol	119		20-120
4165-60-0	Nitrobenzene-d5	112		46-120
1718-51-0	p-Terphenyl-d14	118		67-150
4165-62-2	Phenol-d5	78		16-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09272.D
Lims ID: LCS 480-195843/2-A
Client ID:
Sample Type: LCS
Inject. Date: 02-Aug-2014 15:44:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-009
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-Aug-2014 09:57:51 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: quirkp Date: 05-Aug-2014 09:57:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.754	5.738	0.016	90	174825	4.00	4.00	
* 2 Naphthalene-d8	136	6.811	6.806	0.005	97	616465	4.00	4.00	
* 3 Acenaphthene-d10	164	8.254	8.254	0.000	92	388932	4.00	4.00	
* 4 Phenanthrene-d10	188	9.472	9.472	0.000	96	686022	4.00	4.00	
* 5 Chrysene-d12	240	11.732	11.726	0.006	96	784127	4.00	4.00	
* 6 Perylene-d12	264	13.388	13.382	0.006	98	929786	4.00	4.00	
$ 7 2-Fluorophenol	112	4.685	4.632	0.053	84	306481	8.00	9.53	
$ 8 Phenol-d5	99	5.519	5.497	0.022	92	261184	8.00	6.27	
$ 9 Nitrobenzene-d5	82	6.224	6.208	0.016	78	313143	8.00	8.95	
$ 10 2-Fluorobiphenyl	172	7.704	7.704	0.000	98	872637	8.00	8.86	
$ 11 2,4,6-Tribromophenol	330	8.911	8.906	0.005	83	311510	8.00	10.3	
$ 12 p-Terphenyl-d14	244	10.775	10.775	0.000	99	1213398	8.00	9.42	
55 1,4-Dioxane	88	2.976	2.778	0.198	84	51481	8.00	4.09	
53 N-Nitrosodimethylamine	42	3.302	3.131	0.171	80	63948	8.00	5.75	
52 Pyridine	52	3.334	3.163	0.171	91	39601	8.00	2.37	
71 Benzaldehyde	77	5.385	5.353	0.032	91	292814	16.0	8.57	
69 Aniline	93	5.487	5.460	0.027	98	299131	8.00	4.40	
72 Phenol	94	5.529	5.508	0.021	91	280342	8.00	4.89	
74 Bis(2-chloroethyl)ether	93	5.540	5.519	0.021	95	350435	8.00	6.86	
75 2-Chlorophenol	128	5.599	5.577	0.022	90	416445	8.00	7.44	
267 n-Decane	57	5.631	5.609	0.022	0	206088	8.00	5.21	
78 1,3-Dichlorobenzene	146	5.706	5.684	0.022	96	465235	8.00	7.04	
77 1,4-Dichlorobenzene	146	5.770	5.748	0.022	96	467504	8.00	7.05	
73 1,2-Dichlorobenzene	146	5.893	5.877	0.016	98	448349	8.00	7.04	
79 Benzyl alcohol	108	5.903	5.882	0.021	95	239995	8.00	7.33	
83 2,2'-oxybis[1-chloropropan	45	5.994	5.978	0.016	89	231856	8.00	5.63	
82 2-Methylphenol	108	6.021	6.010	0.011	92	343757	8.00	7.17	
86 Acetophenone	105	6.101	6.085	0.016	93	473548	8.00	7.46	
87 N-Nitrosodi-n-propylamine	70	6.117	6.101	0.016	84	204852	8.00	7.04	
88 4-Methylphenol	108	6.149	6.138	0.011	98	330325	8.00	6.55	
89 Hexachloroethane	117	6.176	6.160	0.016	82	156271	8.00	6.92	
85 Nitrobenzene	77	6.245	6.229	0.016	76	296069	8.00	7.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
94 Isophorone	82	6.448	6.432	0.016	95	547056	8.00	7.18	
97 2-Nitrophenol	139	6.502	6.496	0.006	78	249918	8.00	8.44	
99 2,4-Dimethylphenol	107	6.571	6.566	0.005	88	304355	8.00	6.62	
103 Bis(2-chloroethoxy)methane	93	6.624	6.619	0.005	94	374636	8.00	6.92	
106 2,4-Dichlorophenol	162	6.726	6.721	0.005	85	388880	8.00	7.96	
100 1,2,4-Trichlorobenzene	180	6.769	6.758	0.011	93	444519	8.00	7.38	
105 Benzoic acid	105	6.758	6.774	-0.016	83	343566	16.0	11.0	
107 Naphthalene	128	6.833	6.827	0.006	97	987932	8.00	7.34	
108 4-Chloroaniline	127	6.886	6.886	0.000	96	290187	8.00	4.94	M
110 Hexachlorobutadiene	225	6.934	6.929	0.005	88	289004	8.00	7.38	
114 Caprolactam	113	7.217	7.217	-0.001	88	110463	16.0	7.23	M
117 4-Chloro-3-methylphenol	107	7.330	7.314	0.016	86	309253	8.00	8.07	
121 2-Methylnaphthalene	142	7.399	7.399	0.000	92	754460	8.00	7.19	
236 1-Methylnaphthalene	142	7.479	7.479	0.000	95	722112	8.00	7.35	
125 Hexachlorocyclopentadiene	237	7.527	7.527	0.000	90	234084	8.00	7.13	
124 1,2,4,5-Tetrachlorobenzene	216	7.538	7.538	0.000	93	480508	8.00	7.38	
127 2,4,6-Trichlorophenol	196	7.650	7.645	0.005	85	328581	8.00	8.24	
129 2,4,5-Trichlorophenol	196	7.698	7.693	0.005	91	328370	8.00	7.97	
130 1,1'-Biphenyl	154	7.789	7.784	0.005	96	887241	8.00	7.22	
131 2-Chloronaphthalene	162	7.800	7.800	0.000	93	775235	8.00	7.27	
132 2-Nitroaniline	65	7.901	7.896	0.005	92	138601	8.00	7.87	
134 Dimethyl phthalate	163	8.051	8.045	0.006	98	950095	8.00	7.79	
139 1,3-Dinitrobenzene	168	8.083	8.072	0.011	77	183063	8.00	7.91	
135 2,6-Dinitrotoluene	165	8.099	8.094	0.005	82	243556	8.00	8.37	
137 Acenaphthylene	152	8.142	8.136	0.006	96	1077414	8.00	7.70	
140 3-Nitroaniline	138	8.249	8.248	0.000	81	148014	8.00	7.51	
141 Acenaphthene	153	8.286	8.281	0.005	93	771337	8.00	7.04	
142 2,4-Dinitrophenol	184	8.329	8.323	0.006	79	262734	16.0	15.9	
145 Dibenzofuran	168	8.425	8.425	0.000	98	1015824	8.00	7.45	
144 2,4-Dinitrotoluene	165	8.430	8.425	0.005	89	294808	8.00	8.03	
143 4-Nitrophenol	109	8.441	8.430	0.011	66	101731	16.0	10.1	
147 2,3,4,6-Tetrachlorophenol	232	8.542	8.537	0.005	65	312338	8.00	8.49	
149 Diethyl phthalate	149	8.622	8.617	0.005	99	788449	8.00	7.45	
240 Hexadecane	57	8.628	8.628	0.000	86	260125	8.00	6.44	
151 Fluorene	166	8.708	8.703	0.005	94	836398	8.00	7.36	
152 4-Chlorophenyl phenyl ethe	204	8.708	8.703	0.005	81	474571	8.00	7.45	
153 4-Nitroaniline	138	8.756	8.756	0.000	94	152028	8.00	14.6	E
154 4,6-Dinitro-2-methylphenol	198	8.772	8.761	0.011	95	415865	16.0	15.9	
157 N-Nitrosodiphenylamine	169	8.815	8.799	0.016	61	1047699	16.0	12.9	
158 Azobenzene	77	8.841	8.836	0.005	86	566891	8.00	7.03	
159 1,2-Diphenylhydrazine	77	8.841	8.836	0.005	90	566891	8.00	7.38	
164 4-Bromophenyl phenyl ether	248	9.109	9.103	0.006	53	402914	8.00	7.88	
168 Hexachlorobenzene	284	9.157	9.151	0.006	93	513445	8.00	7.77	
170 Atrazine	200	9.264	9.248	0.016	94	555664	16.0	15.9	E
172 Pentachlorophenol	266	9.333	9.333	0.000	95	481627	16.0	14.2	
269 n-Octadecane	57	9.386	9.381	0.005	0	282434	8.00	6.69	
177 Phenanthrene	178	9.493	9.493	0.000	96	1228747	8.00	7.64	
180 Anthracene	178	9.536	9.536	0.000	97	1208402	8.00	7.39	
181 Carbazole	167	9.675	9.670	0.005	96	936090	8.00	9.58	
184 Di-n-butyl phthalate	149	9.953	9.953	0.000	98	1188859	8.00	7.37	
191 Fluoranthene	202	10.466	10.466	0.000	96	1356555	8.00	7.59	
192 Benzidine	184	10.588	10.583	0.005	97	54009	16.0	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
193 Pyrene	202	10.653	10.647	0.005	94	1377278	8.00	7.70	
200 Butyl benzyl phthalate	149	11.192	11.192	0.000	90	610959	8.00	7.84	
204 3,3'-Dichlorobenzidine	252	11.705	11.689	0.016	70	1031561	16.0	17.4	E
205 Benzo[a]anthracene	228	11.716	11.716	0.000	97	1567776	8.00	7.63	
206 Bis(2-ethylhexyl) phthalat	149	11.742	11.742	0.000	89	795042	8.00	7.29	
207 Chrysene	228	11.758	11.753	0.005	94	1405765	8.00	8.24	
208 Di-n-octyl phthalate	149	12.464	12.458	0.006	96	1448717	8.00	8.12	
209 Benzo[b]fluoranthene	252	12.923	12.912	0.011	95	2025996	8.00	8.29	
211 Benzo[k]fluoranthene	252	12.960	12.950	0.010	97	1786638	8.00	7.34	
213 Benzo[a]pyrene	252	13.324	13.313	0.011	76	1766122	8.00	7.86	
215 Indeno[1,2,3-cd]pyrene	276	14.793	14.777	0.016	97	2433920	8.00	8.24	
216 Dibenz(a,h)anthracene	278	14.819	14.809	0.010	92	2025109	8.00	8.23	
217 Benzo[g,h,i]perylene	276	15.145	15.129	0.016	97	1996844	8.00	8.32	
230 Indene	115		0.750					ND	
S 219 3-Methylphenol	1				0		4.00	6.55	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

Reagents:

MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

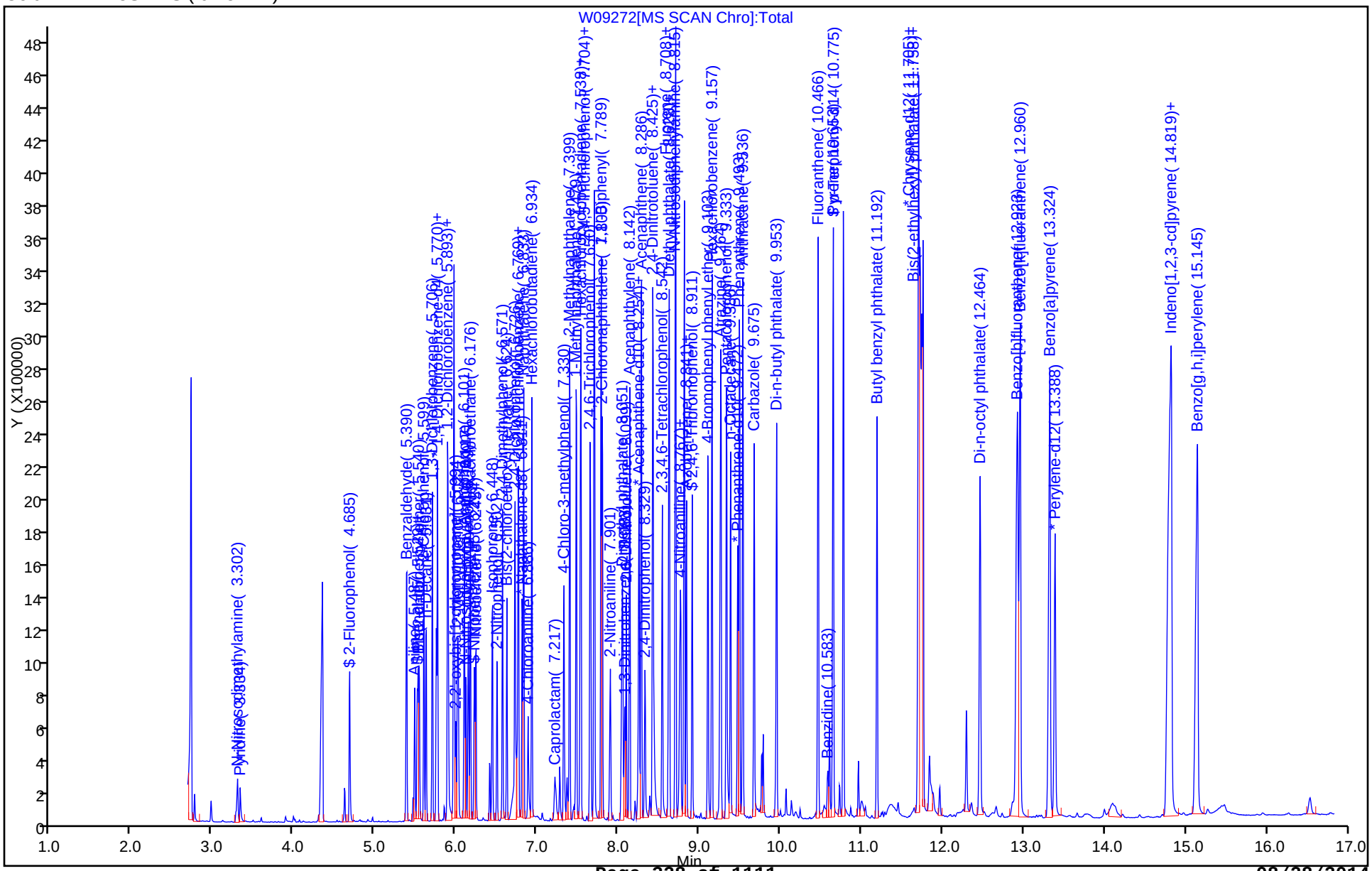
Report Date: 05-Aug-2014 09:57:51 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09272.D

Injection Date:	02-Aug-2014 15:44:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	LCS 480-195843/2-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

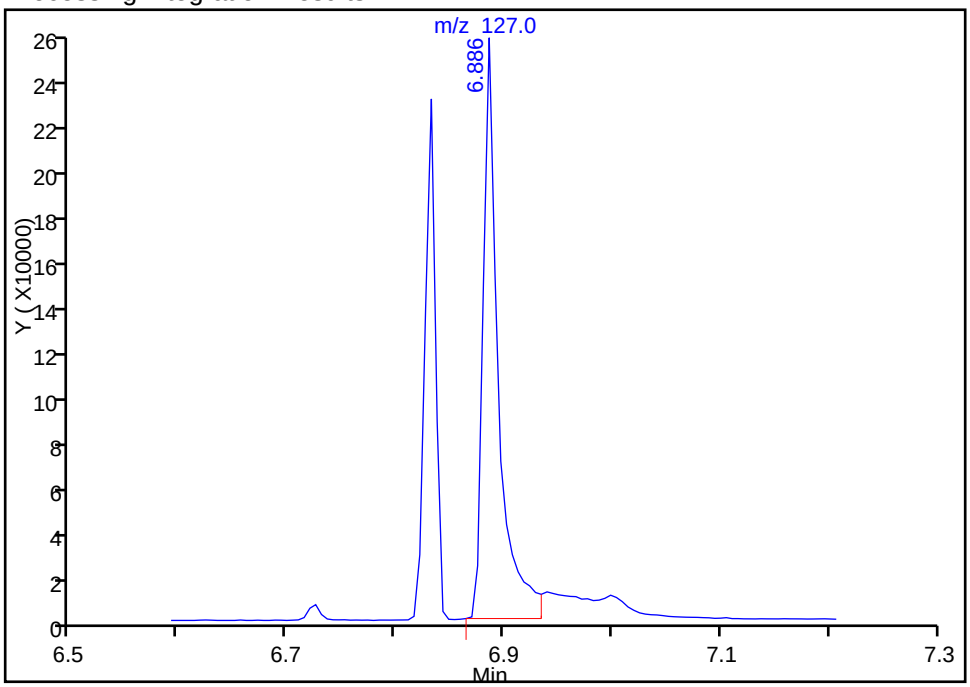
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09272.D				
Injection Date:	02-Aug-2014 15:44:30	Instrument ID:	HP5973W		
Lims ID:	LCS 480-195843/2-A				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 4-Chloroaniline, CAS: 106-47-8

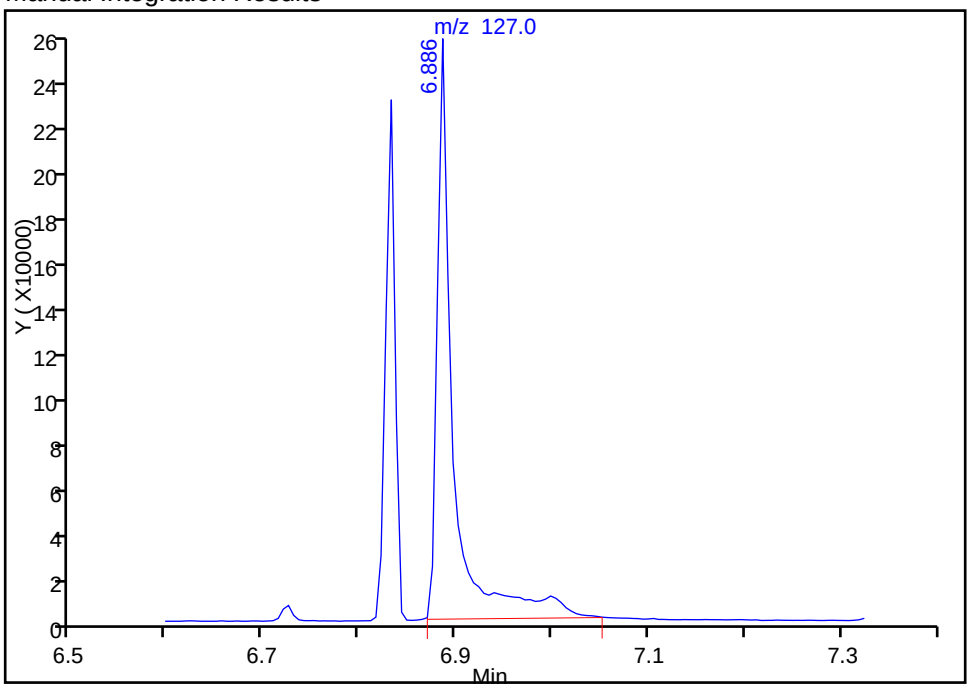
Processing Integration Results

RT: 6.89
Response: 247544
Amount: 4.231690



Manual Integration Results

RT: 6.89
Response: 290187
Amount: 4.935778



Reviewer: quirkp, 05-Aug-2014 09:57:51
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

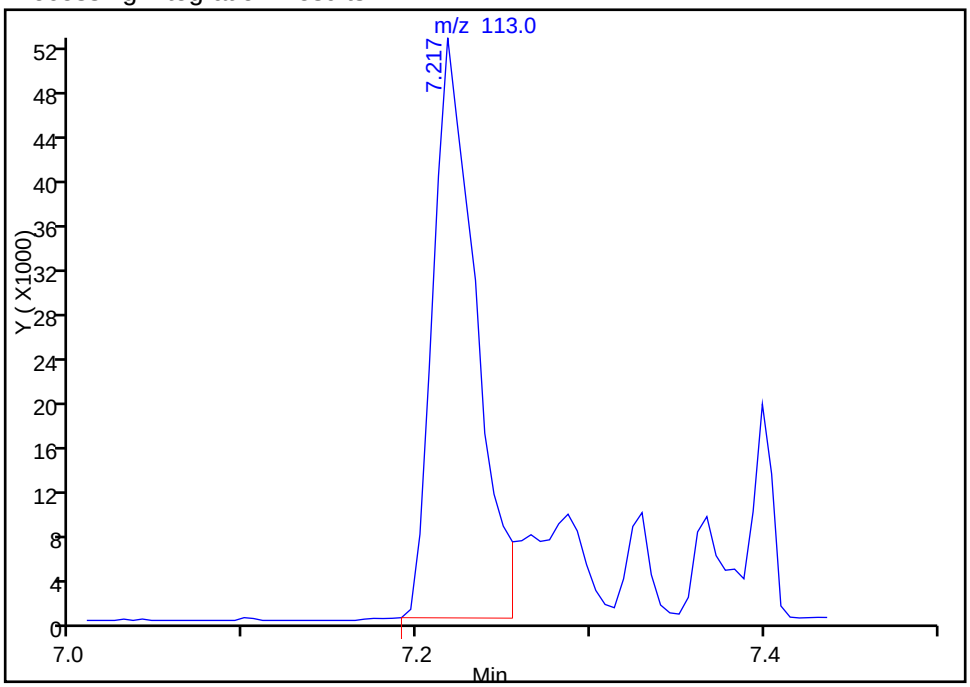
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09272.D				
Injection Date:	02-Aug-2014 15:44:30	Instrument ID:	HP5973W		
Lims ID:	LCS 480-195843/2-A				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 Caprolactam, CAS: 105-60-2

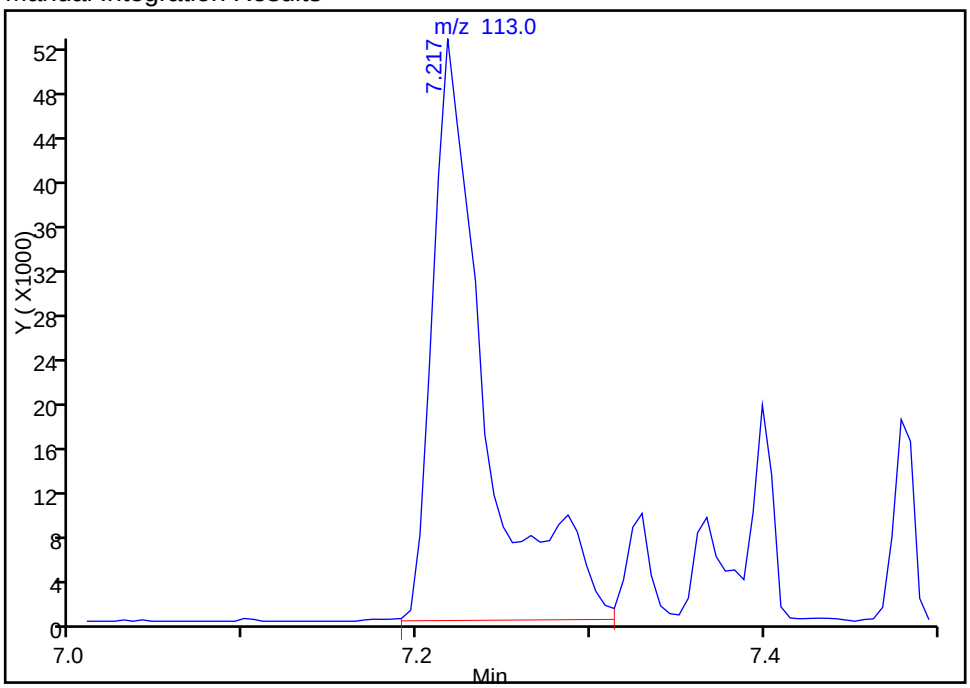
Processing Integration Results

RT: 7.22
Response: 89182
Amount: 5.838531



Manual Integration Results

RT: 7.22
Response: 110463
Amount: 7.231747



Reviewer: quirkp, 05-Aug-2014 09:57:51
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-195843/3-A

Matrix: Water | Lab File ID: W09273.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 16:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	19.4		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	15.3		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	22.2		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	22.5		5.0	0.61
120-83-2	2,4-Dichlorophenol	22.1		5.0	0.51
105-67-9	2,4-Dimethylphenol	19.6		5.0	0.50
51-28-5	2,4-Dinitrophenol	43.5		10	2.2
121-14-2	2,4-Dinitrotoluene	22.1		5.0	0.45
606-20-2	2,6-Dinitrotoluene	22.5		5.0	0.40
91-58-7	2-Chloronaphthalene	18.8		5.0	0.46
95-57-8	2-Chlorophenol	21.9		5.0	0.53
91-57-6	2-Methylnaphthalene	19.0		5.0	0.60
95-48-7	2-Methylphenol	22.4		5.0	0.40
88-74-4	2-Nitroaniline	21.5		10	0.42
88-75-5	2-Nitrophenol	22.4		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	43.3		5.0	0.40
99-09-2	3-Nitroaniline	24.3		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	42.1		10	2.2
101-55-3	4-Bromophenyl phenyl ether	22.0		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	23.4		5.0	0.45
106-47-8	4-Chloroaniline	11.6		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	19.8		5.0	0.35
106-44-5	4-Methylphenol	19.9		10	0.36
100-01-6	4-Nitroaniline	38.6		10	0.25
100-02-7	4-Nitrophenol	27.6		10	1.5
83-32-9	Acenaphthene	19.7		5.0	0.41
208-96-8	Acenaphthylene	20.1		5.0	0.38
98-86-2	Acetophenone	20.4		5.0	0.54
120-12-7	Anthracene	20.7		5.0	0.28
1912-24-9	Atrazine	45.7		5.0	0.46
100-52-7	Benzaldehyde	24.8		5.0	0.27
56-55-3	Benzo[a]anthracene	23.7		5.0	0.36
50-32-8	Benzo[a]pyrene	24.2		5.0	0.47
205-99-2	Benzo[b]fluoranthene	23.9		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-195843/3-A

Matrix: Water | Lab File ID: W09273.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 16:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	26.1		5.0	0.35
207-08-9	Benzo[k]fluoranthene	23.1		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	18.8		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	18.6		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	23.3		5.0	1.8
85-68-7	Butyl benzyl phthalate	22.4		5.0	0.42
105-60-2	Caprolactam	23.0		5.0	2.2
86-74-8	Carbazole	26.2		5.0	0.30
218-01-9	Chrysene	24.3		5.0	0.33
84-74-2	Di-n-butyl phthalate	21.0		5.0	0.31
117-84-0	Di-n-octyl phthalate	25.2		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	25.8		5.0	0.42
132-64-9	Dibenzofuran	19.7		10	0.51
84-66-2	Diethyl phthalate	20.2		5.0	0.22
131-11-3	Dimethyl phthalate	21.3		5.0	0.36
206-44-0	Fluoranthene	21.4		5.0	0.40
86-73-7	Fluorene	20.2		5.0	0.36
118-74-1	Hexachlorobenzene	23.0		5.0	0.51
87-68-3	Hexachlorobutadiene	19.7		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	18.2		5.0	0.59
67-72-1	Hexachloroethane	18.1		5.0	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	25.2		5.0	0.47
78-59-1	Isophorone	19.8		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	19.0		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	37.1		5.0	0.51
91-20-3	Naphthalene	21.3		5.0	0.76
98-95-3	Nitrobenzene	19.1		5.0	0.29
87-86-5	Pentachlorophenol	42.1		10	2.2
85-01-8	Phenanthrene	20.9		5.0	0.44
108-95-2	Phenol	15.9		5.0	0.39
129-00-0	Pyrene	21.7		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-195843/3-A

Matrix: Water | Lab File ID: W09273.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/01/2014 08:25

Sample wt/vol: 250(mL) | Date Analyzed: 08/02/2014 16:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 196033 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	93		52-132
321-60-8	2-Fluorobiphenyl	73		48-120
367-12-4	2-Fluorophenol	92		20-120
4165-60-0	Nitrobenzene-d5	76		46-120
1718-51-0	p-Terphenyl-d14	94		67-150
4165-62-2	Phenol-d5	65		16-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09273.D
Lims ID: LCSD 480-195843/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 02-Aug-2014 16:09:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0034300-010
Operator ID: PJQ Instrument ID: HP5973W

Method: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-Aug-2014 10:22:06 Calib Date: 31-Jul-2014 18:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973W\20140731-34249.b\W09242.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: quirkp Date: 05-Aug-2014 10:30:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.748	5.738	0.010	90	174157	4.00	4.00	
* 2 Naphthalene-d8	136	6.811	6.806	0.005	98	620712	4.00	4.00	
* 3 Acenaphthene-d10	164	8.254	8.254	0.000	91	399366	4.00	4.00	
* 4 Phenanthrene-d10	188	9.472	9.472	0.000	96	692274	4.00	4.00	
* 5 Chrysene-d12	240	11.732	11.726	0.006	96	804794	4.00	4.00	
* 6 Perylene-d12	264	13.388	13.382	0.006	98	943625	4.00	4.00	
$ 7 2-Fluorophenol	112	4.675	4.632	0.043	84	236036	8.00	7.36	
$ 8 Phenol-d5	99	5.513	5.497	0.016	93	214829	8.00	5.18	
$ 9 Nitrobenzene-d5	82	6.218	6.208	0.010	78	213351	8.00	6.06	
$ 10 2-Fluorobiphenyl	172	7.704	7.704	0.000	98	636908	8.00	5.84	
$ 11 2,4,6-Tribromophenol	330	8.911	8.906	0.005	84	227759	8.00	7.45	
$ 12 p-Terphenyl-d14	244	10.775	10.775	0.000	99	1054616	8.00	7.52	
55 1,4-Dioxane	88	2.938	2.778	0.160	85	34935	8.00	2.89	
53 N-Nitrosodimethylamine	42	3.270	3.131	0.139	79	45701	8.00	4.12	
52 Pyridine	52	3.350	3.163	0.187	11	758	8.00	0.3757	M
71 Benzaldehyde	77	5.380	5.353	0.027	90	210646	16.0	6.19	
69 Aniline	93	5.481	5.460	0.021	96	39924	8.00	0.5890	
72 Phenol	94	5.524	5.508	0.016	91	227047	8.00	3.98	
74 Bis(2-chloroethyl)ether	93	5.535	5.519	0.016	94	237088	8.00	4.66	
75 2-Chlorophenol	128	5.593	5.577	0.016	89	305715	8.00	5.48	
267 n-Decane	57	5.625	5.609	0.016	0	140916	8.00	3.58	
78 1,3-Dichlorobenzene	146	5.700	5.684	0.016	95	298578	8.00	4.54	
77 1,4-Dichlorobenzene	146	5.764	5.748	0.016	97	309828	8.00	4.69	
73 1,2-Dichlorobenzene	146	5.887	5.877	0.010	98	300389	8.00	4.74	
79 Benzyl alcohol	108	5.893	5.882	0.011	94	184132	8.00	5.64	
83 2,2'-oxybis[1-chloropropan	45	5.989	5.978	0.011	95	157174	8.00	3.83	
82 2-Methylphenol	108	6.015	6.010	0.005	92	267540	8.00	5.60	
86 Acetophenone	105	6.096	6.085	0.011	92	324485	8.00	5.09	
87 N-Nitrosodi-n-propylamine	70	6.112	6.101	0.011	67	137447	8.00	4.74	
88 4-Methylphenol	108	6.144	6.138	0.006	98	249664	8.00	4.97	
89 Hexachloroethane	117	6.170	6.160	0.010	83	101916	8.00	4.53	
85 Nitrobenzene	77	6.234	6.229	0.005	76	199694	8.00	4.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
94 Isophorone	82	6.437	6.432	0.005	95	380026	8.00	4.95	
97 2-Nitrophenol	139	6.502	6.496	0.006	76	166852	8.00	5.60	
99 2,4-Dimethylphenol	107	6.566	6.566	0.000	88	226606	8.00	4.90	
103 Bis(2-chloroethoxy)methane	93	6.619	6.619	0.000	94	255701	8.00	4.69	
106 2,4-Dichlorophenol	162	6.721	6.721	0.000	84	271503	8.00	5.52	
100 1,2,4-Trichlorobenzene	180	6.763	6.758	0.005	91	302569	8.00	4.99	
105 Benzoic acid	105	6.742	6.774	-0.032	83	277728	16.0	9.01	
107 Naphthalene	128	6.827	6.827	0.000	96	726918	8.00	5.33	
108 4-Chloroaniline	127	6.886	6.886	0.000	96	168740	8.00	2.91	M
110 Hexachlorobutadiene	225	6.929	6.929	0.000	88	194350	8.00	4.93	
114 Caprolactam	113	7.212	7.218	-0.006	89	88412	16.0	5.75	M
117 4-Chloro-3-methylphenol	107	7.324	7.314	0.010	86	225922	8.00	5.85	
121 2-Methylnaphthalene	142	7.399	7.399	0.000	92	535726	8.00	4.76	
236 1-Methylnaphthalene	142	7.479	7.479	0.000	95	505020	8.00	4.78	
125 Hexachlorocyclopentadiene	237	7.527	7.527	0.000	90	151566	8.00	4.56	
124 1,2,4,5-Tetrachlorobenzene	216	7.538	7.538	0.000	93	334225	8.00	5.00	
127 2,4,6-Trichlorophenol	196	7.650	7.645	0.005	85	230564	8.00	5.63	
129 2,4,5-Trichlorophenol	196	7.698	7.693	0.005	90	235246	8.00	5.56	
130 1,1'-Biphenyl	154	7.784	7.784	0.000	95	665126	8.00	4.85	
131 2-Chloronaphthalene	162	7.800	7.800	0.000	92	550541	8.00	4.71	
132 2-Nitroaniline	65	7.896	7.896	0.000	92	96923	8.00	5.36	
134 Dimethyl phthalate	163	8.046	8.045	0.001	98	666531	8.00	5.32	
139 1,3-Dinitrobenzene	168	8.078	8.072	0.006	78	123498	8.00	5.34	
135 2,6-Dinitrotoluene	165	8.094	8.094	0.000	82	168077	8.00	5.63	
137 Acenaphthylene	152	8.136	8.136	0.000	97	784863	8.00	5.04	
140 3-Nitroaniline	138	8.243	8.248	-0.005	83	116227	8.00	6.08	
141 Acenaphthene	153	8.281	8.281	0.000	93	554774	8.00	4.93	
142 2,4-Dinitrophenol	184	8.323	8.323	0.000	82	170708	16.0	10.9	
145 Dibenzofuran	168	8.425	8.425	0.000	97	747112	8.00	4.94	
144 2,4-Dinitrotoluene	165	8.425	8.425	0.000	59	208261	8.00	5.52	
143 4-Nitrophenol	109	8.441	8.430	0.011	70	70571	16.0	6.90	
147 2,3,4,6-Tetrachlorophenol	232	8.542	8.537	0.005	65	217191	8.00	5.75	
149 Diethyl phthalate	149	8.617	8.617	0.000	99	582593	8.00	5.04	
240 Hexadecane	57	8.628	8.628	0.000	86	217544	8.00	5.01	
151 Fluorene	166	8.703	8.703	0.000	94	629511	8.00	5.06	
152 4-Chlorophenyl phenyl ethe	204	8.703	8.703	0.000	85	349438	8.00	4.96	
153 4-Nitroaniline	138	8.751	8.756	-0.005	92	103779	8.00	9.64	
154 4,6-Dinitro-2-methylphenol	198	8.761	8.761	0.000	95	273886	16.0	10.5	
157 N-Nitrosodiphenylamine	169	8.809	8.799	0.010	69	762353	16.0	9.27	
158 Azobenzene	77	8.836	8.836	0.000	87	393303	8.00	4.83	
159 1,2-Diphenylhydrazine	77	8.836	8.836	0.000	91	393303	8.00	4.99	
164 4-Bromophenyl phenyl ether	248	9.103	9.103	0.000	53	283972	8.00	5.51	
168 Hexachlorobenzene	284	9.151	9.151	0.000	93	383218	8.00	5.75	
170 Atrazine	200	9.258	9.248	0.010	93	411078	16.0	11.4	
172 Pentachlorophenol	266	9.333	9.333	0.000	96	358689	16.0	10.5	
269 n-Octadecane	57	9.381	9.381	0.000	0	225796	8.00	5.30	
177 Phenanthrene	178	9.493	9.493	0.000	96	906110	8.00	5.22	
180 Anthracene	178	9.536	9.536	0.000	97	914345	8.00	5.17	
181 Carbazole	167	9.675	9.670	0.005	95	653808	8.00	6.54	
184 Di-n-butyl phthalate	149	9.953	9.953	0.000	98	920852	8.00	5.24	
191 Fluoranthene	202	10.466	10.466	0.000	97	1039972	8.00	5.34	
192 Benzidine	184	10.588	10.583	0.005	52	637	16.0	0.8075	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
193 Pyrene	202	10.647	10.647	0.000	98	1064739	8.00	5.41	
200 Butyl benzyl phthalate	149	11.192	11.192	0.000	90	448186	8.00	5.60	
204 3,3'-Dichlorobenzidine	252	11.700	11.689	0.011	71	658163	16.0	10.8	
205 Benzo[a]anthracene	228	11.716	11.716	0.000	97	1247951	8.00	5.92	
206 Bis(2-ethylhexyl) phthalat	149	11.742	11.742	0.000	89	652318	8.00	5.83	
207 Chrysene	228	11.758	11.753	0.005	87	1123791	8.00	6.07	
208 Di-n-octyl phthalate	149	12.464	12.458	0.006	96	1155637	8.00	6.31	
209 Benzo[b]fluoranthene	252	12.918	12.912	0.006	95	1478433	8.00	5.96	
211 Benzo[k]fluoranthene	252	12.955	12.950	0.005	97	1510375	8.00	5.77	
213 Benzo[a]pyrene	252	13.318	13.313	0.005	76	1381132	8.00	6.06	
215 Indeno[1,2,3-cd]pyrene	276	14.787	14.777	0.010	97	1891658	8.00	6.31	
216 Dibenz(a,h)anthracene	278	14.814	14.809	0.005	90	1614124	8.00	6.46	
217 Benzo[g,h,i]perylene	276	15.140	15.129	0.011	97	1587007	8.00	6.52	
230 Indene	115		0.750					ND	
S 219 3-Methylphenol	1				0		4.00	4.97	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
M - Manually Integrated

Reagents:

MB_LLIS_WRK_00046 Amount Added: 20.00 Units: uL Run Reagent

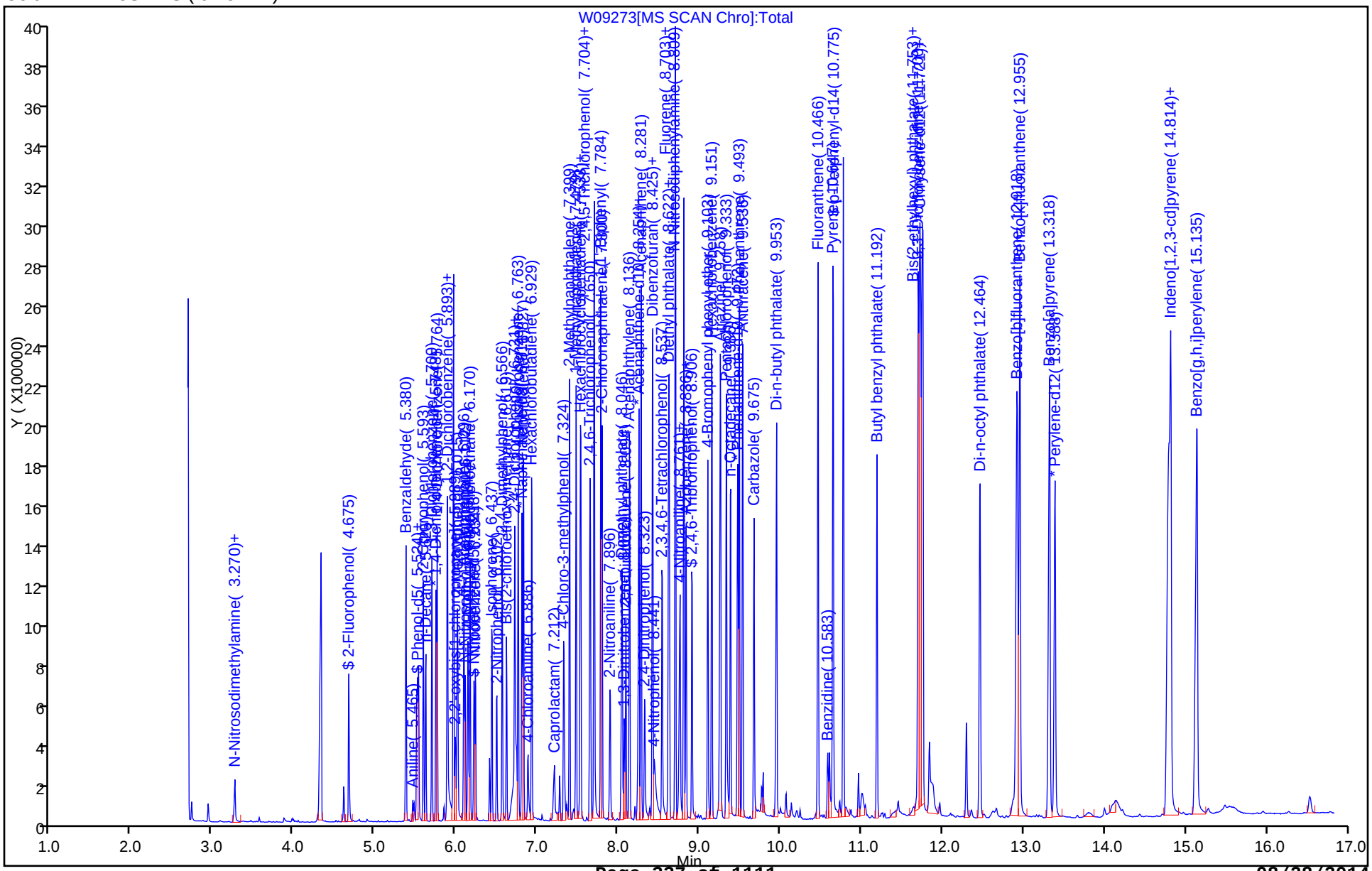
Report Date: 05-Aug-2014 10:30:10 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09273.D

Injection Date:	02-Aug-2014 16:09:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	LCSD 480-195843/3-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

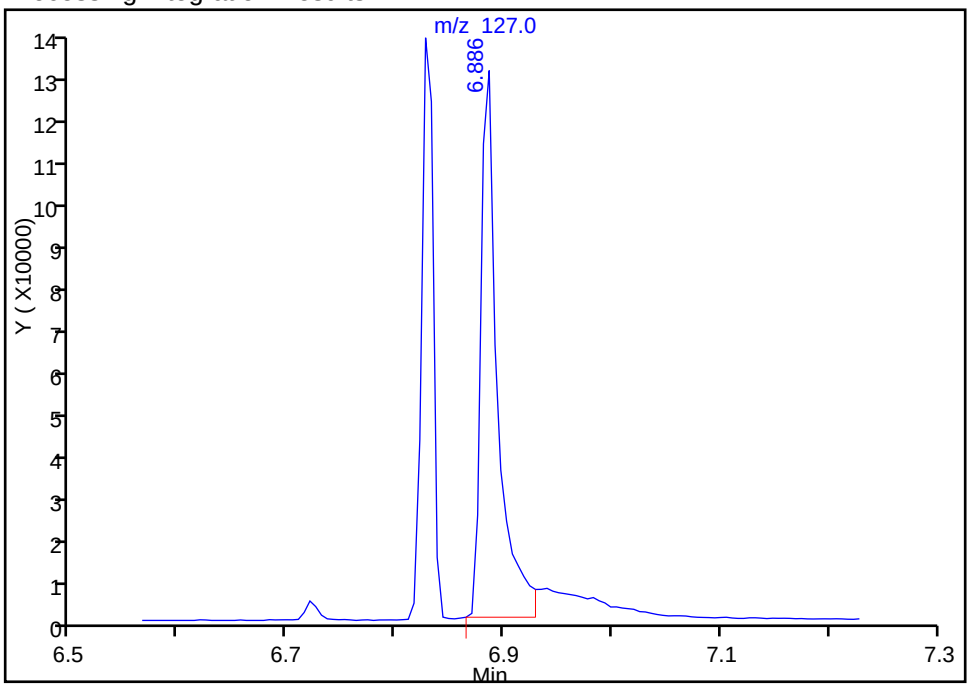
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09273.D				
Injection Date:	02-Aug-2014 16:09:30	Instrument ID:	HP5973W		
Lims ID:	LCSD 480-195843/3-A				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

108 4-Chloroaniline, CAS: 106-47-8

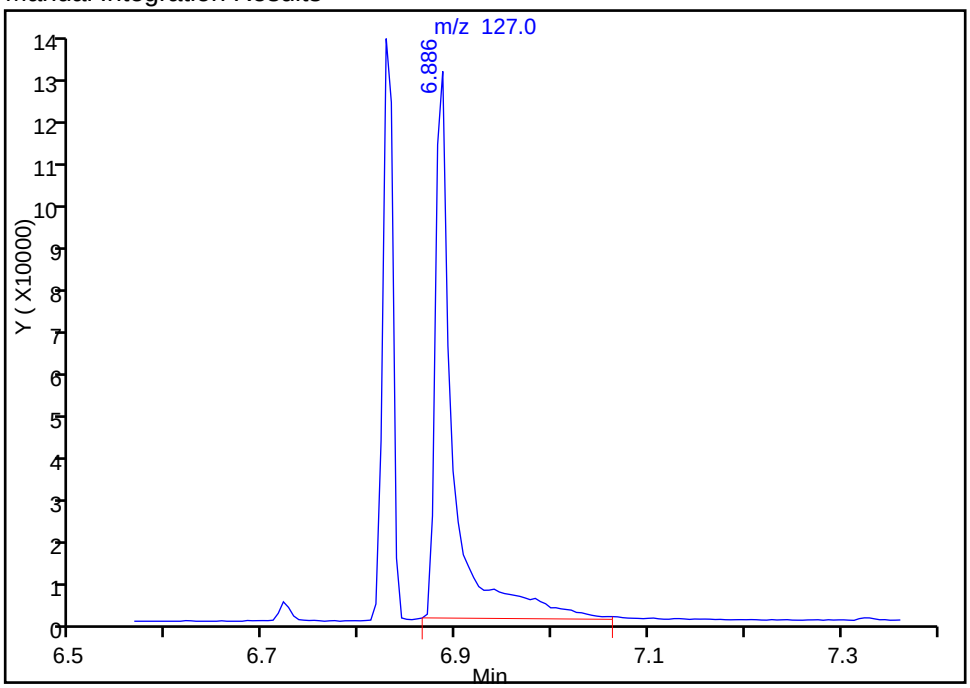
Processing Integration Results

RT: 6.89
Response: 141608
Amount: 2.466557



Manual Integration Results

RT: 6.89
Response: 168740
Amount: 2.911475



Reviewer: quirkp, 05-Aug-2014 10:13:15
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

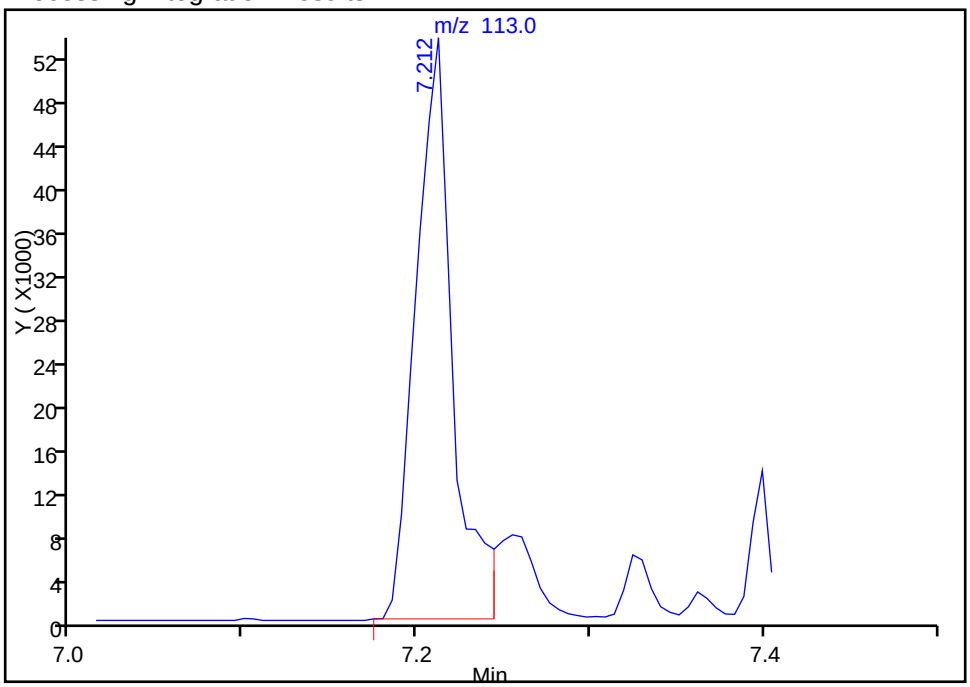
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973W\20140802-34300.b\W09273.D				
Injection Date:	02-Aug-2014 16:09:30	Instrument ID:	HP5973W		
Lims ID:	LCSD 480-195843/3-A				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

114 Caprolactam, CAS: 105-60-2

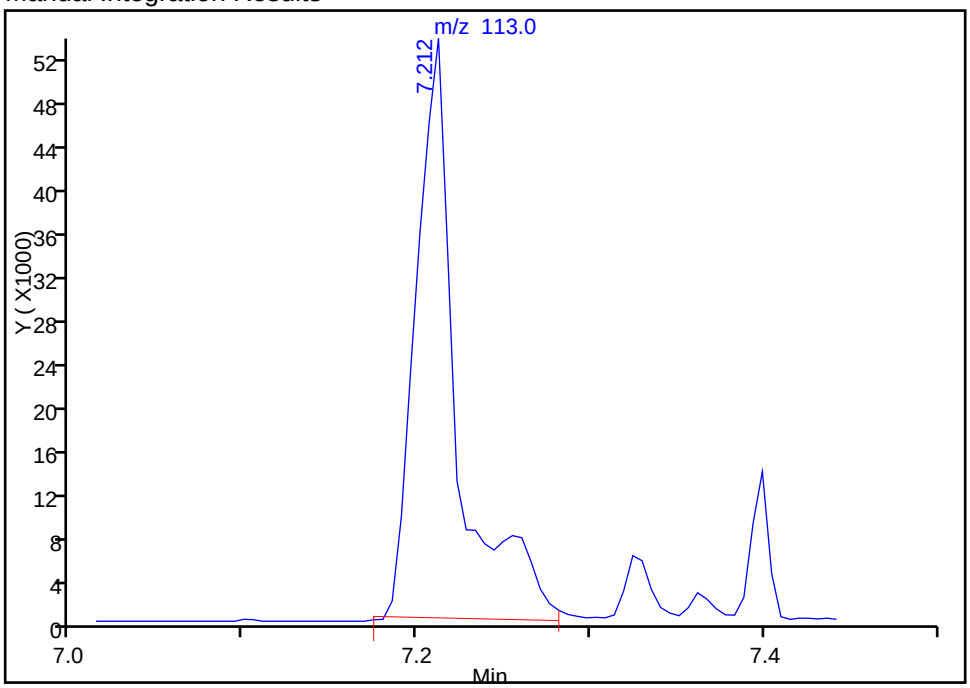
Processing Integration Results

RT: 7.21
Response: 78616
Amount: 5.111585



Manual Integration Results

RT: 7.21
Response: 88412
Amount: 5.748518



Reviewer: quirkp, 05-Aug-2014 10:13:15
Audit Action: Manually Integrated
Audit Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP5973W Start Date: 07/23/2014 17:16

Analysis Batch Number: 194440 End Date: 07/24/2014 03:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-194440/2		07/23/2014 17:16	1	W08963.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/3		07/23/2014 18:10	1	W08965.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/4		07/23/2014 18:36	1	W08966.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/5		07/23/2014 19:01	1	W08967.D	RXI-5Sil MS 0.25(mm)
ICIS 480-194440/6		07/23/2014 19:27	1	W08968.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/7		07/23/2014 19:52	1	W08969.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/8		07/23/2014 20:18	1	W08970.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/9		07/23/2014 20:44	1	W08971.D	RXI-5Sil MS 0.25(mm)
ICV 480-194440/10		07/23/2014 21:09	1		RXI-5Sil MS 0.25(mm)
IC 480-194440/11		07/23/2014 21:34	1	W08973.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/12		07/23/2014 21:59	1	W08974.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/13		07/23/2014 22:23	1	W08975.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/14		07/23/2014 22:48	1	W08976.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/15		07/23/2014 23:13	1	W08977.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/16		07/23/2014 23:38	1	W08978.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/17		07/24/2014 00:03	1	W08979.D	RXI-5Sil MS 0.25(mm)
IC 480-194440/19		07/24/2014 00:54	1		RXI-5Sil MS 0.25(mm)
IC 480-194440/20		07/24/2014 01:18	1		RXI-5Sil MS 0.25(mm)
IC 480-194440/21		07/24/2014 01:44	1		RXI-5Sil MS 0.25(mm)
IC 480-194440/22		07/24/2014 02:09	1		RXI-5Sil MS 0.25(mm)
IC 480-194440/23		07/24/2014 02:34	1		RXI-5Sil MS 0.25(mm)
IC 480-194440/24		07/24/2014 02:59	1		RXI-5Sil MS 0.25(mm)
IC 480-194440/25		07/24/2014 03:24	1		RXI-5Sil MS 0.25(mm)
ICV 480-194440/26		07/24/2014 03:49	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP5973W Start Date: 08/02/2014 12:24

Analysis Batch Number: 196033 End Date: 08/02/2014 19:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-196033/2		08/02/2014 12:24	1	W09265.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-196033/3		08/02/2014 12:48	1	W09266.D	RXI-5Sil MS 0.25(mm)
CCVL 480-196033/4		08/02/2014 13:38	1		RXI-5Sil MS 0.25(mm)
CCV 480-196033/5		08/02/2014 14:04	1	W09268.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2014 14:29	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2014 14:54	1		RXI-5Sil MS 0.25(mm)
MB 480-195843/1-A		08/02/2014 15:19	1	W09271.D	RXI-5Sil MS 0.25(mm)
LCS 480-195843/2-A		08/02/2014 15:44	1	W09272.D	RXI-5Sil MS 0.25(mm)
LCSD 480-195843/3-A		08/02/2014 16:09	1	W09273.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2014 16:34	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2014 16:59	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2014 17:49	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2014 18:13	1		RXI-5Sil MS 0.25(mm)
480-64676-1	AS-WTPE-14-0044	08/02/2014 18:39	1	W09279.D	RXI-5Sil MS 0.25(mm)
480-64676-2	AS-WTPE-14-0045	08/02/2014 19:03	1	W09280.D	RXI-5Sil MS 0.25(mm)
480-64676-3	AS-WTPE-14-0046	08/02/2014 19:28	1	W09281.D	RXI-5Sil MS 0.25(mm)
480-64676-4	AS-WTPE-14-0047	08/02/2014 19:53	1	W09282.D	RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Batch Number: 195843 Batch Start Date: 08/01/14 08:25 Batch Analyst: Schick, Robert J

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH
MB 480-195843/1		3510C, 8270D		7 SU			250 mL	1 mL	<2 SU
LCS 480-195843/2		3510C, 8270D		7 SU			250 mL	1 mL	<2 SU
LCSD 480-195843/3		3510C, 8270D		7 SU			250 mL	1 mL	<2 SU
480-64676-C-1	AS-WTPE-14-0044	3510C, 8270D	T	6 SU	000410.4 g	000173.9 g	236.5 mL	1 mL	<2 SU
480-64676-C-2	AS-WTPE-14-0045	3510C, 8270D	T	6 SU	000410.4 g	000173.4 g	237 mL	1 mL	<2 SU
480-64676-C-3	AS-WTPE-14-0046	3510C, 8270D	T	6 SU	000403.0 g	000173.3 g	229.7 mL	1 mL	<2 SU
480-64676-C-4	AS-WTPE-14-0047	3510C, 8270D	T	6 SU	000421.8 g	000173.2 g	248.6 mL	1 mL	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	O_8270LL LCS 00006	O_8270LLsurr 00019			
MB 480-195843/1		3510C, 8270D		>11 SU		1 mL			
LCS 480-195843/2		3510C, 8270D		>11 SU	1 mL	1 mL			
LCSD 480-195843/3		3510C, 8270D		>11 SU	1 mL	1 mL			
480-64676-C-1	AS-WTPE-14-0044	3510C, 8270D	T	>11 SU		1 mL			
480-64676-C-2	AS-WTPE-14-0045	3510C, 8270D	T	>11 SU		1 mL			
480-64676-C-3	AS-WTPE-14-0046	3510C, 8270D	T	>11 SU		1 mL			
480-64676-C-4	AS-WTPE-14-0047	3510C, 8270D	T	>11 SU		1 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Batch Number: 195843 Batch Start Date: 08/01/14 08:25 Batch Analyst: Schick, Robert J

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric
Acid used for pH adjust Lot #	2403A28
Balance ID	14552245
Base used for pH adjustment	NaOH
Base used for pH adjust Lot #	HC311857
Person's name who did the concentration	BS
Final Concentrator Volume	1 mL
Na2SO4 Lot Number	27864004
Prep Solvent Lot #	0000078272
Prep Solvent Name	Methylene Chloride
Prep Solvent Volume Used	120 mL
Person's name who did the prep	BS
Person's name who witnessed reagent drop	BS
Person who performed Spike	BS
Person who witnessed spiking	BS
Sufficient volume for MS/MSD?	NO

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8082A_LL

Polychlorinated Biphenyls (PCBs) (GC)

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5 ID: 0.53 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
AS-WTPE-14-0044	480-64676-1	37	76	53	54
AS-WTPE-14-0045	480-64676-2	85	86	74	78
AS-WTPE-14-0046	480-64676-3	81	80	65	69
AS-WTPE-14-0047	480-64676-4	80	75	61	65
	MB 480-195771/1-A	79	77	52	55
	LCS 480-195771/2-A	85	83	26	26
	LCSD 480-195771/3-A	79	77	50	51

	QC LIMITS
TCX = Tetrachloro-m-xylene	25-151
DCB = DCB Decachlorobiphenyl	10-158

Column to be used to flag recovery values

FORM II 8082A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_342_100.D

Lab ID: LCS 480-195771/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.00	0.815	82	48-162	
PCB-1260	1.00	0.551	55	38-148	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_342_101.D

Lab ID: LCSD 480-195771/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	1.00	0.903	90	10	50	48-162	
PCB-1260	1.00	0.858	86	44	50	38-148	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: MB 480-195771/1-A

Matrix: Water Date Extracted: 07/31/2014 17:58

Lab File ID:(1) 7_342_099.D Lab File ID:(2) 7_342_099.D

Date Analyzed:(1) 08/01/2014 08:46 Date Analyzed:(2) 08/01/2014 08:46

Instrument ID:(1) HP6890-7 Instrument ID:(2) HP6890-7

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-195771/2-A	08/01/2014 09:02	08/01/2014 09:02
	LCSD 480-195771/3-A	08/01/2014 09:18	08/01/2014 09:18
AS-WTPE-14-0044	480-64676-1	08/01/2014 09:34	08/01/2014 09:34
AS-WTPE-14-0045	480-64676-2	08/01/2014 09:50	08/01/2014 09:50
AS-WTPE-14-0046	480-64676-3	08/01/2014 10:06	08/01/2014 10:06
AS-WTPE-14-0047	480-64676-4	08/01/2014 10:22	08/01/2014 10:22

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-195771/2-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 08/01/2014 09:02 Date Analyzed (2): 08/01/2014 09:02

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.70	2.67	2.73	0.854	0.815	8.0
		2	2.78	2.75	2.81	0.837		
		3	2.84	2.81	2.87	0.840		
		4	2.96	2.92	2.98	0.730		
	2	1	2.18	2.15	2.21	0.904	0.883	
		2	2.48	2.45	2.51	0.883		
		3	2.60	2.57	2.63	0.851		
		4	2.69	2.66	2.72	0.892		
PCB-1260	1	1	4.64	4.60	4.66	0.601	0.551	5.2
		2	4.82	4.79	4.85	0.584		
		3	5.02	4.99	5.05	0.573		
		4	5.26	5.23	5.29	0.446		
	2	1	4.63	4.60	4.66	0.502	0.523	
		2	4.70	4.67	4.73	0.514		
		3	4.77	4.74	4.80	0.566		
		4	5.10	5.07	5.13	0.509		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-195771/3-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 08/01/2014 09:18 Date Analyzed (2): 08/01/2014 09:18

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.70	2.67	2.73	0.914	0.903	4.4
		2	2.78	2.75	2.81	0.907		
		3	2.84	2.81	2.87	0.921		
		4	2.96	2.92	2.98	0.869		
	2	1	2.18	2.15	2.21	0.909	0.943	
		2	2.48	2.45	2.51	0.949		
		3	2.60	2.57	2.63	0.932		
		4	2.69	2.66	2.72	0.983		
PCB-1260	1	1	4.64	4.60	4.66	0.938	0.858	4.3
		2	4.82	4.79	4.85	0.894		
		3	5.02	4.99	5.05	0.896		
		4	5.26	5.23	5.29	0.704		
	2	1	4.63	4.60	4.66	0.759	0.822	
		2	4.70	4.67	4.73	0.790		
		3	4.77	4.74	4.80	0.905		
		4	5.10	5.07	5.13	0.834		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0044 Lab Sample ID: 480-64676-1

Matrix: Water Lab File ID: 7_342_102.D

Analysis Method: 8082A Date Collected: 07/30/2014 14:00

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 990.8(mL) Date Analyzed: 08/01/2014 09:34

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.061	0.038
11104-28-2	PCB-1221	ND		0.061	0.038
11141-16-5	PCB-1232	ND		0.061	0.038
53469-21-9	PCB-1242	ND		0.061	0.038
12672-29-6	PCB-1248	ND		0.061	0.038
11097-69-1	PCB-1254	ND		0.061	0.031
11096-82-5	PCB-1260	ND		0.061	0.031
37324-23-5	PCB-1262	ND		0.061	0.031
11100-14-4	PCB-1268	ND		0.061	0.031
1336-36-3	Polychlorinated biphenyls, Total	ND		0.061	0.038

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	53		10-158
877-09-8	Tetrachloro-m-xylene	37		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_102.D
Lims ID: 480-64676-B-1-A Lab Sample ID: 480-64676-1
Client ID: AS-WTPE-14-0044
Sample Type: Client
Inject. Date: 01-Aug-2014 09:34:45 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:12:42 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:50:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.000	209800	0.007344	
2	1.493	1.493	0.000	631662	0.0153	
					RPD = 70.06	
$ 12 DCB Decachlorobiphenyl						
1	6.428	6.427	0.001	210208	0.0106	
2	6.095	6.094	0.001	309937	0.0108	
					RPD = 1.70	

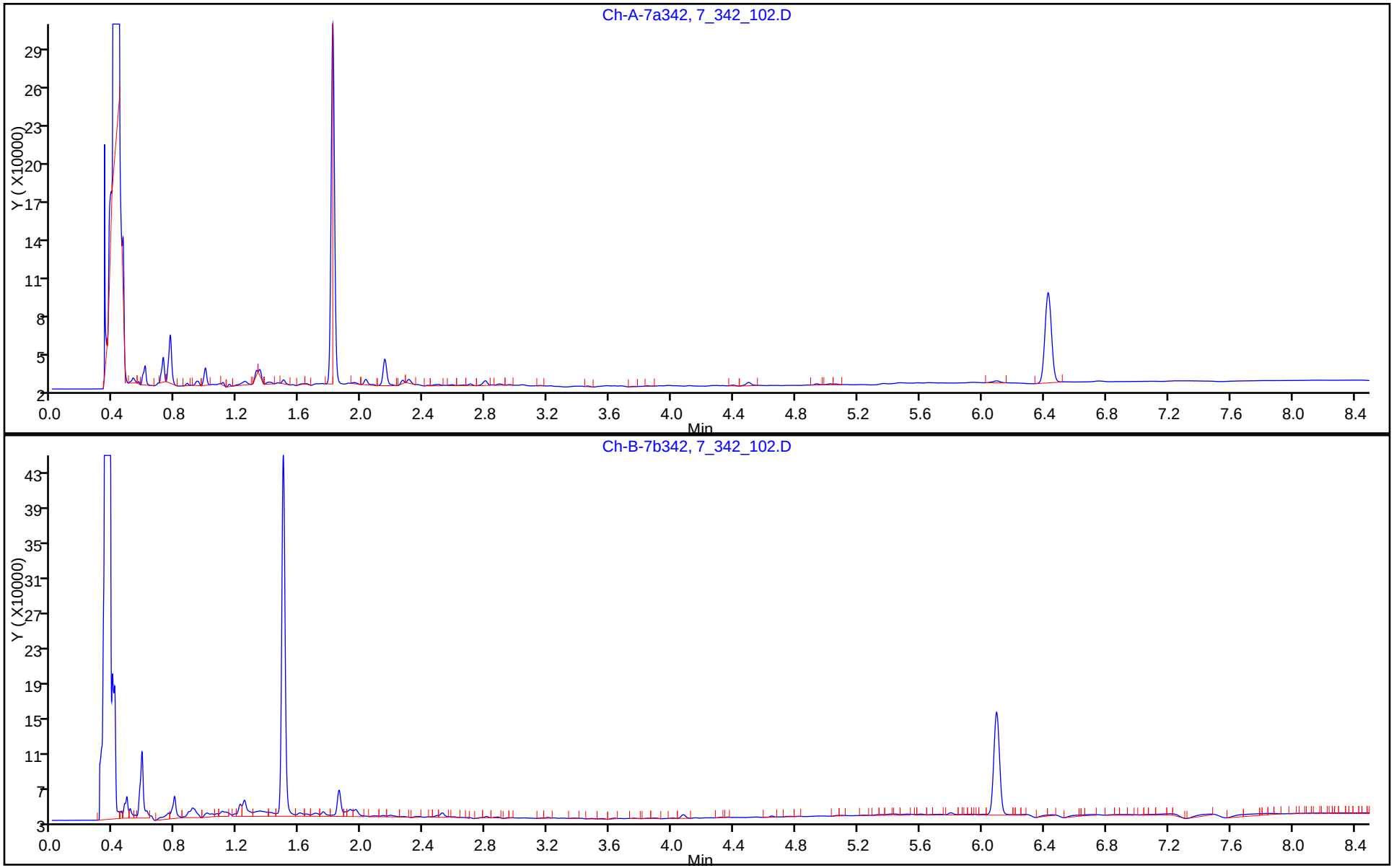
Reagents:

COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:30:00 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_102.D				
Injection Date:	01-Aug-2014 09:34:45	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-1-A	Lab Sample ID:	480-64676-1	Worklist Smp#:	9
Client ID:	AS-WTPE-14-0044				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0044 Lab Sample ID: 480-64676-1

Matrix: Water Lab File ID: 7_342_102.D

Analysis Method: 8082A Date Collected: 07/30/2014 14:00

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 990.8(mL) Date Analyzed: 08/01/2014 09:34

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	54		10-158
877-09-8	Tetrachloro-m-xylene	76		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_102.D
Lims ID: 480-64676-B-1-A Lab Sample ID: 480-64676-1
Client ID: AS-WTPE-14-0044
Sample Type: Client
Inject. Date: 01-Aug-2014 09:34:45 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:12:42 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:50:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.000	209800	0.007344	
2	1.493	1.493	0.000	631662	0.0153	
					RPD = 70.06	
$ 12 DCB Decachlorobiphenyl						
1	6.428	6.427	0.001	210208	0.0106	
2	6.095	6.094	0.001	309937	0.0108	
					RPD = 1.70	

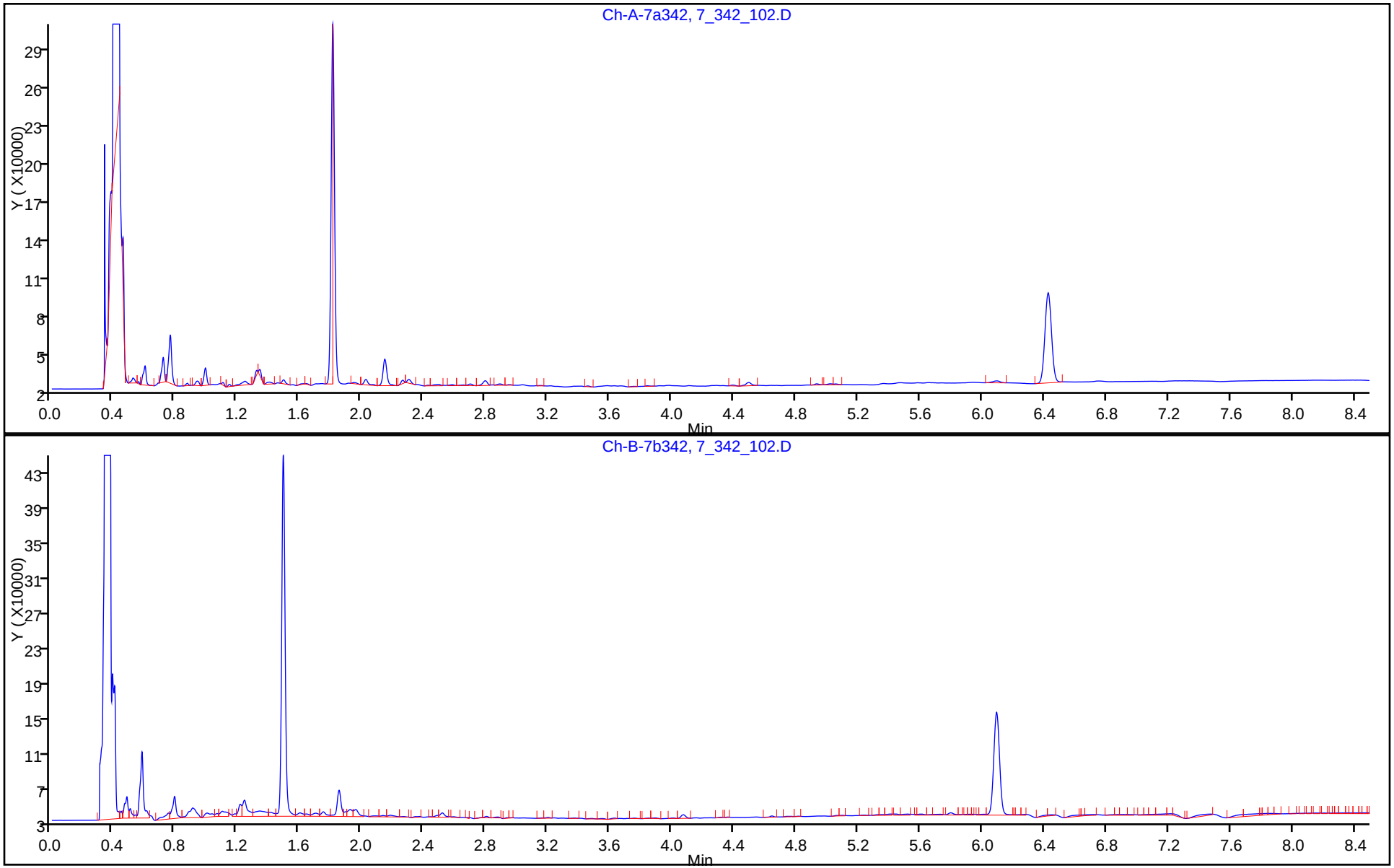
Reagents:

COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:30:01 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_102.D				
Injection Date:	01-Aug-2014 09:34:45	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-1-A	Lab Sample ID:	480-64676-1	Worklist Smp#:	9
Client ID:	AS-WTPE-14-0044				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0045 | Lab Sample ID: 480-64676-2

Matrix: Water | Lab File ID: 7_342_103.D

Analysis Method: 8082A | Date Collected: 07/30/2014 17:30

Extraction Method: 3510C | Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1027.7(mL) | Date Analyzed: 08/01/2014 09:50

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.058	0.037
11104-28-2	PCB-1221	ND		0.058	0.037
11141-16-5	PCB-1232	ND		0.058	0.037
53469-21-9	PCB-1242	ND		0.058	0.037
12672-29-6	PCB-1248	ND		0.058	0.037
11097-69-1	PCB-1254	ND		0.058	0.030
11096-82-5	PCB-1260	ND		0.058	0.030
37324-23-5	PCB-1262	ND		0.058	0.030
11100-14-4	PCB-1268	ND		0.058	0.030
1336-36-3	Polychlorinated biphenyls, Total	ND		0.058	0.037

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	74		10-158
877-09-8	Tetrachloro-m-xylene	85		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_103.D
Lims ID: 480-64676-B-2-A Lab Sample ID: 480-64676-2
Client ID: AS-WTPE-14-0045
Sample Type: Client
Inject. Date: 01-Aug-2014 09:50:35 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:12:42 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 10:12:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.001	487480	0.0171	
2	1.493	1.493	0.000	711489	0.0172	
					RPD = 0.74	
$ 12 DCB Decachlorobiphenyl						
1	6.427	6.427	0.000	292194	0.0147	
2	6.095	6.094	0.001	448141	0.0156	
					RPD = 5.64	

Reagents:

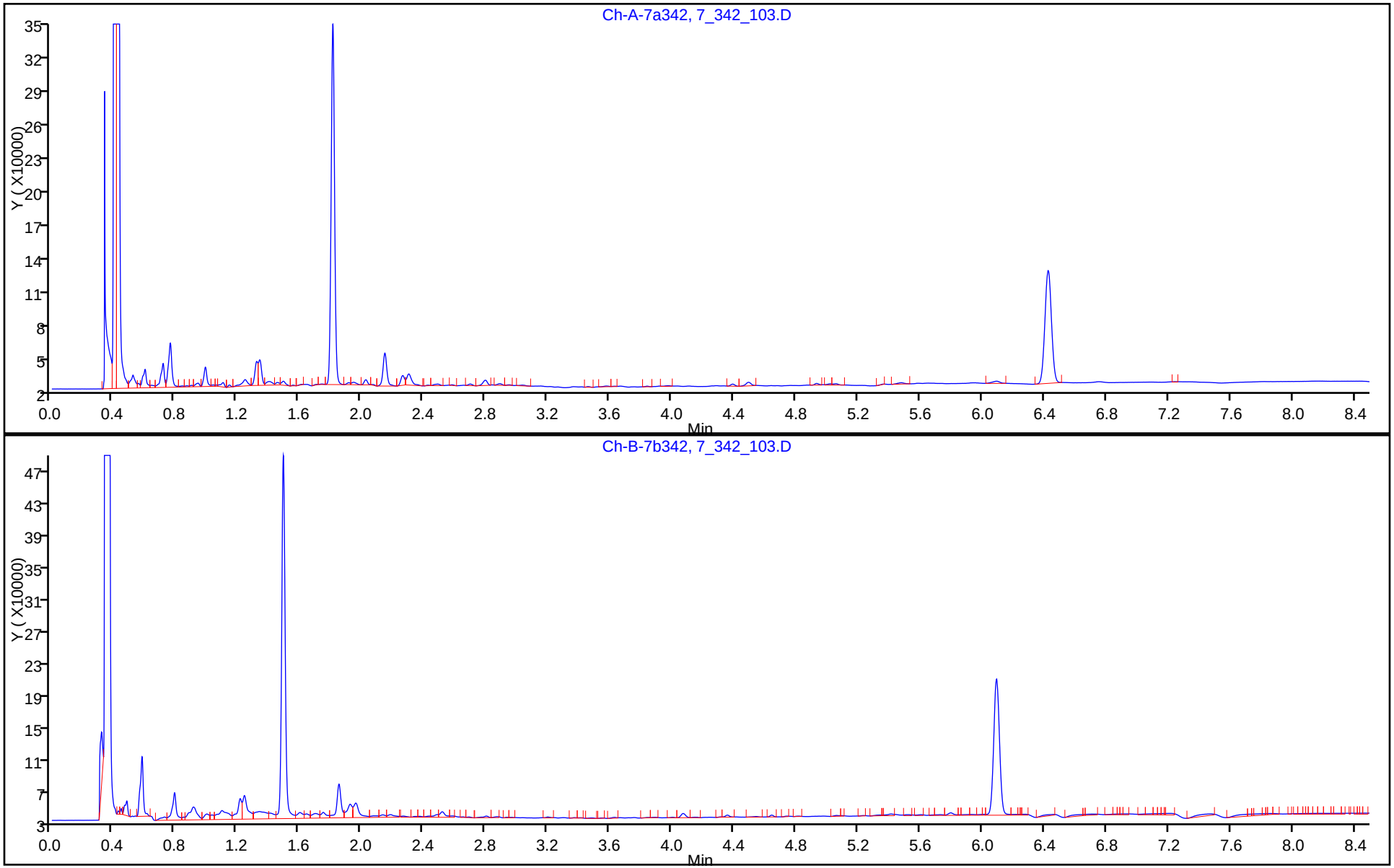
COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:12:42 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_103.D

Injection Date:	01-Aug-2014 09:50:35	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-2-A	Lab Sample ID:	480-64676-2	Worklist Smp#:	10
Client ID:	AS-WTPE-14-0045				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0045 Lab Sample ID: 480-64676-2

Matrix: Water Lab File ID: 7_342_103.D

Analysis Method: 8082A Date Collected: 07/30/2014 17:30

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1027.7(mL) Date Analyzed: 08/01/2014 09:50

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	78		10-158
877-09-8	Tetrachloro-m-xylene	86		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_103.D
Lims ID: 480-64676-B-2-A Lab Sample ID: 480-64676-2
Client ID: AS-WTPE-14-0045
Sample Type: Client
Inject. Date: 01-Aug-2014 09:50:35 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:12:42 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 10:12:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.001	487480	0.0171	
2	1.493	1.493	0.000	711489	0.0172	
					RPD = 0.74	
$ 12 DCB Decachlorobiphenyl						
1	6.427	6.427	0.000	292194	0.0147	
2	6.095	6.094	0.001	448141	0.0156	
					RPD = 5.64	

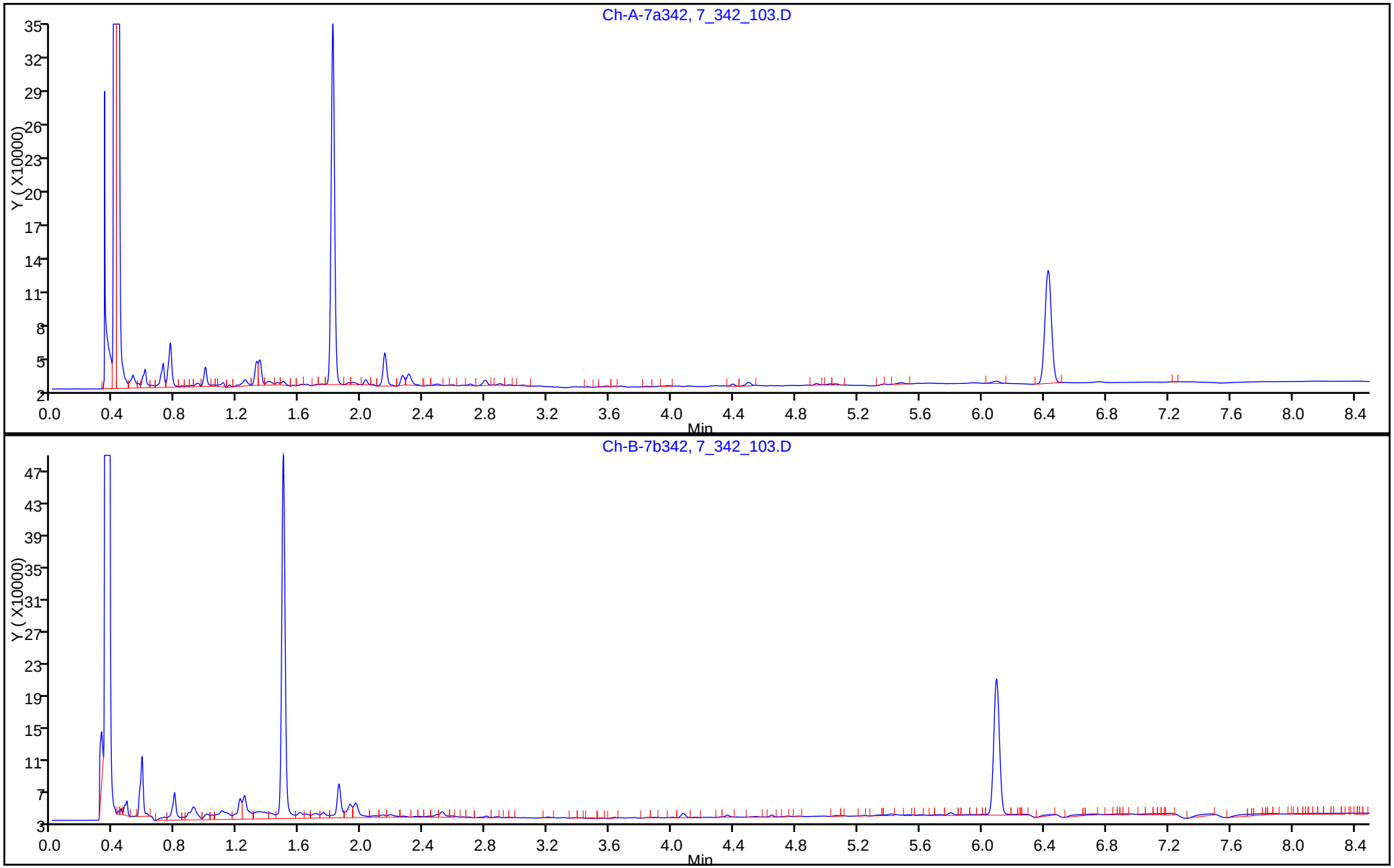
Reagents:

COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:12:42 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_103.D				
Injection Date:	01-Aug-2014 09:50:35	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-2-A	Lab Sample ID:	480-64676-2	Worklist Smp#:	10
Client ID:	AS-WTPE-14-0045				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0046 Lab Sample ID: 480-64676-3

Matrix: Water Lab File ID: 7_342_104.D

Analysis Method: 8082A Date Collected: 07/31/2014 08:00

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1020.8(mL) Date Analyzed: 08/01/2014 10:06

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.059	0.037
11104-28-2	PCB-1221	ND		0.059	0.037
11141-16-5	PCB-1232	ND		0.059	0.037
53469-21-9	PCB-1242	ND		0.059	0.037
12672-29-6	PCB-1248	ND		0.059	0.037
11097-69-1	PCB-1254	ND		0.059	0.030
11096-82-5	PCB-1260	ND		0.059	0.030
37324-23-5	PCB-1262	ND		0.059	0.030
11100-14-4	PCB-1268	ND		0.059	0.030
1336-36-3	Polychlorinated biphenyls, Total	ND		0.059	0.037

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	65		10-158
877-09-8	Tetrachloro-m-xylene	81		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_104.D
Lims ID: 480-64676-B-3-A Lab Sample ID: 480-64676-3
Client ID: AS-WTPE-14-0046
Sample Type: Client
Inject. Date: 01-Aug-2014 10:06:27 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:32:01 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 10:32:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.001	465231	0.0163	
2	1.494	1.493	0.001	660204	0.0160	
					RPD = 2.06	
$ 12 DCB Decachlorobiphenyl						
1	6.427	6.427	0.000	259431	0.0131	
2	6.093	6.094	-0.001	395269	0.0138	
					RPD = 4.98	

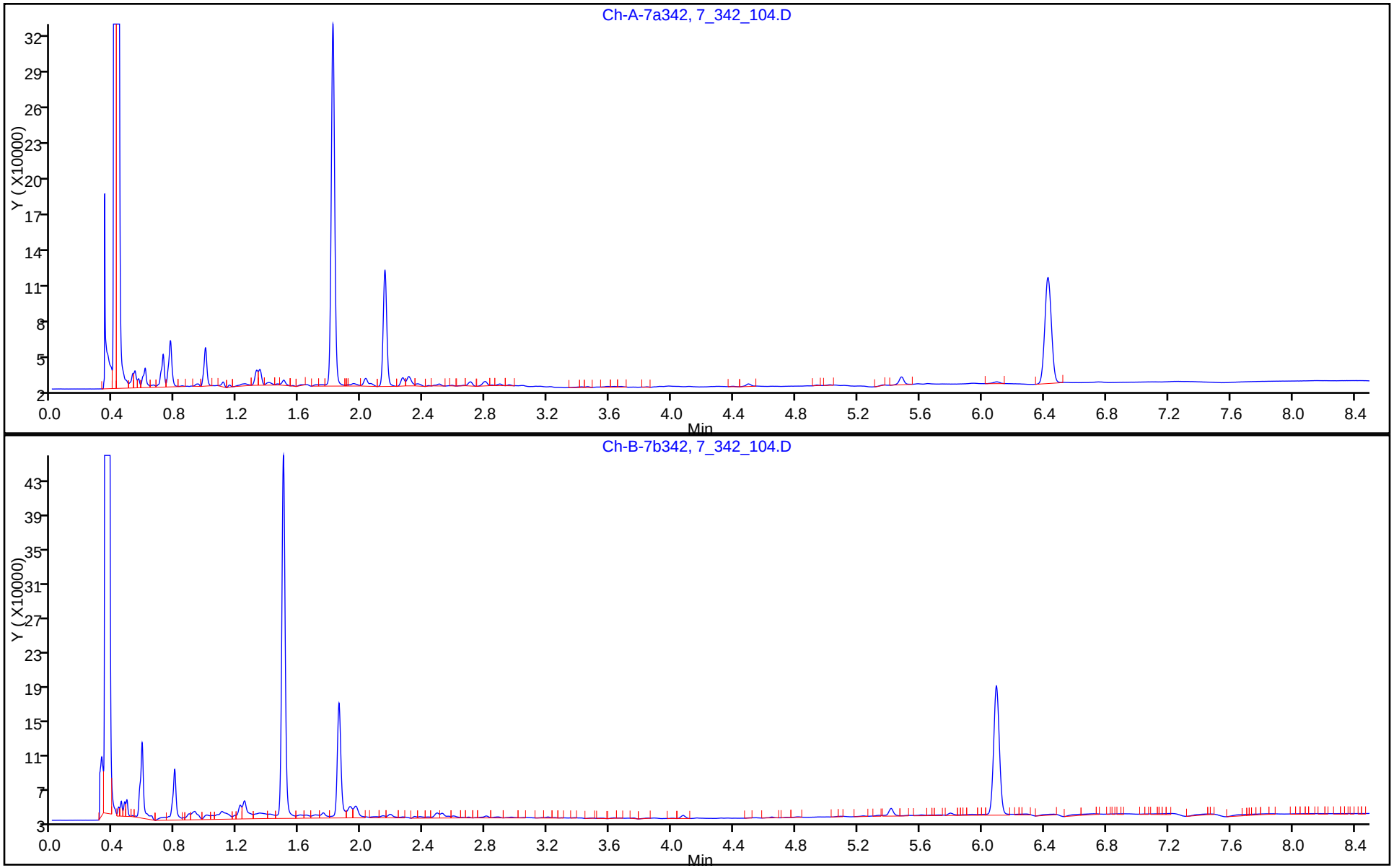
Reagents:

COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:32:01 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_104.D				
Injection Date:	01-Aug-2014 10:06:27	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-3-A	Lab Sample ID:	480-64676-3	Worklist Smp#:	11
Client ID:	AS-WTPE-14-0046				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0046 Lab Sample ID: 480-64676-3

Matrix: Water Lab File ID: 7_342_104.D

Analysis Method: 8082A Date Collected: 07/31/2014 08:00

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1020.8(mL) Date Analyzed: 08/01/2014 10:06

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	69		10-158
877-09-8	Tetrachloro-m-xylene	80		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_104.D
Lims ID: 480-64676-B-3-A Lab Sample ID: 480-64676-3
Client ID: AS-WTPE-14-0046
Sample Type: Client
Inject. Date: 01-Aug-2014 10:06:27 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:32:01 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 10:32:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.001	465231	0.0163	
2	1.494	1.493	0.001	660204	0.0160	
					RPD = 2.06	
$ 12 DCB Decachlorobiphenyl						
1	6.427	6.427	0.000	259431	0.0131	
2	6.093	6.094	-0.001	395269	0.0138	
					RPD = 4.98	

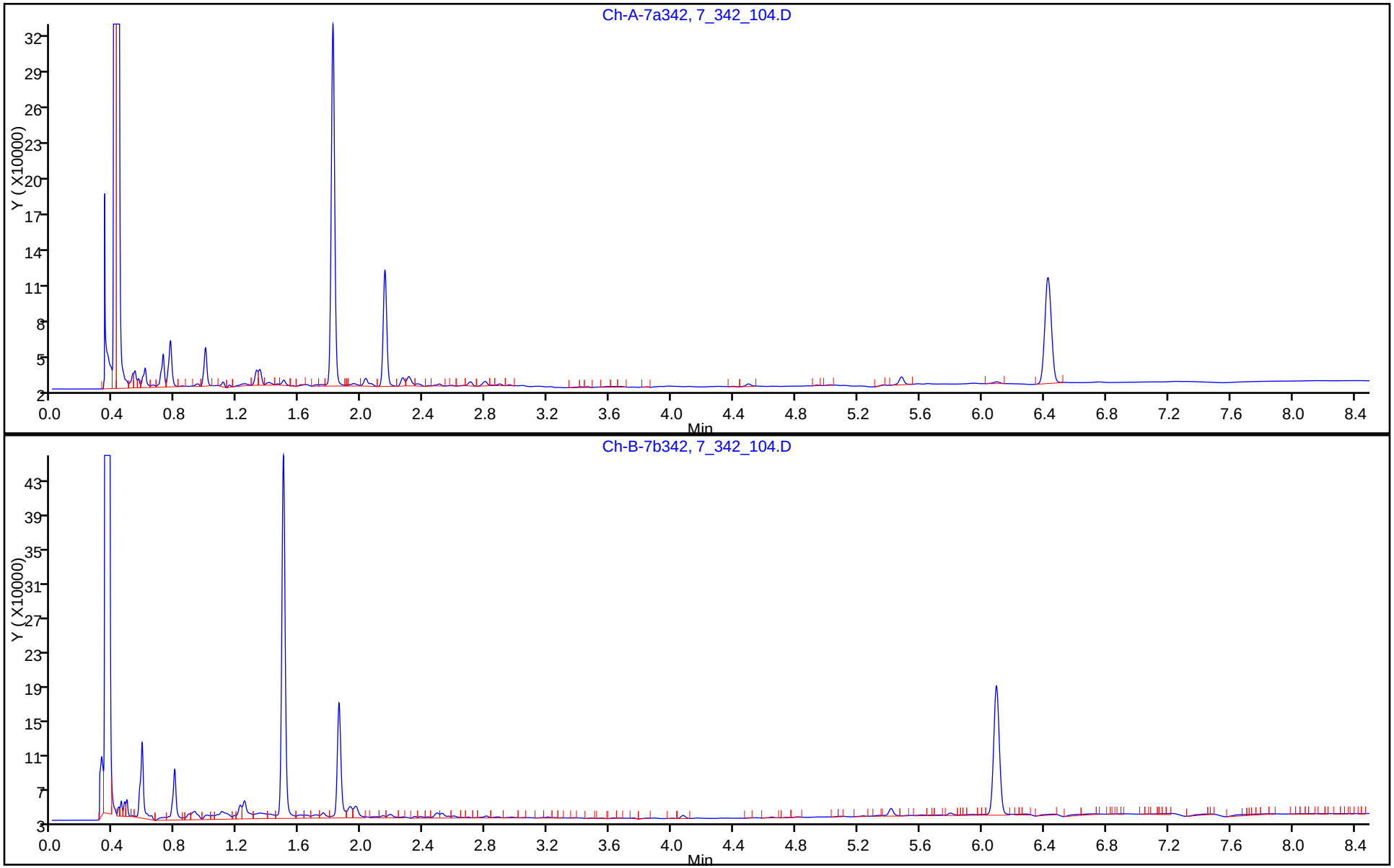
Reagents:

COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:32:01 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_104.D				
Injection Date:	01-Aug-2014 10:06:27	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-3-A	Lab Sample ID:	480-64676-3	Worklist Smp#:	11
Client ID:	AS-WTPE-14-0046				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0047 | Lab Sample ID: 480-64676-4

Matrix: Water | Lab File ID: 7_342_105.D

Analysis Method: 8082A | Date Collected: 07/31/2014 11:00

Extraction Method: 3510C | Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1027(mL) | Date Analyzed: 08/01/2014 10:22

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.058	0.037
11104-28-2	PCB-1221	ND		0.058	0.037
11141-16-5	PCB-1232	ND		0.058	0.037
53469-21-9	PCB-1242	ND		0.058	0.037
12672-29-6	PCB-1248	ND		0.058	0.037
11097-69-1	PCB-1254	ND		0.058	0.030
11096-82-5	PCB-1260	ND		0.058	0.030
37324-23-5	PCB-1262	ND		0.058	0.030
11100-14-4	PCB-1268	ND		0.058	0.030
1336-36-3	Polychlorinated biphenyls, Total	ND		0.058	0.037

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	61		10-158
877-09-8	Tetrachloro-m-xylene	80		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_105.D
Lims ID: 480-64676-B-4-A Lab Sample ID: 480-64676-4
Client ID: AS-WTPE-14-0047
Sample Type: Client
Inject. Date: 01-Aug-2014 10:22:19 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:33:20 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 10:33:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.001	455838	0.0160	
2	1.494	1.493	0.001	616756	0.0149	
					RPD = 6.83	
$ 12 DCB Decachlorobiphenyl						
1	6.426	6.427	-0.001	243333	0.0123	
2	6.094	6.094	0.000	371845	0.0129	
					RPD = 5.28	

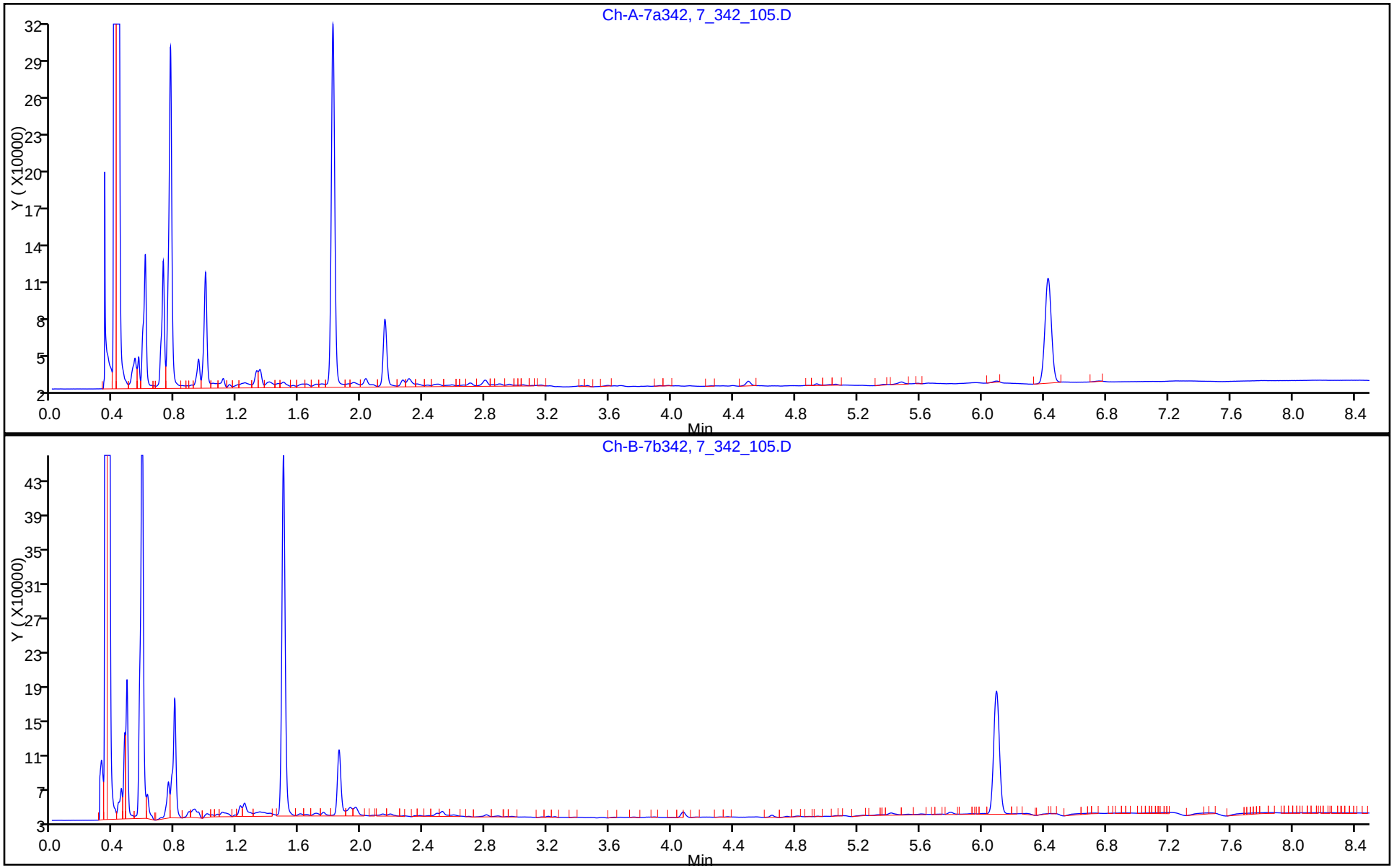
Reagents:

COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:33:20 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_105.D				
Injection Date:	01-Aug-2014 10:22:19	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-4-A	Lab Sample ID:	480-64676-4	Worklist Smp#:	12
Client ID:	AS-WTPE-14-0047				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: AS-WTPE-14-0047 Lab Sample ID: 480-64676-4

Matrix: Water Lab File ID: 7_342_105.D

Analysis Method: 8082A Date Collected: 07/31/2014 11:00

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1027(mL) Date Analyzed: 08/01/2014 10:22

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	65		10-158
877-09-8	Tetrachloro-m-xylene	75		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_105.D
Lims ID: 480-64676-B-4-A Lab Sample ID: 480-64676-4
Client ID: AS-WTPE-14-0047
Sample Type: Client
Inject. Date: 01-Aug-2014 10:22:19 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 10:33:20 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 10:33:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.813	1.813	0.001	455838	0.0160	
2	1.494	1.493	0.001	616756	0.0149	
					RPD = 6.83	
$ 12 DCB Decachlorobiphenyl						
1	6.426	6.427	-0.001	243333	0.0123	
2	6.094	6.094	0.000	371845	0.0129	
					RPD = 5.28	

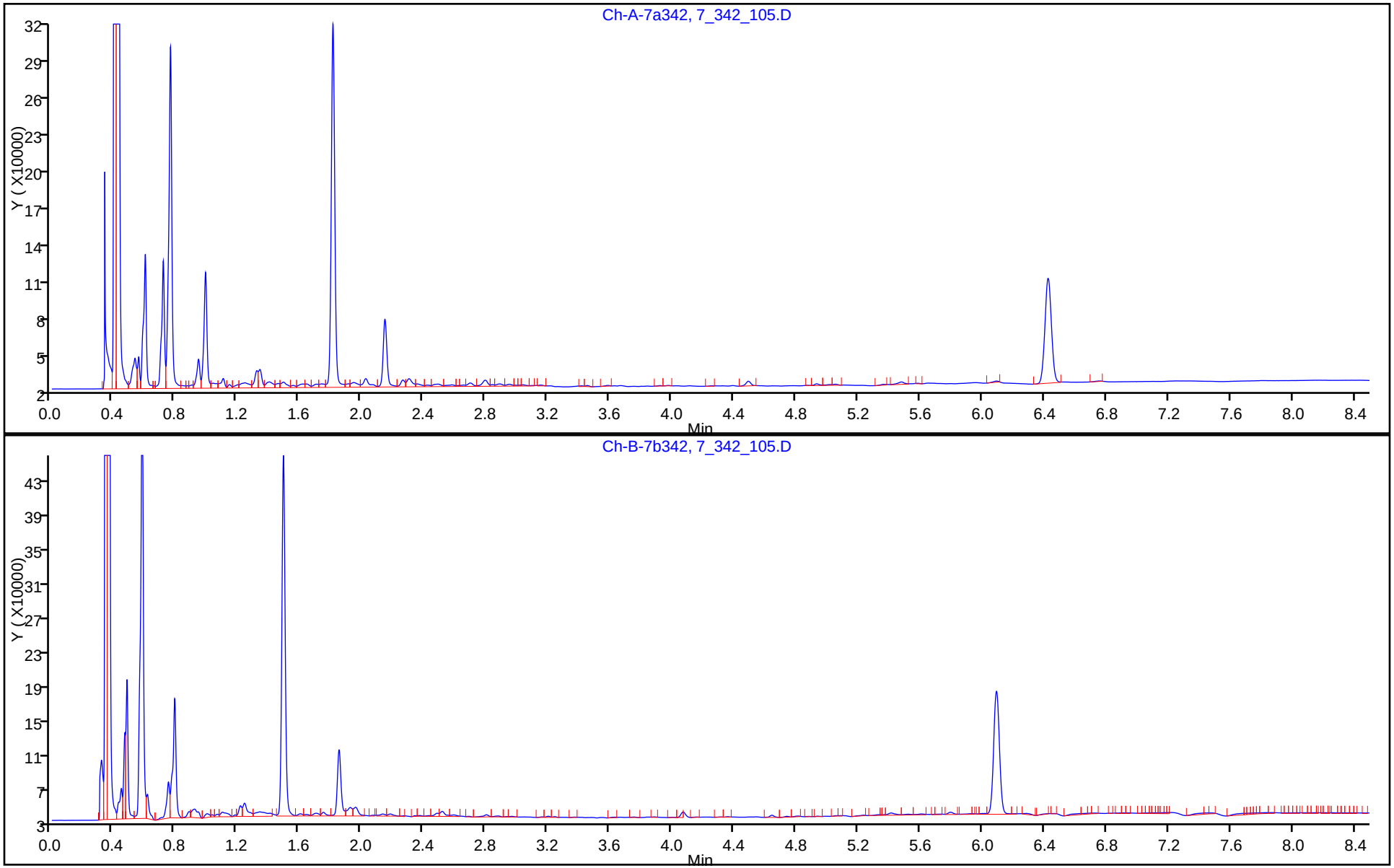
Reagents:

COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 10:33:21 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_105.D				
Injection Date:	01-Aug-2014 10:22:19	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	480-64676-B-4-A	Lab Sample ID:	480-64676-4	Worklist Smp#:	12
Client ID:	AS-WTPE-14-0047				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:21 Calibration End Date: 07/09/2014 13:56 Calibration ID: 19290

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-191849/7	7_338_216.D
Level 2	STD2 480-191849/6	7_338_215.D
Level 3	STD3 480-191849/5	7_338_214.D
Level 4	STD4 480-191849/4	7_338_213.D
Level 5	STD5 480-191849/3	7_338_212.D
Level 6	STD6 480-191849/2	7_338_211.D
Level 7	STD7 480-191849/1	7_338_210.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.698	2.698	2.698	2.698	2.698	2.698	2.698				2.668 - 2.728	2.698
PCB-1016 Peak 2	2.780	2.780	2.780	2.780	2.780	2.779	2.780				2.750 - 2.810	2.780
PCB-1016 Peak 3	2.838	2.838	2.839	2.839	2.839	2.839	2.840				2.808 - 2.868	2.839
PCB-1016 Peak 4	2.957	2.957	2.956	2.957	2.958	2.957	2.957				2.927 - 2.987	2.957
PCB-1260 Peak 1	4.641	4.641	4.642	4.641	4.642	4.641	4.642				4.611 - 4.671	4.641
PCB-1260 Peak 2	4.827	4.828	4.828	4.828	4.828	4.827	4.828				4.797 - 4.857	4.828
PCB-1260 Peak 3	5.030	5.029	5.029	5.029	5.029	5.029	5.030				5.000 - 5.060	5.029
PCB-1260 Peak 4	5.263	5.264	5.263	5.265	5.265	5.264	5.265				5.233 - 5.293	5.264
Tetrachloro-m-xylene	1.809	1.808	1.809	1.809	1.810	1.809	1.810				1.779 - 1.839	1.809
DCB Decachlorobiphenyl	6.441	6.444	6.443	6.443	6.443	6.443	6.443				6.381 - 6.501	6.443

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:21 Calibration End Date: 07/09/2014 13:56 Calibration ID: 19290

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-191849/7	7_338_216.D
Level 2	STD2 480-191849/6	7_338_215.D
Level 3	STD3 480-191849/5	7_338_214.D
Level 4	STD4 480-191849/4	7_338_213.D
Level 5	STD5 480-191849/3	7_338_212.D
Level 6	STD6 480-191849/2	7_338_211.D
Level 7	STD7 480-191849/1	7_338_210.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	2171600 1919600	2050480 1871496	1989320 1872837	1970275	Ave		1977943.93				5.4		20.0			
PCB-1016 Peak 2	864850 724688	807520 703831	770670 702296	752425	Ave		760897.071				7.8		20.0			
PCB-1016 Peak 3	553050 492318	533820 483995	512100 492231	504840	Ave		510336.214				4.9		20.0			
PCB-1016 Peak 4	534950 428756	512920 415463	478460 414240	456890	Ave		463096.929				10.0		20.0			
PCB-1260 Peak 1	895500 782176	859120 768482	837940 796870	809805	Ave		821413.357				5.5		20.0			
PCB-1260 Peak 2	844150 755622	825400 754129	804170 782371	783165	Ave		792715.286				4.3		20.0			
PCB-1260 Peak 3	2057050 1899080	2022740 1902577	1950930 1973456	1917075	Ave		1960415.43				3.1		20.0			
PCB-1260 Peak 4	1157400 1001996	1092300 995123	1049640 1020216	1024000	Ave		1048667.93				5.5		20.0			
Tetrachloro-m-xylene	32274000 27384960	29889600 26786160	28549600 26997960	28098200	Ave		28568640.0				6.8		20.0			
DCB Decachlorobiphenyl	23466000 18229280	21562400 17580920	20540800 17778380	19542000	Ave		19814254.3				11.0		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:21 Calibration End Date: 07/09/2014 13:56 Calibration ID: 19290

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-191849/7	7_338_216.D
Level 2	STD2 480-191849/6	7_338_215.D
Level 3	STD3 480-191849/5	7_338_214.D
Level 4	STD4 480-191849/4	7_338_213.D
Level 5	STD5 480-191849/3	7_338_212.D
Level 6	STD6 480-191849/2	7_338_211.D
Level 7	STD7 480-191849/1	7_338_210.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	43432 1871496	102524 3745673	198932	394055	959800	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	17297 703831	40376 1404591	77067	150485	362344	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	11061 483995	26691 984461	51210	100968	246159	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	10699 415463	25646 828479	47846	91378	214378	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	17910 768482	42956 1593741	83794	161961	391088	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	16883 754129	41270 1564742	80417	156633	377811	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	41141 1902577	101137 3946912	195093	383415	949540	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	23148 995123	54615 2040433	104964	204800	500998	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	16137 669654	37362 1349898	71374	140491	342312	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	11733 439523	26953 888919	51352	97710	227866	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_210.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-Jul-2014 12:21:04 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:12 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 12:44:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							M
1	1.810	1.809	0.001	1349898	0.0500	0.0473	M
2	1.486	1.484	0.002	1861205	0.0500	0.0450	
						RPD = 4.95	
6 PCB-1016							
1	2.698	2.698	0.000	3745673	2.00	1.89	
1	2.780	2.780	0.000	1404591	2.00	1.85	
1	2.840	2.838	0.002	984461	2.00	1.93	
1	2.957	2.957	0.000	828479	2.00	1.79	
		Average of Peak Amounts =				1.86	
2	2.175	2.173	0.002	2386619	2.00	1.76	
2	2.477	2.476	0.001	5526648	2.00	1.95	
2	2.591	2.590	0.001	2068336	2.00	1.92	
2	2.683	2.681	0.001	1221944	2.00	2.01	
		Average of Peak Amounts =				1.91	
						RPD = 2.51	
9 PCB-1260							
1	4.642	4.641	0.001	1593741	2.00	1.94	
1	4.828	4.827	0.001	1564742	2.00	1.97	
1	5.030	5.030	0.000	3946912	2.00	2.01	
1	5.265	5.263	0.002	2040433	2.00	1.95	
		Average of Peak Amounts =				1.97	
2	4.631	4.629	0.002	2762638	2.00	1.96	
2	4.699	4.698	0.001	2168485	2.00	1.94	
2	4.768	4.768	0.000	6551224	2.00	2.04	
2	5.101	5.100	0.001	3866839	2.00	2.02	
		Average of Peak Amounts =				1.99	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.001	888919	0.0500	0.0449	
2	6.100	6.100	0.000	1325120	0.0500	0.0461	
						RPD = 2.80	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

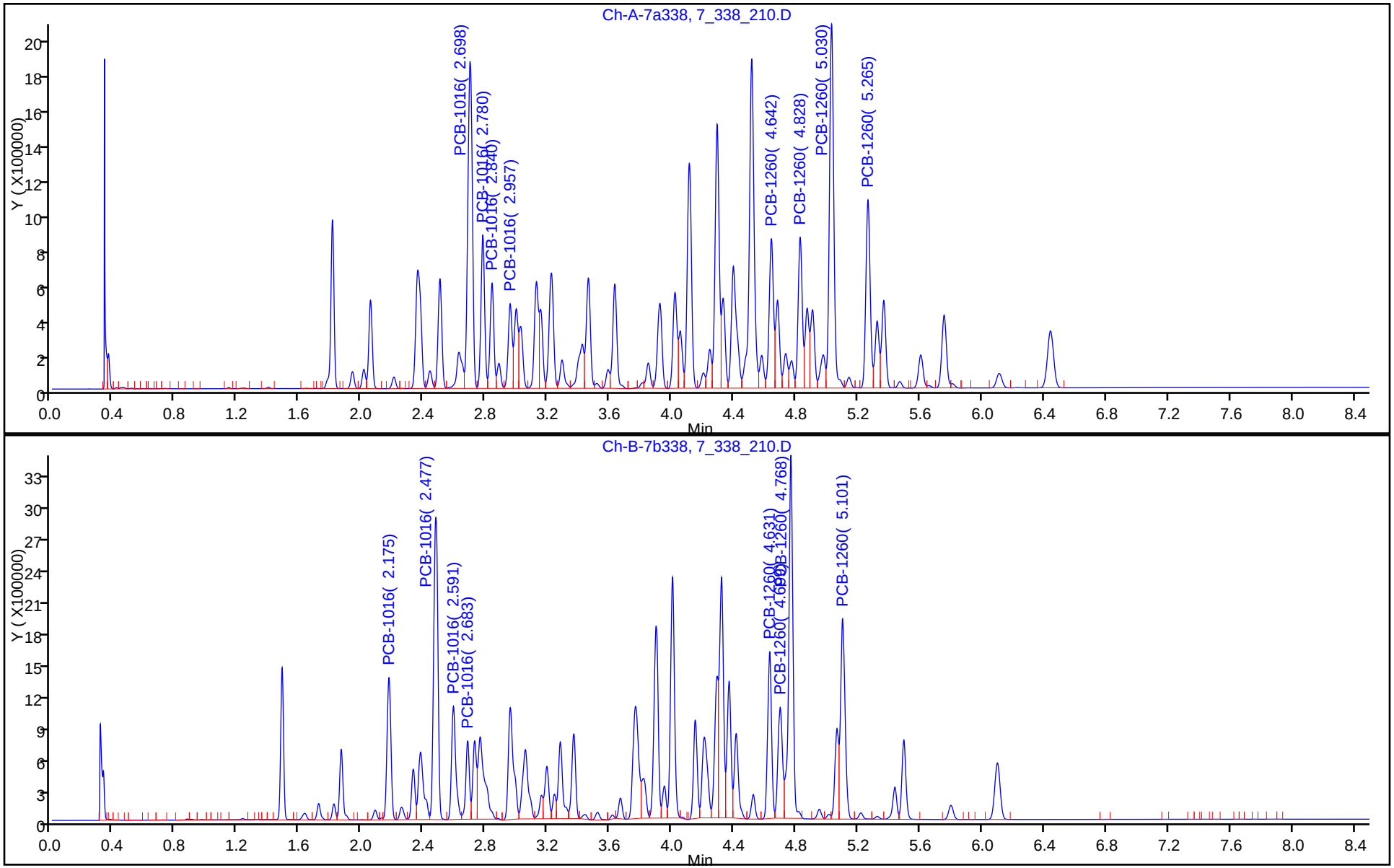
AR1660 2.0 ng_00017 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:14 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_210.D

Injection Date:	09-Jul-2014 12:21:04	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD7			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



Manual Integration/User Assign Peak Report

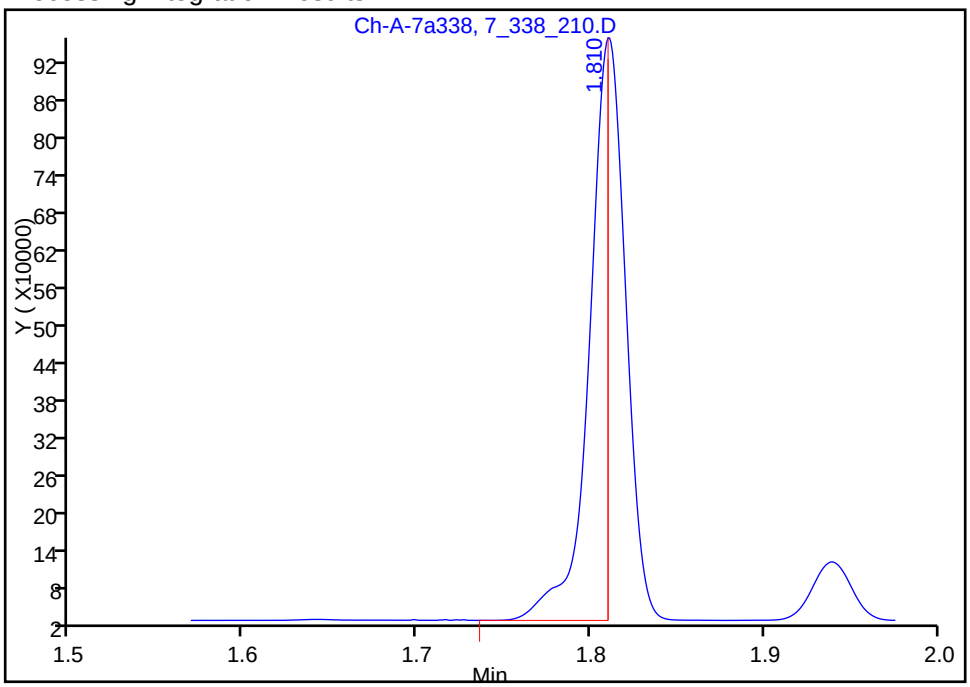
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_210.D
Injection Date: 09-Jul-2014 12:21:04 Instrument ID: HP6890-7
Lims ID: STD7
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

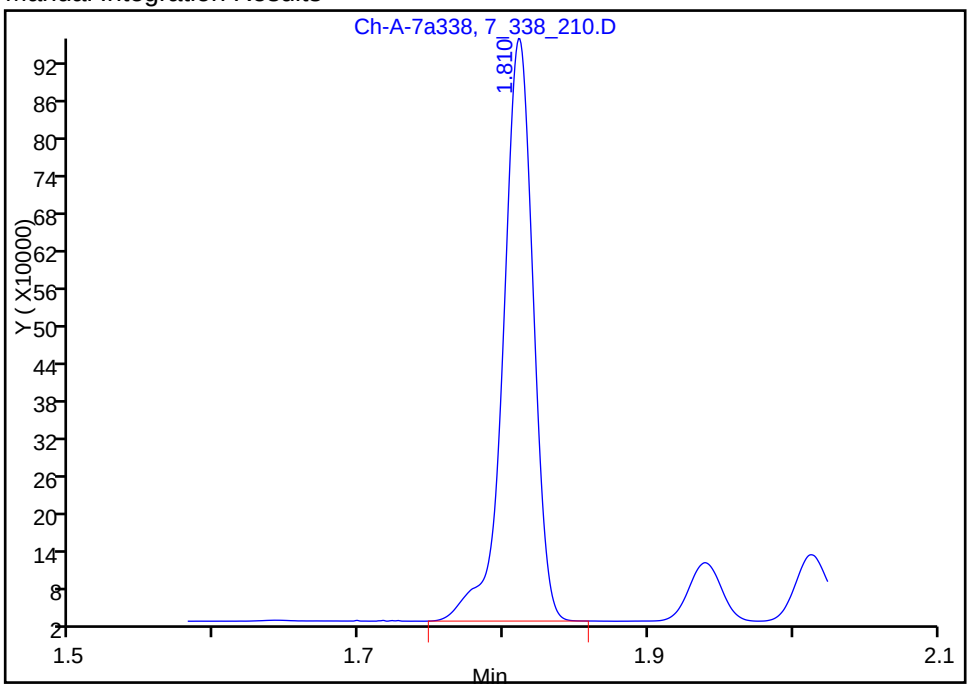
Processing Integration Results

RT: 1.81
Response: 688956
Amount: 0.050000



Manual Integration Results

RT: 1.81
Response: 1349898
Amount: 0.047251



Reviewer: eversd, 09-Jul-2014 12:44:53
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_211.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-Jul-2014 12:36:54 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:16 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:03:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	669654	0.0250	0.0234	
2	1.484	1.484	0.000	915327	0.0250	0.0221	
						RPD = 5.81	
6 PCB-1016							
1	2.698	2.698	0.000	1871496	1.00	0.9462	
1	2.779	2.780	-0.001	703831	1.00	0.9250	
1	2.839	2.838	0.001	483995	1.00	0.9484	
1	2.957	2.957	0.000	415463	1.00	0.8971	
		Average of Peak Amounts =				0.9292	
2	2.174	2.173	0.001	1221059	1.00	0.9016	
2	2.477	2.476	0.001	2734495	1.00	0.9641	
2	2.590	2.590	0.000	1016152	1.00	0.9442	
2	2.682	2.681	0.001	582464	1.00	0.9602	
		Average of Peak Amounts =				0.9425	
						RPD = 1.43	
9 PCB-1260							
1	4.641	4.641	0.000	768482	1.00	0.9356	
1	4.827	4.827	0.000	754129	1.00	0.9513	
1	5.029	5.030	-0.001	1902577	1.00	0.9705	
1	5.264	5.263	0.001	995123	1.00	0.9489	
		Average of Peak Amounts =				0.9516	
2	4.630	4.629	0.001	1339645	1.00	0.9483	
2	4.696	4.698	-0.002	1068007	1.00	0.9560	
2	4.768	4.768	0.000	3120507	1.00	0.9714	
2	5.103	5.100	0.002	1856477	1.00	0.9675	
		Average of Peak Amounts =				0.9608	
						RPD = 0.97	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.002	439523	0.0250	0.0222	
2	6.100	6.100	0.000	650957	0.0250	0.0227	
						RPD = 2.15	

Reagents:

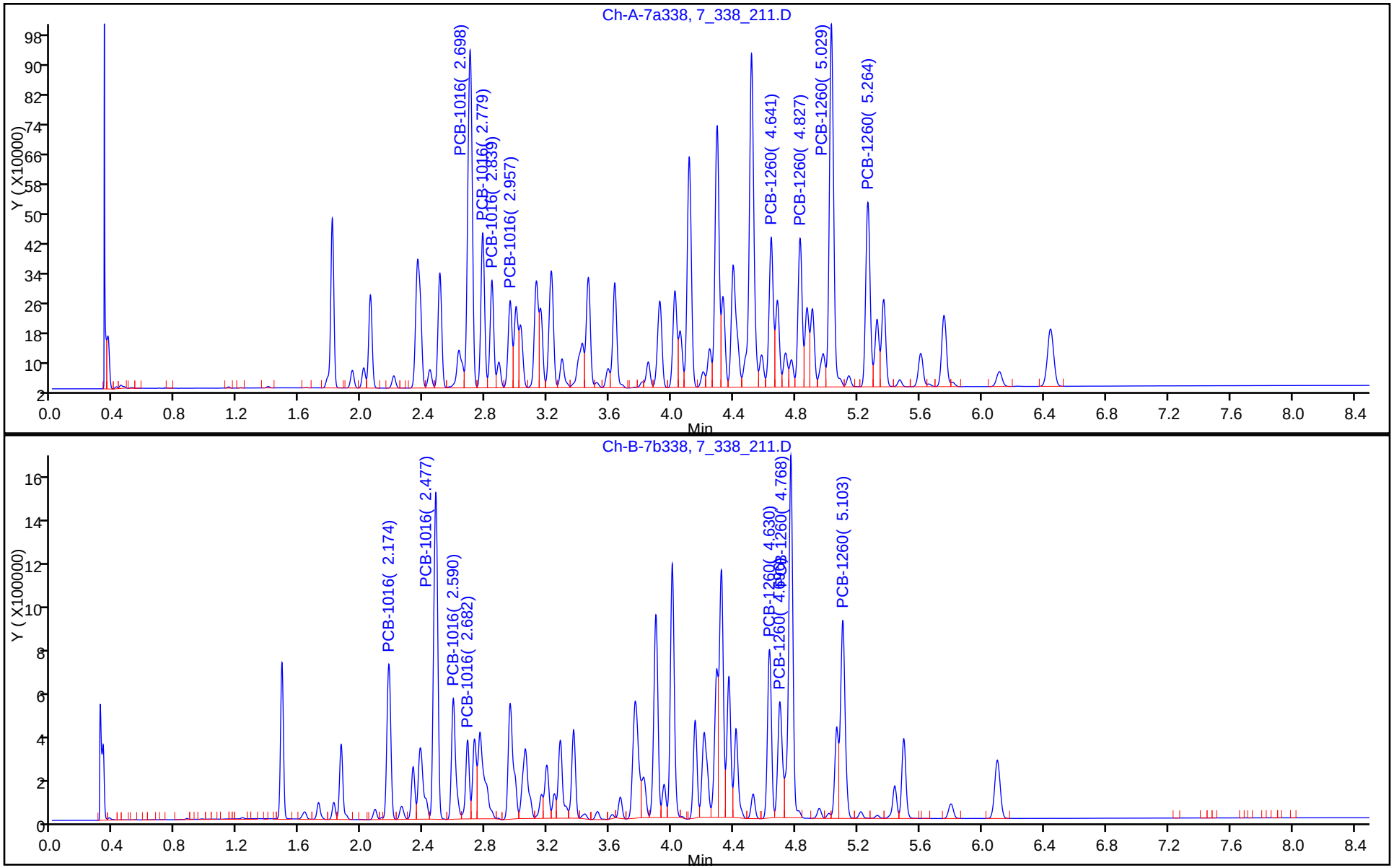
AR1660 2.0 ng_00017 Amount Added: 0.50 Units: mL

Report Date: 10-Jul-2014 07:29:17 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_211.D

Injection Date:	09-Jul-2014 12:36:54	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD6			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_212.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Jul-2014 12:52:45 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:19 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:04:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.810	1.809	0.001	342312	0.0125	0.0120	
2	1.485	1.484	0.001	463511	0.0125	0.0112	
						RPD = 6.75	
6 PCB-1016							
1	2.698	2.698	0.000	959800	0.5000	0.4853	
1	2.780	2.780	0.000	362344	0.5000	0.4762	
1	2.839	2.838	0.001	246159	0.5000	0.4823	
1	2.958	2.957	0.001	214378	0.5000	0.4629	
		Average of Peak Amounts =				0.4767	
2	2.174	2.173	0.001	641787	0.5000	0.4739	
2	2.478	2.476	0.002	1394569	0.5000	0.4917	
2	2.590	2.590	0.000	516720	0.5000	0.4801	
2	2.683	2.681	0.001	293152	0.5000	0.4833	
		Average of Peak Amounts =				0.4822	
						RPD = 1.16	
9 PCB-1260							M
1	4.642	4.641	0.001	391088	0.5000	0.4761	
1	4.828	4.827	0.001	377811	0.5000	0.4766	
1	5.029	5.030	-0.001	949540	0.5000	0.4844	
1	5.265	5.263	0.002	500998	0.5000	0.4777	
		Average of Peak Amounts =				0.4787	
2	4.629	4.629	0.000	724062	0.5000	0.5126	M
2	4.697	4.698	-0.001	560496	0.5000	0.5017	M
2	4.768	4.768	0.000	1559161	0.5000	0.4854	M
2	5.101	5.100	0.001	932008	0.5000	0.4857	M
		Average of Peak Amounts =				0.4963	
						RPD = 3.62	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.001	227866	0.0125	0.0115	
2	6.099	6.100	-0.001	333951	0.0125	0.0116	
						RPD = 1.10	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

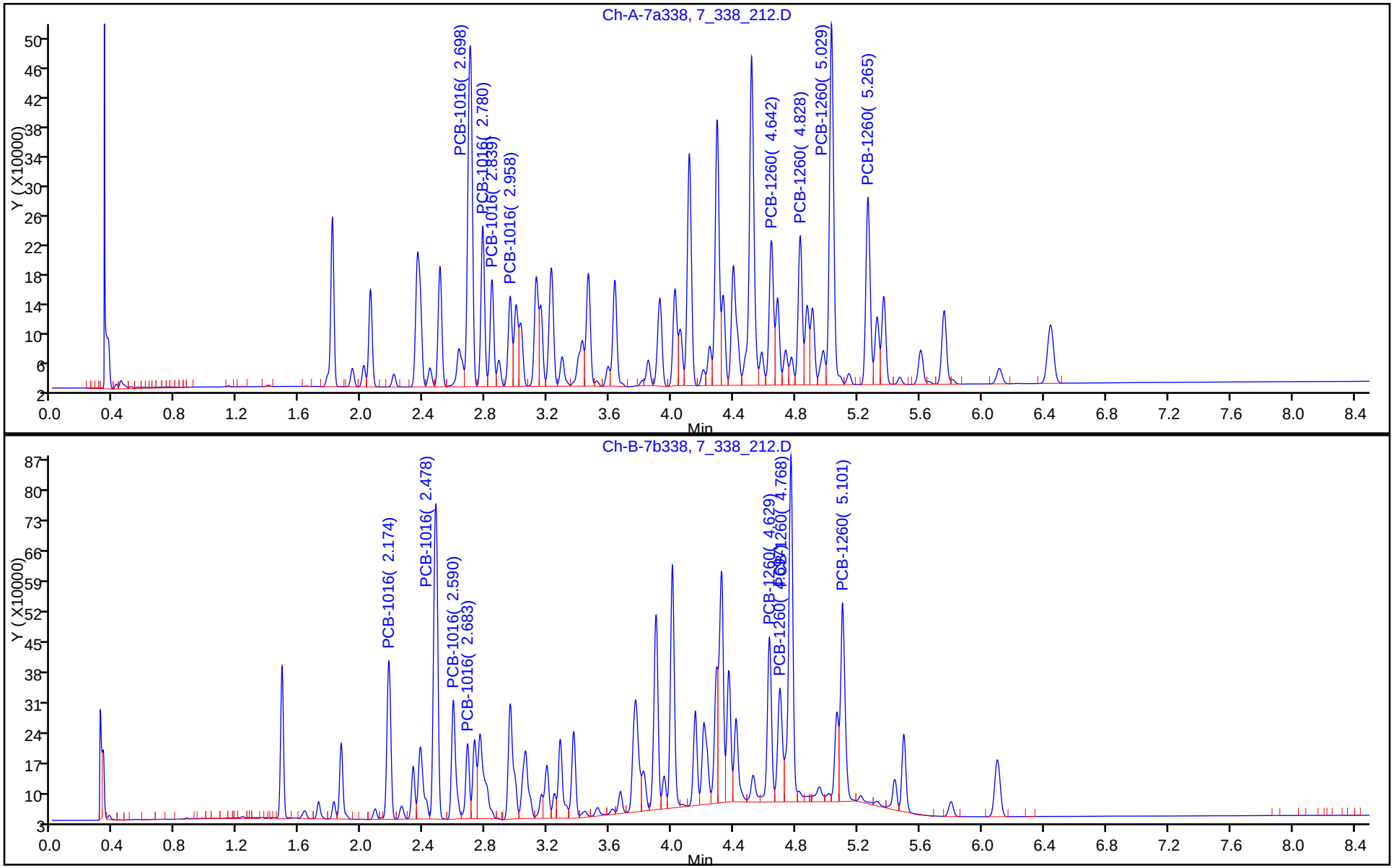
AR1660 2.0 ng_00017 Amount Added: 0.25 Units: mL

Report Date: 10-Jul-2014 07:29:20 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_212.D

Injection Date:	09-Jul-2014 12:52:45	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_213.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Jul-2014 13:08:35 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:21 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:20:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	140491	0.005000	0.004918	
2	1.484	1.484	0.000	195818	0.005000	0.004731	
						RPD = 3.86	
6 PCB-1016							M
1	2.698	2.698	0.000	394055	0.2000	0.1992	
1	2.780	2.780	0.000	150485	0.2000	0.1978	
1	2.839	2.838	0.001	100968	0.2000	0.1978	
1	2.957	2.957	0.000	91378	0.2000	0.1973	
		Average of Peak Amounts =				0.1980	
2	2.174	2.173	0.001	270450	0.2000	0.1997	
2	2.477	2.476	0.001	571569	0.2000	0.2015	M
2	2.590	2.590	0.000	217198	0.2000	0.2018	M
2	2.682	2.681	0.001	124730	0.2000	0.2056	M
		Average of Peak Amounts =				0.2022	
						RPD = 2.06	
9 PCB-1260							M
1	4.641	4.641	0.000	161961	0.2000	0.1972	
1	4.828	4.827	0.001	156633	0.2000	0.1976	
1	5.029	5.030	-0.001	383415	0.2000	0.1956	
1	5.265	5.263	0.002	204800	0.2000	0.1953	
		Average of Peak Amounts =				0.1964	
2	4.630	4.629	0.001	277411	0.2000	0.1964	M
2	4.698	4.698	0.000	222880	0.2000	0.1995	M
2	4.766	4.768	-0.002	642607	0.2000	0.2000	M
2	5.100	5.100	0.000	378282	0.2000	0.1971	
		Average of Peak Amounts =				0.1983	
						RPD = 0.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.002	97710	0.005000	0.004931	
2	6.101	6.100	0.001	141255	0.005000	0.004918	
						RPD = 0.27	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

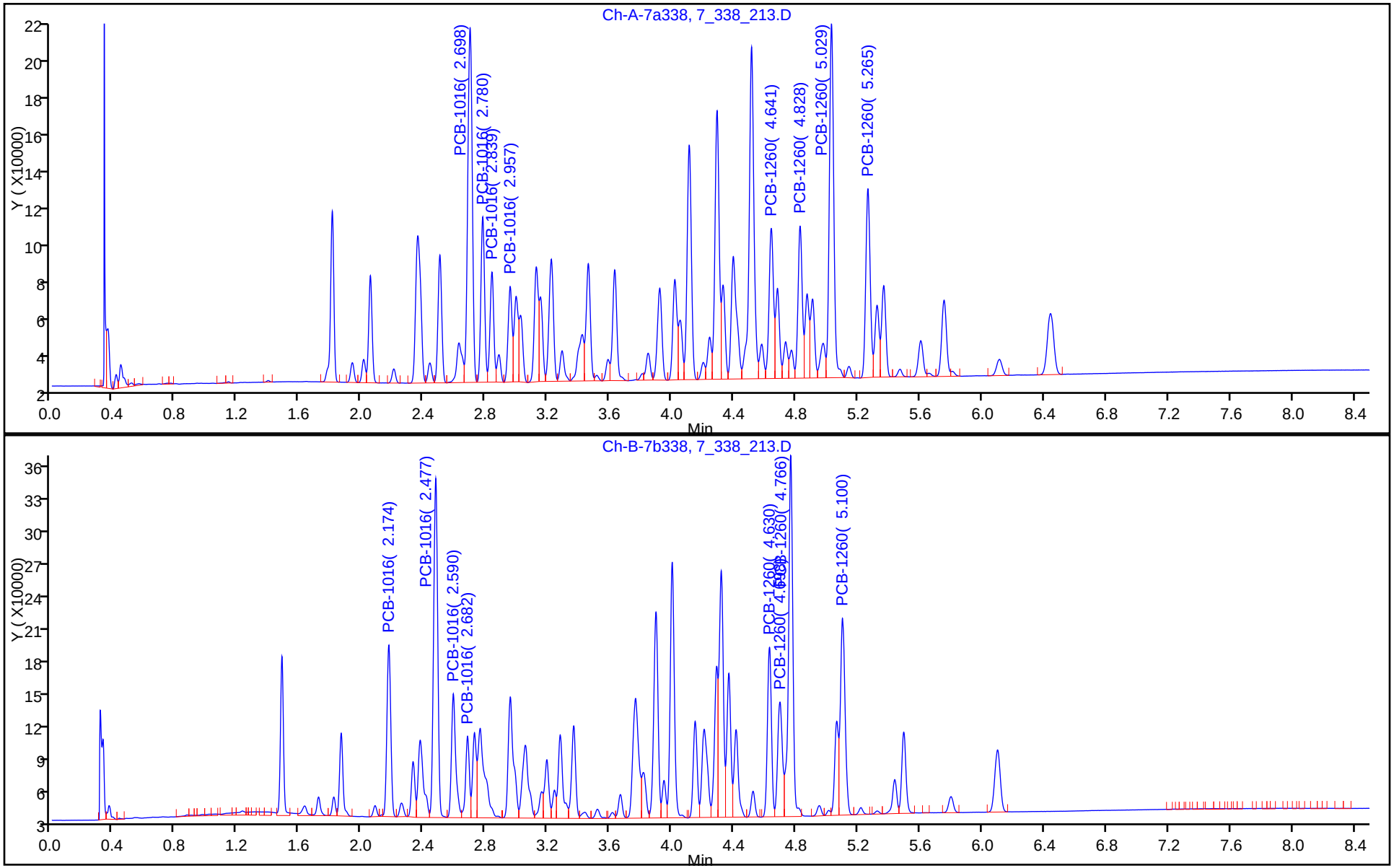
AR1660 2.0 ng_00017 Amount Added: 0.10 Units: mL

Report Date: 10-Jul-2014 07:29:23 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_213.D

Injection Date:	09-Jul-2014 13:08:35	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD4			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_214.D
Lims ID: STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Jul-2014 13:24:35 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:24 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:39:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	71374	0.002500	0.002498	
2	1.485	1.484	0.001	101689	0.002500	0.002457	
						RPD = 1.67	
6 PCB-1016							
1	2.698	2.698	0.000	198932	0.1000	0.1006	
1	2.780	2.780	0.000	77067	0.1000	0.1013	
1	2.839	2.838	0.001	51210	0.1000	0.1003	
1	2.956	2.957	-0.001	47846	0.1000	0.1033	
		Average of Peak Amounts =				0.1014	
2	2.174	2.173	0.001	140043	0.1000	0.1034	
2	2.476	2.476	0.000	284925	0.1000	0.1005	
2	2.590	2.590	0.000	108007	0.1000	0.1004	
2	2.683	2.681	0.001	62207	0.1000	0.1025	
		Average of Peak Amounts =				0.1017	
						RPD = 0.31	
9 PCB-1260							M
1	4.642	4.641	0.001	83794	0.1000	0.1020	
1	4.828	4.827	0.001	80417	0.1000	0.1014	
1	5.029	5.030	-0.001	195093	0.1000	0.0995	
1	5.263	5.263	0.000	104964	0.1000	0.1001	
		Average of Peak Amounts =				0.1008	
2	4.630	4.629	0.001	141161	0.1000	0.0999	M
2	4.698	4.698	0.000	113138	0.1000	0.1013	M
2	4.768	4.768	0.000	319950	0.1000	0.0996	M
2	5.102	5.100	0.002	190080	0.1000	0.0991	M
		Average of Peak Amounts =				0.1000	
						RPD = 0.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.001	51352	0.002500	0.002592	
2	6.099	6.100	-0.001	73545	0.002500	0.002561	
						RPD = 1.21	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

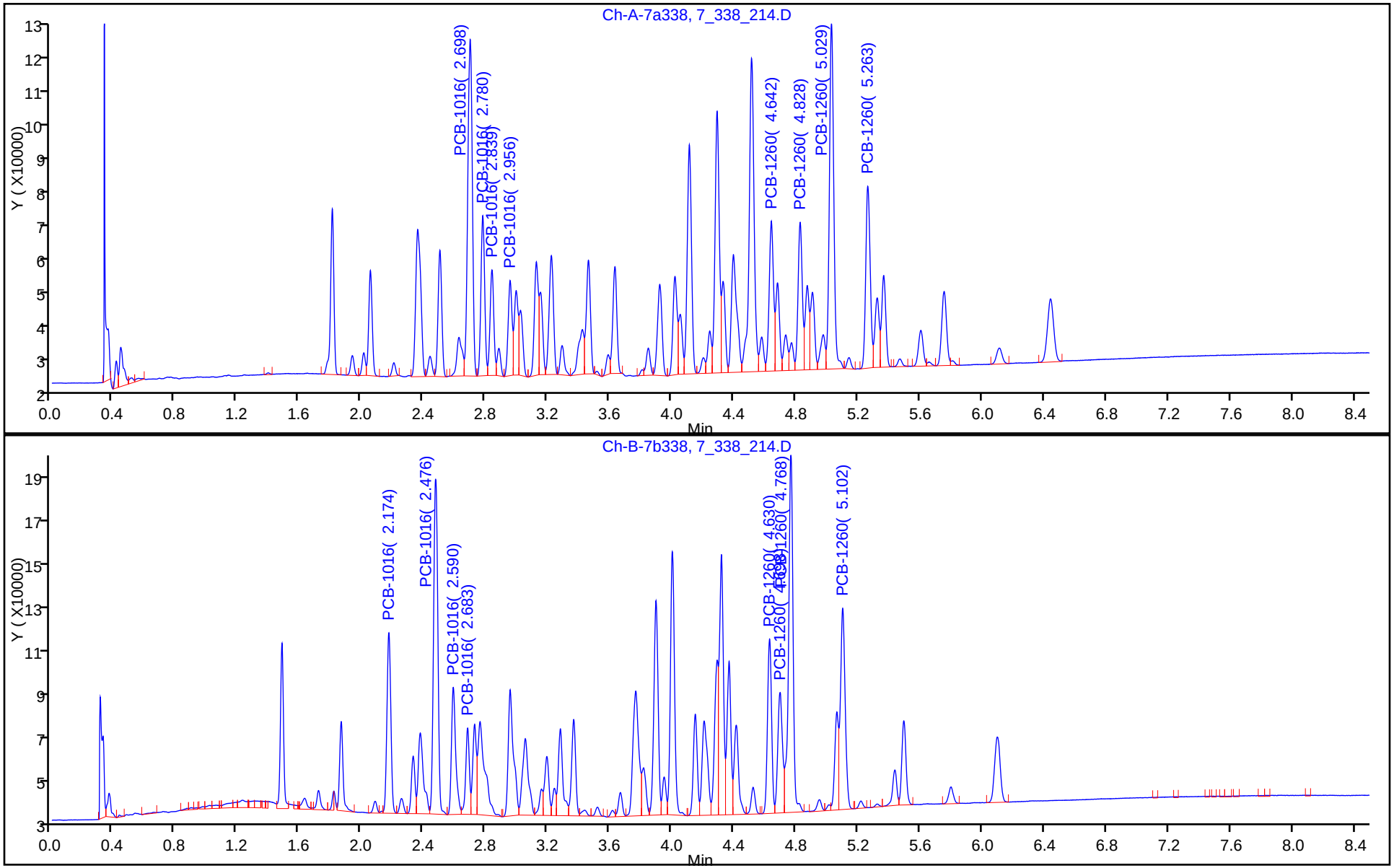
AR1660 2.0 ng_00017 Amount Added: 0.05 Units: mL

Report Date: 10-Jul-2014 07:29:25 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_214.D

Injection Date:	09-Jul-2014 13:24:35	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_215.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Jul-2014 13:40:21 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:26 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 14:15:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.808	1.809	-0.001	37362	0.001250	0.001308	
2	1.484	1.484	0.000	57732	0.001250	0.001395	
						RPD = 6.45	
6 PCB-1016							
1	2.698	2.698	0.000	102524	0.0500	0.0518	
1	2.780	2.780	0.000	40376	0.0500	0.0531	
1	2.838	2.838	0.000	26691	0.0500	0.0523	
1	2.957	2.957	0.000	25646	0.0500	0.0554	
		Average of Peak Amounts =				0.0531	
2	2.174	2.173	0.001	73136	0.0500	0.0540	
2	2.476	2.476	0.000	143449	0.0500	0.0506	
2	2.589	2.590	-0.001	56260	0.0500	0.0523	
2	2.682	2.681	0.001	32232	0.0500	0.0531	
		Average of Peak Amounts =				0.0525	
						RPD = 1.22	
9 PCB-1260							M
1	4.641	4.641	0.000	42956	0.0500	0.0523	
1	4.828	4.827	0.001	41270	0.0500	0.0521	
1	5.029	5.030	-0.001	101137	0.0500	0.0516	
1	5.264	5.263	0.001	54615	0.0500	0.0521	
		Average of Peak Amounts =				0.0520	
2	4.629	4.629	0.000	72243	0.0500	0.0511	M
2	4.697	4.698	-0.001	58017	0.0500	0.0519	M
2	4.768	4.768	0.000	161454	0.0500	0.0503	M
2	5.102	5.100	0.002	98342	0.0500	0.0513	
		Average of Peak Amounts =				0.0511	
						RPD = 1.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.444	6.441	0.003	26953	0.001250	0.001360	
2	6.100	6.100	0.000	39649	0.001250	0.001380	
						RPD = 1.47	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

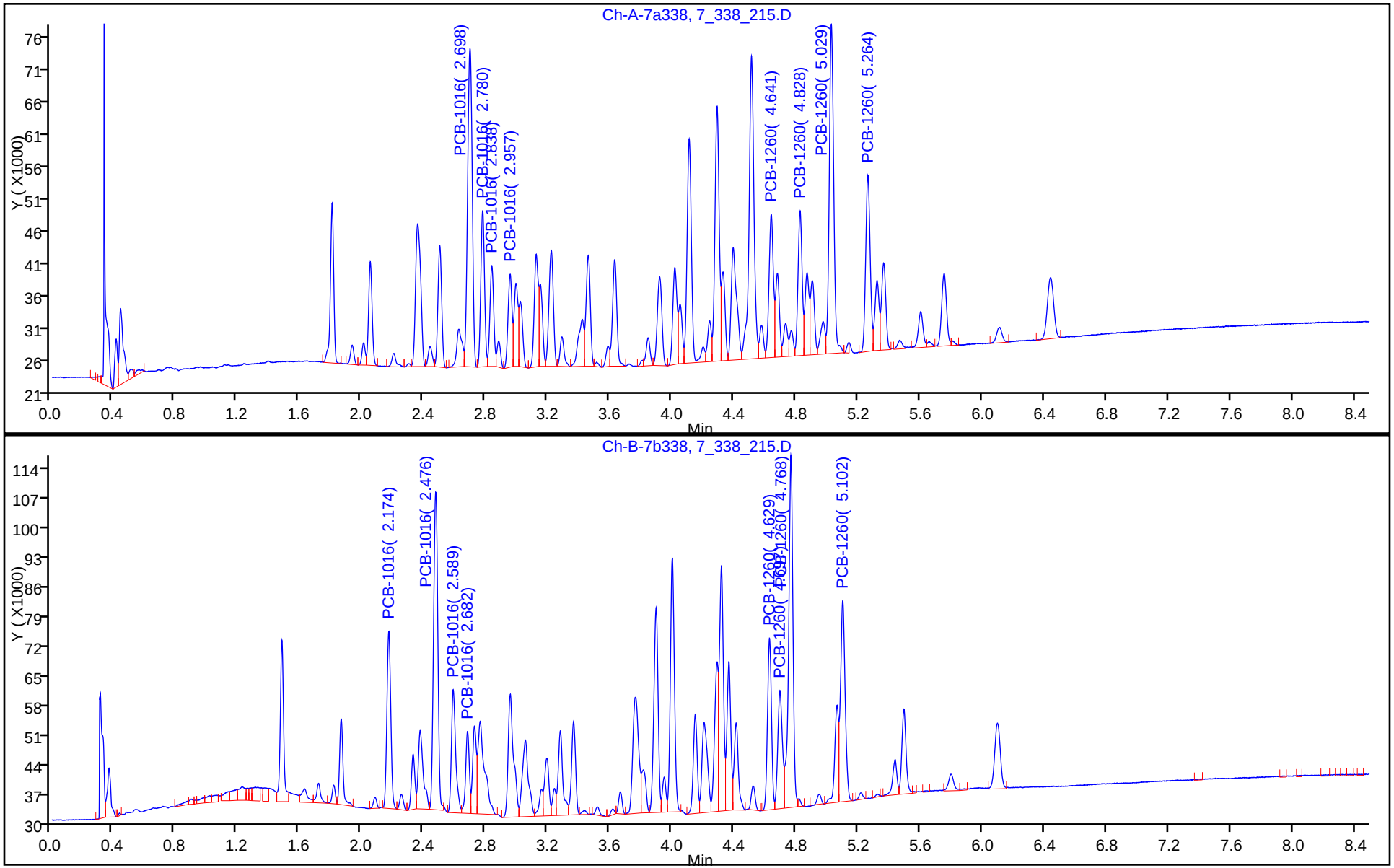
AR1660 2.0 ng_00017 Amount Added: 0.03 Units: mL

Report Date: 10-Jul-2014 07:29:27 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_215.D

Injection Date:	09-Jul-2014 13:40:21	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_216.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 13:56:17 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:28 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 10-Jul-2014 07:28:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	16137	0.000500	0.000565	
2	1.484	1.484	0.000	26384	0.000500	0.000637	
						RPD = 12.08	
6 PCB-1016							
1	2.698	2.698	0.000	43432	0.0200	0.0220	
1	2.780	2.780	0.000	17297	0.0200	0.0227	
1	2.838	2.838	0.000	11061	0.0200	0.0217	
1	2.957	2.957	0.000	10699	0.0200	0.0231	
		Average of Peak Amounts =				0.0224	
2	2.173	2.173	0.000	31344	0.0200	0.0231	
2	2.476	2.476	0.000	59805	0.0200	0.0211	
2	2.590	2.590	0.000	23166	0.0200	0.0215	
2	2.681	2.681	0.000	11524	0.0200	0.0190	
		Average of Peak Amounts =				0.0212	
						RPD = 5.41	
9 PCB-1260							
1	4.641	4.641	0.000	17910	0.0200	0.0218	
1	4.827	4.827	0.000	16883	0.0200	0.0213	
1	5.030	5.030	0.000	41141	0.0200	0.0210	
1	5.263	5.263	0.000	23148	0.0200	0.0221	
		Average of Peak Amounts =				0.0215	
2	4.629	4.629	0.000	29515	0.0200	0.0209	
2	4.698	4.698	0.000	22813	0.0200	0.0204	
2	4.768	4.768	0.000	66613	0.0200	0.0207	
2	5.100	5.100	0.000	40369	0.0200	0.0210	
		Average of Peak Amounts =				0.0208	
						RPD = 3.63	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.441	6.441	0.000	11733	0.000500	0.000592	
2	6.100	6.100	0.000	16205	0.000500	0.000564	
						RPD = 4.83	

Reagents:

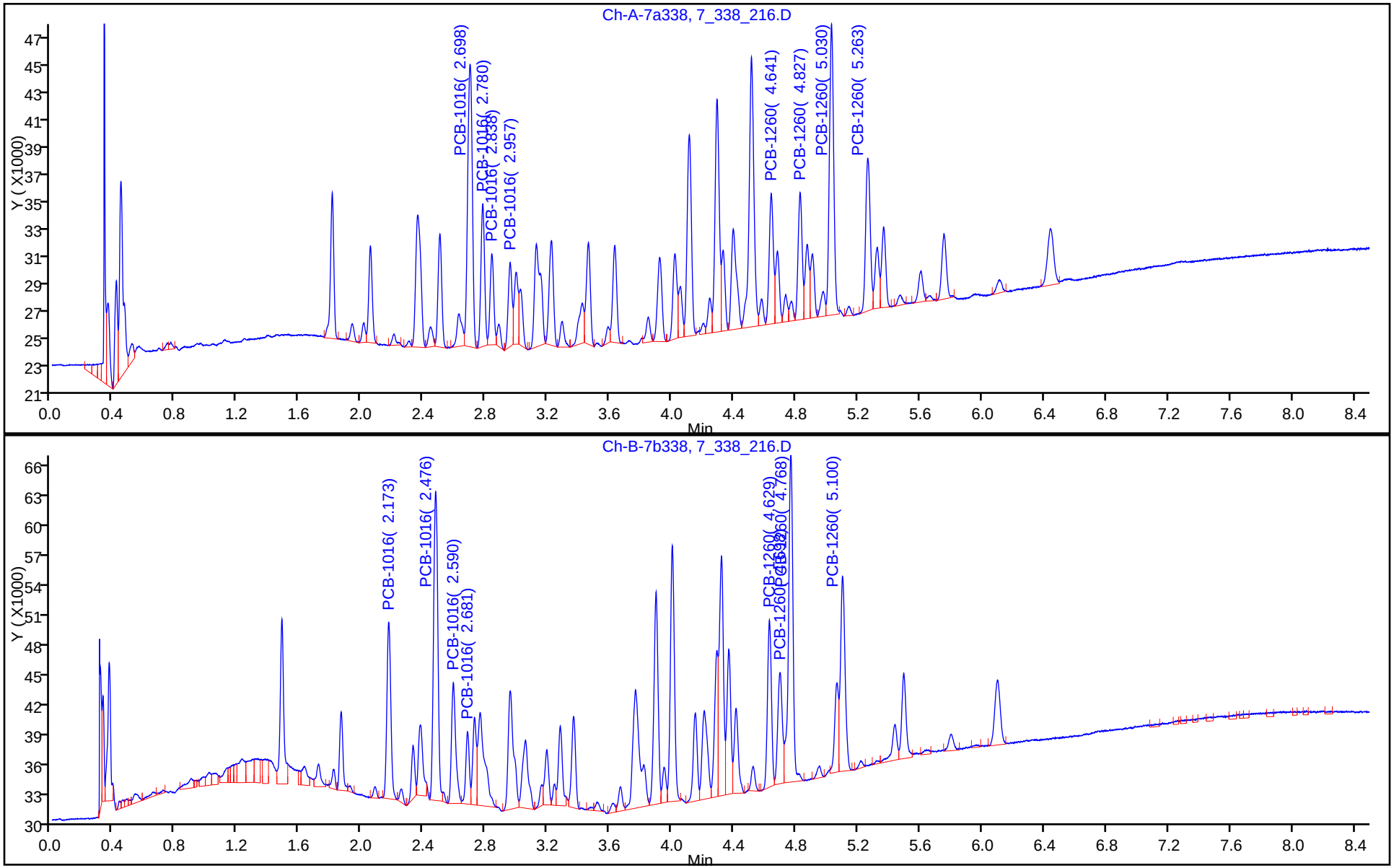
AR1660 2.0 ng_00017 Amount Added: 0.01 Units: mL

Report Date: 10-Jul-2014 07:29:29 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_216.D

Injection Date:	09-Jul-2014 13:56:17	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:21 Calibration End Date: 07/09/2014 13:56 Calibration ID: 19291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-191849/7	7_338_216.D
Level 2	STD2 480-191849/6	7_338_215.D
Level 3	STD3 480-191849/5	7_338_214.D
Level 4	STD4 480-191849/4	7_338_213.D
Level 5	STD5 480-191849/3	7_338_212.D
Level 6	STD6 480-191849/2	7_338_211.D
Level 7	STD7 480-191849/1	7_338_210.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.173	2.174	2.174	2.174	2.174	2.174	2.175				2.143 - 2.203	2.174
PCB-1016 Peak 2	2.476	2.476	2.476	2.477	2.478	2.477	2.477				2.446 - 2.506	2.477
PCB-1016 Peak 3	2.590	2.589	2.590	2.590	2.590	2.590	2.591				2.560 - 2.620	2.590
PCB-1016 Peak 4	2.681	2.682	2.683	2.682	2.683	2.682	2.683				2.651 - 2.711	2.682
PCB-1260 Peak 1	4.629	4.629	4.630	4.630	4.629	4.630	4.631				4.599 - 4.659	4.630
PCB-1260 Peak 2	4.698	4.697	4.698	4.698	4.697	4.696	4.699				4.668 - 4.728	4.698
PCB-1260 Peak 3	4.768	4.768	4.768	4.766	4.768	4.768	4.768				4.738 - 4.798	4.768
PCB-1260 Peak 4	5.100	5.102	5.102	5.100	5.101	5.103	5.101				5.070 - 5.130	5.101
Tetrachloro-m-xylene	1.484	1.484	1.485	1.484	1.485	1.484	1.486				1.454 - 1.514	1.485
DCB Decachlorobiphenyl	6.100	6.100	6.099	6.101	6.099	6.100	6.100				6.040 - 6.160	6.100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:21 Calibration End Date: 07/09/2014 13:56 Calibration ID: 19291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-191849/7	7_338_216.D
Level 2	STD2 480-191849/6	7_338_215.D
Level 3	STD3 480-191849/5	7_338_214.D
Level 4	STD4 480-191849/4	7_338_213.D
Level 5	STD5 480-191849/3	7_338_212.D
Level 6	STD6 480-191849/2	7_338_211.D
Level 7	STD7 480-191849/1	7_338_210.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	1567200 1283574	1462720 1221059	1400430 1193310	1352250	Ave		1354363.21				9.9		20.0			
PCB-1016 Peak 2	2990250 2789138	2868980 2734495	2849250 2763324	2857845	Ave		2836183.14				3.0		20.0			
PCB-1016 Peak 3	1158300 1033440	1125200 1016152	1080070 1034168	1085990	Ave		1076188.57				4.9		20.0			
PCB-1016 Peak 4	576200 586304	644640 582464	622070 610972	623650	Ave		606614.286				4.2		20.0			
PCB-1260 Peak 1	1475750 1448124	1444860 1339645	1411610 1381319	1387055	Ave		1412623.29				3.3		20.0			
PCB-1260 Peak 2	1140650 1120992	1160340 1068007	1131380 1084243	1114400	Ave		1117144.50				2.9		20.0			
PCB-1260 Peak 3	3330650 3118322	3229080 3120507	3199500 3275612	3213035	Ave		3212386.57				2.4		20.0			
PCB-1260 Peak 4	2018450 1864016	1966840 1856477	1900800 1933420	1891410	Ave		1918773.21				3.0		20.0			
Tetrachloro-m-xylene	52768000 37080880	46185600 36613080	40675600 37224100	39163600	Ave		41387265.7				15.0		20.0			
DCB Decachlorobiphenyl	32410000 26716080	31719200 26038280	29418000 26502400	28251000	Ave		28722137.1				8.9		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 12:21 Calibration End Date: 07/09/2014 13:56 Calibration ID: 19291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-191849/7	7_338_216.D
Level 2	STD2 480-191849/6	7_338_215.D
Level 3	STD3 480-191849/5	7_338_214.D
Level 4	STD4 480-191849/4	7_338_213.D
Level 5	STD5 480-191849/3	7_338_212.D
Level 6	STD6 480-191849/2	7_338_211.D
Level 7	STD7 480-191849/1	7_338_210.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	31344 1221059	73136 2386619	140043	270450	641787	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	59805 2734495	143449 5526648	284925	571569	1394569	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	23166 1016152	56260 2068336	108007	217198	516720	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	11524 582464	32232 1221944	62207	124730	293152	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	29515 1339645	72243 2762638	141161	277411	724062	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	22813 1068007	58017 2168485	113138	222880	560496	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	66613 3120507	161454 6551224	319950	642607	1559161	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	40369 1856477	98342 3866839	190080	378282	932008	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	26384 915327	57732 1861205	101689	195818	463511	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	16205 650957	39649 1325120	73545	141255	333951	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_210.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 09-Jul-2014 12:21:04 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:12 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 12:44:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							M
1	1.810	1.809	0.001	1349898	0.0500	0.0473	M
2	1.486	1.484	0.002	1861205	0.0500	0.0450	
						RPD = 4.95	
6 PCB-1016							
1	2.698	2.698	0.000	3745673	2.00	1.89	
1	2.780	2.780	0.000	1404591	2.00	1.85	
1	2.840	2.838	0.002	984461	2.00	1.93	
1	2.957	2.957	0.000	828479	2.00	1.79	
		Average of Peak Amounts =				1.86	
2	2.175	2.173	0.002	2386619	2.00	1.76	
2	2.477	2.476	0.001	5526648	2.00	1.95	
2	2.591	2.590	0.001	2068336	2.00	1.92	
2	2.683	2.681	0.001	1221944	2.00	2.01	
		Average of Peak Amounts =				1.91	
						RPD = 2.51	
9 PCB-1260							
1	4.642	4.641	0.001	1593741	2.00	1.94	
1	4.828	4.827	0.001	1564742	2.00	1.97	
1	5.030	5.030	0.000	3946912	2.00	2.01	
1	5.265	5.263	0.002	2040433	2.00	1.95	
		Average of Peak Amounts =				1.97	
2	4.631	4.629	0.002	2762638	2.00	1.96	
2	4.699	4.698	0.001	2168485	2.00	1.94	
2	4.768	4.768	0.000	6551224	2.00	2.04	
2	5.101	5.100	0.001	3866839	2.00	2.02	
		Average of Peak Amounts =				1.99	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.001	888919	0.0500	0.0449	
2	6.100	6.100	0.000	1325120	0.0500	0.0461	
						RPD = 2.80	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

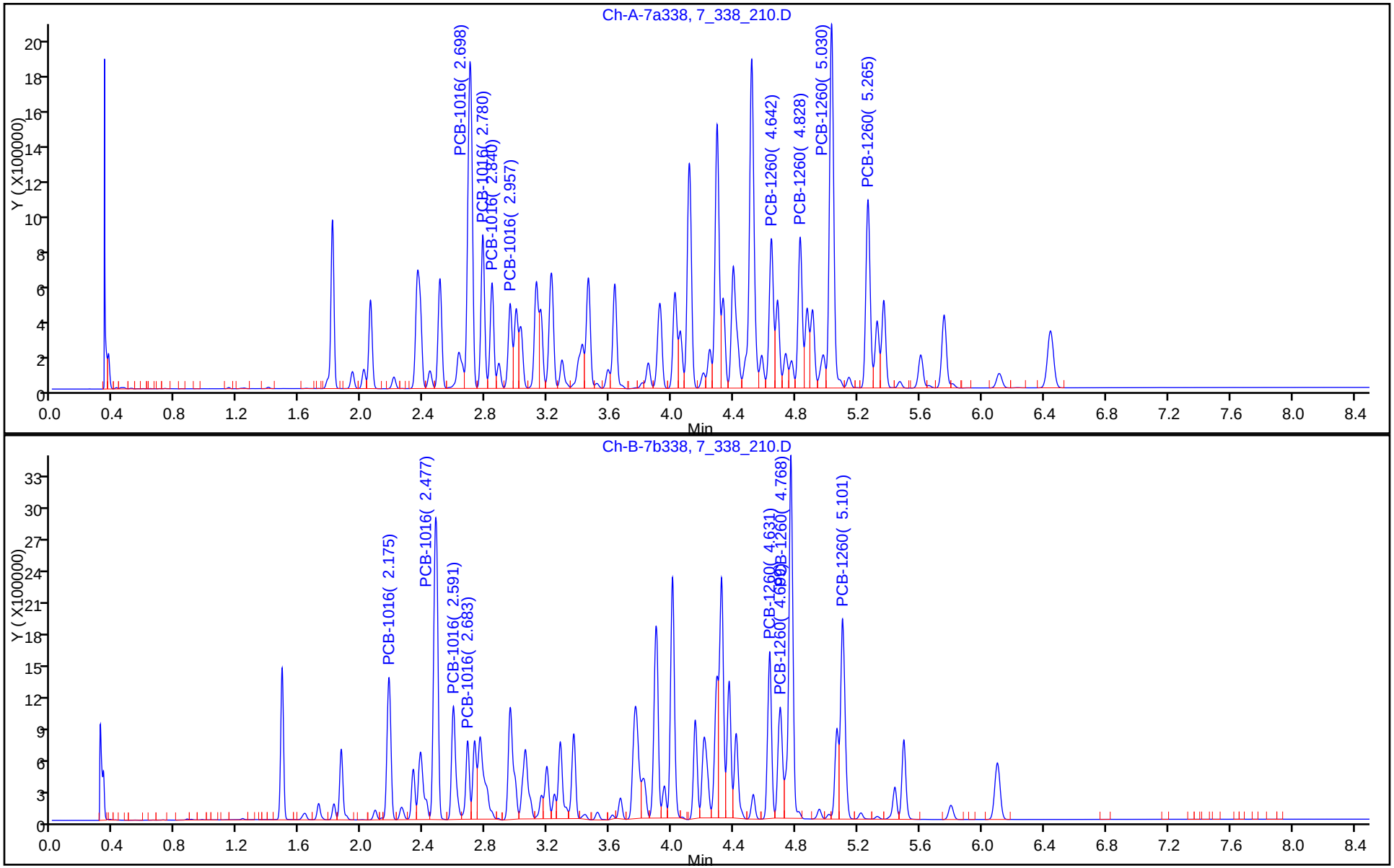
AR1660 2.0 ng_00017 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:14 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_210.D

Injection Date:	09-Jul-2014 12:21:04	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD7			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_211.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 09-Jul-2014 12:36:54 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:16 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:03:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	669654	0.0250	0.0234	
2	1.484	1.484	0.000	915327	0.0250	0.0221	
						RPD = 5.81	
6 PCB-1016							
1	2.698	2.698	0.000	1871496	1.00	0.9462	
1	2.779	2.780	-0.001	703831	1.00	0.9250	
1	2.839	2.838	0.001	483995	1.00	0.9484	
1	2.957	2.957	0.000	415463	1.00	0.8971	
		Average of Peak Amounts =				0.9292	
2	2.174	2.173	0.001	1221059	1.00	0.9016	
2	2.477	2.476	0.001	2734495	1.00	0.9641	
2	2.590	2.590	0.000	1016152	1.00	0.9442	
2	2.682	2.681	0.001	582464	1.00	0.9602	
		Average of Peak Amounts =				0.9425	
						RPD = 1.43	
9 PCB-1260							
1	4.641	4.641	0.000	768482	1.00	0.9356	
1	4.827	4.827	0.000	754129	1.00	0.9513	
1	5.029	5.030	-0.001	1902577	1.00	0.9705	
1	5.264	5.263	0.001	995123	1.00	0.9489	
		Average of Peak Amounts =				0.9516	
2	4.630	4.629	0.001	1339645	1.00	0.9483	
2	4.696	4.698	-0.002	1068007	1.00	0.9560	
2	4.768	4.768	0.000	3120507	1.00	0.9714	
2	5.103	5.100	0.002	1856477	1.00	0.9675	
		Average of Peak Amounts =				0.9608	
						RPD = 0.97	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.002	439523	0.0250	0.0222	
2	6.100	6.100	0.000	650957	0.0250	0.0227	
						RPD = 2.15	

Reagents:

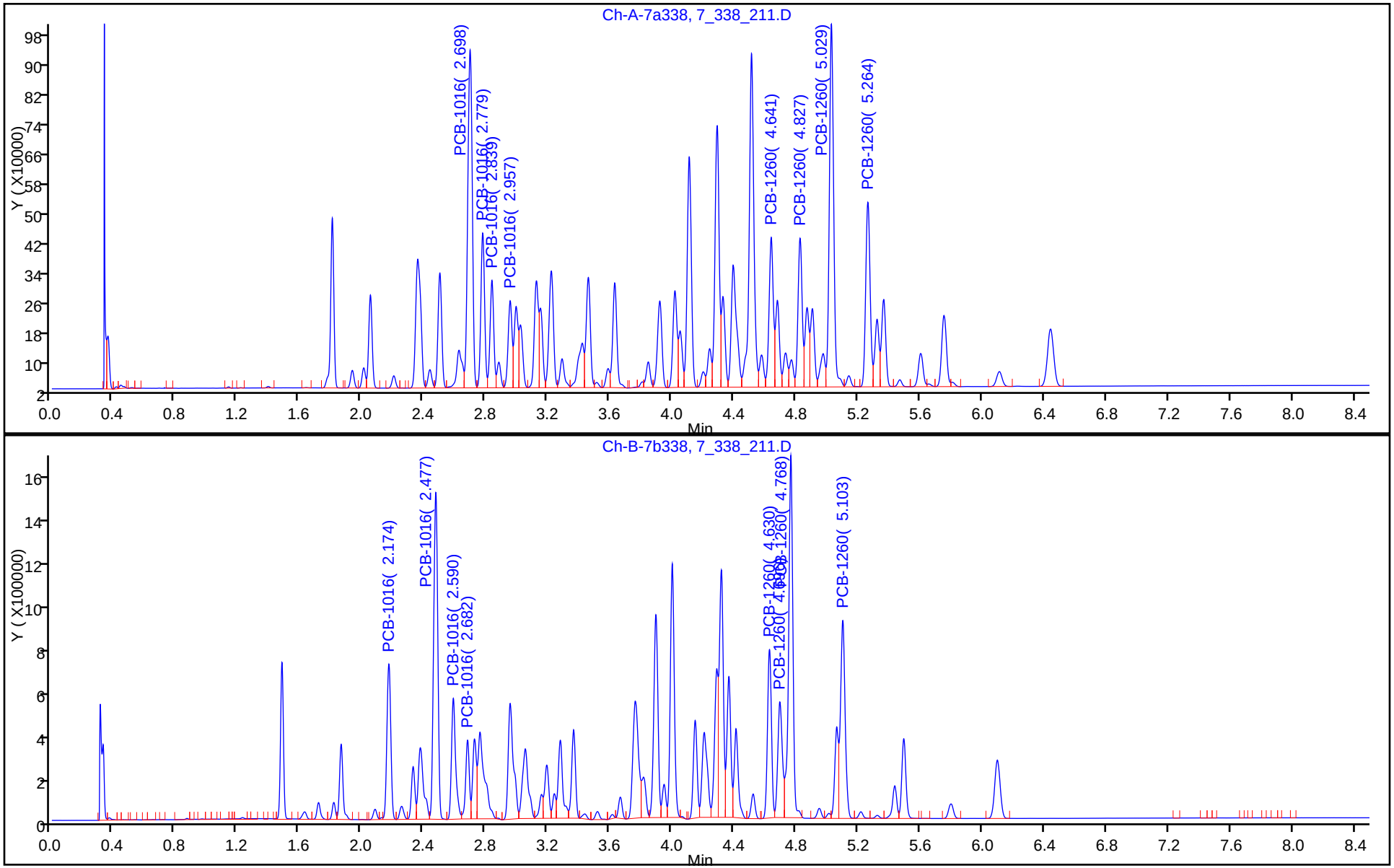
AR1660 2.0 ng_00017 Amount Added: 0.50 Units: mL

Report Date: 10-Jul-2014 07:29:18 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_211.D

Injection Date:	09-Jul-2014 12:36:54	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD6			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_212.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Jul-2014 12:52:45 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:19 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:04:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.810	1.809	0.001	342312	0.0125	0.0120	
2	1.485	1.484	0.001	463511	0.0125	0.0112	
						RPD = 6.75	
6 PCB-1016							
1	2.698	2.698	0.000	959800	0.5000	0.4853	
1	2.780	2.780	0.000	362344	0.5000	0.4762	
1	2.839	2.838	0.001	246159	0.5000	0.4823	
1	2.958	2.957	0.001	214378	0.5000	0.4629	
		Average of Peak Amounts =				0.4767	
2	2.174	2.173	0.001	641787	0.5000	0.4739	
2	2.478	2.476	0.002	1394569	0.5000	0.4917	
2	2.590	2.590	0.000	516720	0.5000	0.4801	
2	2.683	2.681	0.001	293152	0.5000	0.4833	
		Average of Peak Amounts =				0.4822	
						RPD = 1.16	
9 PCB-1260							M
1	4.642	4.641	0.001	391088	0.5000	0.4761	
1	4.828	4.827	0.001	377811	0.5000	0.4766	
1	5.029	5.030	-0.001	949540	0.5000	0.4844	
1	5.265	5.263	0.002	500998	0.5000	0.4777	
		Average of Peak Amounts =				0.4787	
2	4.629	4.629	0.000	724062	0.5000	0.5126	M
2	4.697	4.698	-0.001	560496	0.5000	0.5017	M
2	4.768	4.768	0.000	1559161	0.5000	0.4854	M
2	5.101	5.100	0.001	932008	0.5000	0.4857	M
		Average of Peak Amounts =				0.4963	
						RPD = 3.62	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.001	227866	0.0125	0.0115	
2	6.099	6.100	-0.001	333951	0.0125	0.0116	
						RPD = 1.10	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

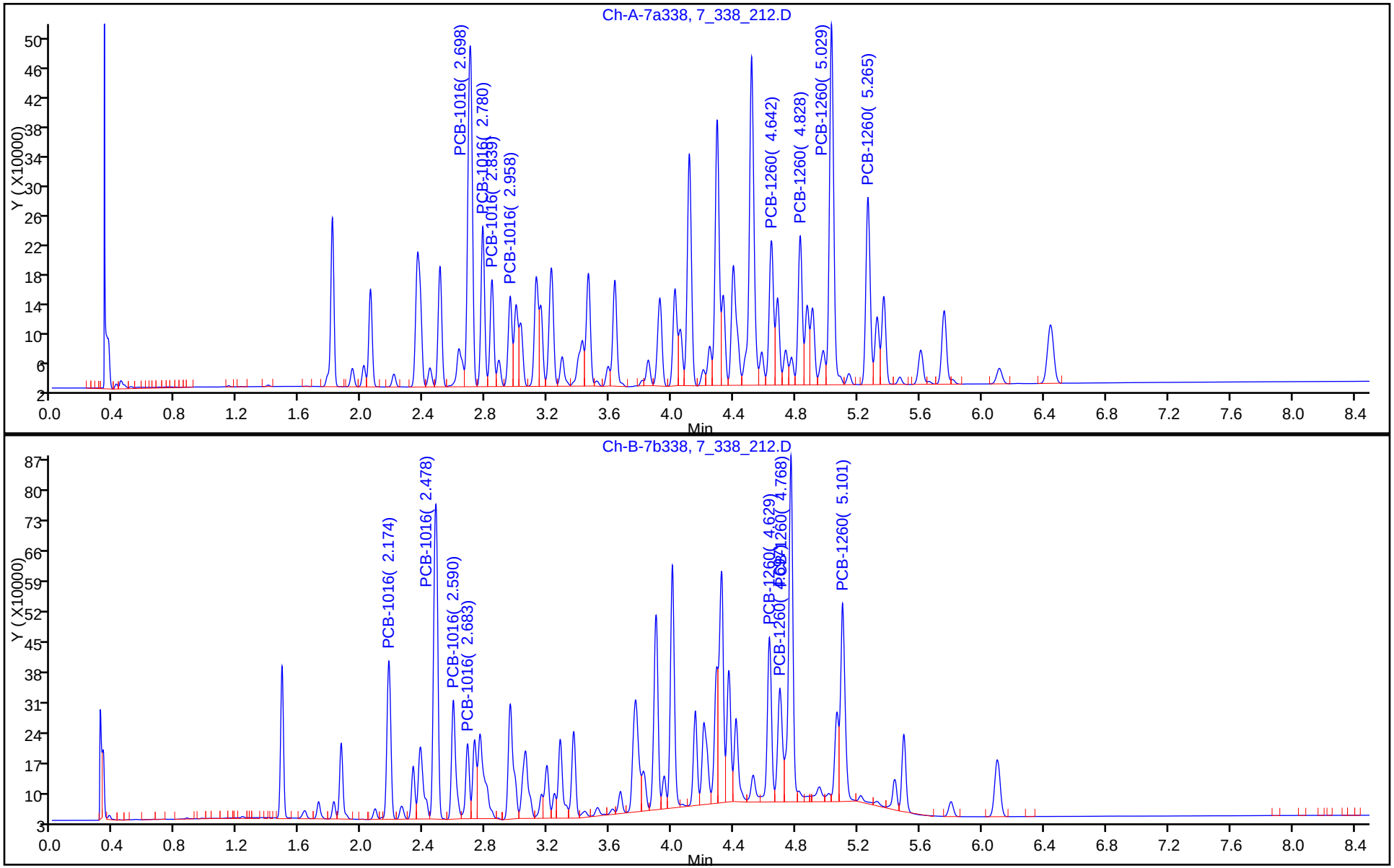
AR1660 2.0 ng_00017 Amount Added: 0.25 Units: mL

Report Date: 10-Jul-2014 07:29:21 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_212.D

Injection Date:	09-Jul-2014 12:52:45	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		

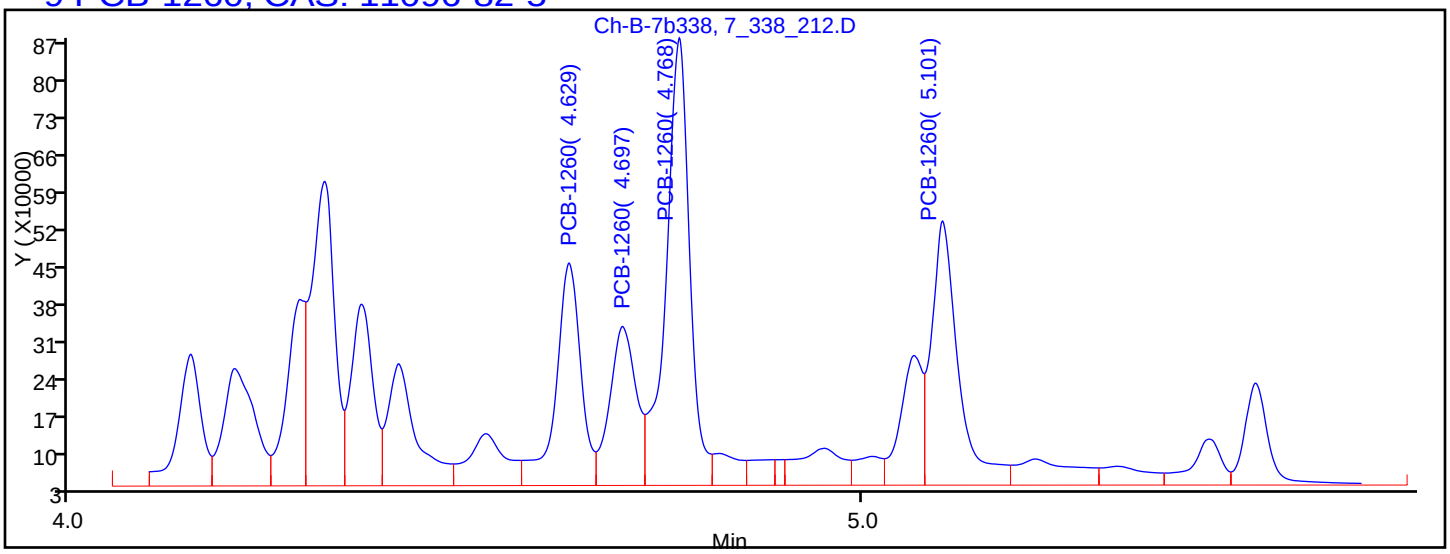


Report Date: 10-Jul-2014 07:29:21 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

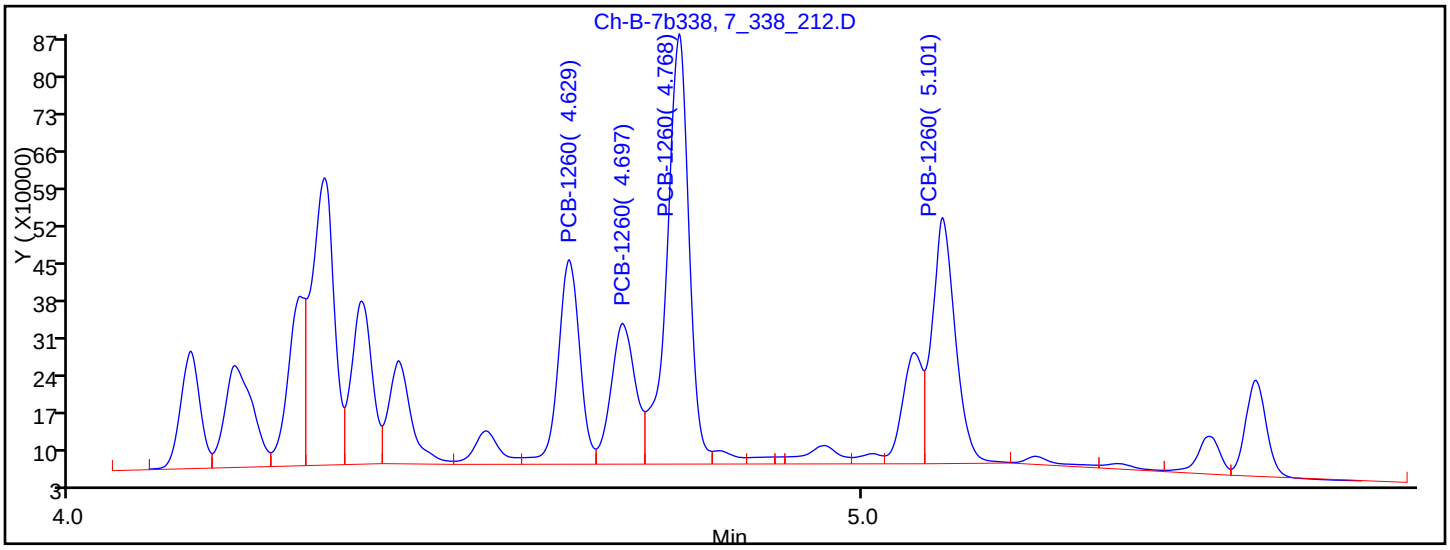
Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_212.D
Injection Date: 09-Jul-2014 12:52:45 Instrument ID: HP6890-7
Lims ID: STD5
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.629	Response = 919171	M
RT = 4.697	Response = 688218	M
RT = 4.768	Response = 1735310	M
RT = 5.101	Response = 1158143	M



Manual Integration Results

RT = 4.629	Response = 724062	M
RT = 4.697	Response = 560496	M
RT = 4.768	Response = 1559161	M
RT = 5.101	Response = 932008	M

Reviewer: RudzG, 09-Jul-2014 14:20:22
Audit Action: Assigned New Baseline
Audit Reason: Peak not integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_213.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Jul-2014 13:08:35 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:21 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:20:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	140491	0.005000	0.004918	
2	1.484	1.484	0.000	195818	0.005000	0.004731	
						RPD = 3.86	
6 PCB-1016							M
1	2.698	2.698	0.000	394055	0.2000	0.1992	
1	2.780	2.780	0.000	150485	0.2000	0.1978	
1	2.839	2.838	0.001	100968	0.2000	0.1978	
1	2.957	2.957	0.000	91378	0.2000	0.1973	
		Average of Peak Amounts =				0.1980	
2	2.174	2.173	0.001	270450	0.2000	0.1997	
2	2.477	2.476	0.001	571569	0.2000	0.2015	M
2	2.590	2.590	0.000	217198	0.2000	0.2018	M
2	2.682	2.681	0.001	124730	0.2000	0.2056	M
		Average of Peak Amounts =				0.2022	
						RPD = 2.06	
9 PCB-1260							M
1	4.641	4.641	0.000	161961	0.2000	0.1972	
1	4.828	4.827	0.001	156633	0.2000	0.1976	
1	5.029	5.030	-0.001	383415	0.2000	0.1956	
1	5.265	5.263	0.002	204800	0.2000	0.1953	
		Average of Peak Amounts =				0.1964	
2	4.630	4.629	0.001	277411	0.2000	0.1964	M
2	4.698	4.698	0.000	222880	0.2000	0.1995	M
2	4.766	4.768	-0.002	642607	0.2000	0.2000	M
2	5.100	5.100	0.000	378282	0.2000	0.1971	
		Average of Peak Amounts =				0.1983	
						RPD = 0.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.002	97710	0.005000	0.004931	
2	6.101	6.100	0.001	141255	0.005000	0.004918	
						RPD = 0.27	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

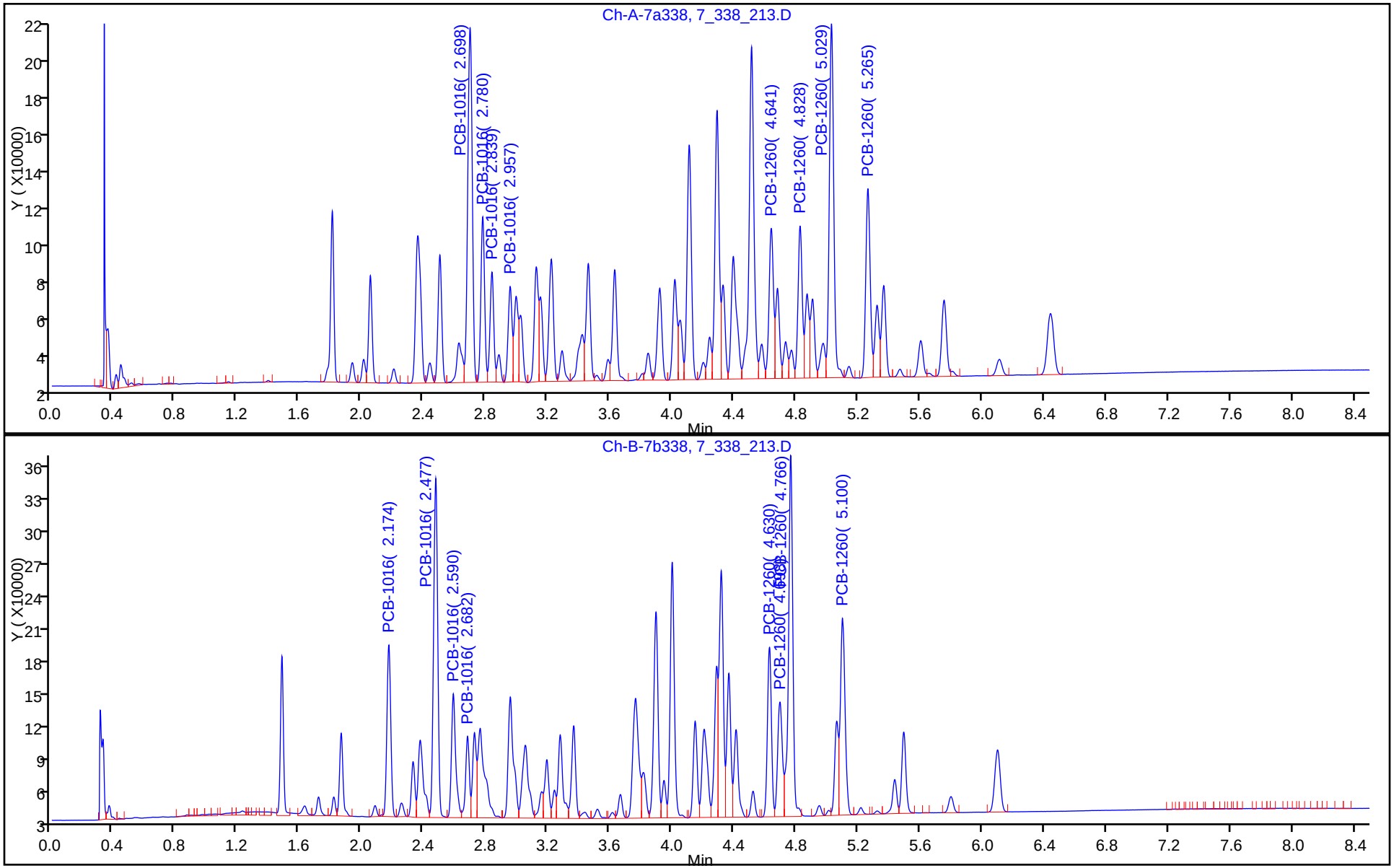
AR1660 2.0 ng_00017 Amount Added: 0.10 Units: mL

Report Date: 10-Jul-2014 07:29:23 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_213.D

Injection Date:	09-Jul-2014 13:08:35	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD4			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



Report Date: 10-Jul-2014 07:29:23 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_213.D

Injection Date: 09-Jul-2014 13:08:35 Instrument ID: HP6890-7

Lims ID: STD4

Client ID:

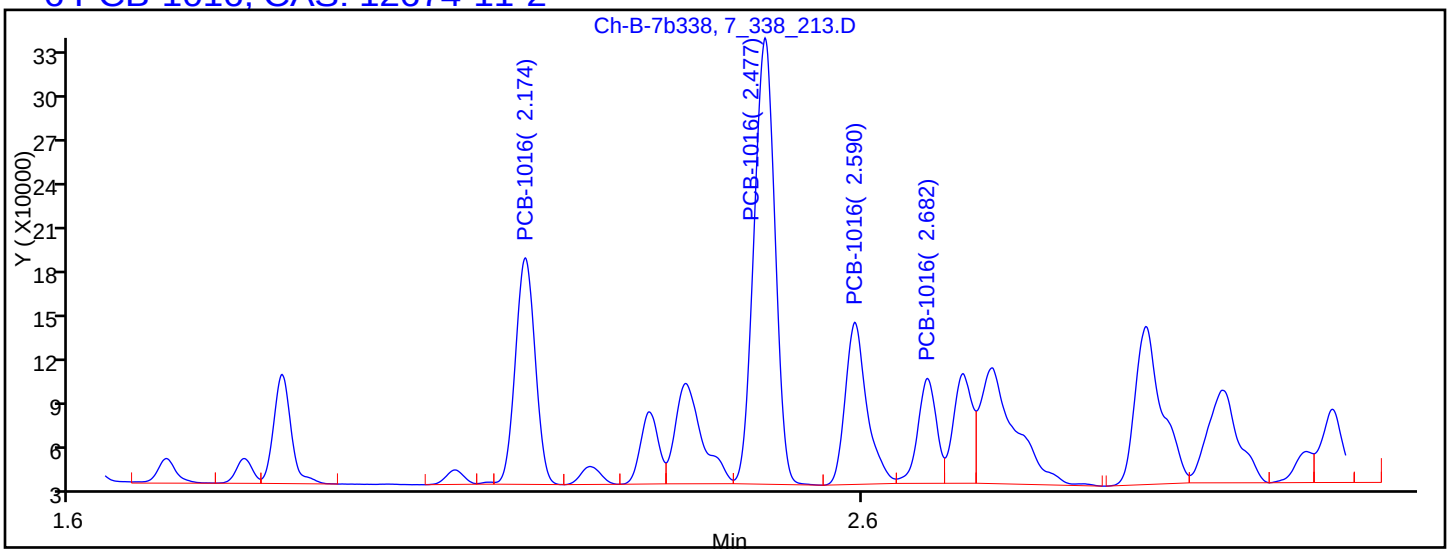
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL

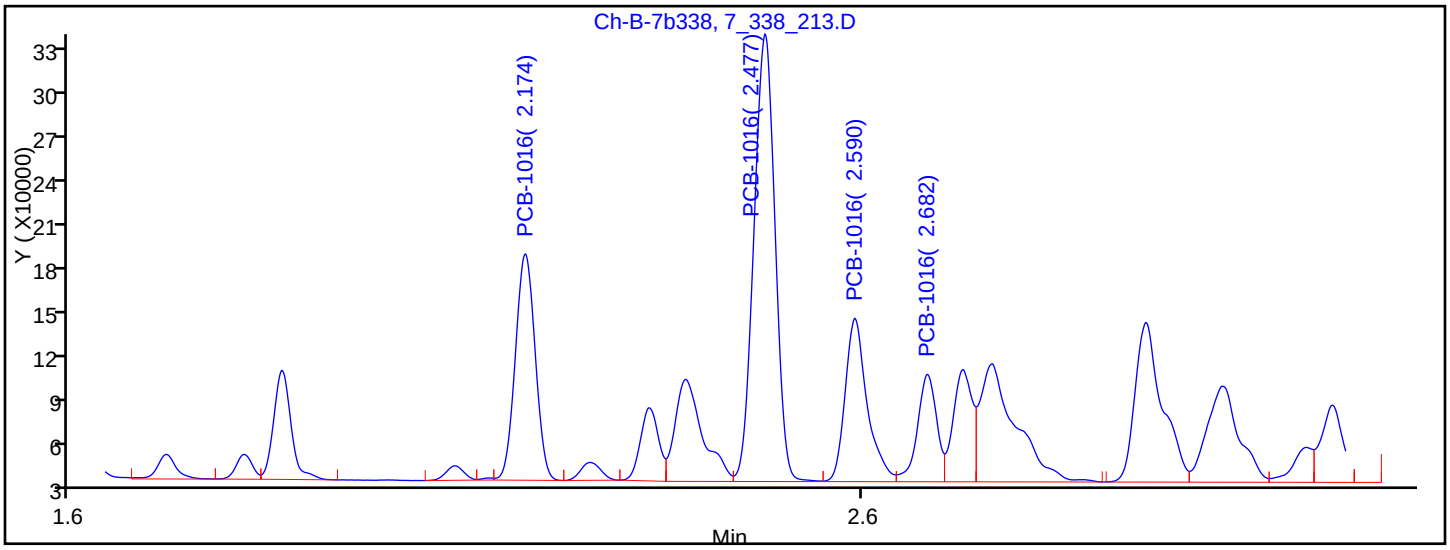
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.174	Response = 270450	
RT = 2.477	Response = 565847	M
RT = 2.590	Response = 211521	M
RT = 2.682	Response = 118368	M



Manual Integration Results

RT = 2.174	Response = 270450	
RT = 2.477	Response = 571569	M
RT = 2.590	Response = 217198	M
RT = 2.682	Response = 124730	M

Reviewer: eversd, 09-Jul-2014 13:20:24

Audit Action: Assigned New Baseline

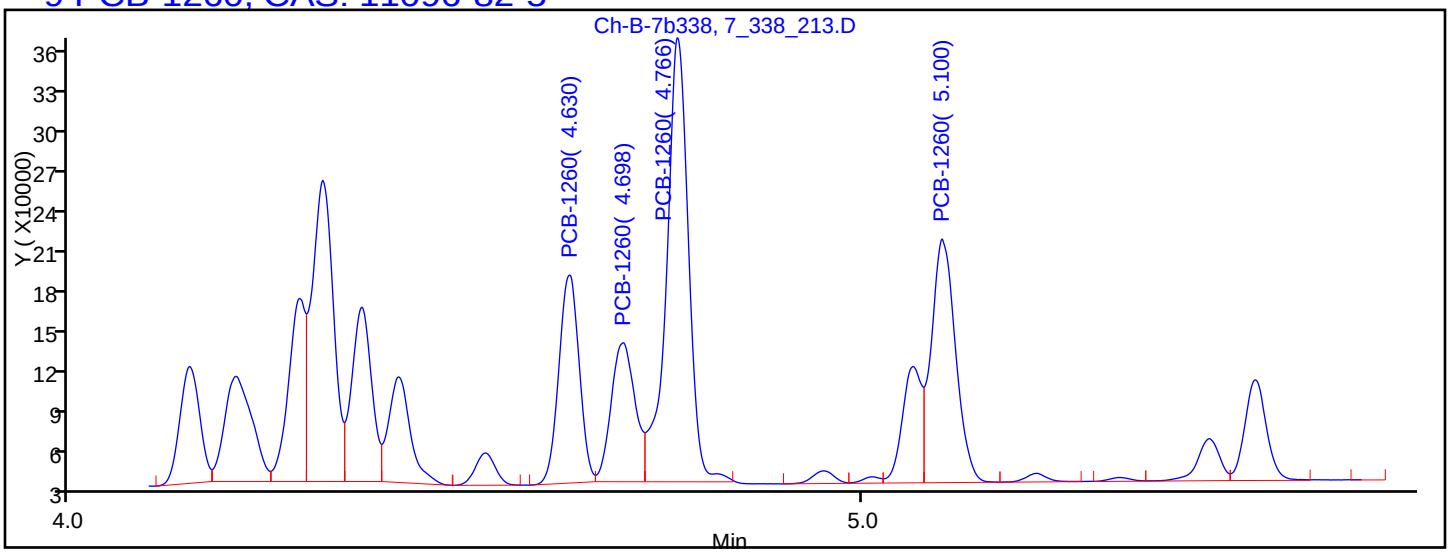
Audit Reason: Incomplete Integration

Report Date: 10-Jul-2014 07:29:23 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

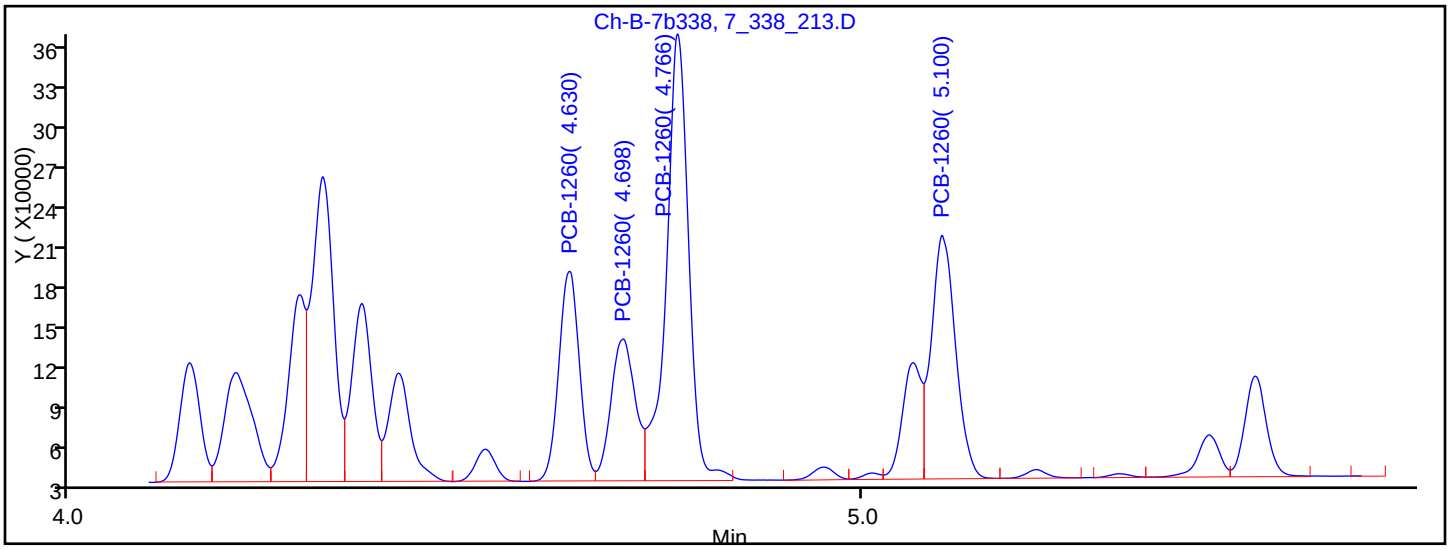
Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_213.D
Injection Date: 09-Jul-2014 13:08:35 Instrument ID: HP6890-7
Lims ID: STD4
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.630	Response = 272774	M
RT = 4.698	Response = 215127	M
RT = 4.766	Response = 629992	M
RT = 5.100	Response = 378282	



Manual Integration Results

RT = 4.630	Response = 277411	M
RT = 4.698	Response = 222880	M
RT = 4.766	Response = 642607	M
RT = 5.100	Response = 378282	

Reviewer: eversd, 09-Jul-2014 13:20:24
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_214.D
Lims ID: STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Jul-2014 13:24:35 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:24 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 13:39:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	71374	0.002500	0.002498	
2	1.485	1.484	0.001	101689	0.002500	0.002457	
						RPD = 1.67	
6 PCB-1016							
1	2.698	2.698	0.000	198932	0.1000	0.1006	
1	2.780	2.780	0.000	77067	0.1000	0.1013	
1	2.839	2.838	0.001	51210	0.1000	0.1003	
1	2.956	2.957	-0.001	47846	0.1000	0.1033	
		Average of Peak Amounts =				0.1014	
2	2.174	2.173	0.001	140043	0.1000	0.1034	
2	2.476	2.476	0.000	284925	0.1000	0.1005	
2	2.590	2.590	0.000	108007	0.1000	0.1004	
2	2.683	2.681	0.001	62207	0.1000	0.1025	
		Average of Peak Amounts =				0.1017	
						RPD = 0.31	
9 PCB-1260							M
1	4.642	4.641	0.001	83794	0.1000	0.1020	
1	4.828	4.827	0.001	80417	0.1000	0.1014	
1	5.029	5.030	-0.001	195093	0.1000	0.0995	
1	5.263	5.263	0.000	104964	0.1000	0.1001	
		Average of Peak Amounts =				0.1008	
2	4.630	4.629	0.001	141161	0.1000	0.0999	M
2	4.698	4.698	0.000	113138	0.1000	0.1013	M
2	4.768	4.768	0.000	319950	0.1000	0.0996	M
2	5.102	5.100	0.002	190080	0.1000	0.0991	M
		Average of Peak Amounts =				0.1000	
						RPD = 0.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.443	6.441	0.001	51352	0.002500	0.002592	
2	6.099	6.100	-0.001	73545	0.002500	0.002561	
						RPD = 1.21	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

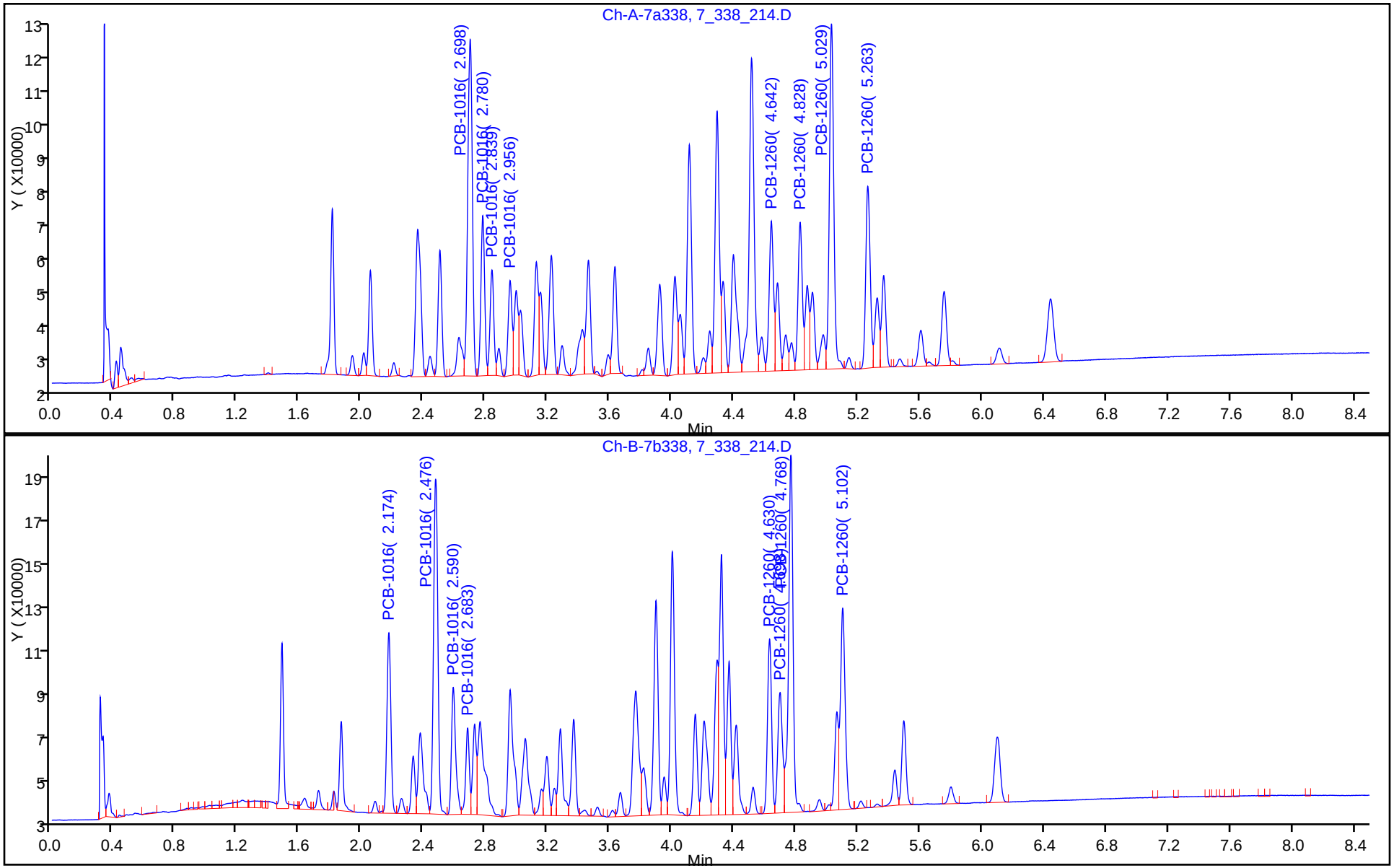
AR1660 2.0 ng_00017 Amount Added: 0.05 Units: mL

Report Date: 10-Jul-2014 07:29:25 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_214.D

Injection Date:	09-Jul-2014 13:24:35	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



Report Date: 10-Jul-2014 07:29:26 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_214.D

Injection Date: 09-Jul-2014 13:24:35 Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

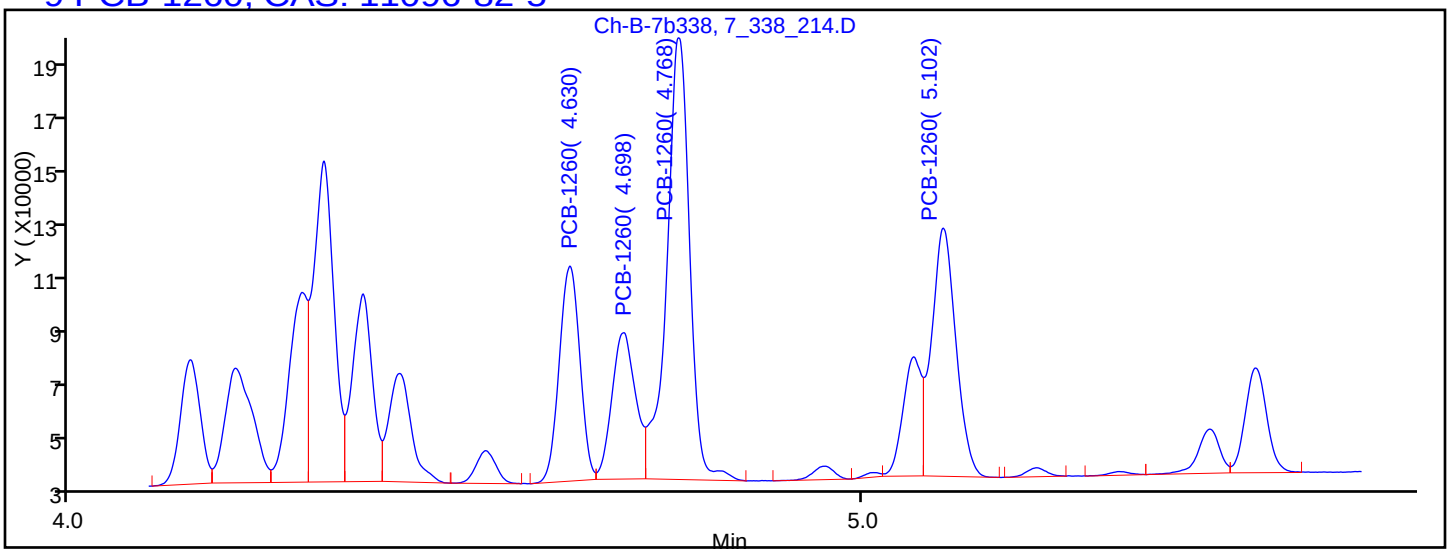
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL

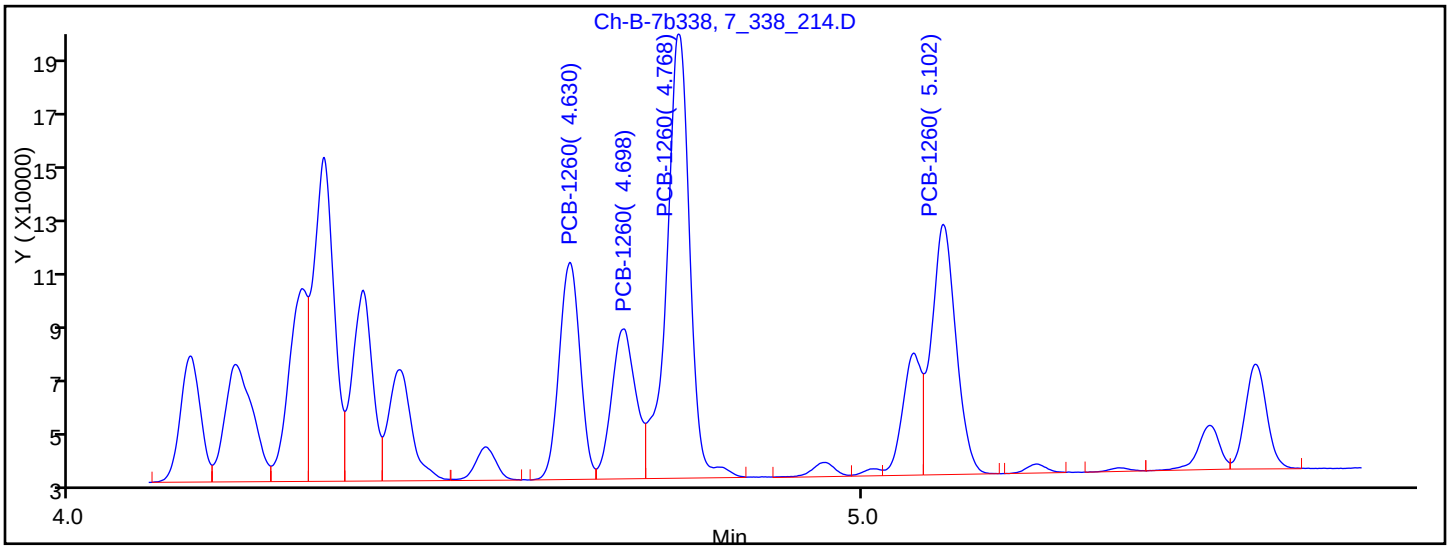
Column: Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.630	Response = 138066	M
RT = 4.698	Response = 108417	M
RT = 4.768	Response = 314823	M
RT = 5.102	Response = 187176	M



Manual Integration Results

RT = 4.630	Response = 141161	M
RT = 4.698	Response = 113138	M
RT = 4.768	Response = 319950	M
RT = 5.102	Response = 190080	M

Reviewer: eversd, 09-Jul-2014 13:39:07

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_215.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Jul-2014 13:40:21 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:26 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 14:15:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.808	1.809	-0.001	37362	0.001250	0.001308	
2	1.484	1.484	0.000	57732	0.001250	0.001395	
						RPD = 6.45	
6 PCB-1016							
1	2.698	2.698	0.000	102524	0.0500	0.0518	
1	2.780	2.780	0.000	40376	0.0500	0.0531	
1	2.838	2.838	0.000	26691	0.0500	0.0523	
1	2.957	2.957	0.000	25646	0.0500	0.0554	
		Average of Peak Amounts =				0.0531	
2	2.174	2.173	0.001	73136	0.0500	0.0540	
2	2.476	2.476	0.000	143449	0.0500	0.0506	
2	2.589	2.590	-0.001	56260	0.0500	0.0523	
2	2.682	2.681	0.001	32232	0.0500	0.0531	
		Average of Peak Amounts =				0.0525	
						RPD = 1.22	
9 PCB-1260							M
1	4.641	4.641	0.000	42956	0.0500	0.0523	
1	4.828	4.827	0.001	41270	0.0500	0.0521	
1	5.029	5.030	-0.001	101137	0.0500	0.0516	
1	5.264	5.263	0.001	54615	0.0500	0.0521	
		Average of Peak Amounts =				0.0520	
2	4.629	4.629	0.000	72243	0.0500	0.0511	M
2	4.697	4.698	-0.001	58017	0.0500	0.0519	M
2	4.768	4.768	0.000	161454	0.0500	0.0503	M
2	5.102	5.100	0.002	98342	0.0500	0.0513	
		Average of Peak Amounts =				0.0511	
						RPD = 1.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.444	6.441	0.003	26953	0.001250	0.001360	
2	6.100	6.100	0.000	39649	0.001250	0.001380	
						RPD = 1.47	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

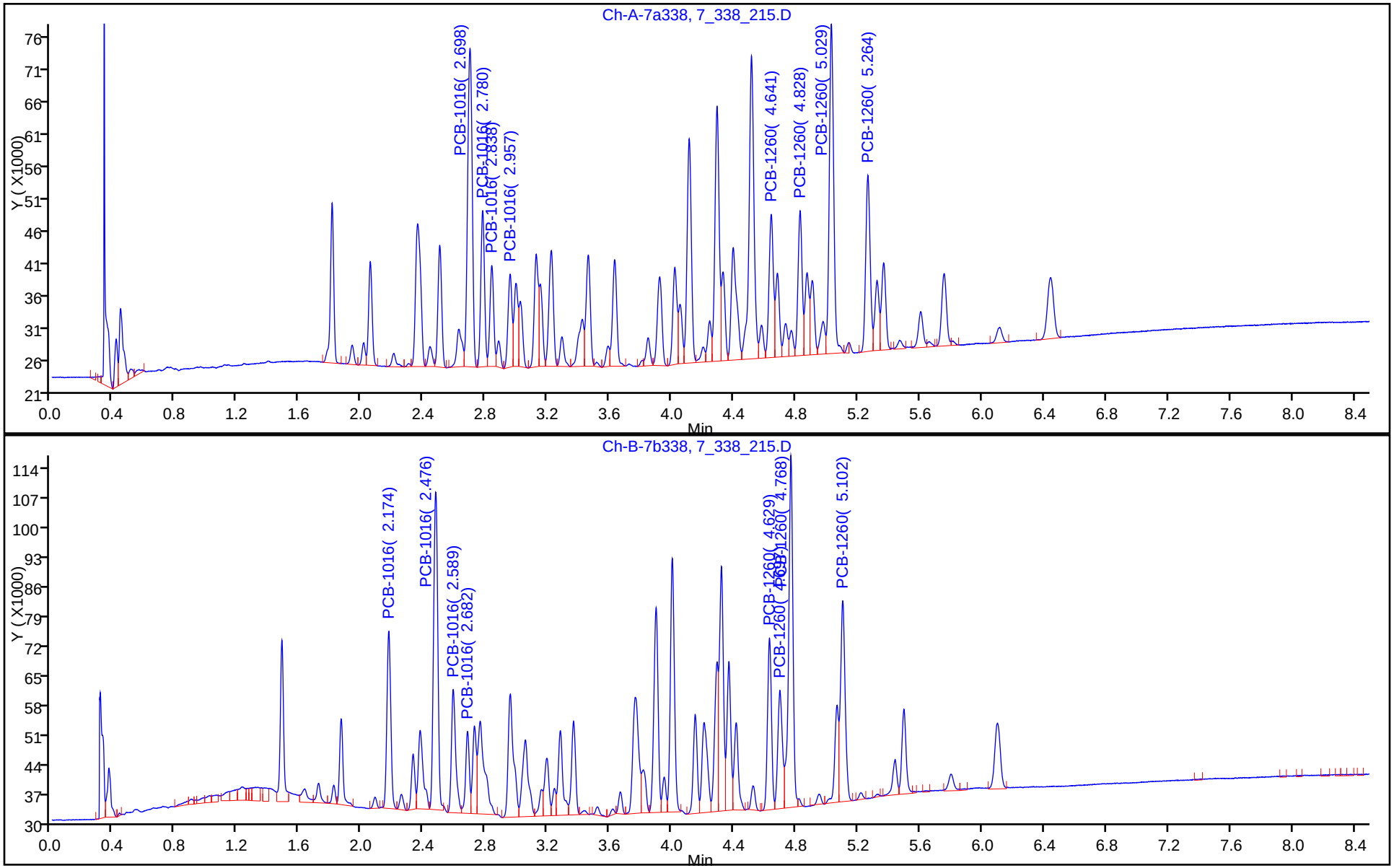
AR1660 2.0 ng_00017 Amount Added: 0.03 Units: mL

Report Date: 10-Jul-2014 07:29:28 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_215.D

Injection Date:	09-Jul-2014 13:40:21	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		

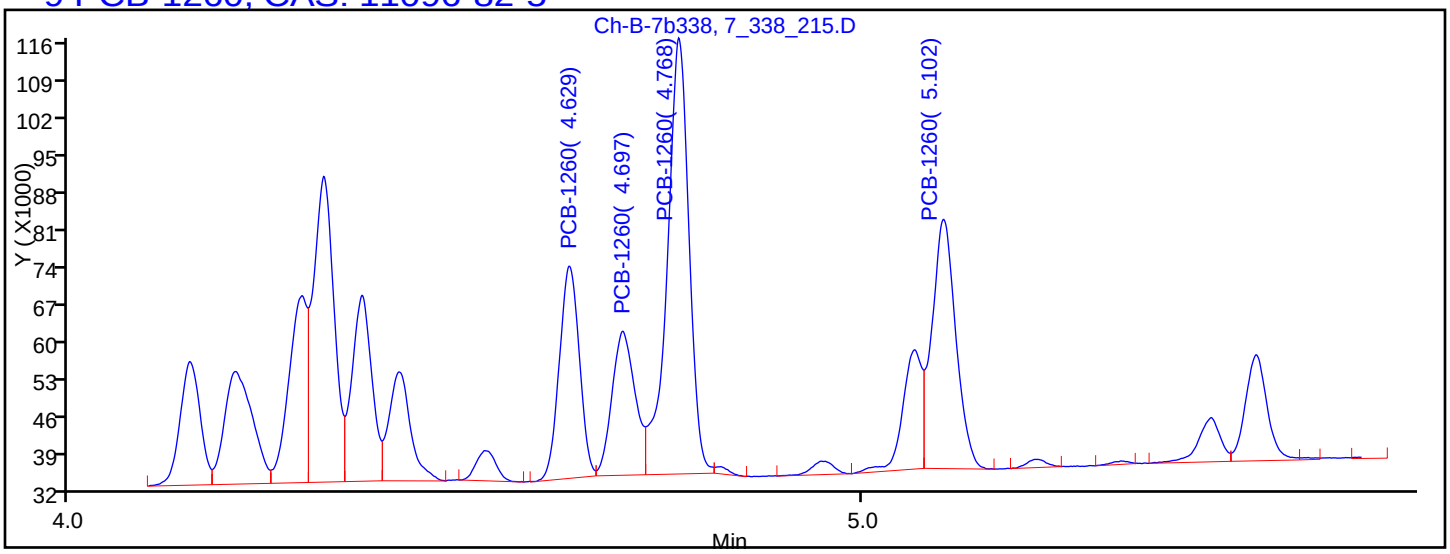


Report Date: 10-Jul-2014 07:29:28 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

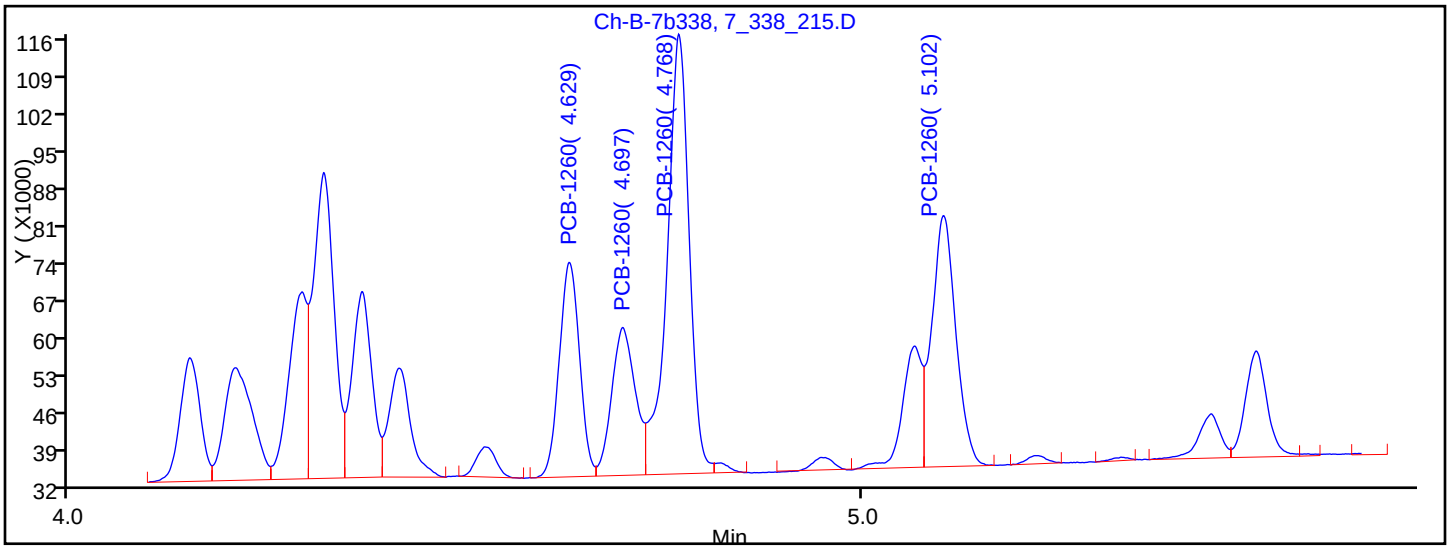
Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_215.D
Injection Date: 09-Jul-2014 13:40:21 Instrument ID: HP6890-7
Lims ID: STD2
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.629	Response = 70531	M
RT = 4.697	Response = 55272	M
RT = 4.768	Response = 157908	M
RT = 5.102	Response = 98342	



Manual Integration Results

RT = 4.629	Response = 72243	M
RT = 4.697	Response = 58017	M
RT = 4.768	Response = 161454	M
RT = 5.102	Response = 98342	

Reviewer: eversd, 09-Jul-2014 14:15:04
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_216.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 13:56:17 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub1

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:28 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 10-Jul-2014 07:28:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.809	1.809	0.000	16137	0.000500	0.000565	
2	1.484	1.484	0.000	26384	0.000500	0.000637	
						RPD = 12.08	
6 PCB-1016							
1	2.698	2.698	0.000	43432	0.0200	0.0220	
1	2.780	2.780	0.000	17297	0.0200	0.0227	
1	2.838	2.838	0.000	11061	0.0200	0.0217	
1	2.957	2.957	0.000	10699	0.0200	0.0231	
		Average of Peak Amounts =				0.0224	
2	2.173	2.173	0.000	31344	0.0200	0.0231	
2	2.476	2.476	0.000	59805	0.0200	0.0211	
2	2.590	2.590	0.000	23166	0.0200	0.0215	
2	2.681	2.681	0.000	11524	0.0200	0.0190	
		Average of Peak Amounts =				0.0212	
						RPD = 5.41	
9 PCB-1260							
1	4.641	4.641	0.000	17910	0.0200	0.0218	
1	4.827	4.827	0.000	16883	0.0200	0.0213	
1	5.030	5.030	0.000	41141	0.0200	0.0210	
1	5.263	5.263	0.000	23148	0.0200	0.0221	
		Average of Peak Amounts =				0.0215	
2	4.629	4.629	0.000	29515	0.0200	0.0209	
2	4.698	4.698	0.000	22813	0.0200	0.0204	
2	4.768	4.768	0.000	66613	0.0200	0.0207	
2	5.100	5.100	0.000	40369	0.0200	0.0210	
		Average of Peak Amounts =				0.0208	
						RPD = 3.63	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.441	6.441	0.000	11733	0.000500	0.000592	
2	6.100	6.100	0.000	16205	0.000500	0.000564	
						RPD = 4.83	

Reagents:

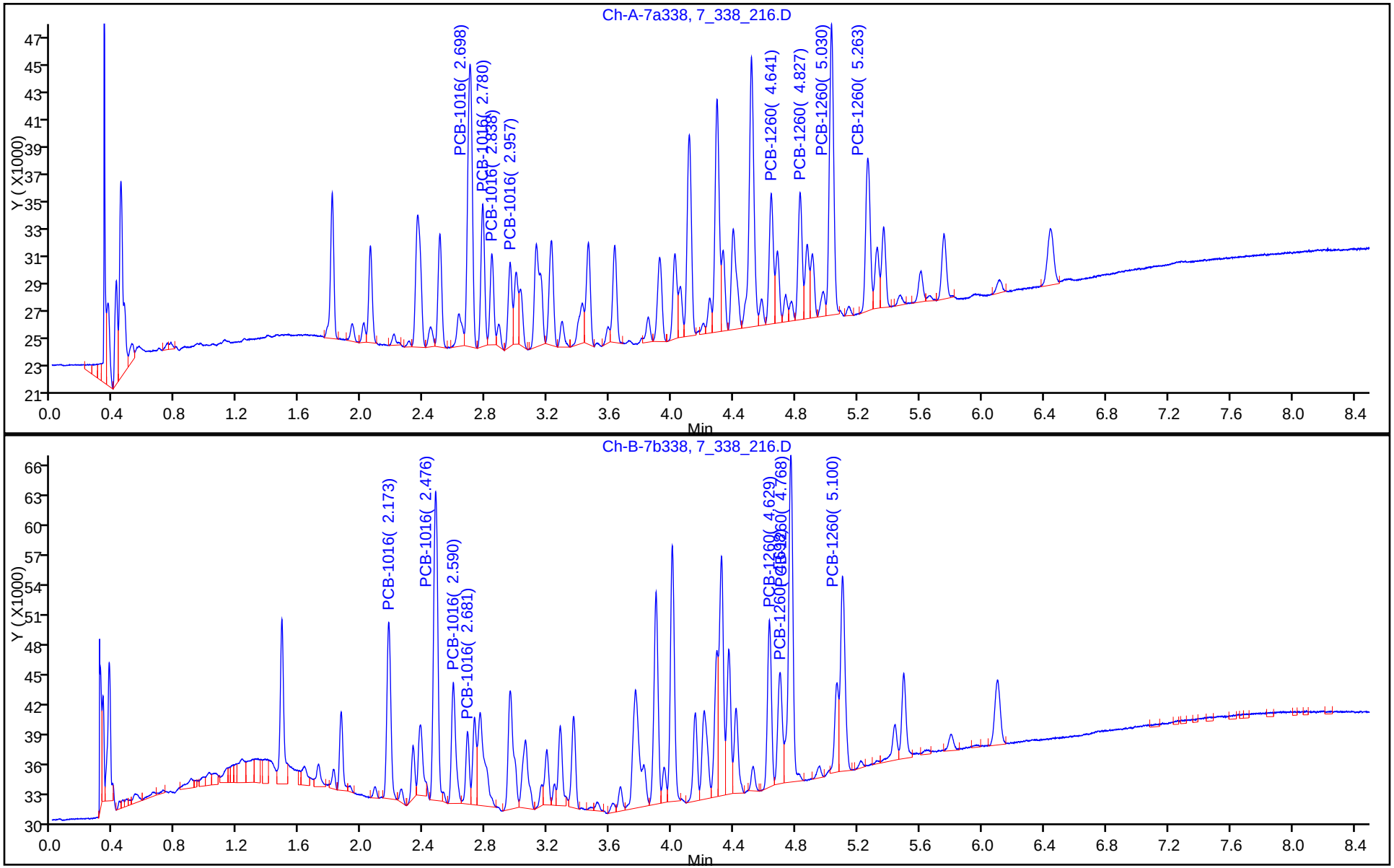
AR1660 2.0 ng_00017 Amount Added: 0.01 Units: mL

Report Date: 10-Jul-2014 07:29:30 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_216.D

Injection Date:	09-Jul-2014 13:56:17	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:28 Calibration End Date: 07/09/2014 14:28 Calibration ID: 19296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-191849/9	7_338_218.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.395										1.365 - 1.425	1.395
PCB-1221 Peak 2	1.640										1.610 - 1.670	1.640
PCB-1221 Peak 3	1.939										1.909 - 1.969	1.939
PCB-1221 Peak 4	2.056										2.026 - 2.086	2.056

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:28 Calibration End Date: 07/09/2014 14:28 Calibration ID: 19296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-191849/9	7_338_218.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	162392				Ave		162392.000						20.0			
PCB-1221 Peak 2	59126				Ave		59126.0000						20.0			
PCB-1221 Peak 3	254178				Ave		254178.000						20.0			
PCB-1221 Peak 4	591386				Ave		591386.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:28 Calibration End Date: 07/09/2014 14:28 Calibration ID: 19296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-191849/9	7_338_218.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	81196					0.500				
PCB-1221 Peak 2	Ave	29563					0.500				
PCB-1221 Peak 3	Ave	127089					0.500				
PCB-1221 Peak 4	Ave	295693					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_218.D
Lims ID: STD21
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 14:28:06 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub2

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:33 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 14:49:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 PCB-1221							
1	1.395	1.395	0.000	81196	0.5000	0.5000	
1	1.640	1.640	0.000	29563	0.5000	0.5000	
1	1.939	1.939	0.000	127089	0.5000	0.5000	
1	2.056	2.056	0.000	295693	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	1.229	1.229	0.000	121474	0.5000	0.5000	
2	1.443	1.443	0.000	40608	0.5000	0.5000	
2	1.720	1.720	0.000	183809	0.5000	0.5000	
2	1.866	1.866	0.000	402034	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

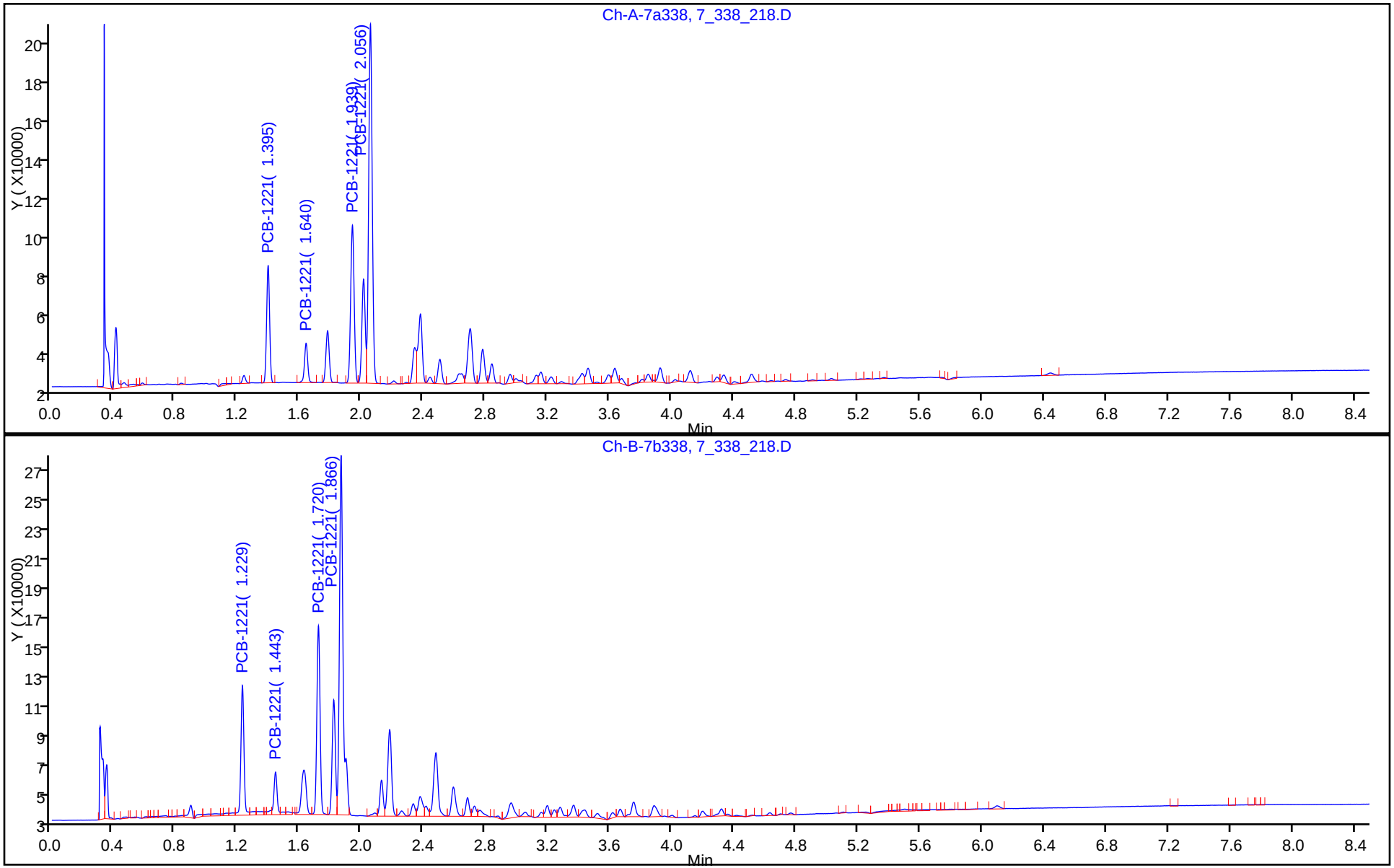
AR1221.5ng_00013 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:34 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_218.D

Injection Date:	09-Jul-2014 14:28:06	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD21			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:28 Calibration End Date: 07/09/2014 14:28 Calibration ID: 19297

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-191849/9	7_338_218.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.229										1.199 - 1.259	1.229
PCB-1221 Peak 2	1.443										1.413 - 1.473	1.443
PCB-1221 Peak 3	1.720										1.690 - 1.750	1.720
PCB-1221 Peak 4	1.866										1.836 - 1.896	1.866

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:28 Calibration End Date: 07/09/2014 14:28 Calibration ID: 19297

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-191849/9	7_338_218.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	242948				Ave		242948.000						20.0			
PCB-1221 Peak 2	81216				Ave		81216.0000						20.0			
PCB-1221 Peak 3	367618				Ave		367618.000						20.0			
PCB-1221 Peak 4	804068				Ave		804068.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:28 Calibration End Date: 07/09/2014 14:28 Calibration ID: 19297

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-191849/9	7_338_218.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	121474					0.500				
PCB-1221 Peak 2	Ave	40608					0.500				
PCB-1221 Peak 3	Ave	183809					0.500				
PCB-1221 Peak 4	Ave	402034					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_218.D
Lims ID: STD21
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 14:28:06 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub2

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:33 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 14:49:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 PCB-1221							
1	1.395	1.395	0.000	81196	0.5000	0.5000	
1	1.640	1.640	0.000	29563	0.5000	0.5000	
1	1.939	1.939	0.000	127089	0.5000	0.5000	
1	2.056	2.056	0.000	295693	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	1.229	1.229	0.000	121474	0.5000	0.5000	
2	1.443	1.443	0.000	40608	0.5000	0.5000	
2	1.720	1.720	0.000	183809	0.5000	0.5000	
2	1.866	1.866	0.000	402034	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

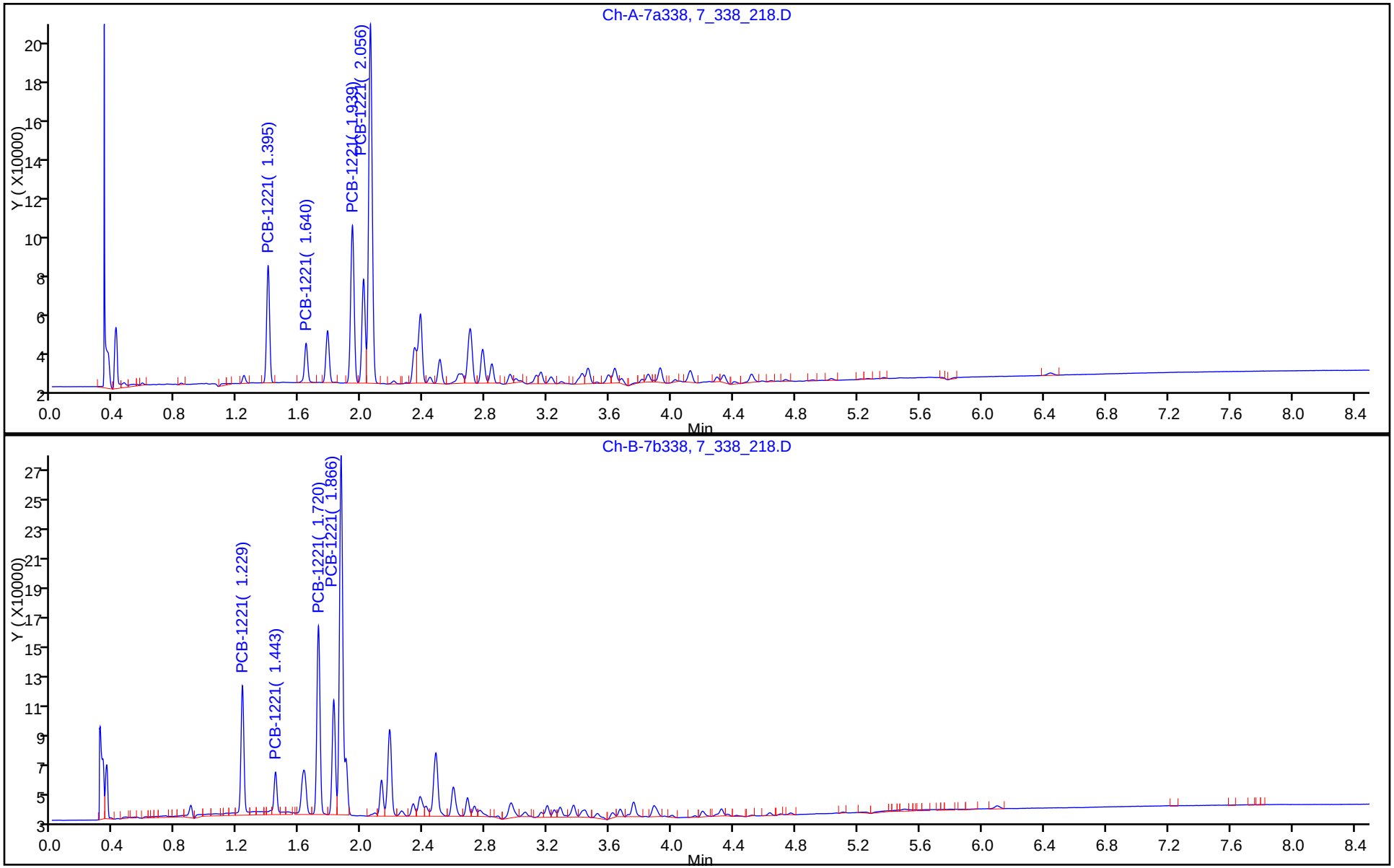
AR1221.5ng_00013 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:34 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_218.D

Injection Date:	09-Jul-2014 14:28:06	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD21			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:59 Calibration End Date: 07/09/2014 14:59 Calibration ID: 19302

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-191849/11	7_338_220.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	2.363										2.333 - 2.393	2.363
PCB-1232 Peak 2	2.698										2.668 - 2.728	2.698
PCB-1232 Peak 3	2.780										2.750 - 2.810	2.780
PCB-1232 Peak 4	2.839										2.809 - 2.869	2.839

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:59 Calibration End Date: 07/09/2014 14:59 Calibration ID: 19302

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-191849/11	7_338_220.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	493972				Ave		493972.000						20.0			
PCB-1232 Peak 2	963432				Ave		963432.000						20.0			
PCB-1232 Peak 3	376158				Ave		376158.000						20.0			
PCB-1232 Peak 4	252780				Ave		252780.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:59 Calibration End Date: 07/09/2014 14:59 Calibration ID: 19302

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-191849/11	7_338_220.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	246986					0.500				
PCB-1232 Peak 2	Ave	481716					0.500				
PCB-1232 Peak 3	Ave	188079					0.500				
PCB-1232 Peak 4	Ave	126390					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_220.D
Lims ID: STD32
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 14:59:56 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub3

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:38 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 15:13:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
5 PCB-1232							
1	2.363	2.363	0.000	246986	0.5000	0.5000	a
1	2.698	2.698	0.000	481716	0.5000	0.5000	
1	2.780	2.780	0.000	188079	0.5000	0.5000	
1	2.839	2.839	0.000	126390	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	2.175	2.175	0.000	356755	0.5000	0.5000	
2	2.477	2.477	0.000	697817	0.5000	0.5000	
2	2.590	2.590	0.000	258643	0.5000	0.5000	
2	2.683	2.683	0.000	145394	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

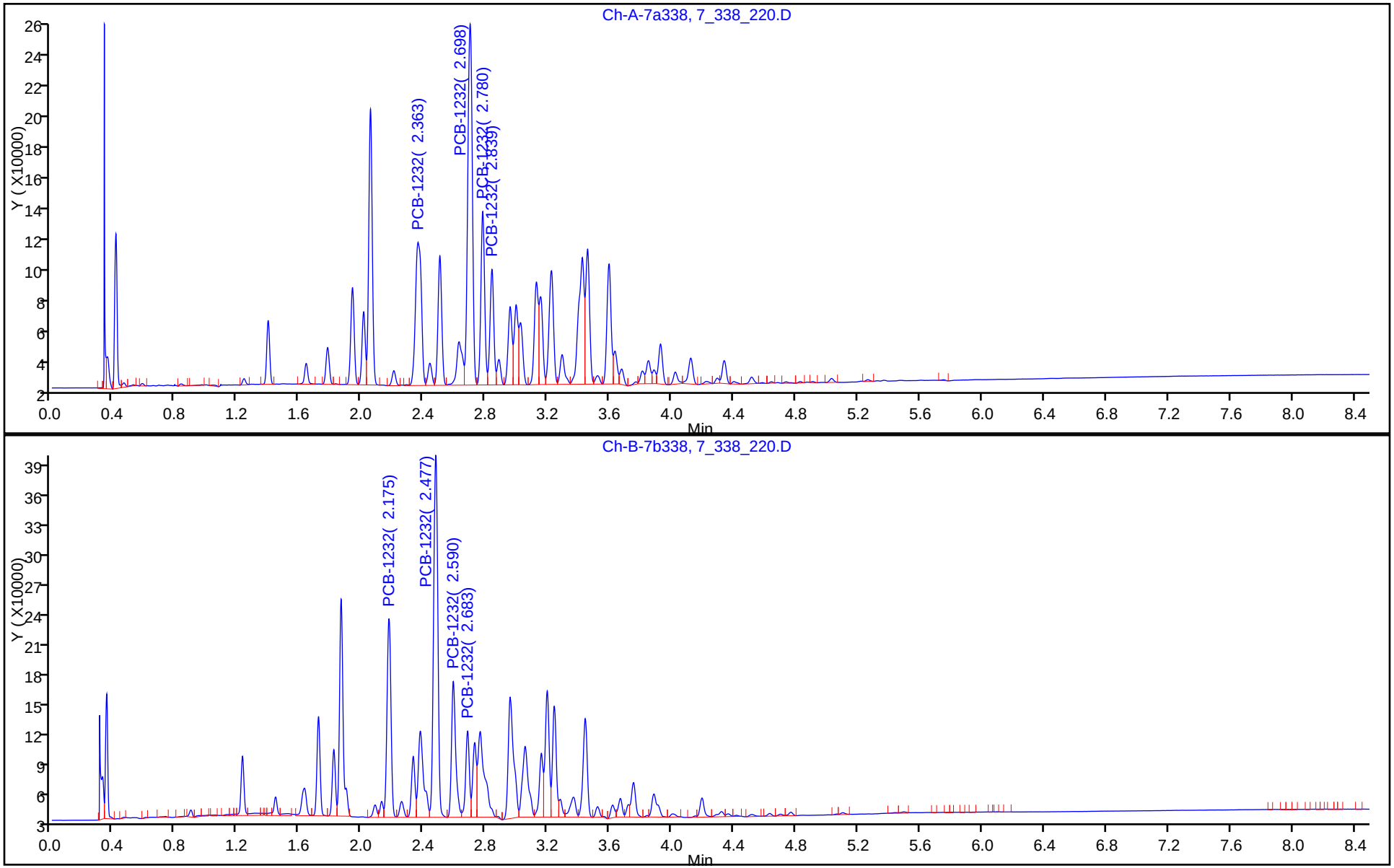
AR1232.5ng_00006 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:39 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_220.D

Injection Date:	09-Jul-2014 14:59:56	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD32			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:59 Calibration End Date: 07/09/2014 14:59 Calibration ID: 19303

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-191849/11	7_338_220.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	2.175										2.145 - 2.205	2.175
PCB-1232 Peak 2	2.477										2.447 - 2.507	2.477
PCB-1232 Peak 3	2.590										2.560 - 2.620	2.590
PCB-1232 Peak 4	2.683										2.653 - 2.713	2.683

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:59 Calibration End Date: 07/09/2014 14:59 Calibration ID: 19303

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-191849/11	7_338_220.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	713510				Ave		713510.000						20.0			
PCB-1232 Peak 2	1395634				Ave		1395634.00						20.0			
PCB-1232 Peak 3	517286				Ave		517286.000						20.0			
PCB-1232 Peak 4	290788				Ave		290788.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 14:59 Calibration End Date: 07/09/2014 14:59 Calibration ID: 19303

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-191849/11	7_338_220.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	356755					0.500				
PCB-1232 Peak 2	Ave	697817					0.500				
PCB-1232 Peak 3	Ave	258643					0.500				
PCB-1232 Peak 4	Ave	145394					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_220.D
Lims ID: STD32
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 14:59:56 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub3

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:38 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 09-Jul-2014 15:13:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
5 PCB-1232							
1	2.363	2.363	0.000	246986	0.5000	0.5000	a
1	2.698	2.698	0.000	481716	0.5000	0.5000	
1	2.780	2.780	0.000	188079	0.5000	0.5000	
1	2.839	2.839	0.000	126390	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	2.175	2.175	0.000	356755	0.5000	0.5000	
2	2.477	2.477	0.000	697817	0.5000	0.5000	
2	2.590	2.590	0.000	258643	0.5000	0.5000	
2	2.683	2.683	0.000	145394	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

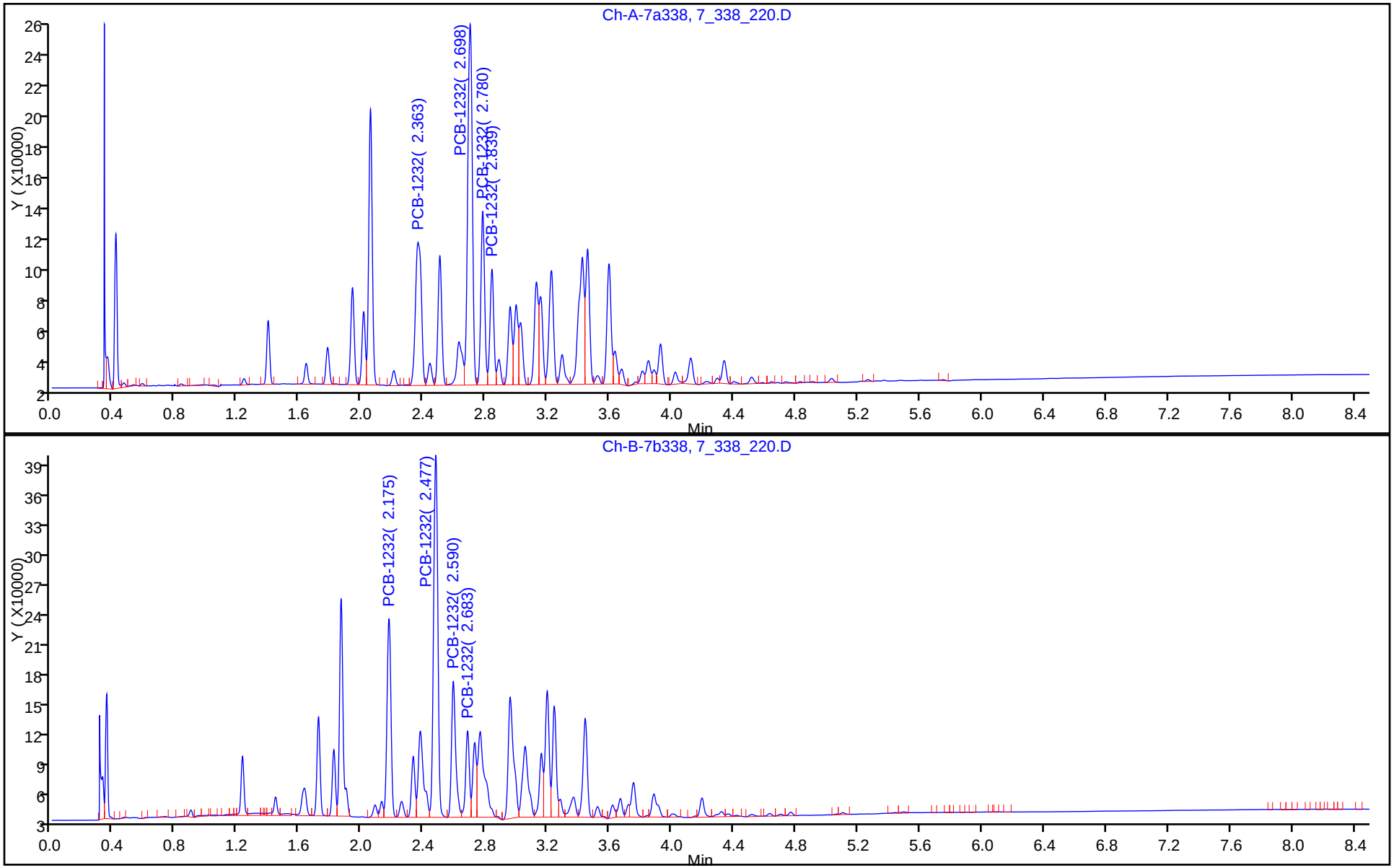
AR1232.5ng_00006 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:39 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_220.D

Injection Date:	09-Jul-2014 14:59:56	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD32			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 15:31 Calibration End Date: 07/09/2014 15:31 Calibration ID: 19308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-191849/13	7_338_222.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	2.362										2.332 - 2.392	2.362
PCB-1242 Peak 2	2.698										2.668 - 2.728	2.698
PCB-1242 Peak 3	2.779										2.749 - 2.809	2.779
PCB-1242 Peak 4	2.838										2.808 - 2.868	2.838

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 15:31 Calibration End Date: 07/09/2014 15:31 Calibration ID: 19308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-191849/13	7_338_222.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	780732				Ave		780732.000						20.0			
PCB-1242 Peak 2	1722338				Ave		1722338.00						20.0			
PCB-1242 Peak 3	653038				Ave		653038.000						20.0			
PCB-1242 Peak 4	442738				Ave		442738.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 15:31 Calibration End Date: 07/09/2014 15:31 Calibration ID: 19308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-191849/13	7_338_222.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	390366					0.500				
PCB-1242 Peak 2	Ave	861169					0.500				
PCB-1242 Peak 3	Ave	326519					0.500				
PCB-1242 Peak 4	Ave	221369					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_222.D
Lims ID: STD42
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 15:31:38 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub4

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:43 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
4 PCB-1242							
1	2.362	2.362	0.000	390366	0.5000	0.5000	
1	2.698	2.698	0.000	861169	0.5000	0.5000	
1	2.779	2.779	0.000	326519	0.5000	0.5000	
1	2.838	2.838	0.000	221369	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	2.175	2.175	0.000	582624	0.5000	0.5000	
2	2.478	2.478	0.000	1256638	0.5000	0.5000	
2	2.590	2.590	0.000	466883	0.5000	0.5000	
2	2.683	2.683	0.000	279553	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

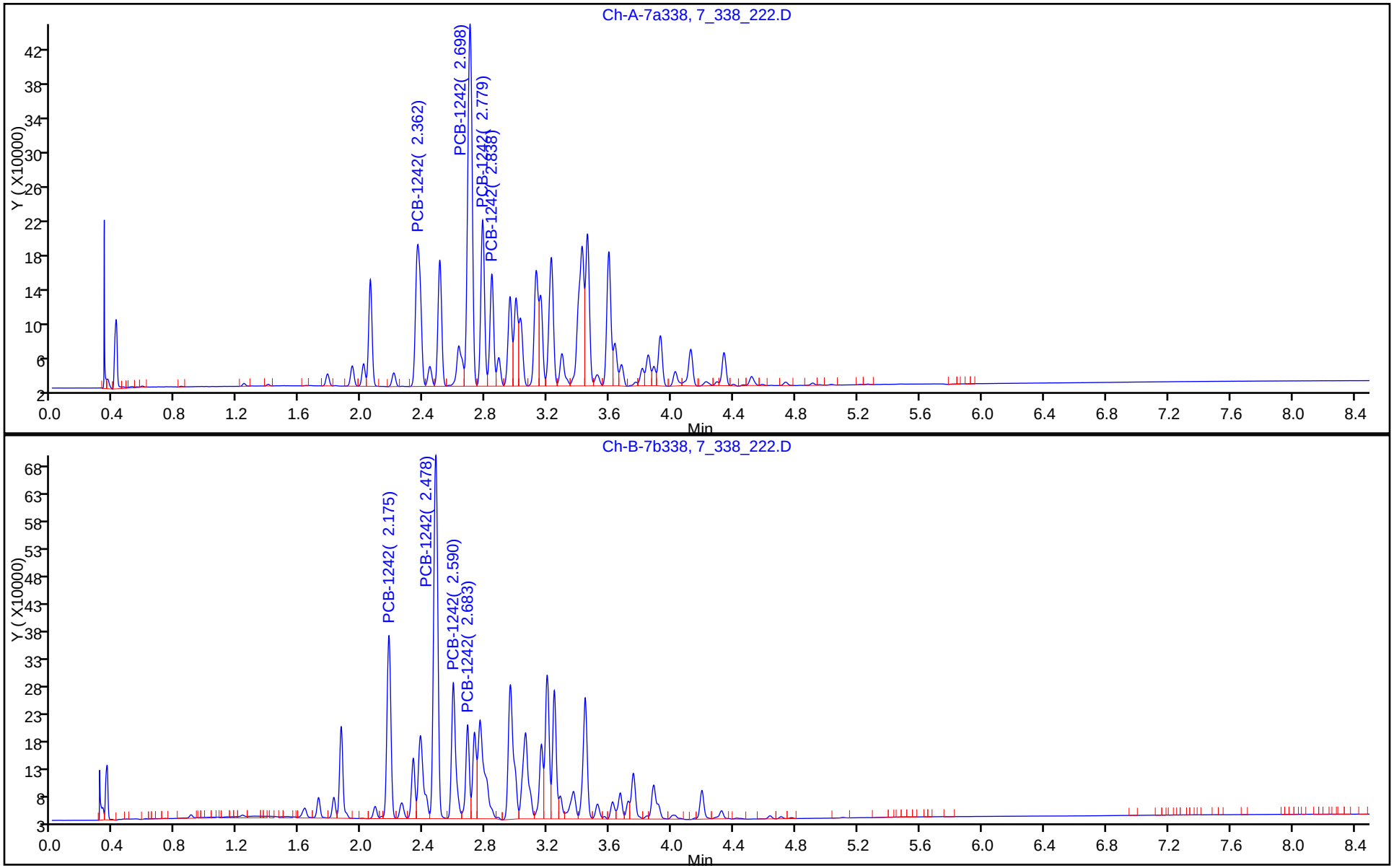
AR1242.5ng_00008 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:44 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_222.D

Injection Date:	09-Jul-2014 15:31:38	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD42			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 15:31 Calibration End Date: 07/09/2014 15:31 Calibration ID: 19309

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-191849/13	7_338_222.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	2.175										2.145 - 2.205	2.175
PCB-1242 Peak 2	2.478										2.448 - 2.508	2.478
PCB-1242 Peak 3	2.590										2.560 - 2.620	2.590
PCB-1242 Peak 4	2.683										2.653 - 2.713	2.683

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 15:31 Calibration End Date: 07/09/2014 15:31 Calibration ID: 19309

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-191849/13	7_338_222.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	1165248				Ave		1165248.00						20.0			
PCB-1242 Peak 2	2513276				Ave		2513276.00						20.0			
PCB-1242 Peak 3	933766				Ave		933766.000						20.0			
PCB-1242 Peak 4	559106				Ave		559106.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 15:31 Calibration End Date: 07/09/2014 15:31 Calibration ID: 19309

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-191849/13	7_338_222.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	582624					0.500				
PCB-1242 Peak 2	Ave	1256638					0.500				
PCB-1242 Peak 3	Ave	466883					0.500				
PCB-1242 Peak 4	Ave	279553					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_222.D
Lims ID: STD42
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 15:31:38 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub4

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:43 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
4 PCB-1242							
1	2.362	2.362	0.000	390366	0.5000	0.5000	
1	2.698	2.698	0.000	861169	0.5000	0.5000	
1	2.779	2.779	0.000	326519	0.5000	0.5000	
1	2.838	2.838	0.000	221369	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	2.175	2.175	0.000	582624	0.5000	0.5000	
2	2.478	2.478	0.000	1256638	0.5000	0.5000	
2	2.590	2.590	0.000	466883	0.5000	0.5000	
2	2.683	2.683	0.000	279553	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

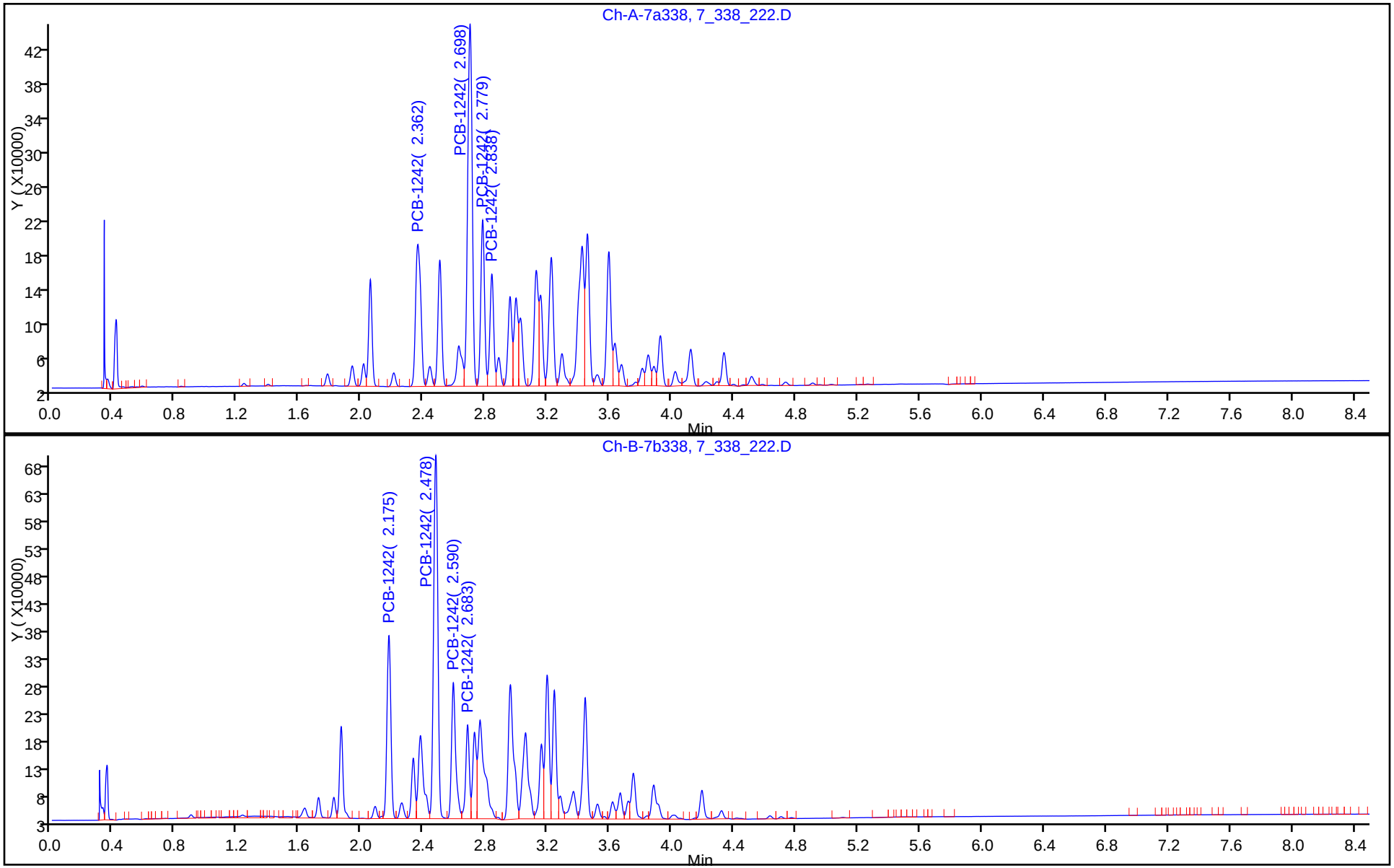
AR1242.5ng_00008 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:44 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_222.D

Injection Date:	09-Jul-2014 15:31:38	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD42			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:03 Calibration End Date: 07/09/2014 16:03 Calibration ID: 19314

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-191849/15	7_338_224.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	3.126										3.096 - 3.156	3.126
PCB-1248 Peak 2	3.222										3.192 - 3.252	3.222
PCB-1248 Peak 3	3.423										3.393 - 3.453	3.423
PCB-1248 Peak 4	3.593										3.563 - 3.623	3.593

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:03 Calibration End Date: 07/09/2014 16:03 Calibration ID: 19314

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-191849/15	7_338_224.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	1137602				Ave		1137602.00						20.0			
PCB-1248 Peak 2	926084				Ave		926084.000						20.0			
PCB-1248 Peak 3	1486640				Ave		1486640.00						20.0			
PCB-1248 Peak 4	955360				Ave		955360.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:03 Calibration End Date: 07/09/2014 16:03 Calibration ID: 19314

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-191849/15	7_338_224.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	568801					0.500				
PCB-1248 Peak 2	Ave	463042					0.500				
PCB-1248 Peak 3	Ave	743320					0.500				
PCB-1248 Peak 4	Ave	477680					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_224.D
Lims ID: STD48
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 16:03:16 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub5

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:47 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
7 PCB-1248							
1	3.126	3.126	0.000	568801	0.5000	0.5000	
1	3.222	3.222	0.000	463042	0.5000	0.5000	
1	3.423	3.423	0.000	743320	0.5000	0.5000	
1	3.593	3.593	0.000	477680	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	2.957	2.957	0.000	820937	0.5000	0.5000	
2	3.055	3.055	0.000	618455	0.5000	0.5000	
2	3.197	3.197	0.000	839686	0.5000	0.5000	
2	3.243	3.243	0.000	638444	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

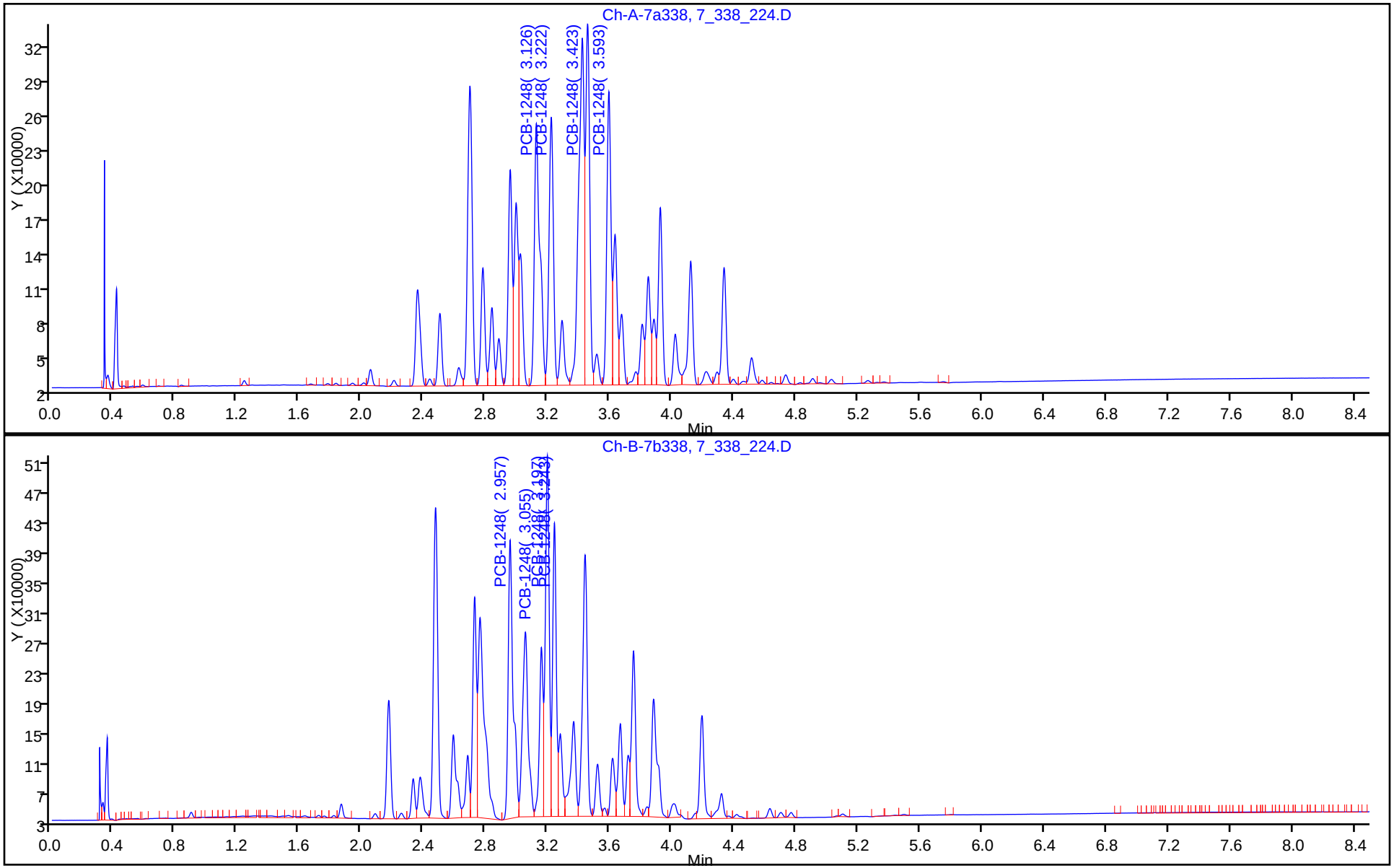
AR1248.5ng_00003 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:48 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_224.D

Injection Date:	09-Jul-2014 16:03:16	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD48			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:03 Calibration End Date: 07/09/2014 16:03 Calibration ID: 19315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-191849/15	7_338_224.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	2.957										2.927 - 2.987	2.957
PCB-1248 Peak 2	3.055										3.025 - 3.085	3.055
PCB-1248 Peak 3	3.197										3.167 - 3.227	3.197
PCB-1248 Peak 4	3.243										3.213 - 3.273	3.243

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:03 Calibration End Date: 07/09/2014 16:03 Calibration ID: 19315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-191849/15	7_338_224.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	1641874				Ave		1641874.00						20.0			
PCB-1248 Peak 2	1236910				Ave		1236910.00						20.0			
PCB-1248 Peak 3	1679372				Ave		1679372.00						20.0			
PCB-1248 Peak 4	1276888				Ave		1276888.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:03 Calibration End Date: 07/09/2014 16:03 Calibration ID: 19315

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-191849/15	7_338_224.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	820937					0.500				
PCB-1248 Peak 2	Ave	618455					0.500				
PCB-1248 Peak 3	Ave	839686					0.500				
PCB-1248 Peak 4	Ave	638444					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_224.D
Lims ID: STD48
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 16:03:16 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub5

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:47 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
7 PCB-1248							
1	3.126	3.126	0.000	568801	0.5000	0.5000	
1	3.222	3.222	0.000	463042	0.5000	0.5000	
1	3.423	3.423	0.000	743320	0.5000	0.5000	
1	3.593	3.593	0.000	477680	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	2.957	2.957	0.000	820937	0.5000	0.5000	
2	3.055	3.055	0.000	618455	0.5000	0.5000	
2	3.197	3.197	0.000	839686	0.5000	0.5000	
2	3.243	3.243	0.000	638444	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

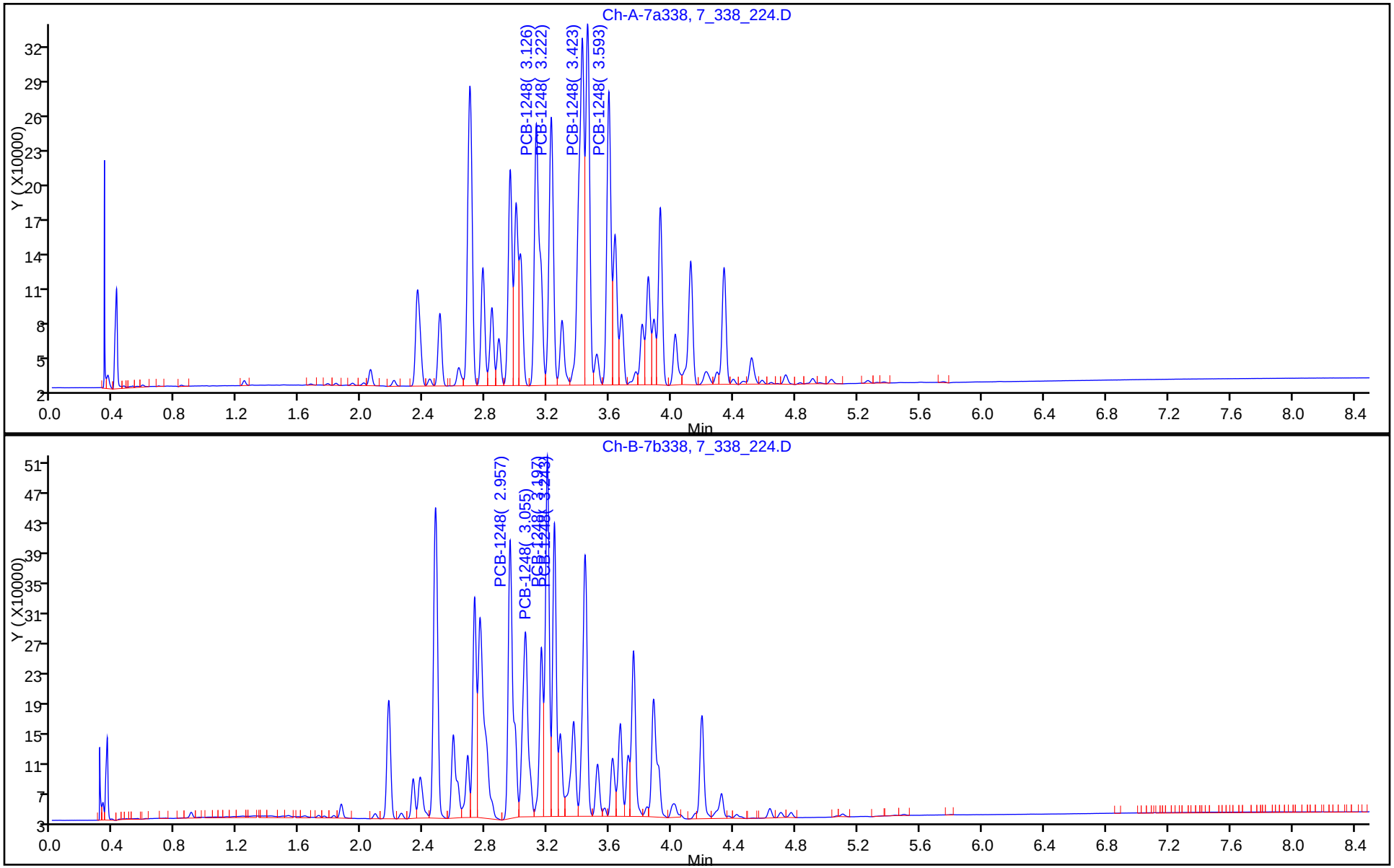
AR1248.5ng_00003 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:48 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_224.D

Injection Date:	09-Jul-2014 16:03:16	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD48			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:35 Calibration End Date: 07/09/2014 16:35 Calibration ID: 19320

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-191849/17	7_338_226.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1254 Peak 1	3.848										3.818 - 3.878	3.848
PCB-1254 Peak 2	3.926										3.896 - 3.956	3.926
PCB-1254 Peak 3	4.023										3.993 - 4.053	4.023
PCB-1254 Peak 4	4.121										4.091 - 4.151	4.121

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:35 Calibration End Date: 07/09/2014 16:35 Calibration ID: 19320

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-191849/17	7_338_226.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1254 Peak 1	939902				Ave		939902.000						20.0			
PCB-1254 Peak 2	1708010				Ave		1708010.00						20.0			
PCB-1254 Peak 3	324282				Ave		324282.000						20.0			
PCB-1254 Peak 4	1734736				Ave		1734736.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:35 Calibration End Date: 07/09/2014 16:35 Calibration ID: 19320

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-191849/17	7_338_226.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1254 Peak 1	Ave	469951					0.500				
PCB-1254 Peak 2	Ave	854005					0.500				
PCB-1254 Peak 3	Ave	162141					0.500				
PCB-1254 Peak 4	Ave	867368					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_226.D
Lims ID: STD54
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 16:35:07 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub6

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:52 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.848	3.848	0.000	469951	0.5000	0.5000	
1	3.926	3.926	0.000	854005	0.5000	0.5000	
1	4.023	4.023	0.000	162141	0.5000	0.5000	
1	4.121	4.121	0.000	867368	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.668	3.668	0.000	612964	0.5000	0.5000	
2	3.754	3.754	0.000	1496811	0.5000	0.5000	
2	3.886	3.886	0.000	1357398	0.5000	0.5000	
2	4.004	4.004	0.000	505734	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

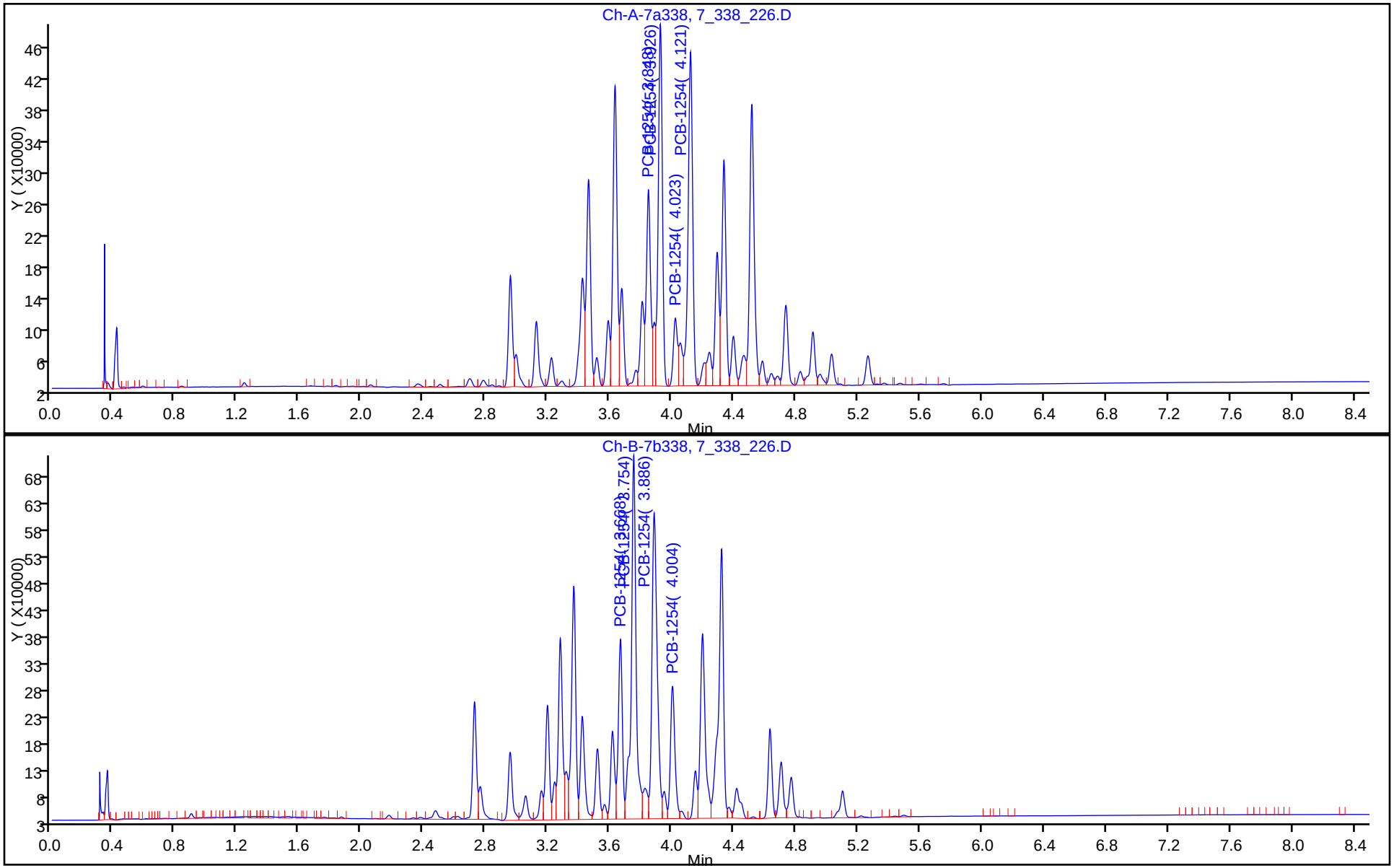
AR1254 STD_00010 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:52 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_226.D

Injection Date:	09-Jul-2014 16:35:07	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD54			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:35 Calibration End Date: 07/09/2014 16:35 Calibration ID: 19321

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-191849/17	7_338_226.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1254 Peak 1	3.668										3.638 - 3.698	3.668
PCB-1254 Peak 2	3.754										3.724 - 3.784	3.754
PCB-1254 Peak 3	3.886										3.856 - 3.916	3.886
PCB-1254 Peak 4	4.004										3.974 - 4.034	4.004

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:35 Calibration End Date: 07/09/2014 16:35 Calibration ID: 19321

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-191849/17	7_338_226.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1254 Peak 1	1225928				Ave		1225928.00						20.0			
PCB-1254 Peak 2	2993622				Ave		2993622.00						20.0			
PCB-1254 Peak 3	2714796				Ave		2714796.00						20.0			
PCB-1254 Peak 4	1011468				Ave		1011468.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 16:35 Calibration End Date: 07/09/2014 16:35 Calibration ID: 19321

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-191849/17	7_338_226.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1254 Peak 1	Ave	612964					0.500				
PCB-1254 Peak 2	Ave	1496811					0.500				
PCB-1254 Peak 3	Ave	1357398					0.500				
PCB-1254 Peak 4	Ave	505734					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_226.D
Lims ID: STD54
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 16:35:07 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub6

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:52 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.848	3.848	0.000	469951	0.5000	0.5000	
1	3.926	3.926	0.000	854005	0.5000	0.5000	
1	4.023	4.023	0.000	162141	0.5000	0.5000	
1	4.121	4.121	0.000	867368	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	3.668	3.668	0.000	612964	0.5000	0.5000	
2	3.754	3.754	0.000	1496811	0.5000	0.5000	
2	3.886	3.886	0.000	1357398	0.5000	0.5000	
2	4.004	4.004	0.000	505734	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

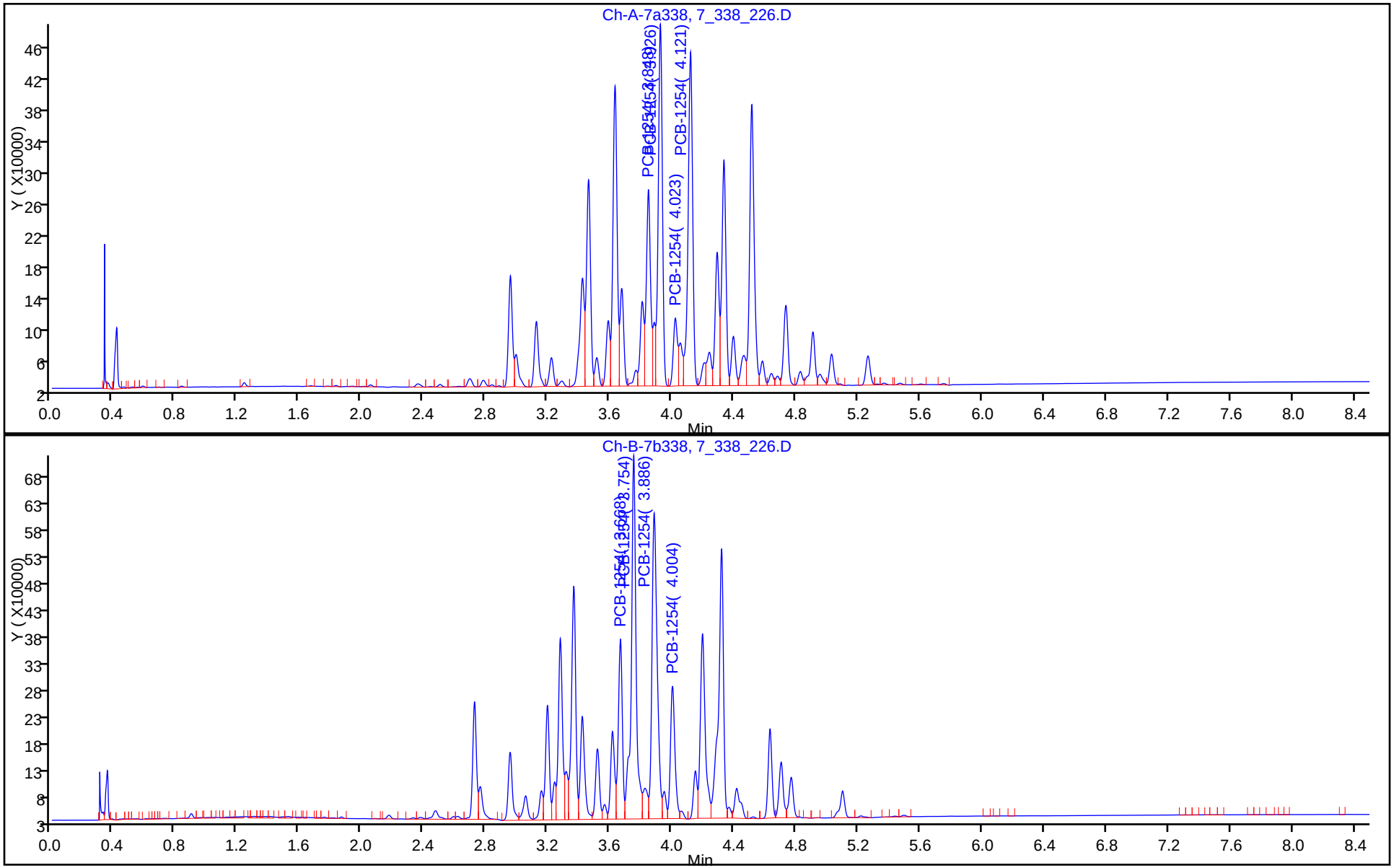
AR1254 STD_00010 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:53 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_226.D

Injection Date:	09-Jul-2014 16:35:07	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD54			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:06 Calibration End Date: 07/09/2014 17:06 Calibration ID: 19326

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD62 480-191849/19	7_338_228.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1262 Peak 1	4.642										4.612 - 4.672	4.642
PCB-1262 Peak 2	4.827										4.797 - 4.857	4.827
PCB-1262 Peak 3	5.029										4.999 - 5.059	5.029
PCB-1262 Peak 4	5.265										5.235 - 5.295	5.265

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:06 Calibration End Date: 07/09/2014 17:06 Calibration ID: 19326

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD62 480-191849/19	7_338_228.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1262 Peak 1	1560826				Ave		1560826.00						20.0			
PCB-1262 Peak 2	1184692				Ave		1184692.00						20.0			
PCB-1262 Peak 3	2788214				Ave		2788214.00						20.0			
PCB-1262 Peak 4	891572				Ave		891572.000						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:06 Calibration End Date: 07/09/2014 17:06 Calibration ID: 19326

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD62 480-191849/19	7_338_228.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1262 Peak 1	Ave	780413					0.500				
PCB-1262 Peak 2	Ave	592346					0.500				
PCB-1262 Peak 3	Ave	1394107					0.500				
PCB-1262 Peak 4	Ave	445786					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_228.D
Lims ID: STD62
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 17:06:49 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub7

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:56 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 10-Jul-2014 06:48:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							
1	4.642	4.642	0.000	780413	0.5000	0.5000	
1	4.827	4.827	0.000	592346	0.5000	0.5000	
1	5.029	5.029	0.000	1394107	0.5000	0.5000	
1	5.265	5.265	0.000	445786	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.414	4.414	0.000	450459	0.5000	0.5000	
2	4.628	4.628	0.000	1014359	0.5000	0.5000	
2	4.698	4.698	0.000	618877	0.5000	0.5000	
2	4.767	4.767	0.000	2246222	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

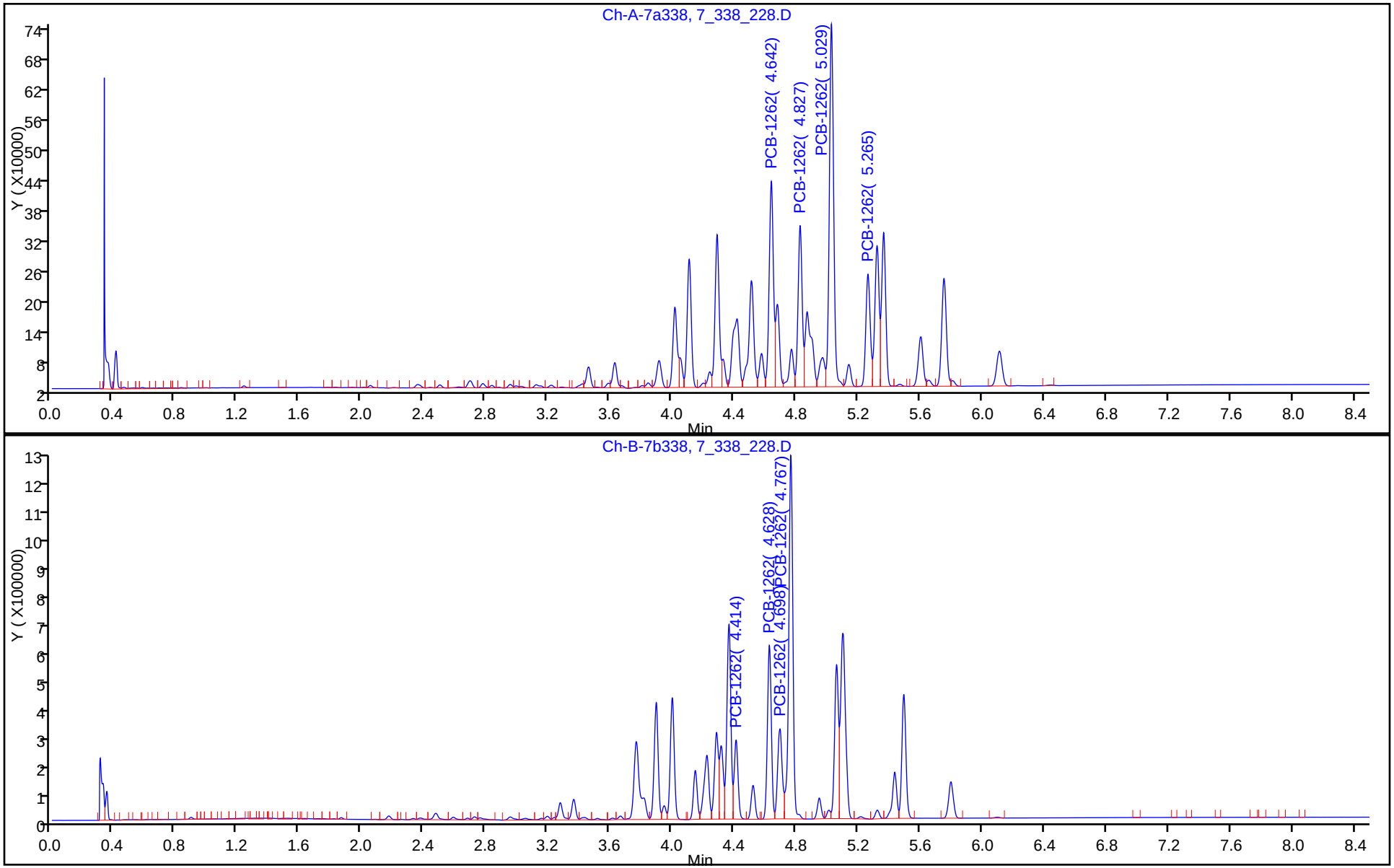
AR1262.5ng_00004 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:57 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_228.D

Injection Date:	09-Jul-2014 17:06:49	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD62			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:06 Calibration End Date: 07/09/2014 17:06 Calibration ID: 19327

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD62 480-191849/19	7_338_228.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1262 Peak 1	4.414										4.384 - 4.444	4.414
PCB-1262 Peak 2	4.628										4.598 - 4.658	4.628
PCB-1262 Peak 3	4.698										4.668 - 4.728	4.698
PCB-1262 Peak 4	4.767										4.737 - 4.797	4.767

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:06 Calibration End Date: 07/09/2014 17:06 Calibration ID: 19327

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD62 480-191849/19	7_338_228.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1262 Peak 1	900918				Ave		900918.000						20.0			
PCB-1262 Peak 2	2028718				Ave		2028718.00						20.0			
PCB-1262 Peak 3	1237754				Ave		1237754.00						20.0			
PCB-1262 Peak 4	4492444				Ave		4492444.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:06 Calibration End Date: 07/09/2014 17:06 Calibration ID: 19327

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD62 480-191849/19	7_338_228.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1262 Peak 1	Ave	450459					0.500				
PCB-1262 Peak 2	Ave	1014359					0.500				
PCB-1262 Peak 3	Ave	618877					0.500				
PCB-1262 Peak 4	Ave	2246222					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_228.D
Lims ID: STD62
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 17:06:49 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub7

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:29:56 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 10-Jul-2014 06:48:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							
1	4.642	4.642	0.000	780413	0.5000	0.5000	
1	4.827	4.827	0.000	592346	0.5000	0.5000	
1	5.029	5.029	0.000	1394107	0.5000	0.5000	
1	5.265	5.265	0.000	445786	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	4.414	4.414	0.000	450459	0.5000	0.5000	
2	4.628	4.628	0.000	1014359	0.5000	0.5000	
2	4.698	4.698	0.000	618877	0.5000	0.5000	
2	4.767	4.767	0.000	2246222	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

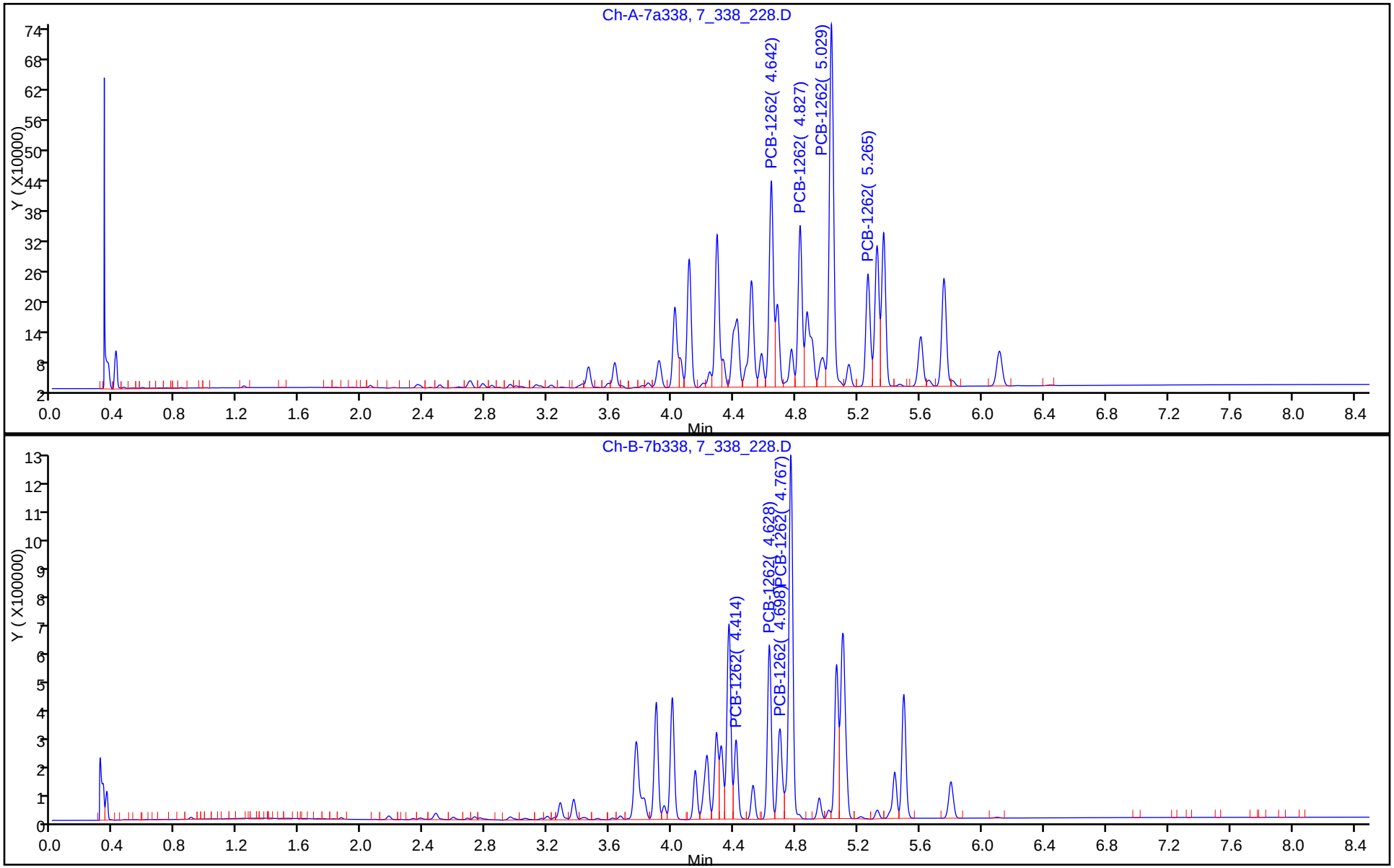
AR1262.5ng_00004 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:29:57 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_228.D

Injection Date:	09-Jul-2014 17:06:49	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD62			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:38 Calibration End Date: 07/09/2014 17:38 Calibration ID: 19332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD68 480-191849/21	7_338_230.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1268 Peak 1	5.591										5.561 - 5.621	5.591
PCB-1268 Peak 2	5.658										5.628 - 5.688	5.658
PCB-1268 Peak 3	5.755										5.725 - 5.785	5.755
PCB-1268 Peak 4	6.114										6.084 - 6.144	6.114

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:38 Calibration End Date: 07/09/2014 17:38 Calibration ID: 19332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD68 480-191849/21	7_338_230.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1268 Peak 1	2542908				Ave		2542908.00						20.0			
PCB-1268 Peak 2	615284				Ave		615284.000						20.0			
PCB-1268 Peak 3	1057172				Ave		1057172.00						20.0			
PCB-1268 Peak 4	8465784				Ave		8465784.00						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:38 Calibration End Date: 07/09/2014 17:38 Calibration ID: 19332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD68 480-191849/21	7_338_230.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1268 Peak 1	Ave	1271454					0.500				
PCB-1268 Peak 2	Ave	307642					0.500				
PCB-1268 Peak 3	Ave	528586					0.500				
PCB-1268 Peak 4	Ave	4232892					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D
Lims ID: STD68
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 17:38:38 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub8

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:30:02 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1268							
1	5.591	5.591	0.000	1271454	0.5000	0.5000	
1	5.658	5.658	0.000	307642	0.5000	0.5000	
1	5.755	5.755	0.000	528586	0.5000	0.5000	
1	6.114	6.114	0.000	4232892	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	5.802	5.802	0.000	6505324	0.5000	0.5000	
2	5.497	5.497	0.000	835070	0.5000	0.5000	
2	5.328	5.328	0.000	1938368	0.5000	0.5000	
2	5.100	5.100	0.000	2255182	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

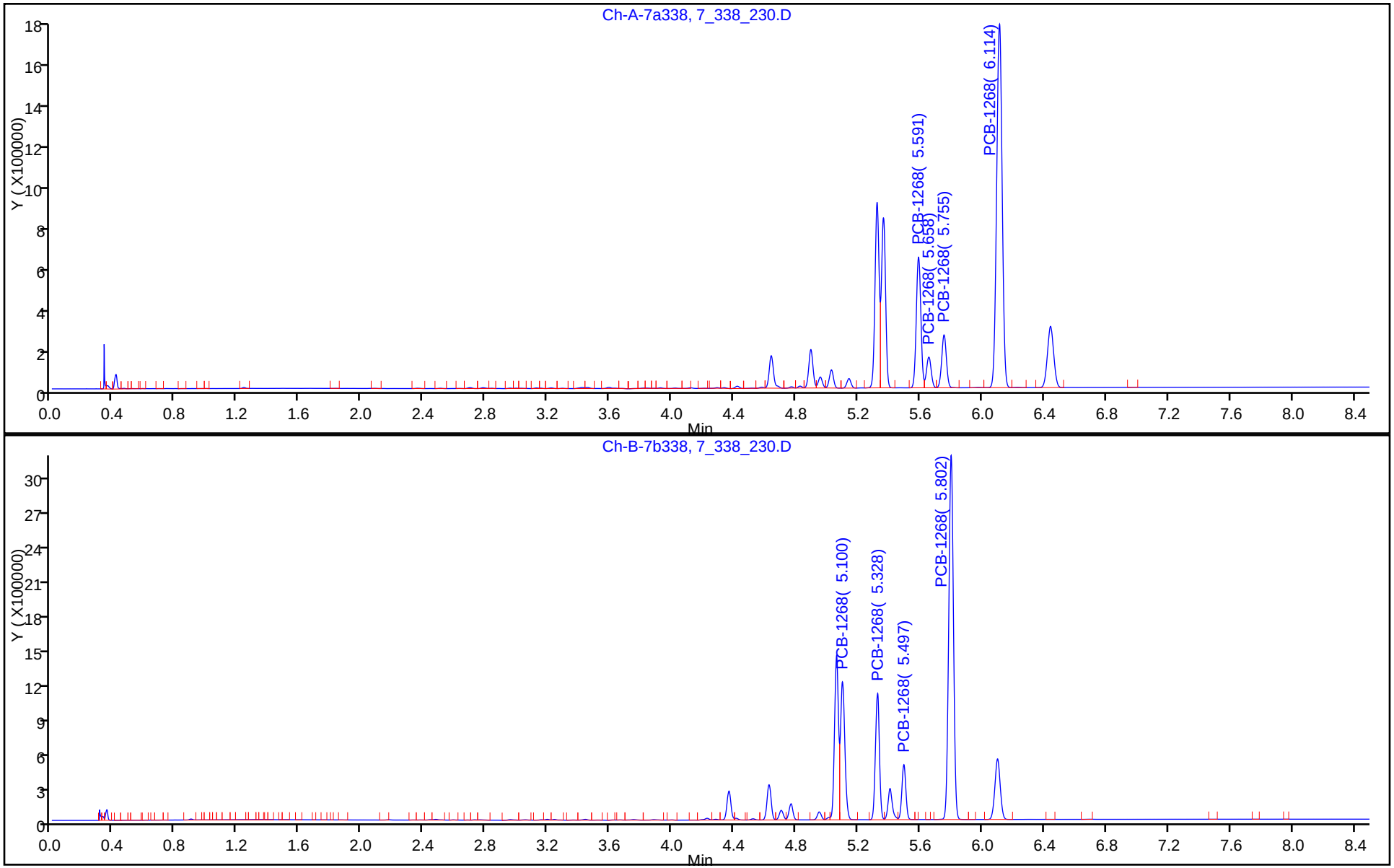
AR1268 STD_00007 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:30:03 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Injection Date:	09-Jul-2014 17:38:38	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD68			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:38 Calibration End Date: 07/09/2014 17:38 Calibration ID: 19333

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD68 480-191849/21	7_338_230.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1268 Peak 4	5.100										5.070 - 5.130	5.100
PCB-1268 Peak 3	5.328										5.298 - 5.358	5.328
PCB-1268 Peak 2	5.497										5.467 - 5.527	5.497
PCB-1268 Peak 1	5.802										5.772 - 5.832	5.802

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:38 Calibration End Date: 07/09/2014 17:38 Calibration ID: 19333

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD68 480-191849/21	7_338_230.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1268 Peak 4	4510364				Ave		4510364.00						20.0			
PCB-1268 Peak 3	3876736				Ave		3876736.00						20.0			
PCB-1268 Peak 2	1670140				Ave		1670140.00						20.0			
PCB-1268 Peak 1	13010648				Ave		13010648.0						20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1 Analy Batch No.: 191849

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/09/2014 17:38 Calibration End Date: 07/09/2014 17:38 Calibration ID: 19333

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD68 480-191849/21	7_338_230.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1268 Peak 4	Ave	2255182					0.500				
PCB-1268 Peak 3	Ave	1938368					0.500				
PCB-1268 Peak 2	Ave	835070					0.500				
PCB-1268 Peak 1	Ave	6505324					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D
Lims ID: STD68
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jul-2014 17:38:38 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub8

Method: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Jul-2014 07:30:02 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1268							
1	5.591	5.591	0.000	1271454	0.5000	0.5000	
1	5.658	5.658	0.000	307642	0.5000	0.5000	
1	5.755	5.755	0.000	528586	0.5000	0.5000	
1	6.114	6.114	0.000	4232892	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	5.802	5.802	0.000	6505324	0.5000	0.5000	
2	5.497	5.497	0.000	835070	0.5000	0.5000	
2	5.328	5.328	0.000	1938368	0.5000	0.5000	
2	5.100	5.100	0.000	2255182	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

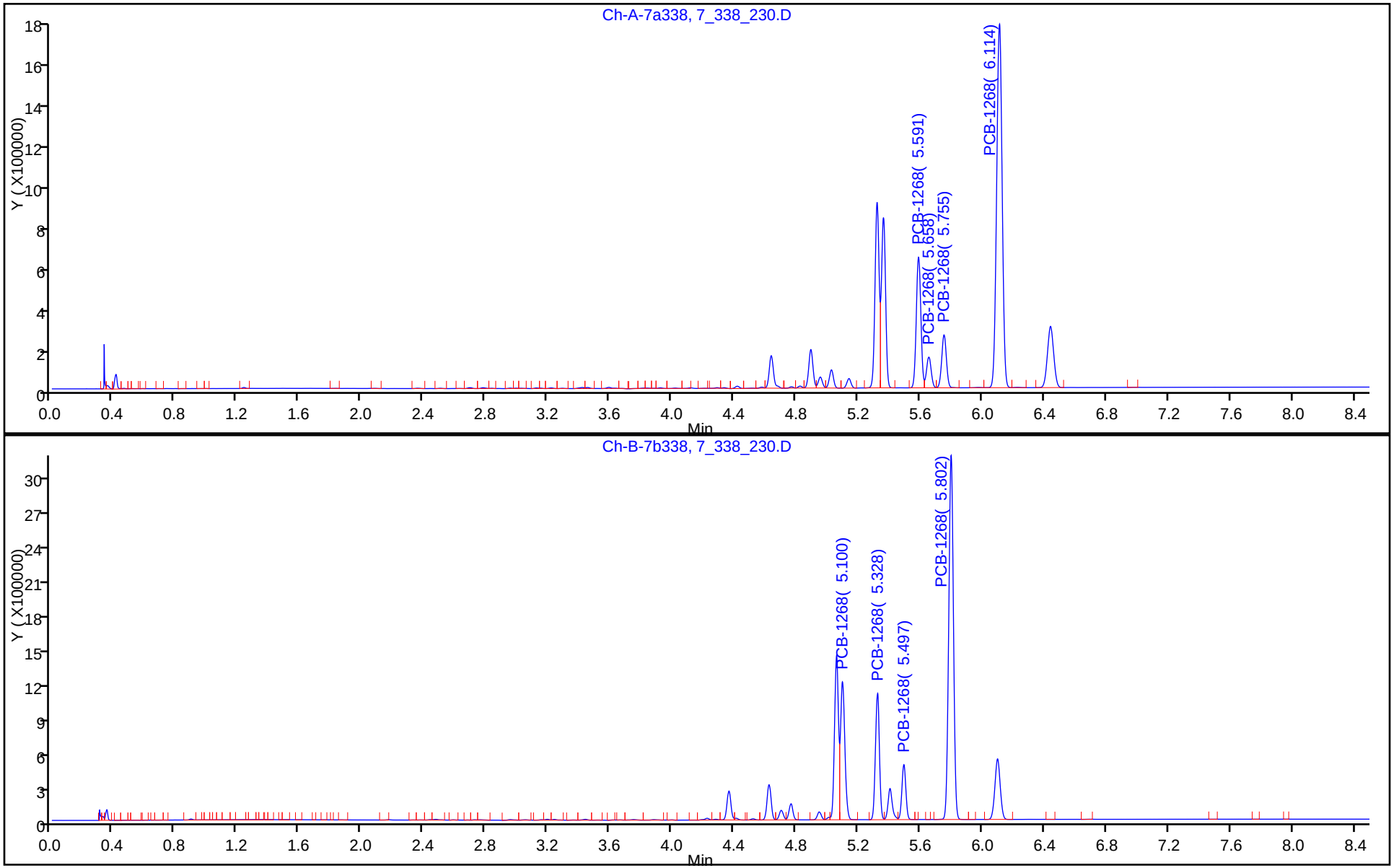
AR1268 STD_00007 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2014 07:30:03 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Injection Date:	09-Jul-2014 17:38:38	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	STD68			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/4 Calibration Date: 08/01/2014 08:16

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_097.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	1977944	2063558		0.522	0.500	4.3	20.0
PCB-1016 Peak 2	Ave	760897	775034		0.509	0.500	1.9	20.0
PCB-1016 Peak 3	Ave	510336	528228		0.518	0.500	3.5	20.0
PCB-1016 Peak 4	Ave	463097	460710		0.497	0.500	-0.5	20.0
PCB-1260 Peak 1	Ave	821413	751732		0.458	0.500	-8.5	20.0
PCB-1260 Peak 2	Ave	792715	675622		0.426	0.500	-14.8	20.0
PCB-1260 Peak 3	Ave	1960415	1888178		0.482	0.500	-3.7	20.0
PCB-1260 Peak 4	Ave	1048668	954804		0.455	0.500	-9.0	20.0
Tetrachloro-m-xylene	Ave	28568640	27189900		0.0286	0.0300	-4.8	20.0
DCB Decachlorobiphenyl	Ave	19814254	17731567		0.0268	0.0300	-10.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/4 Calibration Date: 08/01/2014 08:16

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_097.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.70	2.67	2.73
PCB-1016 Peak 2	2.78	2.75	2.81
PCB-1016 Peak 3	2.84	2.81	2.87
PCB-1016 Peak 4	2.95	2.92	2.98
PCB-1260 Peak 1	4.63	4.60	4.66
PCB-1260 Peak 2	4.82	4.79	4.85
PCB-1260 Peak 3	5.02	4.99	5.05
PCB-1260 Peak 4	5.26	5.23	5.29
Tetrachloro-m-xylene	1.81	1.78	1.84
DCB Decachlorobiphenyl	6.43	6.37	6.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_097.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2014 08:16:22 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub12

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 11:07:02 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 11:06:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.813	1.813	0.000	815697	0.0300	0.0286	
2	1.493	1.493	0.000	1164047	0.0300	0.0281	
						RPD = 1.50	
6 PCB-1016							M
1	2.698	2.698	0.000	1031779	0.5000	0.5216	M
1	2.778	2.778	0.000	387517	0.5000	0.5093	M
1	2.838	2.838	0.000	264114	0.5000	0.5175	M
1	2.954	2.954	0.000	230355	0.5000	0.4974	M
		Average of Peak Amounts =				0.5115	
2	2.182	2.182	0.000	681568	0.5000	0.5032	
2	2.483	2.483	0.000	1484065	0.5000	0.5233	
2	2.597	2.597	0.000	545138	0.5000	0.5065	
2	2.688	2.688	0.000	332028	0.5000	0.5473	
		Average of Peak Amounts =				0.5201	
						RPD = 1.67	
9 PCB-1260							M
1	4.634	4.634	0.000	375866	0.5000	0.4576	M
1	4.820	4.820	0.000	337811	0.5000	0.4261	M
1	5.022	5.022	0.000	944089	0.5000	0.4816	M
1	5.257	5.257	0.000	477402	0.5000	0.4552	
		Average of Peak Amounts =				0.4551	
2	4.631	4.631	0.000	673894	0.5000	0.4771	
2	4.698	4.698	0.000	526095	0.5000	0.4709	
2	4.768	4.768	0.000	1626787	0.5000	0.5064	
2	5.100	5.100	0.000	947738	0.5000	0.4939	
		Average of Peak Amounts =				0.4871	
						RPD = 6.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.427	6.427	0.000	531947	0.0300	0.0268	
2	6.094	6.094	0.000	749452	0.0300	0.0261	
						RPD = 2.85	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

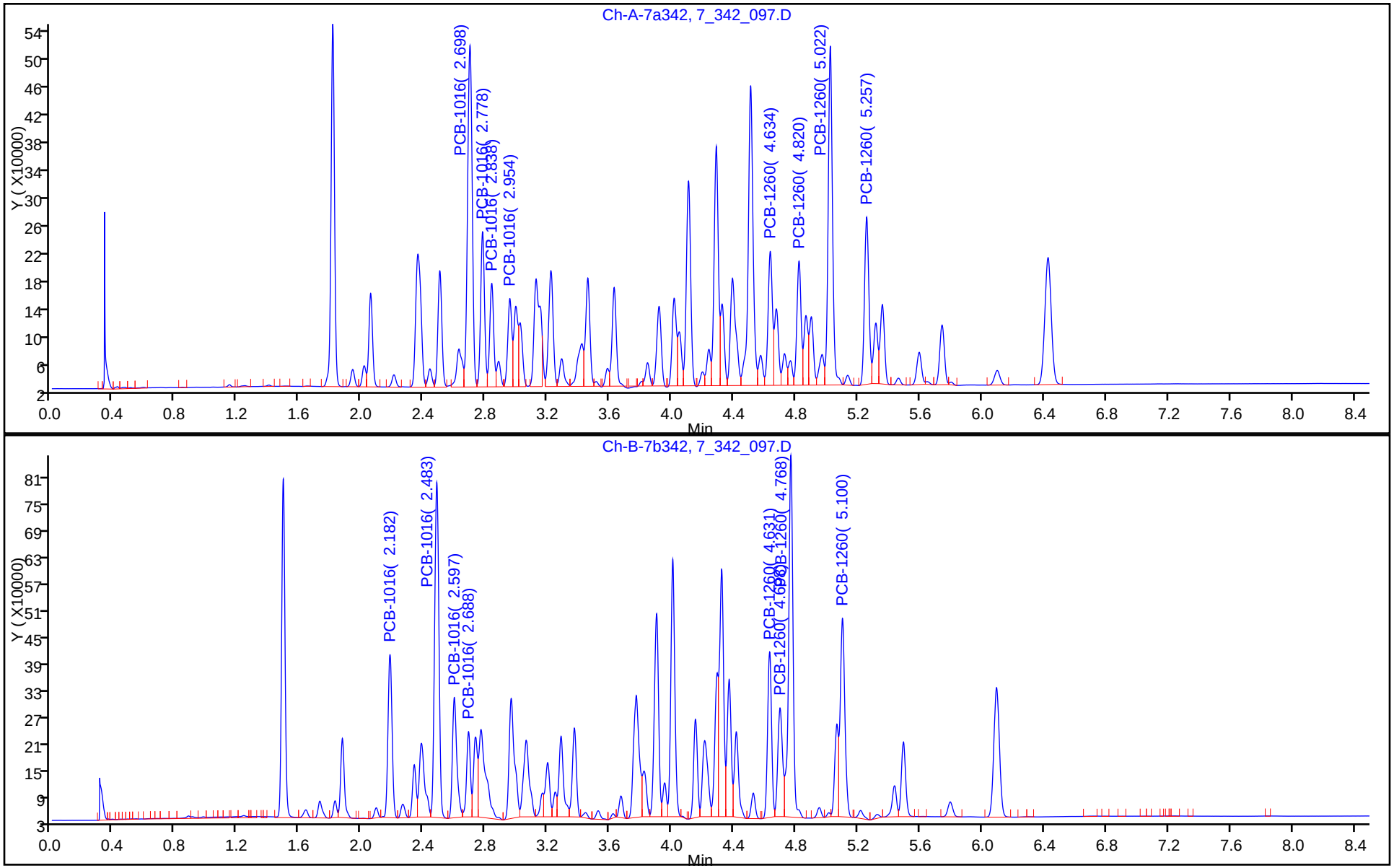
AR1660 .5NG_00094	Amount Added:	1.00	Units: mL	
COPPER_00047	Amount Added:	1.00	Units: mL	Run Reagent

Report Date: 01-Aug-2014 11:07:02 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_097.D

Injection Date:	01-Aug-2014 08:16:22	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



Report Date: 01-Aug-2014 11:07:03 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_097.D

Injection Date: 01-Aug-2014 08:16:22 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

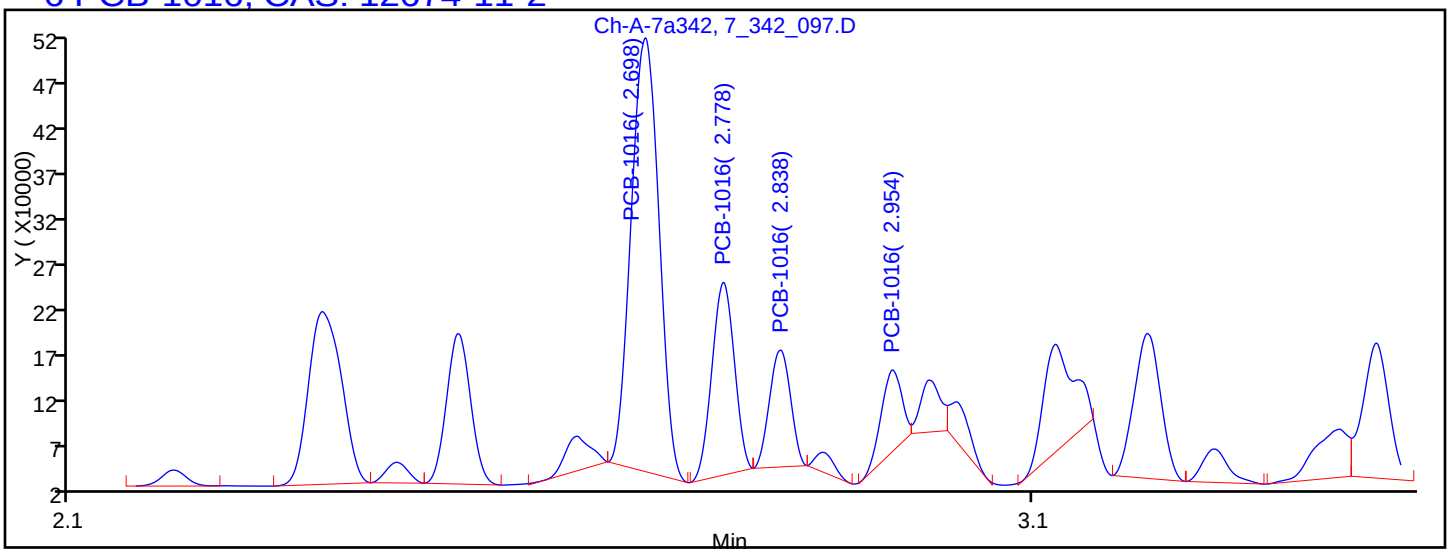
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL

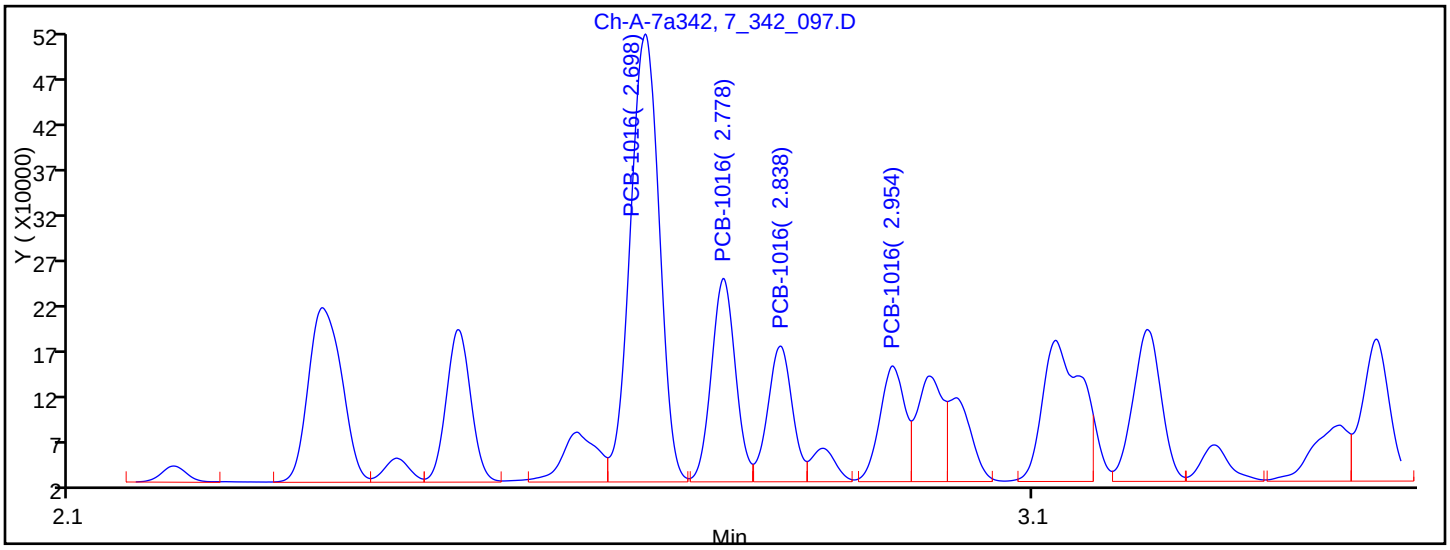
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.698	Response = 956722	M
RT = 2.778	Response = 343278	M
RT = 2.838	Response = 195027	M
RT = 2.954	Response = 133260	M



Manual Integration Results

RT = 2.698	Response = 1031779	M
RT = 2.778	Response = 387517	M
RT = 2.838	Response = 264114	M
RT = 2.954	Response = 230355	M

Reviewer: eversd, 01-Aug-2014 09:30:07

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

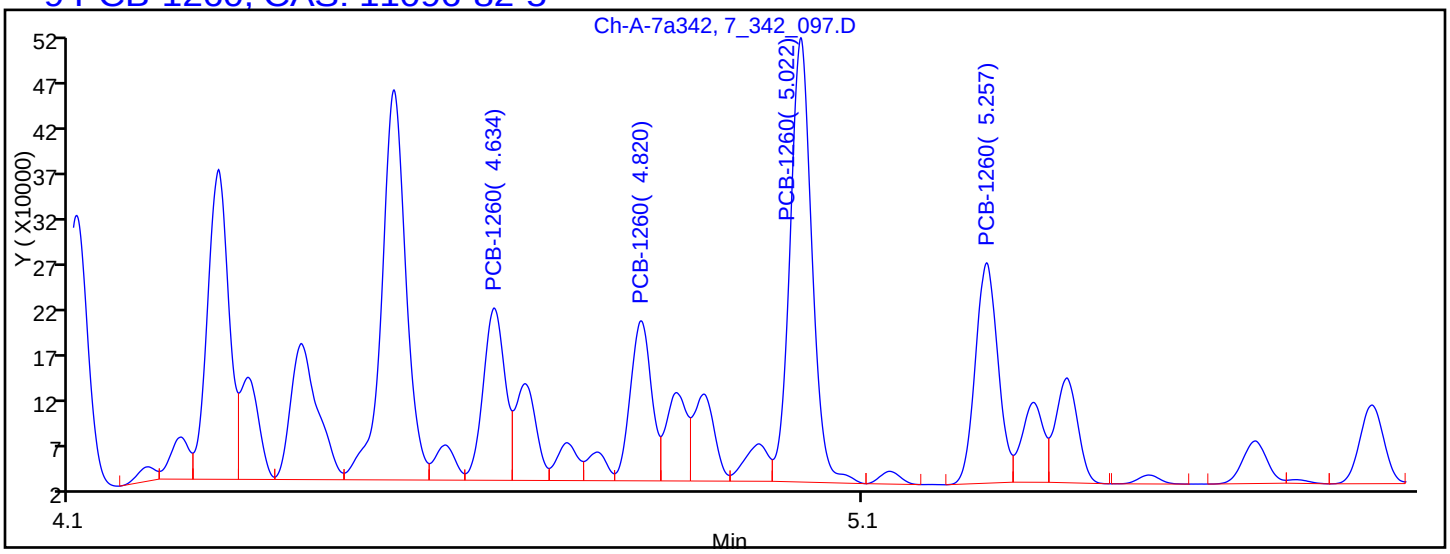
Report Date: 01-Aug-2014 11:07:03 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_097.D

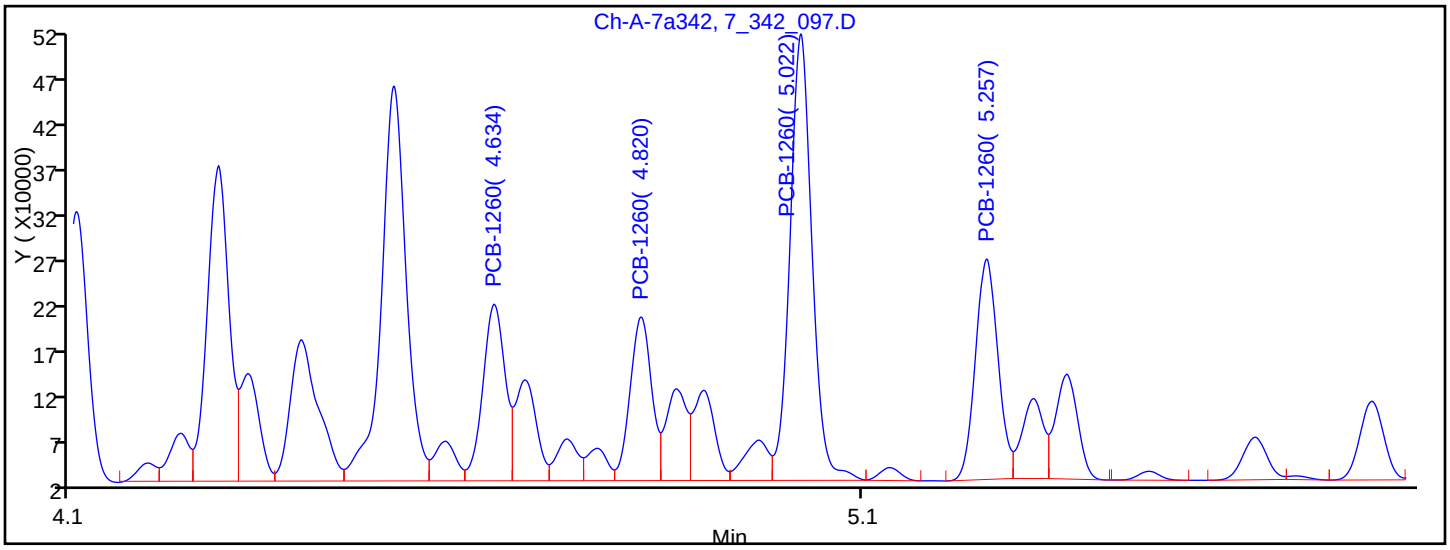
Injection Date:	01-Aug-2014 08:16:22	Instrument ID:	HP6890-7		
Lims ID:	CCV				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.634	Response = 359112	M
RT = 4.820	Response = 324358	M
RT = 5.022	Response = 931625	M
RT = 5.257	Response = 477402	



Manual Integration Results

RT = 4.634	Response = 375866	M
RT = 4.820	Response = 337811	M
RT = 5.022	Response = 944089	M
RT = 5.257	Response = 477402	

Reviewer: eversd, 01-Aug-2014 09:30:07

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/4 Calibration Date: 08/01/2014 08:16

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_097.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	1354363	1363136		0.503	0.500	0.6	20.0
PCB-1016 Peak 2	Ave	2836183	2968130		0.523	0.500	4.7	20.0
PCB-1016 Peak 3	Ave	1076189	1090276		0.507	0.500	1.3	20.0
PCB-1016 Peak 4	Ave	606614	664056		0.547	0.500	9.5	20.0
PCB-1260 Peak 1	Ave	1412623	1347788		0.477	0.500	-4.6	20.0
PCB-1260 Peak 2	Ave	1117145	1052190		0.471	0.500	-5.8	20.0
PCB-1260 Peak 3	Ave	3212387	3253574		0.506	0.500	1.3	20.0
PCB-1260 Peak 4	Ave	1918773	1895476		0.494	0.500	-1.2	20.0
Tetrachloro-m-xylene	Ave	41387266	38801567		0.0281	0.0300	-6.2	20.0
DCB Decachlorobiphenyl	Ave	28722137	24981733		0.0261	0.0300	-13.0	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/4 Calibration Date: 08/01/2014 08:16

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_097.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.18	2.15	2.21
PCB-1016 Peak 2	2.48	2.45	2.51
PCB-1016 Peak 3	2.60	2.57	2.63
PCB-1016 Peak 4	2.69	2.66	2.72
PCB-1260 Peak 1	4.63	4.60	4.66
PCB-1260 Peak 2	4.70	4.67	4.73
PCB-1260 Peak 3	4.77	4.74	4.80
PCB-1260 Peak 4	5.10	5.07	5.13
Tetrachloro-m-xylene	1.49	1.46	1.52
DCB Decachlorobiphenyl	6.09	6.03	6.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_097.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2014 08:16:22 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub12

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 11:07:02 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 11:06:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.813	1.813	0.000	815697	0.0300	0.0286	
2	1.493	1.493	0.000	1164047	0.0300	0.0281	
						RPD = 1.50	
6 PCB-1016							M
1	2.698	2.698	0.000	1031779	0.5000	0.5216	M
1	2.778	2.778	0.000	387517	0.5000	0.5093	M
1	2.838	2.838	0.000	264114	0.5000	0.5175	M
1	2.954	2.954	0.000	230355	0.5000	0.4974	M
		Average of Peak Amounts =				0.5115	
2	2.182	2.182	0.000	681568	0.5000	0.5032	
2	2.483	2.483	0.000	1484065	0.5000	0.5233	
2	2.597	2.597	0.000	545138	0.5000	0.5065	
2	2.688	2.688	0.000	332028	0.5000	0.5473	
		Average of Peak Amounts =				0.5201	
						RPD = 1.67	
9 PCB-1260							M
1	4.634	4.634	0.000	375866	0.5000	0.4576	M
1	4.820	4.820	0.000	337811	0.5000	0.4261	M
1	5.022	5.022	0.000	944089	0.5000	0.4816	M
1	5.257	5.257	0.000	477402	0.5000	0.4552	
		Average of Peak Amounts =				0.4551	
2	4.631	4.631	0.000	673894	0.5000	0.4771	
2	4.698	4.698	0.000	526095	0.5000	0.4709	
2	4.768	4.768	0.000	1626787	0.5000	0.5064	
2	5.100	5.100	0.000	947738	0.5000	0.4939	
		Average of Peak Amounts =				0.4871	
						RPD = 6.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.427	6.427	0.000	531947	0.0300	0.0268	
2	6.094	6.094	0.000	749452	0.0300	0.0261	
						RPD = 2.85	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

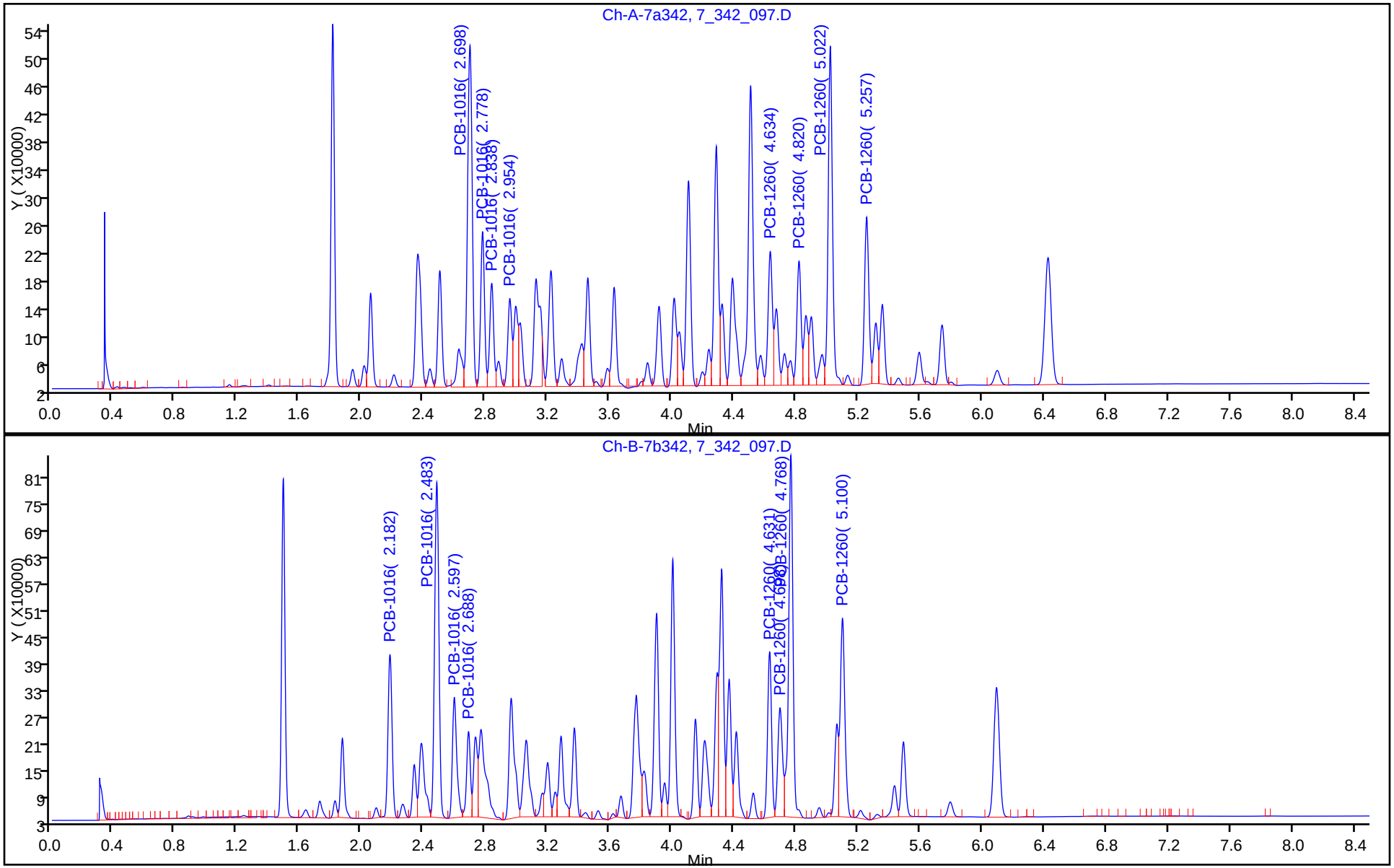
AR1660 .5NG_00094	Amount Added:	1.00	Units: mL	
COPPER_00047	Amount Added:	1.00	Units: mL	Run Reagent

Report Date: 01-Aug-2014 11:07:03 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_097.D

Injection Date:	01-Aug-2014 08:16:22	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/13 Calibration Date: 08/01/2014 10:38

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_106.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	1977944	2041906		0.516	0.500	3.2	20.0
PCB-1016 Peak 2	Ave	760897	769246		0.505	0.500	1.1	20.0
PCB-1016 Peak 3	Ave	510336	522328		0.512	0.500	2.3	20.0
PCB-1016 Peak 4	Ave	463097	447920		0.484	0.500	-3.3	20.0
PCB-1260 Peak 1	Ave	821413	739244		0.450	0.500	-10.0	20.0
PCB-1260 Peak 2	Ave	792715	686128		0.433	0.500	-13.4	20.0
PCB-1260 Peak 3	Ave	1960415	1849548		0.472	0.500	-5.7	20.0
PCB-1260 Peak 4	Ave	1048668	905932		0.432	0.500	-13.6	20.0
Tetrachloro-m-xylene	Ave	28568640	26641733		0.0280	0.0300	-6.7	20.0
DCB Decachlorobiphenyl	Ave	19814254	17821200		0.0270	0.0300	-10.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/13 Calibration Date: 08/01/2014 10:38

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_106.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.70	2.67	2.73
PCB-1016 Peak 2	2.78	2.75	2.81
PCB-1016 Peak 3	2.84	2.81	2.87
PCB-1016 Peak 4	2.96	2.93	2.99
PCB-1260 Peak 1	4.64	4.61	4.67
PCB-1260 Peak 2	4.82	4.79	4.85
PCB-1260 Peak 3	5.02	4.99	5.05
PCB-1260 Peak 4	5.26	5.23	5.29
Tetrachloro-m-xylene	1.81	1.78	1.84
DCB Decachlorobiphenyl	6.43	6.37	6.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_106.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2014 10:38:18 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub12

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 11:05:58 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 11:05:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							M
1	1.813	1.813	0.000	799252	0.0300	0.0280	M
2	1.495	1.495	0.000	1120769	0.0300	0.0271	
						RPD = 3.26	
6 PCB-1016							
1	2.699	2.699	0.000	1020953	0.5000	0.5162	
1	2.779	2.779	0.000	384623	0.5000	0.5055	
1	2.838	2.838	0.000	261164	0.5000	0.5117	
1	2.956	2.956	0.000	223960	0.5000	0.4836	
		Average of Peak Amounts =				0.5043	
2	2.183	2.183	0.000	680162	0.5000	0.5022	
2	2.483	2.483	0.000	1466353	0.5000	0.5170	
2	2.597	2.597	0.000	543825	0.5000	0.5053	
2	2.688	2.688	0.000	323490	0.5000	0.5333	
		Average of Peak Amounts =				0.5145	
						RPD = 2.00	
9 PCB-1260							
1	4.635	4.635	0.000	369622	0.5000	0.4500	
1	4.821	4.821	0.000	343064	0.5000	0.4328	
1	5.023	5.023	0.000	924774	0.5000	0.4717	
1	5.257	5.257	0.000	452966	0.5000	0.4319	
		Average of Peak Amounts =				0.4466	
2	4.630	4.630	0.000	653162	0.5000	0.4624	
2	4.698	4.698	0.000	521939	0.5000	0.4672	
2	4.768	4.768	0.000	1567242	0.5000	0.4879	
2	5.100	5.100	0.000	930016	0.5000	0.4847	
		Average of Peak Amounts =				0.4755	
						RPD = 6.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.428	6.428	0.000	534636	0.0300	0.0270	
2	6.094	6.094	0.000	798515	0.0300	0.0278	
						RPD = 2.99	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

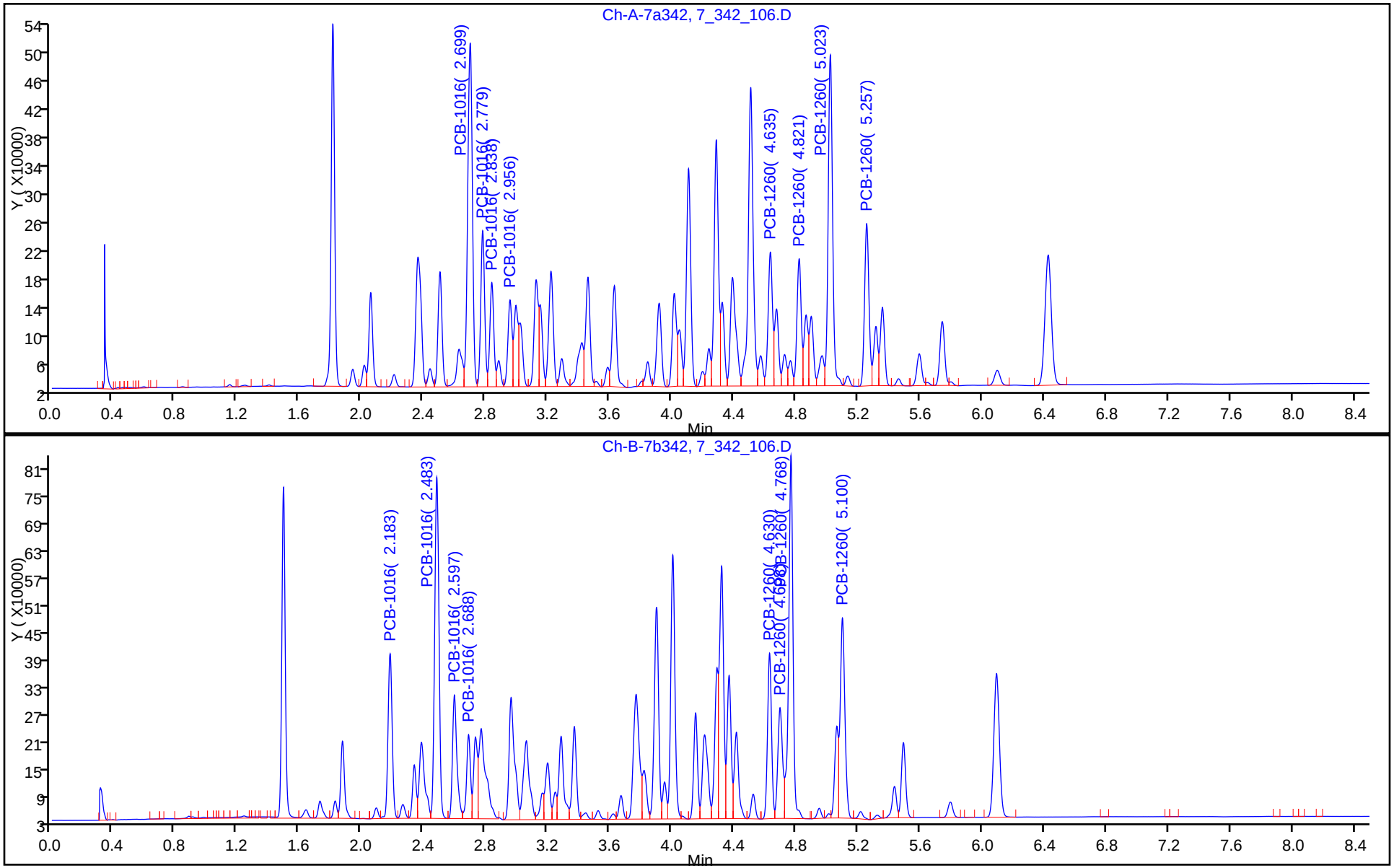
AR1660 .5NG_00094	Amount Added:	1.00	Units: mL	
COPPER_00047	Amount Added:	1.00	Units: mL	Run Reagent

Report Date: 01-Aug-2014 11:05:58 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_106.D

Injection Date:	01-Aug-2014 10:38:18	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



Manual Integration/User Assign Peak Report

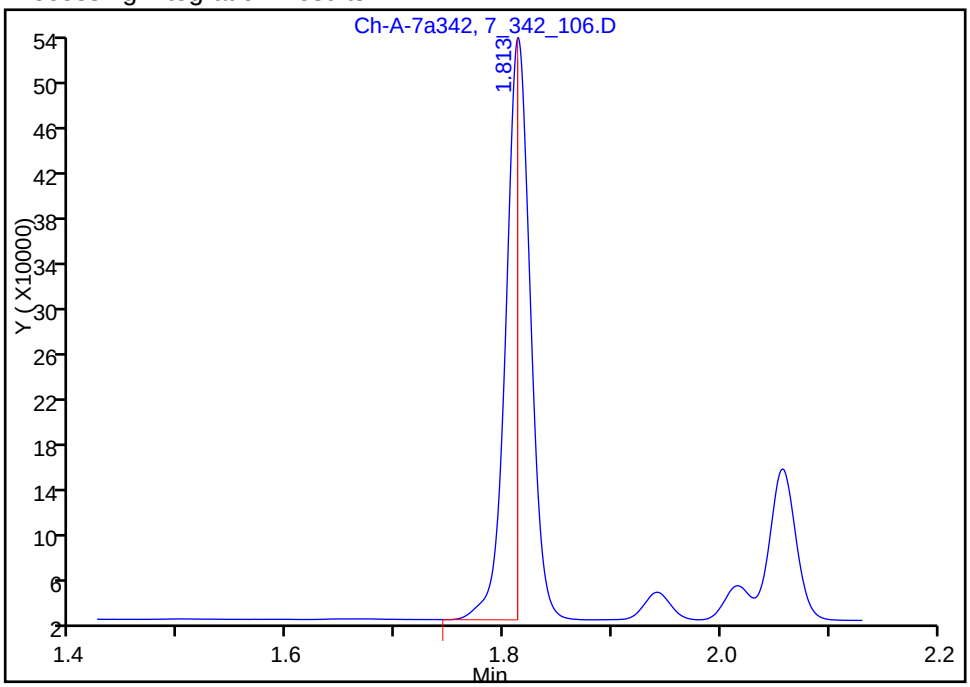
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_106.D
Injection Date: 01-Aug-2014 10:38:18 Instrument ID: HP6890-7
Lims ID: CCV
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

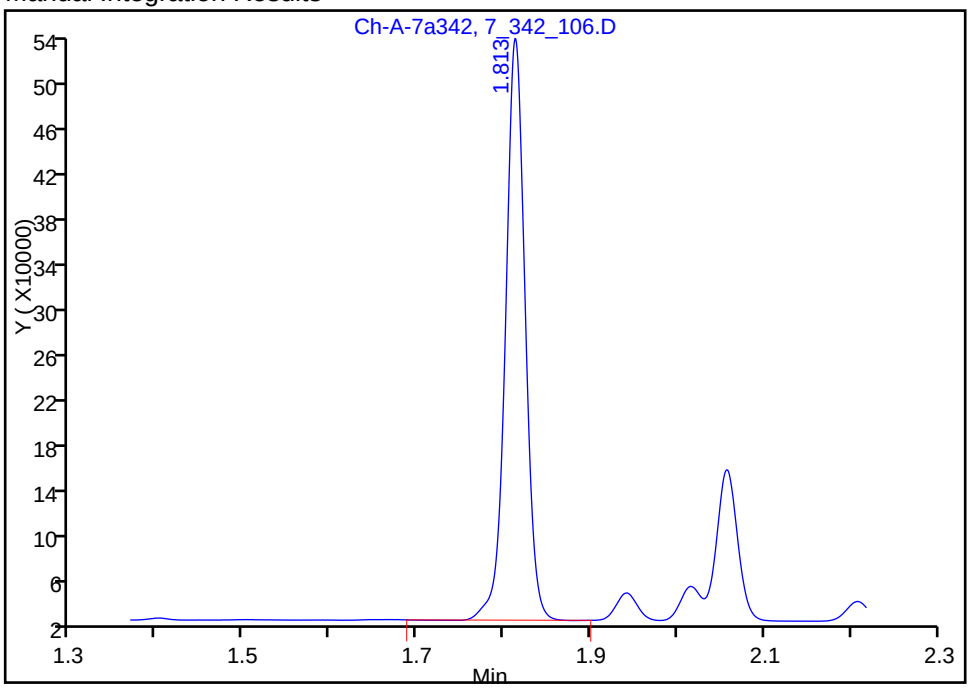
Processing Integration Results

RT: 1.81
Response: 383539
Amount: 0.013425



Manual Integration Results

RT: 1.81
Response: 799252
Amount: 0.027977



Reviewer: eversd, 01-Aug-2014 11:05:58
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/13 Calibration Date: 08/01/2014 10:38

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_106.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	1354363	1360324		0.502	0.500	0.4	20.0
PCB-1016 Peak 2	Ave	2836183	2932706		0.517	0.500	3.4	20.0
PCB-1016 Peak 3	Ave	1076189	1087650		0.505	0.500	1.1	20.0
PCB-1016 Peak 4	Ave	606614	646980		0.533	0.500	6.7	20.0
PCB-1260 Peak 1	Ave	1412623	1306324		0.462	0.500	-7.5	20.0
PCB-1260 Peak 2	Ave	1117145	1043878		0.467	0.500	-6.6	20.0
PCB-1260 Peak 3	Ave	3212387	3134484		0.488	0.500	-2.4	20.0
PCB-1260 Peak 4	Ave	1918773	1860032		0.485	0.500	-3.1	20.0
Tetrachloro-m-xylene	Ave	41387266	37358967		0.0271	0.0300	-9.7	20.0
DCB Decachlorobiphenyl	Ave	28722137	26617167		0.0278	0.0300	-7.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: CCV 480-195854/13 Calibration Date: 08/01/2014 10:38

Instrument ID: HP6890-7 Calib Start Date: 07/09/2014 12:21

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 07/09/2014 13:56

Lab File ID: 7_342_106.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.18	2.15	2.21
PCB-1016 Peak 2	2.48	2.45	2.51
PCB-1016 Peak 3	2.60	2.57	2.63
PCB-1016 Peak 4	2.69	2.66	2.72
PCB-1260 Peak 1	4.63	4.60	4.66
PCB-1260 Peak 2	4.70	4.67	4.73
PCB-1260 Peak 3	4.77	4.74	4.80
PCB-1260 Peak 4	5.10	5.07	5.13
Tetrachloro-m-xylene	1.50	1.47	1.53
DCB Decachlorobiphenyl	6.09	6.03	6.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_106.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Aug-2014 10:38:18 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Sublist: chrom-HP7-PCBS*sub12

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 11:05:58 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 11:05:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							M
1	1.813	1.813	0.000	799252	0.0300	0.0280	M
2	1.495	1.495	0.000	1120769	0.0300	0.0271	
						RPD = 3.26	
6 PCB-1016							
1	2.699	2.699	0.000	1020953	0.5000	0.5162	
1	2.779	2.779	0.000	384623	0.5000	0.5055	
1	2.838	2.838	0.000	261164	0.5000	0.5117	
1	2.956	2.956	0.000	223960	0.5000	0.4836	
		Average of Peak Amounts =				0.5043	
2	2.183	2.183	0.000	680162	0.5000	0.5022	
2	2.483	2.483	0.000	1466353	0.5000	0.5170	
2	2.597	2.597	0.000	543825	0.5000	0.5053	
2	2.688	2.688	0.000	323490	0.5000	0.5333	
		Average of Peak Amounts =				0.5145	
						RPD = 2.00	
9 PCB-1260							
1	4.635	4.635	0.000	369622	0.5000	0.4500	
1	4.821	4.821	0.000	343064	0.5000	0.4328	
1	5.023	5.023	0.000	924774	0.5000	0.4717	
1	5.257	5.257	0.000	452966	0.5000	0.4319	
		Average of Peak Amounts =				0.4466	
2	4.630	4.630	0.000	653162	0.5000	0.4624	
2	4.698	4.698	0.000	521939	0.5000	0.4672	
2	4.768	4.768	0.000	1567242	0.5000	0.4879	
2	5.100	5.100	0.000	930016	0.5000	0.4847	
		Average of Peak Amounts =				0.4755	
						RPD = 6.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.428	6.428	0.000	534636	0.0300	0.0270	
2	6.094	6.094	0.000	798515	0.0300	0.0278	
						RPD = 2.99	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

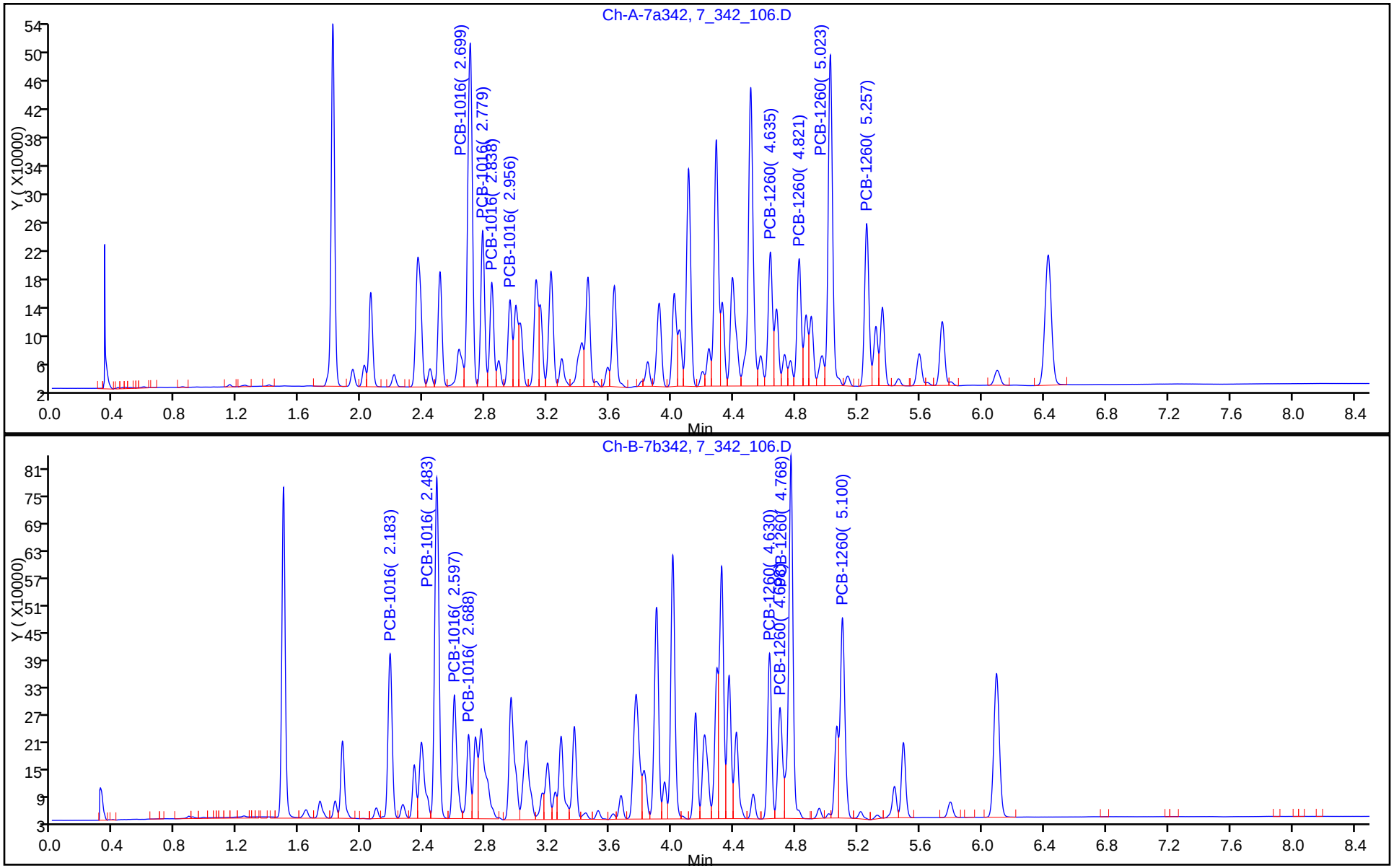
AR1660 .5NG_00094	Amount Added:	1.00	Units: mL	
COPPER_00047	Amount Added:	1.00	Units: mL	Run Reagent

Report Date: 01-Aug-2014 11:05:59 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_106.D

Injection Date:	01-Aug-2014 10:38:18	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-64676-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-195771/1-A

Matrix: Water | Lab File ID: 7_342_099.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1000(mL) | Date Analyzed: 08/01/2014 08:46

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.060	0.038
11104-28-2	PCB-1221	ND		0.060	0.038
11141-16-5	PCB-1232	ND		0.060	0.038
53469-21-9	PCB-1242	ND		0.060	0.038
12672-29-6	PCB-1248	ND		0.060	0.038
11097-69-1	PCB-1254	ND		0.060	0.031
11096-82-5	PCB-1260	ND		0.060	0.031
37324-23-5	PCB-1262	ND		0.060	0.031
11100-14-4	PCB-1268	ND		0.060	0.031
1336-36-3	Polychlorinated biphenyls, Total	ND		0.060	0.038

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	52		10-158
877-09-8	Tetrachloro-m-xylene	79		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_099.D
Lims ID: MB 480-195771/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2014 08:46:55 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 09:49:55 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:49:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.812	1.813	0.000	449339	0.0200	0.0157	
2	1.493	1.493	0.000	634124	0.0200	0.0153	
						RPD = 2.62	
$ 12 DCB Decachlorobiphenyl							
1	6.424	6.427	-0.003	207863	0.0200	0.0105	
2	6.095	6.094	0.001	314466	0.0200	0.0109	
						RPD = 4.27	

Reagents:

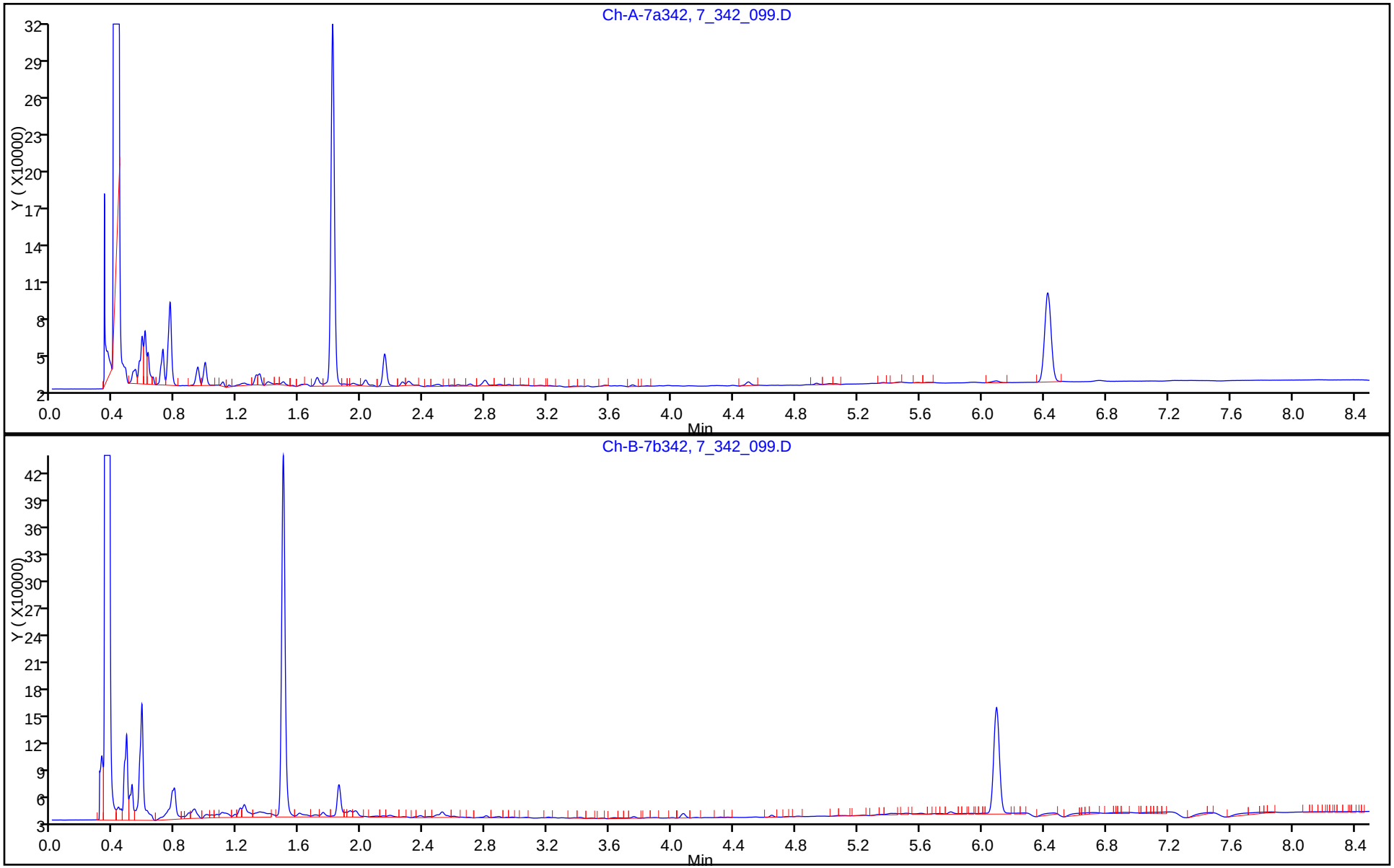
COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 09:49:55 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_099.D

Injection Date:	01-Aug-2014 08:46:55	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	MB 480-195771/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-195771/1-A

Matrix: Water Lab File ID: 7_342_099.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1000(mL) Date Analyzed: 08/01/2014 08:46

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	55		10-158
877-09-8	Tetrachloro-m-xylene	77		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_099.D
Lims ID: MB 480-195771/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2014 08:46:55 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 09:49:55 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:49:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.812	1.813	0.000	449339	0.0200	0.0157	
2	1.493	1.493	0.000	634124	0.0200	0.0153	
						RPD = 2.62	
$ 12 DCB Decachlorobiphenyl							
1	6.424	6.427	-0.003	207863	0.0200	0.0105	
2	6.095	6.094	0.001	314466	0.0200	0.0109	
						RPD = 4.27	

Reagents:

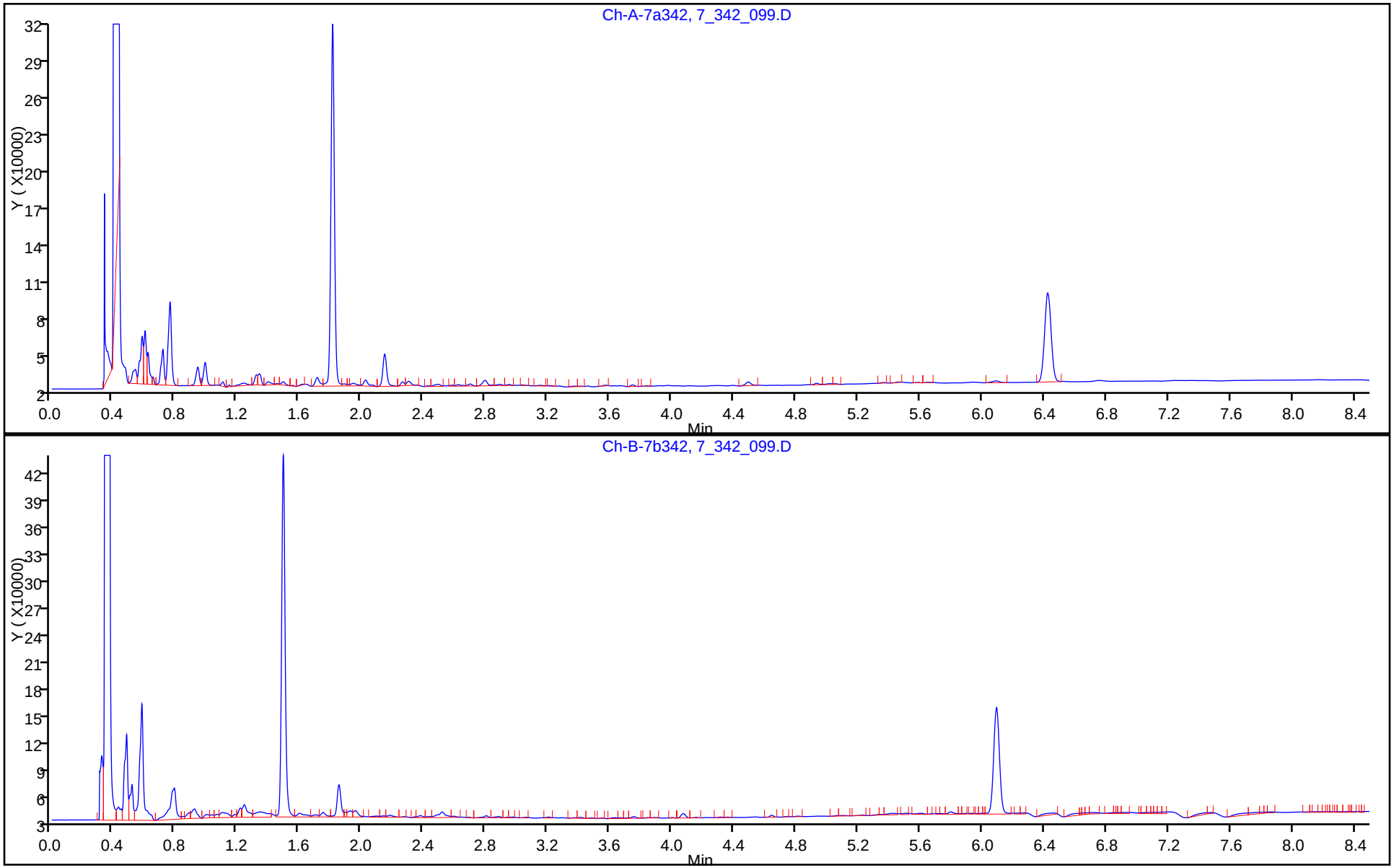
COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 09:49:56 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_099.D

Injection Date:	01-Aug-2014 08:46:55	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	MB 480-195771/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-195771/2-A

Matrix: Water Lab File ID: 7_342_100.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1000(mL) Date Analyzed: 08/01/2014 09:02

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.815		0.060	0.038
11096-82-5	PCB-1260	0.551		0.060	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	26		10-158
877-09-8	Tetrachloro-m-xylene	85		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_100.D
Lims ID: LCS 480-195771/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2014 09:02:57 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 09:49:55 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:50:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.813	1.813	0.001	485174	0.0200	0.0170	
2	1.493	1.493	0.000	687988	0.0200	0.0166	
						RPD = 2.14	
6 PCB-1016							
1	2.698	2.698	0.000	844164	0.5000	0.4268	
1	2.779	2.778	0.001	318339	0.5000	0.4184	
1	2.838	2.838	0.000	214326	0.5000	0.4200	
1	2.956	2.954	0.002	169005	0.5000	0.3649	
		Average of Peak Amounts =				0.4075	
2	2.182	2.182	0.000	612232	0.5000	0.4520	
2	2.483	2.483	0.000	1252233	0.5000	0.4415	
2	2.598	2.597	0.001	458112	0.5000	0.4257	
2	2.689	2.688	0.001	270439	0.5000	0.4458	
		Average of Peak Amounts =				0.4413	
						RPD = 7.95	
9 PCB-1260							
1	4.636	4.634	0.002	246722	0.5000	0.3004	
1	4.820	4.820	0.000	231329	0.5000	0.2918	
1	5.023	5.022	0.000	561506	0.5000	0.2864	
1	5.255	5.257	-0.002	233747	0.5000	0.2229	
		Average of Peak Amounts =				0.2754	
2	4.630	4.631	-0.001	354387	0.5000	0.2509	
2	4.697	4.698	-0.001	286989	0.5000	0.2569	
2	4.768	4.768	0.000	909479	0.5000	0.2831	
2	5.102	5.100	0.002	488086	0.5000	0.2544	
		Average of Peak Amounts =				0.2613	
						RPD = 5.24	
$ 12 DCB Decachlorobiphenyl							
1	6.429	6.427	0.002	102771	0.0200	0.005187	
2	6.094	6.094	0.000	150771	0.0200	0.005249	
						RPD = 1.20	

Reagents:

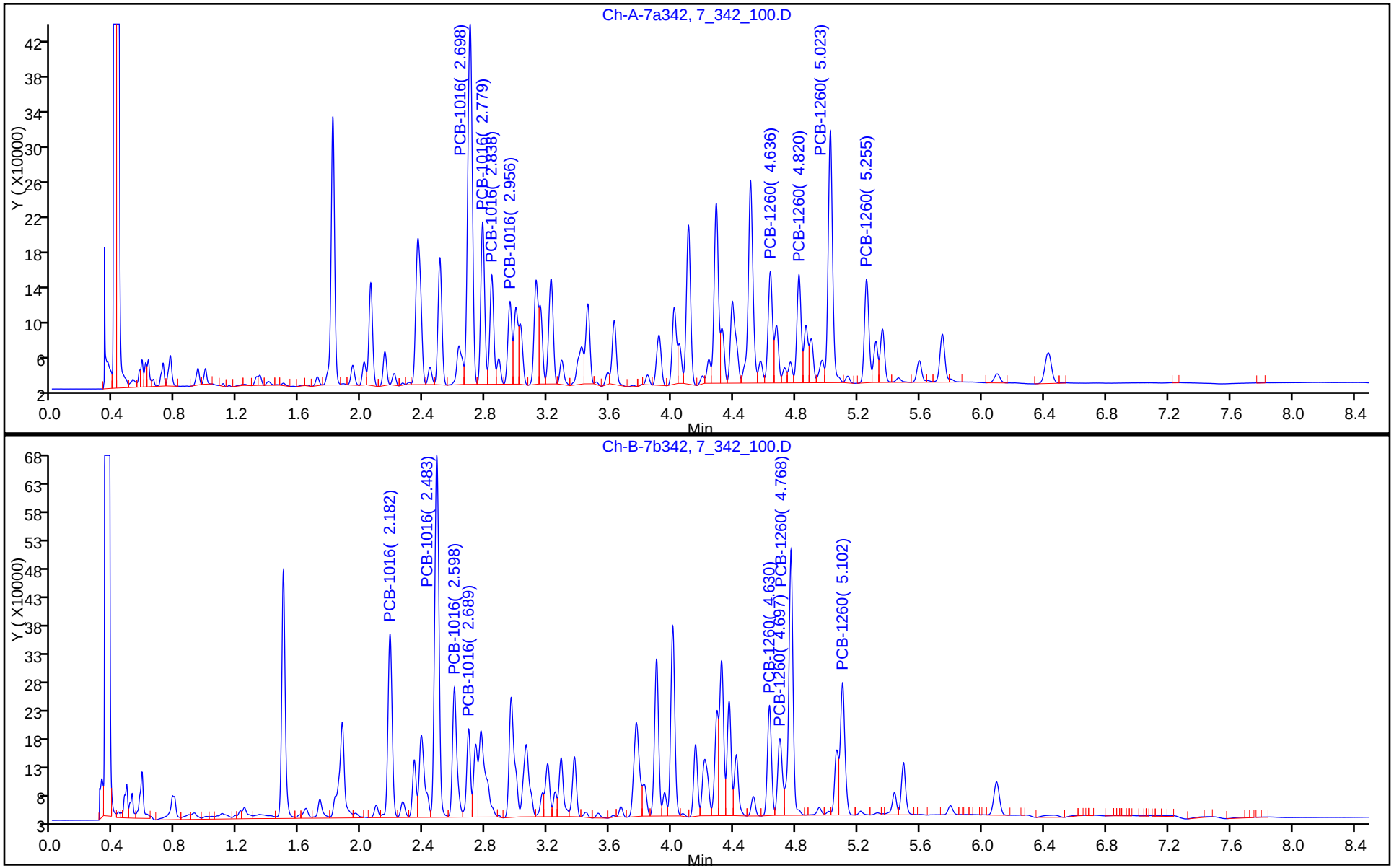
COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 09:50:12 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_100.D

Injection Date:	01-Aug-2014 09:02:57	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	LCS 480-195771/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-195771/2-A

Matrix: Water Lab File ID: 7_342_100.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1000(mL) Date Analyzed: 08/01/2014 09:02

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	26		10-158
877-09-8	Tetrachloro-m-xylene	83		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_100.D
Lims ID: LCS 480-195771/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2014 09:02:57 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 09:49:55 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:50:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.813	1.813	0.001	485174	0.0200	0.0170	
2	1.493	1.493	0.000	687988	0.0200	0.0166	
						RPD = 2.14	
6 PCB-1016							
1	2.698	2.698	0.000	844164	0.5000	0.4268	
1	2.779	2.778	0.001	318339	0.5000	0.4184	
1	2.838	2.838	0.000	214326	0.5000	0.4200	
1	2.956	2.954	0.002	169005	0.5000	0.3649	
		Average of Peak Amounts =				0.4075	
2	2.182	2.182	0.000	612232	0.5000	0.4520	
2	2.483	2.483	0.000	1252233	0.5000	0.4415	
2	2.598	2.597	0.001	458112	0.5000	0.4257	
2	2.689	2.688	0.001	270439	0.5000	0.4458	
		Average of Peak Amounts =				0.4413	
						RPD = 7.95	
9 PCB-1260							
1	4.636	4.634	0.002	246722	0.5000	0.3004	
1	4.820	4.820	0.000	231329	0.5000	0.2918	
1	5.023	5.022	0.000	561506	0.5000	0.2864	
1	5.255	5.257	-0.002	233747	0.5000	0.2229	
		Average of Peak Amounts =				0.2754	
2	4.630	4.631	-0.001	354387	0.5000	0.2509	
2	4.697	4.698	-0.001	286989	0.5000	0.2569	
2	4.768	4.768	0.000	909479	0.5000	0.2831	
2	5.102	5.100	0.002	488086	0.5000	0.2544	
		Average of Peak Amounts =				0.2613	
						RPD = 5.24	
$ 12 DCB Decachlorobiphenyl							
1	6.429	6.427	0.002	102771	0.0200	0.005187	
2	6.094	6.094	0.000	150771	0.0200	0.005249	
						RPD = 1.20	

Reagents:

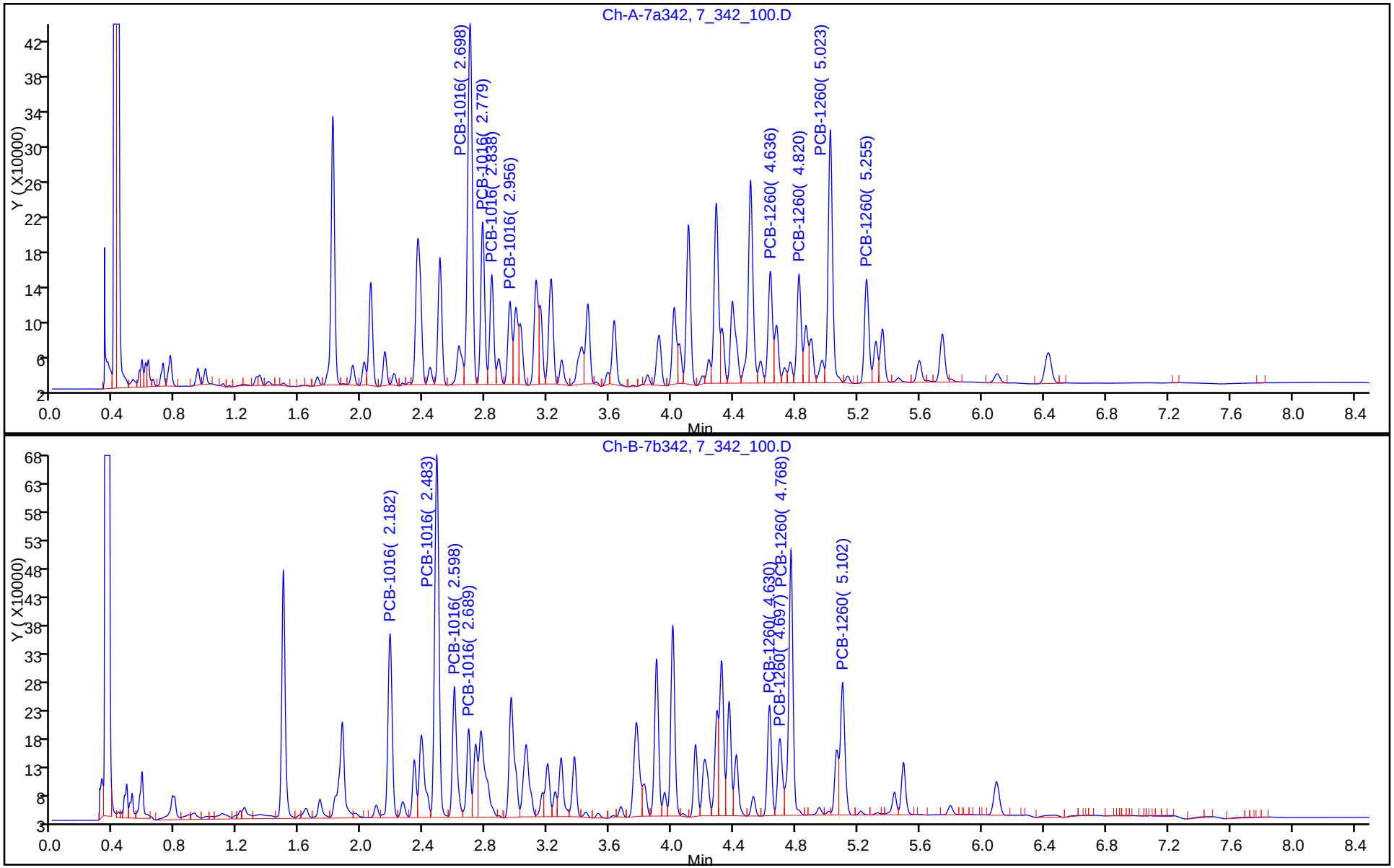
COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 09:50:12 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_100.D

Injection Date:	01-Aug-2014 09:02:57	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	LCS 480-195771/2-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-195771/3-A

Matrix: Water Lab File ID: 7_342_101.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1000(mL) Date Analyzed: 08/01/2014 09:18

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.903		0.060	0.038
11096-82-5	PCB-1260	0.858		0.060	0.031

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	50		10-158
877-09-8	Tetrachloro-m-xylene	79		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_101.D
Lims ID: LCSD 480-195771/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2014 09:18:46 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 09:49:55 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:50:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.814	1.813	0.002	453048	0.0200	0.0159	
2	1.495	1.493	0.002	639090	0.0200	0.0154	
						RPD = 2.66	
6 PCB-1016							
1	2.698	2.698	0.000	903704	0.5000	0.4569	
1	2.780	2.778	0.002	345152	0.5000	0.4536	
1	2.839	2.838	0.001	234896	0.5000	0.4603	
1	2.956	2.954	0.002	201101	0.5000	0.4343	
		Average of Peak Amounts =				0.4513	
2	2.183	2.182	0.000	615544	0.5000	0.4545	
2	2.484	2.483	0.001	1345835	0.5000	0.4745	
2	2.598	2.597	0.001	501275	0.5000	0.4658	
2	2.688	2.688	0.000	298173	0.5000	0.4915	
		Average of Peak Amounts =				0.4716	
						RPD = 4.41	
9 PCB-1260							
1	4.635	4.634	0.001	385406	0.5000	0.4692	
1	4.821	4.820	0.001	354452	0.5000	0.4471	
1	5.023	5.022	0.000	878205	0.5000	0.4480	
1	5.257	5.257	0.000	369208	0.5000	0.3521	
		Average of Peak Amounts =				0.4291	
2	4.629	4.631	-0.002	535779	0.5000	0.3793	
2	4.698	4.698	0.000	440998	0.5000	0.3948	
2	4.768	4.768	0.000	1453695	0.5000	0.4525	
2	5.101	5.100	0.001	799693	0.5000	0.4168	
		Average of Peak Amounts =				0.4108	
						RPD = 4.35	
$ 12 DCB Decachlorobiphenyl							
1	6.425	6.427	-0.002	197912	0.0200	0.0100	
2	6.094	6.094	0.000	294769	0.0200	0.0103	
						RPD = 2.71	

Reagents:

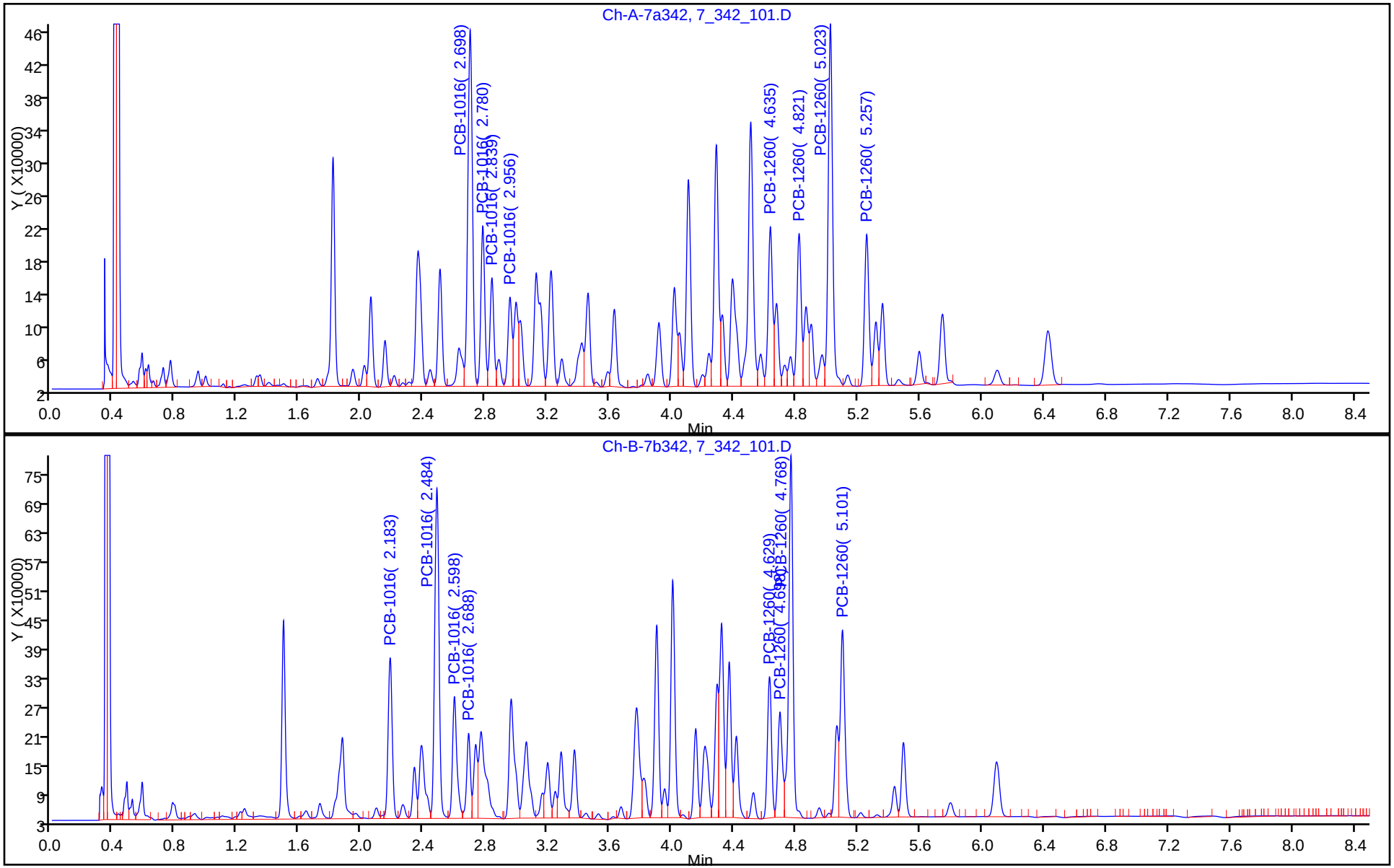
COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 09:50:20 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_101.D

Injection Date:	01-Aug-2014 09:18:46	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	LCSD 480-195771/3-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-195771/3-A

Matrix: Water Lab File ID: 7_342_101.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3510C Date Extracted: 07/31/2014 17:58

Sample wt/vol: 1000(mL) Date Analyzed: 08/01/2014 09:18

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 195854 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	51		10-158
877-09-8	Tetrachloro-m-xylene	77		25-151

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_101.D
Lims ID: LCSD 480-195771/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2014 09:18:46 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7

Method: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-Aug-2014 09:49:55 Calib Date: 09-Jul-2014 17:38:38
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20140709-33625.b\7_338_230.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK018

First Level Reviewer: eversd Date: 01-Aug-2014 09:50:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.814	1.813	0.002	453048	0.0200	0.0159	
2	1.495	1.493	0.002	639090	0.0200	0.0154	
						RPD = 2.66	
6 PCB-1016							
1	2.698	2.698	0.000	903704	0.5000	0.4569	
1	2.780	2.778	0.002	345152	0.5000	0.4536	
1	2.839	2.838	0.001	234896	0.5000	0.4603	
1	2.956	2.954	0.002	201101	0.5000	0.4343	
		Average of Peak Amounts =				0.4513	
2	2.183	2.182	0.000	615544	0.5000	0.4545	
2	2.484	2.483	0.001	1345835	0.5000	0.4745	
2	2.598	2.597	0.001	501275	0.5000	0.4658	
2	2.688	2.688	0.000	298173	0.5000	0.4915	
		Average of Peak Amounts =				0.4716	
						RPD = 4.41	
9 PCB-1260							
1	4.635	4.634	0.001	385406	0.5000	0.4692	
1	4.821	4.820	0.001	354452	0.5000	0.4471	
1	5.023	5.022	0.000	878205	0.5000	0.4480	
1	5.257	5.257	0.000	369208	0.5000	0.3521	
		Average of Peak Amounts =				0.4291	
2	4.629	4.631	-0.002	535779	0.5000	0.3793	
2	4.698	4.698	0.000	440998	0.5000	0.3948	
2	4.768	4.768	0.000	1453695	0.5000	0.4525	
2	5.101	5.100	0.001	799693	0.5000	0.4168	
		Average of Peak Amounts =				0.4108	
						RPD = 4.35	
$ 12 DCB Decachlorobiphenyl							
1	6.425	6.427	-0.002	197912	0.0200	0.0100	
2	6.094	6.094	0.000	294769	0.0200	0.0103	
						RPD = 2.71	

Reagents:

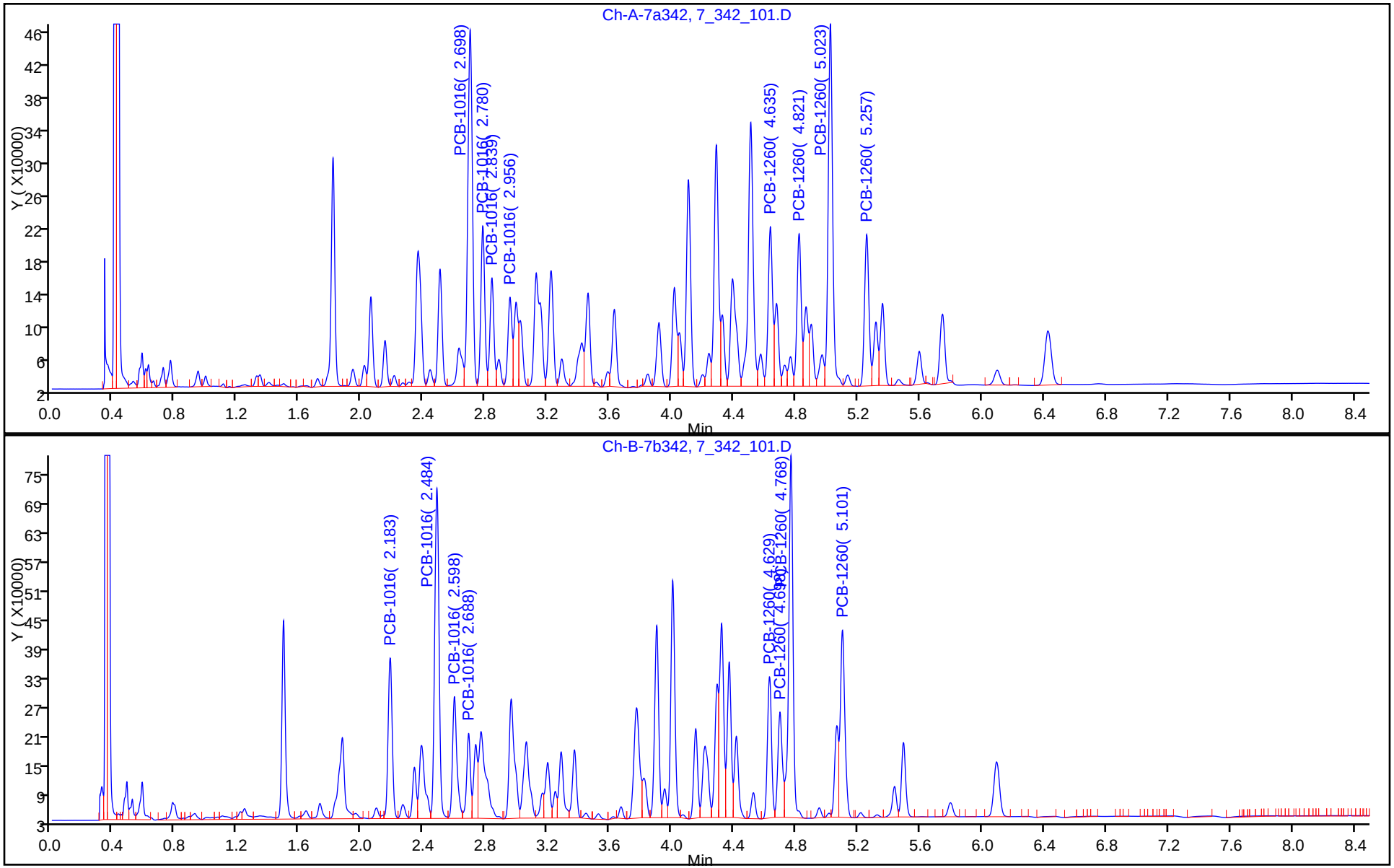
COPPER_00047 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 01-Aug-2014 09:50:20 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20140801-34271.b\7_342_101.D

Injection Date:	01-Aug-2014 09:18:46	Instrument ID:	HP6890-7	Operator ID:	buftchrom
Lims ID:	LCSD 480-195771/3-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL		



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 07/09/2014 12:21

Analysis Batch Number: 191849 End Date: 07/09/2014 17:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 480-191849/1 IC		07/09/2014 12:21	1	7_338_210.D	ZB-5 0.53(mm)
STD7 480-191849/1 IC		07/09/2014 12:21	1	7_338_210.D	ZB-35 0.53(mm)
STD6 480-191849/2 IC		07/09/2014 12:36	1	7_338_211.D	ZB-5 0.53(mm)
STD6 480-191849/2 IC		07/09/2014 12:36	1	7_338_211.D	ZB-35 0.53(mm)
STD5 480-191849/3 IC		07/09/2014 12:52	1	7_338_212.D	ZB-5 0.53(mm)
STD5 480-191849/3 IC		07/09/2014 12:52	1	7_338_212.D	ZB-35 0.53(mm)
STD4 480-191849/4 IC		07/09/2014 13:08	1	7_338_213.D	ZB-5 0.53(mm)
STD4 480-191849/4 IC		07/09/2014 13:08	1	7_338_213.D	ZB-35 0.53(mm)
STD3 480-191849/5 IC		07/09/2014 13:24	1	7_338_214.D	ZB-5 0.53(mm)
STD3 480-191849/5 IC		07/09/2014 13:24	1	7_338_214.D	ZB-35 0.53(mm)
STD2 480-191849/6 IC		07/09/2014 13:40	1	7_338_215.D	ZB-5 0.53(mm)
STD2 480-191849/6 IC		07/09/2014 13:40	1	7_338_215.D	ZB-35 0.53(mm)
STD1 480-191849/7 IC		07/09/2014 13:56	1	7_338_216.D	ZB-5 0.53(mm)
STD1 480-191849/7 IC		07/09/2014 13:56	1	7_338_216.D	ZB-35 0.53(mm)
ICV 480-191849/8		07/09/2014 14:12	1		ZB-5 0.53(mm)
ICV 480-191849/8		07/09/2014 14:12	1		ZB-35 0.53(mm)
STD21 480-191849/9 IC		07/09/2014 14:28	1	7_338_218.D	ZB-5 0.53(mm)
STD21 480-191849/9 IC		07/09/2014 14:28	1	7_338_218.D	ZB-35 0.53(mm)
ICV 480-191849/10		07/09/2014 14:43	1		ZB-5 0.53(mm)
ICV 480-191849/10		07/09/2014 14:43	1		ZB-35 0.53(mm)
STD32 480-191849/11 IC		07/09/2014 14:59	1	7_338_220.D	ZB-5 0.53(mm)
STD32 480-191849/11 IC		07/09/2014 14:59	1	7_338_220.D	ZB-35 0.53(mm)
ICV 480-191849/12		07/09/2014 15:15	1		ZB-5 0.53(mm)
ICV 480-191849/12		07/09/2014 15:15	1		ZB-35 0.53(mm)
STD42 480-191849/13 IC		07/09/2014 15:31	1	7_338_222.D	ZB-5 0.53(mm)
STD42 480-191849/13 IC		07/09/2014 15:31	1	7_338_222.D	ZB-35 0.53(mm)
ICV 480-191849/14		07/09/2014 15:47	1		ZB-5 0.53(mm)
ICV 480-191849/14		07/09/2014 15:47	1		ZB-35 0.53(mm)
STD48 480-191849/15 IC		07/09/2014 16:03	1	7_338_224.D	ZB-5 0.53(mm)
STD48 480-191849/15 IC		07/09/2014 16:03	1	7_338_224.D	ZB-35 0.53(mm)
ICV 480-191849/16		07/09/2014 16:19	1		ZB-5 0.53(mm)
ICV 480-191849/16		07/09/2014 16:19	1		ZB-35 0.53(mm)
STD54 480-191849/17 IC		07/09/2014 16:35	1	7_338_226.D	ZB-5 0.53(mm)
STD54 480-191849/17 IC		07/09/2014 16:35	1	7_338_226.D	ZB-35 0.53(mm)
ICV 480-191849/18		07/09/2014 16:50	1		ZB-5 0.53(mm)
ICV 480-191849/18		07/09/2014 16:50	1		ZB-35 0.53(mm)
STD62 480-191849/19 IC		07/09/2014 17:06	1	7_338_228.D	ZB-5 0.53(mm)
STD62 480-191849/19 IC		07/09/2014 17:06	1	7_338_228.D	ZB-35 0.53(mm)
ICV 480-191849/20		07/09/2014 17:22	1		ZB-5 0.53(mm)
ICV 480-191849/20		07/09/2014 17:22	1		ZB-35 0.53(mm)

8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 07/09/2014 12:21

Analysis Batch Number: 191849 End Date: 07/09/2014 17:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD68 480-191849/21 IC		07/09/2014 17:38	1	7_338_230.D	ZB-5 0.53(mm)
STD68 480-191849/21 IC		07/09/2014 17:38	1	7_338_230.D	ZB-35 0.53(mm)
ICV 480-191849/22		07/09/2014 17:54	1		ZB-5 0.53(mm)
ICV 480-191849/22		07/09/2014 17:54	1		ZB-35 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 08/01/2014 08:16

Analysis Batch Number: 195854 End Date: 08/01/2014 21:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-195854/4		08/01/2014 08:16	1	7_342_097.D	ZB-5 0.53(mm)
CCV 480-195854/4		08/01/2014 08:16	1	7_342_097.D	ZB-35 0.53(mm)
MB 480-195771/1-A		08/01/2014 08:46	1	7_342_099.D	ZB-5 0.53(mm)
MB 480-195771/1-A		08/01/2014 08:46	1	7_342_099.D	ZB-35 0.53(mm)
LCS 480-195771/2-A		08/01/2014 09:02	1	7_342_100.D	ZB-5 0.53(mm)
LCS 480-195771/2-A		08/01/2014 09:02	1	7_342_100.D	ZB-35 0.53(mm)
LCSD 480-195771/3-A		08/01/2014 09:18	1	7_342_101.D	ZB-5 0.53(mm)
LCSD 480-195771/3-A		08/01/2014 09:18	1	7_342_101.D	ZB-35 0.53(mm)
480-64676-1	AS-WTPE-14-0044	08/01/2014 09:34	1	7_342_102.D	ZB-5 0.53(mm)
480-64676-1	AS-WTPE-14-0044	08/01/2014 09:34	1	7_342_102.D	ZB-35 0.53(mm)
480-64676-2	AS-WTPE-14-0045	08/01/2014 09:50	1	7_342_103.D	ZB-5 0.53(mm)
480-64676-2	AS-WTPE-14-0045	08/01/2014 09:50	1	7_342_103.D	ZB-35 0.53(mm)
480-64676-3	AS-WTPE-14-0046	08/01/2014 10:06	1	7_342_104.D	ZB-5 0.53(mm)
480-64676-3	AS-WTPE-14-0046	08/01/2014 10:06	1	7_342_104.D	ZB-35 0.53(mm)
480-64676-4	AS-WTPE-14-0047	08/01/2014 10:22	1	7_342_105.D	ZB-5 0.53(mm)
480-64676-4	AS-WTPE-14-0047	08/01/2014 10:22	1	7_342_105.D	ZB-35 0.53(mm)
CCV 480-195854/13		08/01/2014 10:38	1	7_342_106.D	ZB-5 0.53(mm)
CCV 480-195854/13		08/01/2014 10:38	1	7_342_106.D	ZB-35 0.53(mm)
ZZZZZ		08/01/2014 11:09	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 11:09	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 11:25	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 11:25	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 11:41	10		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 11:41	10		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 11:57	10		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 11:57	10		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 12:13	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 12:13	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 12:29	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 12:29	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 12:45	50		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 12:45	50		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 13:01	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 13:01	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 13:17	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 13:17	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 13:33	10		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 13:33	10		ZB-35 0.53(mm)
CCV 480-195854/25		08/01/2014 13:49	1		ZB-5 0.53(mm)
CCV 480-195854/25		08/01/2014 13:49	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 14:20	50		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 14:20	50		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 14:36	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 14:36	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 14:52	1		ZB-5 0.53(mm)

8082A

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 08/01/2014 08:16

Analysis Batch Number: 195854 End Date: 08/01/2014 21:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		08/01/2014 14:52	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 15:08	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 15:08	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 15:24	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 15:24	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 15:40	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 15:40	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 15:56	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 15:56	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 16:11	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 16:11	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 16:27	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 16:27	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 16:43	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 16:43	1		ZB-35 0.53(mm)
CCV 480-195854/37		08/01/2014 16:59	1		ZB-5 0.53(mm)
CCV 480-195854/37		08/01/2014 16:59	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 17:31	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 17:31	1		ZB-35 0.53(mm)
CCV 480-195854/40		08/01/2014 17:47	1		ZB-5 0.53(mm)
CCV 480-195854/40		08/01/2014 17:47	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 18:18	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 18:18	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 18:34	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 18:34	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 18:50	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 18:50	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 19:06	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 19:06	1		ZB-35 0.53(mm)
CCV 480-195854/46		08/01/2014 19:22	1		ZB-5 0.53(mm)
CCV 480-195854/46		08/01/2014 19:22	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 19:54	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 19:54	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 20:10	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 20:10	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 20:26	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 20:26	1		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 20:41	200		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 20:41	200		ZB-35 0.53(mm)
ZZZZZ		08/01/2014 20:57	1		ZB-5 0.53(mm)
ZZZZZ		08/01/2014 20:57	1		ZB-35 0.53(mm)
CCV 480-195854/54		08/01/2014 21:13	1		ZB-5 0.53(mm)
CCV 480-195854/54		08/01/2014 21:13	1		ZB-35 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Batch Number: 195771 Batch Start Date: 07/31/14 17:58 Batch Analyst: Salverson, Jessica L

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	InitialAmount	FinalAmount	O_608PCBSpike 00006
MB 480-195771/1		3510C, 8082A		7			1000 mL	2 mL	
LCS 480-195771/2		3510C, 8082A		7			1000 mL	2 mL	1 mL
LCSD 480-195771/3		3510C, 8082A		7			1000 mL	2 mL	1 mL
480-64676-B-1	AS-WTPE-14-0044	3510C, 8082A	T	6	001495.0 g	000504.2 g	990.8 mL	2 mL	
480-64676-B-2	AS-WTPE-14-0045	3510C, 8082A	T	6	001531.9 g	000504.2 g	1027.7 mL	2 mL	
480-64676-B-3	AS-WTPE-14-0046	3510C, 8082A	T	6	001526.3 g	000505.5 g	1020.8 mL	2 mL	
480-64676-B-4	AS-WTPE-14-0047	3510C, 8082A	T	6	001532.6 g	000505.6 g	1027 mL	2 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_PCBLLsurr 00020					
MB 480-195771/1		3510C, 8082A		1 mL					
LCS 480-195771/2		3510C, 8082A		1 mL					
LCSD 480-195771/3		3510C, 8082A		1 mL					
480-64676-B-1	AS-WTPE-14-0044	3510C, 8082A	T	1 mL					
480-64676-B-2	AS-WTPE-14-0045	3510C, 8082A	T	1 mL					
480-64676-B-3	AS-WTPE-14-0046	3510C, 8082A	T	1 mL					
480-64676-B-4	AS-WTPE-14-0047	3510C, 8082A	T	1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Batch Number: 195771 Batch Start Date: 07/31/14 17:58 Batch Analyst: Salverson, Jessica L

Batch Method: 3510C Batch End Date:

Batch Notes	
Person's name who did the concentration	JS,AM
Exchange Solvent Lot #	0000078262
Exchange Solvent Name	Hexane
Na2SO4 Lot Number	27864004
Prep Solvent Lot #	0000078272
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	180 mL
Person's name who did the prep	JS
Person's name who witnessed reagent drop	JS
Sufficient volume for MS/MSD?	NO

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-64676-1

SDG No.:

Project: Altech Specialty Steel; Dunkirk, NY

Client Sample ID	Lab Sample ID
AS-WTPE-14-0044	480-64676-1
AS-WTPE-14-0045	480-64676-2
AS-WTPE-14-0046	480-64676-3
AS-WTPE-14-0047	480-64676-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: AS-WTPE-14-0044 Lab Sample ID: 480-64676-1

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG ID.:

Matrix: Water Date Sampled: 07/30/2014 14:00

Reporting Basis: WET Date Received: 07/31/2014 15:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.11	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.084	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	172	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0011	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0040	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0019	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.047	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	39.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.68	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	1.0	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	7.8	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	0.0093	0.025	0.0087	mg/L	J		1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	104	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0080	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: AS-WTPE-14-0045 Lab Sample ID: 480-64676-2

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG ID.:

Matrix: Water Date Sampled: 07/30/2014 17:30

Reporting Basis: WET Date Received: 07/31/2014 15:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.092	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.083	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	181	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0011	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0021	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0021	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.038	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	43.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.40	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.76	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	8.4	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	109	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0045	0.010	0.0030	mg/L	J		2	6010C
7440-66-6	Zinc	0.0043	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: AS-WTPE-14-0046 Lab Sample ID: 480-64676-3

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG ID.:

Matrix: Water Date Sampled: 07/31/2014 08:00

Reporting Basis: WET Date Received: 07/31/2014 15:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.082	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.072	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	195	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0019	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0025	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0025	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.048	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	46.6	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.49	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.78	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	8.6	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	104	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0038	0.010	0.0030	mg/L	J		2	6010C
7440-66-6	Zinc	0.0035	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: AS-WTPE-14-0047 Lab Sample ID: 480-64676-4

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG ID.:

Matrix: Water Date Sampled: 07/31/2014 11:00

Reporting Basis: WET Date Received: 07/31/2014 15:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.11	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.072	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	192	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0018	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0028	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0026	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.039	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	45.4	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.42	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.84	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	8.3	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	102	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0046	0.010	0.0030	mg/L	J		2	6010C
7440-66-6	Zinc	0.0035	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEI_04_ICV_00258 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00169

Analyte	ICV 480-196089/5 08/01/2014 10:51				CCV 480-196089/13 08/01/2014 17:15				CCV 480-196089/25 08/01/2014 17:48			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	19.12		18.8	102	25.60		25.0	102	25.63		25.0	103
Antimony	0.372		0.375	99	0.504		0.500	101	0.506		0.500	101
Arsenic	0.370		0.375	99	0.508		0.500	102	0.506		0.500	101
Barium	0.387		0.375	103	0.501		0.500	100	0.507		0.500	101
Beryllium	0.375		0.375	100	0.495		0.500	99	0.497		0.500	99
Cadmium	0.375		0.375	100	0.510		0.500	102	0.508		0.500	102
Calcium	18.95		18.8	101	25.03		25.0	100	25.04		25.0	100
Chromium	0.373		0.375	99	0.503		0.500	101	0.496		0.500	99
Cobalt	0.374		0.375	100	0.509		0.500	102	0.506		0.500	101
Copper	0.369		0.375	98	0.480		0.500	96	0.491		0.500	98
Iron	18.81		18.8	100	24.60		25.0	98	24.69		25.0	99
Lead	0.377		0.375	100	0.513		0.500	103	0.510		0.500	102
Magnesium	19.13		18.8	102	25.55		25.0	102	25.59		25.0	102
Manganese	0.384		0.375	102	0.508		0.500	102	0.510		0.500	102
Nickel	0.372		0.375	99	0.498		0.500	100	0.499		0.500	100
Potassium	18.24		18.8	97	24.78		25.0	99	24.86		25.0	99
Selenium	0.373		0.375	100	0.502		0.500	100	0.506		0.500	101
Silver	0.376		0.375	100	0.507		0.500	101	0.507		0.500	101
Sodium	18.22		18.8	97	25.00		25.0	100	24.93		25.0	100
Thallium	0.379		0.375	101	0.502		0.500	100	0.503		0.500	101
Vanadium	0.378		0.375	101	0.506		0.500	101	0.507		0.500	101
Zinc	0.382		0.375	102	0.507		0.500	101	0.503		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEI_04_ICV_00258 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00169

Analyte	CCV 480-196089/29 08/01/2014 18:21											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	25.26		25.0	101								
Antimony	0.506		0.500	101								
Arsenic	0.506		0.500	101								
Barium	0.505		0.500	101								
Beryllium	0.495		0.500	99								
Cadmium	0.508		0.500	102								
Calcium	25.00		25.0	100								
Chromium	0.498		0.500	100								
Cobalt	0.506		0.500	101								
Copper	0.487		0.500	97								
Iron	24.52		25.0	98								
Lead	0.508		0.500	102								
Magnesium	25.48		25.0	102								
Manganese	0.510		0.500	102								
Nickel	0.499		0.500	100								
Potassium	24.74		25.0	99								
Selenium	0.501		0.500	100								
Silver	0.506		0.500	101								
Sodium	24.77		25.0	99								
Thallium	0.500		0.500	100								
Vanadium	0.507		0.500	101								
Zinc	0.504		0.500	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEI_10_CCVL_00045 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00045

Analyte	ICVL 480-196089/7 08/01/2014 10:57				CCVL 480-196089/15 08/01/2014 17:21				CCVL 480-196089/27 08/01/2014 17:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.193	J	0.200	97	0.200		0.200	100	0.211		0.200	106
Antimony	0.0211		0.0200	105	0.0204		0.0200	102	0.0199	J	0.0200	100
Arsenic	0.0129	J	0.0150	86	0.0135	J	0.0150	90	0.0143	J	0.0150	96
Barium	0.00219		0.00200	110	0.00229		0.00200	115	0.00230		0.00200	115
Beryllium	0.00213		0.00200	107	0.00231		0.00200	116	0.00202		0.00200	101
Cadmium	0.00225		0.00200	113	0.00227		0.00200	114	0.00205		0.00200	103
Calcium	0.509		0.500	102	0.505		0.500	101	0.504		0.500	101
Chromium	0.00478		0.00400	120	0.00440		0.00400	110	0.00422		0.00400	106
Cobalt	0.00398	J	0.00400	100	0.00410		0.00400	103	0.00403		0.00400	101
Copper	0.00901	J	0.0100	90	0.00895	J	0.0100	90	0.00894	J	0.0100	89
Iron	0.0495	J	0.0500	99	0.0478	J	0.0500	96	0.0471	J	0.0500	94
Lead	0.0112		0.0100	112	0.0111		0.0100	111	0.0107		0.0100	107
Magnesium	0.211		0.200	106	0.208		0.200	104	0.208		0.200	104
Manganese	0.00347		0.00300	116	0.00337		0.00300	112	0.00339		0.00300	113
Nickel	0.00988	J	0.0100	99	0.00900	J	0.0100	90	0.00905	J	0.0100	91
Potassium	0.506		0.500	101	0.497	J	0.500	99	0.487	J	0.500	97
Selenium	0.0258		0.0250	103	0.0276		0.0250	110	0.0228	J	0.0250	91
Silver	0.00573	J	0.00600	96	0.00591	J	0.00600	99	0.00586	J	0.00600	98
Sodium	0.954	J	1.00	95	0.933	J	1.00	93	0.950	J	1.00	95
Thallium	0.0210		0.0200	105	0.0211		0.0200	106	0.0228		0.0200	114
Vanadium	0.00529		0.00500	106	0.00530		0.00500	106	0.00530		0.00500	106
Zinc	0.0112		0.0100	112	0.0109		0.0100	109	0.0108		0.0100	108

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEI_10_CCVL_00045 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00045

Analyte	CCVL 480-196089/31 08/01/2014 18:27											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.209		0.200	105								
Antimony	0.0193	J	0.0200	96								
Arsenic	0.0148	J	0.0150	98								
Barium	0.00230		0.00200	115								
Beryllium	0.00209		0.00200	105								
Cadmium	0.00218		0.00200	109								
Calcium	0.505		0.500	101								
Chromium	0.00417		0.00400	104								
Cobalt	0.00401		0.00400	100								
Copper	0.00892	J	0.0100	89								
Iron	0.0419	J	0.0500	84								
Lead	0.0107		0.0100	107								
Magnesium	0.207		0.200	104								
Manganese	0.00342		0.00300	114								
Nickel	0.00936	J	0.0100	94								
Potassium	0.465	J	0.500	93								
Selenium	0.0230	J	0.0250	92								
Silver	0.00590	J	0.00600	98								
Sodium	0.945	J	1.00	95								
Thallium	0.0245		0.0200	123								
Vanadium	0.00509		0.00500	102								
Zinc	0.0105		0.0100	105								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEI_04_ICV_00258 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00169

Analyte	ICV 480-196174/6 08/04/2014 10:15				CCV 480-196174/14 08/04/2014 10:41				CCV 480-196174/26 08/04/2014 11:31			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Vanadium	0.367		0.375	98	0.483		0.500	97	0.486		0.500	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEI_10_CCVL_00045 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00045

Analyte	ICVL 480-196174/8 08/04/2014 10:20				CCVL 480-196174/16 08/04/2014 11:03				CCVL 480-196174/28 08/04/2014 11:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Vanadium	0.00504		0.00500	101	0.00510		0.00500	102	0.00454	J	0.00500	91

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEH_HG2_WKG_00703 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00703

Analyte	ICV 480-196076/5 08/01/2014 13:07				ICVL 480-196076/7 08/01/2014 13:10				CCV 480-196076/8 08/01/2014 13:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00305		0.00300	102	0.000150	J	0.000200	75	0.00193		0.00200	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEH_HG2_WKG_00703 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00703

Analyte	CCV 480-196076/20 08/01/2014 13:32				CCV 480-196076/32 08/01/2014 13:53				CCV 480-196076/44 08/01/2014 14:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00195		0.00200	98	0.00196		0.00200	98	0.00197		0.00200	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

ICV Source: MEH_HG2_WKG_00703 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00703

Analyte	CCV 480-196076/68 08/01/2014 14:58				CCV 480-196076/71 08/01/2014 15:03				CCVL 480-196076/73 08/01/2014 15:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00194		0.00200	97	0.00195		0.00200	98	0.000198	J	0.000200	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Method: 6010C Instrument ID: ICAP1

Lab Sample ID: CRI 480-196089/8 Concentration Units: mg/L

CRQL Check Standard Source: MEI_10_CRI_00010

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	0.200	0.198	J	99	
Antimony	0.0200	0.0191	J	95	
Arsenic	0.0100	0.00932	J	93	
Barium	0.00200	0.00225		113	
Beryllium	0.00200	0.00227		114	
Cadmium	0.00100	0.00118	J	118	
Calcium	0.500	0.545		109	
Chromium	0.00400	0.00429		107	
Cobalt	0.00400	0.00417		104	
Copper	0.0100	0.00942	J	94	
Iron	0.0500	0.0563		113	
Lead	0.00500	0.00503	J	101	
Magnesium	0.200	0.220		110	
Manganese	0.00300	0.00354		118	
Nickel	0.0100	0.00913	J	91	
Potassium	0.500	0.482	J	96	
Selenium	0.0150	0.0129	J	86	
Silver	0.00300	0.00259	J	86	
Sodium	1.00	0.965	J	96	
Thallium	0.0200	0.0191	J	96	
Vanadium	0.00500	0.00557		111	
Zinc	0.0100	0.0142		142	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Method: 6010C Instrument ID: ICAP2

Lab Sample ID: CRI 480-196174/11 Concentration Units: mg/L

CRQL Check Standard Source: MEI_10_CRI_00010

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Vanadium	0.00500	0.00515		103	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-196089/6 08/01/2014 10:54		CCB 480-196089/14 08/01/2014 17:18		CCB 480-196089/26 08/01/2014 17:51		CCB 480-196089/30 08/01/2014 18:24	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-196174/7 08/04/2014 10:18		CCB 480-196174/15 08/04/2014 10:44		CCB 480-196174/27 08/04/2014 11:34			
		Found	C	Found	C	Found	C	Found	C
Vanadium	0.0050	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-196076/6 08/01/2014 13:09		CCB 480-196076/9 08/01/2014 13:14		CCB 480-196076/21 08/01/2014 13:34		CCB 480-196076/33 08/01/2014 13:55	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-196076/45 08/01/2014 14:16		CCB 480-196076/69 08/01/2014 14:59		CCB 480-196076/72 08/01/2014 15:05			
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-195814/1-A

Instrument Code: ICAP1 Batch No.: 196089

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-195827/1-A

Instrument Code: LEEMAN2 Batch No.: 196076

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: ICSA 480-196089/9 Instrument ID: ICAP1

Lab File ID: i1080114b-8.asc ICS Source: MEI_07_ICSA_00068

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**531**	**106**
Antimony		**-0.0159**	
Arsenic		**-0.0029**	
Barium		**0.0001**	
Beryllium		**0.0001**	
Cadmium		**0.0010**	
Calcium	**500**	**475**	**95**
Chromium		**0.0012**	
Cobalt		**-0.0007**	
Copper		**0.0079**	
Iron	**200**	**189**	**95**
Lead		**-0.0003**	
Magnesium	**500**	**502**	**100**
Manganese		**0.0038**	
Nickel		**0.0061**	
Potassium		**0.0121**	
Selenium		**0.0065**	
Silver		**-0.0002**	
Sodium		**0.0364**	
Thallium		**-0.0143**	
Vanadium		**-0.0004**	
Zinc		**-0.0001**	
Boron		*0.0011*	
Lithium		*0.0086*	
Molybdenum		*-0.0034*	
Silicon		*0.0316*	
Strontium		*0.0144*	
Sulfur		*-0.0341*	
Tin		*-0.0003*	
Titanium		*0.0014*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: ICSAB 480-196089/10 Instrument ID: ICAP1

Lab File ID: i1080114b-8.asc ICS Source: MEI_08_ICSAB_00086

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**501**	**510**	**102**
Antimony	**0.600**	**0.599**	**100**
Arsenic	**0.100**	**0.0990**	**99**
Barium	**0.500**	**0.486**	**97**
Beryllium	**0.500**	**0.485**	**97**
Cadmium	**1.00**	**1.03**	**103**
Calcium	**501**	**467**	**93**
Chromium	**0.500**	**0.480**	**96**
Cobalt	**0.500**	**0.512**	**102**
Copper	**0.500**	**0.537**	**107**
Iron	**100**	**92.8**	**93**
Lead	**0.0500**	**0.0480**	**96**
Magnesium	**501**	**494**	**99**
Manganese	**0.500**	**0.481**	**96**
Nickel	**1.00**	**0.981**	**98**
Potassium		**0.0025**	
Selenium	**0.0500**	**0.0583**	**117**
Silver	**0.200**	**0.224**	**112**
Sodium		**0.148**	
Thallium	**0.100**	**0.0848**	**85**
Vanadium	**0.500**	**0.506**	**101**
Zinc	**1.00**	**0.919**	**92**
Boron		*0.0078*	
Lithium	*0.500*	*0.526*	*105*
Molybdenum		*-0.0015*	
Silicon	*1.00*	*1.04*	*104*
Strontium	*0.500*	*0.501*	*100*
Sulfur	*0.500*	*0.636*	*127*
Tin		*-0.0016*	
Titanium		*0.0027*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: ICSA 480-196174/12 Instrument ID: ICAP2

Lab File ID: I2080414A-1.asc ICS Source: MEI_07_ICSA_00068

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Vanadium		**0.0048**	
Aluminum	*500*	*513*	*103*
Antimony		*-0.0306*	
Arsenic		*-0.0043*	
Barium		*0.0001*	
Beryllium		*-0.0002*	
Boron		*-0.0046*	
Cadmium		*-0.0021*	
Calcium	*500*	*455*	*91*
Chromium		*-0.0009*	
Cobalt		*0.0012*	
Copper		*0.0015*	
Iron	*200*	*187*	*94*
Lead		*-0.0022*	
Lithium		*-0.0189*	
Magnesium	*500*	*517*	*103*
Manganese		*0.0039*	
Molybdenum		*-0.0032*	
Nickel		*-0.0013*	
Potassium		*-0.0069*	
Selenium		*0.0010*	
Silicon		*-0.0099*	
Silver		*0.0031*	
Sodium		*0.0271*	
Strontium		*0.0140*	
Sulfur		*-0.0493*	
Thallium		*0.0053*	
Tin		*0.0071*	
Titanium		*0.0013*	
Zinc		*0.0002*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Lab Sample ID: ICSAB 480-196174/13 Instrument ID: ICAP2

Lab File ID: I2080414A-1.asc ICS Source: MEI_08_ICSAB_00086

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Vanadium	**0.500**	**0.505**	**101**
Aluminum	*501*	*507*	*101*
Antimony	*0.600*	*0.594*	*99*
Arsenic	*0.100*	*0.104*	*104*
Barium	*0.500*	*0.481*	*96*
Beryllium	*0.500*	*0.480*	*96*
Boron		*0.0011*	
Cadmium	*1.00*	*1.02*	*102*
Calcium	*501*	*457*	*91*
Chromium	*0.500*	*0.477*	*95*
Cobalt	*0.500*	*0.521*	*104*
Copper	*0.500*	*0.532*	*106*
Iron	*100*	*92.2*	*92*
Lead	*0.0500*	*0.0489*	*98*
Lithium	*0.500*	*0.481*	*96*
Magnesium	*501*	*499*	*100*
Manganese	*0.500*	*0.475*	*95*
Molybdenum		*-0.0011*	
Nickel	*1.00*	*1.02*	*102*
Potassium		*0.0195*	
Selenium	*0.0500*	*0.0471*	*94*
Silicon	*1.00*	*1.01*	*101*
Silver	*0.200*	*0.230*	*115*
Sodium		*0.0888*	
Strontium	*0.500*	*0.484*	*97*
Sulfur	*0.500*	*0.636*	*127*
Thallium	*0.100*	*0.106*	*106*
Tin		*0.0058*	
Titanium		*0.0020*	
Zinc	*1.00*	*0.949*	*95*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: AS-WTPE-14-0044 MS
Lab ID: 480-64676-1 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-64676-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.37		0.11	J	10.0	103	75-125		6010C
Antimony	0.204		ND		0.200	102	75-125		6010C
Arsenic	0.208		ND		0.200	104	75-125		6010C
Barium	0.285		0.084		0.200	100	75-125		6010C
Beryllium	0.195		ND		0.200	97	75-125		6010C
Cadmium	0.208		ND		0.200	104	75-125		6010C
Calcium	178.6		172		10.0	68	75-125	4	6010C
Chromium	0.189		0.0011	J	0.200	94	75-125		6010C
Cobalt	0.205		0.0040		0.200	101	75-125		6010C
Copper	0.202		0.0019	J	0.200	100	75-125		6010C
Iron	9.59		0.047	J	10.0	95	75-125		6010C
Lead	0.201		ND		0.200	101	75-125		6010C
Magnesium	48.94		39.7		10.0	93	75-125		6010C
Manganese	0.859		0.68		0.200	91	75-125		6010C
Nickel	1.19		1.0		0.200	95	75-125	4	6010C
Potassium	17.74		7.8		10.0	99	75-125		6010C
Selenium	0.216		0.0093	J	0.200	104	75-125		6010C
Silver	0.0524		ND		0.0500	105	75-125		6010C
Sodium	112.8		104		10.0	88	75-125	4	6010C
Thallium	0.203		ND		0.200	101	75-125		6010C
Vanadium	0.201		ND		0.200	100	75-125		6010C
Zinc	0.199		0.0080	J	0.200	96	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: AS-WTPE-14-0044 MSD Lab ID: 480-64676-1 MSD

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	10.31		10.0	102	75-125	1	20		6010C
Antimony	0.203		0.200	102	75-125	0	20		6010C
Arsenic	0.207		0.200	103	75-125	1	20		6010C
Barium	0.288		0.200	102	75-125	1	20		6010C
Beryllium	0.195		0.200	98	75-125	0	20		6010C
Cadmium	0.207		0.200	104	75-125	0	20		6010C
Calcium	184.1		10.0	123	75-125	3	20	4	6010C
Chromium	0.191		0.200	95	75-125	1	20		6010C
Cobalt	0.206		0.200	101	75-125	1	20		6010C
Copper	0.202		0.200	100	75-125	0	20		6010C
Iron	9.62		10.0	96	75-125	0	20		6010C
Lead	0.202		0.200	101	75-125	1	20		6010C
Magnesium	49.99		10.0	103	75-125	2	20		6010C
Manganese	0.879		0.200	101	75-125	2	20		6010C
Nickel	1.22		0.200	107	75-125	2	20	4	6010C
Potassium	17.75		10.0	99	75-125	0	20		6010C
Selenium	0.216		0.200	103	75-125	0	20		6010C
Silver	0.0519		0.0500	104	75-125	1	20		6010C
Sodium	115.1		10.0	111	75-125	2	20	4	6010C
Thallium	0.204		0.200	102	75-125	1	20		6010C
Vanadium	0.203		0.200	101	75-125	1	20		6010C
Zinc	0.202		0.200	97	75-125	1	20		6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: AS-WTPE-14-0044 PDS Lab ID: 480-64676-1 PDS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Matrix: Water Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.44		0.11	J	10.0	103	75-125		6010C
Antimony	0.214		ND		0.200	107	75-125		6010C
Arsenic	0.220		ND		0.200	110	75-125		6010C
Barium	0.285		0.084		0.200	100	75-125		6010C
Beryllium	0.206		ND		0.200	103	75-125		6010C
Cadmium	0.220		ND		0.200	110	75-125		6010C
Calcium	181.1		172		10.0	NC	75-125		6010C
Chromium	0.206		0.0011	J	0.200	102	75-125		6010C
Cobalt	0.218		0.0040		0.200	107	75-125		6010C
Copper	0.209		0.0019	J	0.200	104	75-125		6010C
Iron	10.08		0.047	J	10.0	100	75-125		6010C
Lead	0.213		ND		0.200	107	75-125		6010C
Magnesium	49.61		39.7		10.0	99	75-125		6010C
Manganese	0.869		0.68		0.200	96	75-125		6010C
Nickel	1.21		1.0		0.200	101	75-125		6010C
Potassium	17.86		7.8		10.0	100	75-125		6010C
Selenium	0.233		0.0093	J	0.200	112	75-125		6010C
Silver	0.0500		ND		0.0500	100	75-125		6010C
Sodium	113.5		104		10.0	NC	75-125		6010C
Thallium	0.214		ND		0.200	107	75-125		6010C
Vanadium	0.212		ND		0.200	106	75-125		6010C
Zinc	0.207		0.0080	J	0.200	100	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-195814/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

Sample Matrix: Water LCS Source: MED_02_W2_00020

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	10.40		104	80	120		6010C
Antimony	0.200	0.202		101	80	120		6010C
Arsenic	0.200	0.206		103	80	120		6010C
Barium	0.200	0.215		108	80	120		6010C
Beryllium	0.200	0.201		100	80	120		6010C
Cadmium	0.200	0.205		103	80	120		6010C
Calcium	10.0	9.97		100	80	120		6010C
Chromium	0.200	0.199		99	80	120		6010C
Cobalt	0.200	0.203		102	80	120		6010C
Copper	0.200	0.199		99	80	120		6010C
Iron	10.0	9.97		100	80	120		6010C
Lead	0.200	0.206		103	80	120		6010C
Magnesium	10.0	10.59		106	80	120		6010C
Manganese	0.200	0.206		103	80	120		6010C
Nickel	0.200	0.195		98	80	120		6010C
Potassium	10.0	9.72		97	80	120		6010C
Selenium	0.200	0.204		102	80	120		6010C
Silver	0.0500	0.0519		104	80	120		6010C
Sodium	10.0	9.90		99	80	120		6010C
Thallium	0.200	0.207		104	80	120		6010C
Vanadium	0.200	0.211		105	80	120		6010C
Zinc	0.200	0.201		101	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-195827/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

Sample Matrix: Water LCS Source: MEH_HG2_WKG_00703

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00643		96	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-64676-1

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-64676-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	0.11	J	ND		NC		6010C
Antimony	ND		ND		NC		6010C
Arsenic	ND		ND		NC		6010C
Barium	0.084		0.0856		1.6		6010C
Beryllium	ND		ND		NC		6010C
Cadmium	ND		ND		NC		6010C
Calcium	172		170.0		1.1		6010C
Chromium	0.0011	J	ND		NC		6010C
Cobalt	0.0040		0.00390	J	NC		6010C
Copper	0.0019	J	ND		NC		6010C
Iron	0.047	J	ND		NC		6010C
Lead	ND		ND		NC		6010C
Magnesium	39.7		38.64		2.6		6010C
Manganese	0.68		0.677		0.11		6010C
Nickel	1.0		0.963		4.1		6010C
Potassium	7.8		7.08		9.4		6010C
Selenium	0.0093	J	ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	104		98.95		4.9		6010C
Thallium	ND		ND		NC		6010C
Vanadium	ND		ND		NC		6010C
Zinc	0.0080	J	0.0127	J	NC		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-64676-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	324.754	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-64676-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	324.754	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-64676-1

SDG Number:

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Vanadium	292.402	0.005	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-64676-1

SDG Number:

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Vanadium	292.402	0.005	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-64676-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-64676-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-64676-1

SDG No.:

Instrument ID: ICAP1 Date: 03/07/2014 15:41

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	1000	6010C
Antimony	15	50	6010C
Arsenic	15	40	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	40	6010C
Cobalt	15	20	6010C
Copper	15	20	6010C
Iron	15	800	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	20	6010C
Potassium	15	600	6010C
Selenium	15	50	6010C
Silver	15	2	6010C
Sodium	15	5000	6010C
Thallium	15	40	6010C
Vanadium	15	50	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-64676-1

SDG No.:

Instrument ID: ICAP2 Date: 03/07/2014 15:41

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Vanadium	15	50	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-64676-1

SDG No.:

Instrument ID: LEEMAN2 Date: 02/06/2014 08:36

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-195814/1-A	08/01/2014 06:30	195814		50	50
LCS 480-195814/2-A	08/01/2014 06:30	195814		50	50
480-64676-1	08/01/2014 06:30	195814		50	50
480-64676-1 MS	08/01/2014 06:30	195814		50	50
480-64676-1 MSD	08/01/2014 06:30	195814		50	50
480-64676-2	08/01/2014 06:30	195814		50	50
480-64676-3	08/01/2014 06:30	195814		50	50
480-64676-4	08/01/2014 06:30	195814		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-195827/1-A	08/01/2014 09:00	195827		30	50
LCS 480-195827/2-A	08/01/2014 09:00	195827		30	50
480-64676-1	08/01/2014 09:00	195827		30	50
480-64676-2	08/01/2014 09:00	195827		30	50
480-64676-3	08/01/2014 09:00	195827		30	50
480-64676-4	08/01/2014 09:00	195827		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/01/2014 10:40 End Date: 08/01/2014 18:27

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
IC 480-196089/1			10:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-196089/2			10:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-196089/3			10:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-196089/4			10:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-196089/5	1		10:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-196089/6	1		10:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-196089/7	1		10:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 480-196089/8	1		11:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-196089/9	1		11:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-196089/10	1		11:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-196089/11			11:08																				
CCB 480-196089/12			11:11																				
CCV 480-196089/13	1		17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-196089/14	1		17:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-196089/15	1		17:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-195814/1-A	1	T	17:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-195814/2-A	1	T	17:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-1	1	T	17:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-1 SD	5	T	17:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-1 PDS	1	T	17:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-1 MS	1	T	17:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-1 MSD	1	T	17:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-2	1	T	17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-3	1	T	17:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-196089/25	1		17:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-196089/26	1		17:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-196089/27	1		17:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-64676-4	1	T	17:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-196089/29	1		18:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-196089/30	1		18:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-196089/31	1		18:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/01/2014 10:40 End Date: 08/01/2014 18:27

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
IC 480-196089/1			10:40	X	X																		
IC 480-196089/2			10:43	X	X																		
IC 480-196089/3			10:46	X	X																		
IC 480-196089/4			10:49	X	X																		
ICV 480-196089/5	1		10:51	X	X																		
ICB 480-196089/6	1		10:54	X	X																		
ICVL 480-196089/7	1		10:57	X	X																		
CRI 480-196089/8	1		11:00	X	X																		
ICSA 480-196089/9	1		11:02	X	X																		
ICSAB 480-196089/10	1		11:05	X	X																		
CCV 480-196089/11			11:08																				
CCB 480-196089/12			11:11																				
CCV 480-196089/13	1		17:15	X	X																		
CCB 480-196089/14	1		17:18	X	X																		
CCVL 480-196089/15	1		17:21	X	X																		
MB 480-195814/1-A	1	T	17:24	X	X																		
LCS 480-195814/2-A	1	T	17:26	X	X																		
480-64676-1	1	T	17:29	X	X																		
480-64676-1 SD	5	T	17:32	X	X																		
480-64676-1 PDS	1	T	17:35	X	X																		
480-64676-1 MS	1	T	17:37	X	X																		
480-64676-1 MSD	1	T	17:40	X	X																		
480-64676-2	1	T	17:43		X																		
480-64676-3	1	T	17:45		X																		
CCV 480-196089/25	1		17:48	X	X																		
CCB 480-196089/26	1		17:51	X	X																		
CCVL 480-196089/27	1		17:54	X	X																		
480-64676-4	1	T	17:57		X																		
CCV 480-196089/29	1		18:21	X	X																		
CCB 480-196089/30	1		18:24	X	X																		
CCVL 480-196089/31	1		18:27	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/04/2014 09:57 End Date: 08/04/2014 11:47

Lab Sample ID	D / F	Type	Time	Analytes																			
				V																			
IC 480-196174/1			09:57	X																			
IC 480-196174/2			10:00	X																			
IC 480-196174/3			10:02	X																			
IC 480-196174/4			10:05	X																			
ICV 480-196174/5			10:08																				
ICV 480-196174/6	1		10:15	X																			
ICB 480-196174/7	1		10:18	X																			
ICVL 480-196174/8	1		10:20	X																			
ZZZZZZ			10:23																				
ZZZZZZ			10:26																				
CRI 480-196174/11	1		10:32	X																			
ICSA 480-196174/12	1		10:35	X																			
ICSAB 480-196174/13	1		10:38	X																			
CCV 480-196174/14	1		10:41	X																			
CCB 480-196174/15	1		10:44	X																			
CCVL 480-196174/16	1		11:03	X																			
ZZZZZZ			11:06																				
ZZZZZZ			11:09																				
ZZZZZZ			11:12																				
ZZZZZZ			11:14																				
ZZZZZZ			11:17																				
480-64676-2	2	T	11:20	X																			
480-64676-3	2	T	11:23	X																			
480-64676-4	2	T	11:26	X																			
ZZZZZZ			11:28																				
CCV 480-196174/26	1		11:31	X																			
CCB 480-196174/27	1		11:34	X																			
CCVL 480-196174/28	1		11:37	X																			
ZZZZZZ			11:47																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 08/01/2014 12:59 End Date: 08/01/2014 15:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			12:59																				
ZZZZZZ			13:01																				
ZZZZZZ			13:02																				
ZZZZZZ			13:05																				
ICV 480-196076/5	1		13:07	X																			
ICB 480-196076/6	1		13:09	X																			
ICVL 480-196076/7	1		13:10	X																			
CCV 480-196076/8	1		13:12	X																			
CCB 480-196076/9	1		13:14	X																			
MB 480-195827/1-A	1	T	13:15	X																			
ZZZZZZ			13:17																				
ZZZZZZ			13:19																				
ZZZZZZ			13:20																				
ZZZZZZ			13:22																				
ZZZZZZ			13:24																				
ZZZZZZ			13:25																				
ZZZZZZ			13:27																				
ZZZZZZ			13:29																				
ZZZZZZ			13:30																				
CCV 480-196076/20	1		13:32	X																			
CCB 480-196076/21	1		13:34	X																			
ZZZZZZ			13:35																				
ZZZZZZ			13:37																				
ZZZZZZ			13:39																				
ZZZZZZ			13:41																				
ZZZZZZ			13:43																				
ZZZZZZ			13:45																				
ZZZZZZ			13:46																				
ZZZZZZ			13:48																				
480-64676-1	1	T	13:49	X																			
480-64676-2	1	T	13:51	X																			
CCV 480-196076/32	1		13:53	X																			
CCB 480-196076/33	1		13:55	X																			
480-64676-3	1	T	13:56	X																			
480-64676-4	1	T	13:58	X																			
ZZZZZZ			14:00																				
ZZZZZZ			14:02																				
ZZZZZZ			14:04																				
ZZZZZZ			14:05																				
ZZZZZZ			14:07																				
ZZZZZZ			14:09																				
ZZZZZZ			14:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 08/01/2014 12:59 End Date: 08/01/2014 15:06

Lab Sample ID	D / F	Type	Time	Analytes																				
				Hg																				
ZZZZZZ			14:12																					
CCV 480-196076/44	1		14:14	X																				
CCB 480-196076/45	1		14:16	X																				
ZZZZZZ			14:18																					
ZZZZZZ			14:19																					
ZZZZZZ			14:22																					
ZZZZZZ			14:24																					
ZZZZZZ			14:25																					
ZZZZZZ			14:27																					
ZZZZZZ			14:29																					
ZZZZZZ			14:31																					
ZZZZZZ			14:32																					
ZZZZZZ			14:34																					
CCV 480-196076/56			14:36																					
CCB 480-196076/57			14:38																					
ZZZZZZ			14:40																					
ZZZZZZ			14:42																					
ZZZZZZ			14:43																					
ZZZZZZ			14:45																					
ZZZZZZ			14:47																					
ZZZZZZ			14:49																					
ZZZZZZ			14:50																					
ZZZZZZ			14:52																					
ZZZZZZ			14:54																					
ZZZZZZ			14:56																					
CCV 480-196076/68	1		14:58	X																				
CCB 480-196076/69	1		14:59	X																				
LCS 480-195827/2-A	1	T	15:01	X																				
CCV 480-196076/71	1		15:03	X																				
CCB 480-196076/72	1		15:05	X																				
CCVL 480-196076/73	1		15:06	X																				

Prep Types

T = Total/NA

Run File: i1080114b Instrument: ICAP1

Analyst: zl 8/4/14 Data Review: 8/4/14

Spikes IDs: 1730804(W1), 2182959 (W2), 2146244(Sn), 2146257(Ag), 2146221(Si), 1844338(TCLP)

Pipette IDs: 4-17-14-(1-7,8,10,13,14)
Internal Standard: 2051991

Seq#	Run File ID	Sample ID	Date / Time	Type
1	i1080114b	IC-2222437	08/01/14 10:40 AM	Standard
2	i1080114b	IC-2222402	08/01/14 10:43 AM	Standard
3	i1080114b	IC-2214250	08/01/14 10:46 AM	Standard
4	i1080114b	IC-2214249	08/01/14 10:49 AM	Standard
5	i1080114b	ICV-2224573	08/01/14 10:51 AM	QC
6	i1080114b	ICB-2222437	08/01/14 10:54 AM	QC
7	i1080114b	ICVL-2222402	08/01/14 10:57 AM	QC
8	i1080114b	CRI-2210843	08/01/14 11:00 AM	QC
9	i1080114b	ICSA-2204542	08/01/14 11:02 AM	QC
10	i1080114b	ICSAB-2222403	08/01/14 11:05 AM	QC
11	i1080114b	CCV-2222404	08/01/14 11:08 AM	QC
12	i1080114b	CCB-2222437	08/01/14 11:11 AM	QC
13	i1080114b	CCVL-2222402	08/01/14 11:15 AM	QC
14	i1080114b	480-64532-E-3-D	08/01/14 11:18 AM	Unknown
15	i1080114b	480-64532-E-3-D SD@5	08/01/14 11:21 AM	Unknown
16	i1080114b	480-64532-E-3-D PDS	08/01/14 11:24 AM	Unknown
17	i1080114b	480-64532-E-3-E MS	08/01/14 11:27 AM	Unknown
18	i1080114b	480-64532-E-3-F MSD	08/01/14 11:29 AM	Unknown
19	i1080114b	BLANK	08/01/14 11:32 AM	Unknown
20	i1080114b	MB 480-195596/1-A	08/01/14 11:35 AM	Unknown
21	i1080114b	LCS 480-195596/2-A	08/01/14 11:38 AM	Unknown
22	i1080114b	480-64621-B-1-A	08/01/14 11:40 AM	Unknown
23	i1080114b	CCV	08/01/14 11:43 AM	QC
24	i1080114b	CCB	08/01/14 11:46 AM	QC
25	i1080114b	CCVL-2222402	08/01/14 11:49 AM	QC
26	i1080114b	CCV-2222404	08/01/14 12:06 PM	QC
27	i1080114b	CCB-2222437	08/01/14 12:09 PM	QC
28	i1080114b	CCVL-2222402	08/01/14 12:18 PM	QC
29	i1080114b	480-64311-F-7-C	08/01/14 12:21 PM	Unknown
30	i1080114b	BLANK	08/01/14 12:23 PM	Unknown
31	i1080114b	480-64420-A-1-A	08/01/14 12:26 PM	Unknown
32	i1080114b	480-64420-A-2-A	08/01/14 12:29 PM	Unknown
33	i1080114b	480-64420-A-3-A	08/01/14 12:32 PM	Unknown
34	i1080114b	480-64420-A-4-A	08/01/14 12:35 PM	Unknown
35	i1080114b	480-64420-B-5-A	08/01/14 12:38 PM	Unknown
36	i1080114b	480-64420-A-6-A	08/01/14 12:40 PM	Unknown
37	i1080114b	BLANK	08/01/14 12:43 PM	Unknown
38	i1080114b	CCV	08/01/14 12:46 PM	QC
39	i1080114b	CCB	08/01/14 12:49 PM	QC
40	i1080114b	CCVL-2222402	08/01/14 12:52 PM	QC

41	i1080114b	480-64454-A-30-A	08/01/14 12:55 PM Unknown
42	i1080114b	480-64454-A-31-A	08/01/14 12:58 PM Unknown
43	i1080114b	480-64454-B-32-B	08/01/14 01:00 PM Unknown
44	i1080114b	480-64454-A-32-F MS	08/01/14 01:03 PM Unknown
45	i1080114b	480-64454-D-32-B MSD	08/01/14 01:06 PM Unknown
46	i1080114b	BLANK	08/01/14 01:09 PM Unknown
47	i1080114b	LCSSRM 480-195490/2-	08/01/14 01:11 PM Unknown
48	i1080114b	480-64418-B-2-B@5	08/01/14 01:14 PM Unknown
49	i1080114b	BLANK	08/01/14 01:17 PM Unknown
50	i1080114b	CCV	08/01/14 01:20 PM QC
51	i1080114b	CCB	08/01/14 01:23 PM QC
52	i1080114b	CCVL-2222402	08/01/14 01:25 PM QC
53	i1080114b	MB 480-195602/1-A	08/01/14 01:28 PM Unknown
54	i1080114b	LCS 480-195602/2-A	08/01/14 01:31 PM Unknown
55	i1080114b	480-64589-B-1-A	08/01/14 01:34 PM Unknown
56	i1080114b	480-64589-B-1-A SD@5	08/01/14 01:37 PM Unknown
57	i1080114b	480-64589-B-1-A PDS	08/01/14 01:40 PM Unknown
58	i1080114b	480-64589-B-1-B MS	08/01/14 01:42 PM Unknown
59	i1080114b	480-64589-B-1-C MSD	08/01/14 01:45 PM Unknown
60	i1080114b	480-64589-B-2-A	08/01/14 01:48 PM Unknown
61	i1080114b	480-64589-B-3-A	08/01/14 01:50 PM Unknown
62	i1080114b	CCV	08/01/14 01:53 PM QC
63	i1080114b	CCB	08/01/14 01:56 PM QC
64	i1080114b	CCVL-2222402	08/01/14 01:59 PM QC
65	i1080114b	480-64589-B-4-A	08/01/14 02:02 PM Unknown
66	i1080114b	480-64589-B-5-A	08/01/14 02:05 PM Unknown
67	i1080114b	BLANK	08/01/14 02:07 PM Unknown
68	i1080114b	MB 480-195599/1-A	08/01/14 02:10 PM Unknown
69	i1080114b	LCS 480-195599/2-A	08/01/14 02:13 PM Unknown
70	i1080114b	480-64571-A-1-A	08/01/14 02:16 PM Unknown
71	i1080114b	480-64571-A-1-A SD@5	08/01/14 02:19 PM Unknown
72	i1080114b	480-64571-A-1-A PDS	08/01/14 02:21 PM Unknown
73	i1080114b	480-64571-A-1-B MS	08/01/14 02:24 PM Unknown
74	i1080114b	CCV	08/01/14 02:27 PM QC
75	i1080114b	CCB	08/01/14 02:30 PM QC
76	i1080114b	CCVL-2222402	08/01/14 02:32 PM QC
77	i1080114b	480-64571-A-1-C MSD	08/01/14 02:35 PM Unknown
78	i1080114b	480-64571-A-2-A	08/01/14 02:38 PM Unknown
79	i1080114b	480-64571-A-3-A	08/01/14 02:41 PM Unknown
80	i1080114b	480-64571-A-4-A	08/01/14 02:44 PM Unknown
81	i1080114b	480-64559-C-1-A	08/01/14 02:46 PM Unknown
82	i1080114b	480-64567-C-1-A	08/01/14 02:49 PM Unknown
83	i1080114b	480-64567-C-2-A	08/01/14 02:52 PM Unknown
84	i1080114b	480-64567-C-3-A	08/01/14 02:55 PM Unknown
85	i1080114b	480-64567-C-4-A	08/01/14 02:57 PM Unknown
86	i1080114b	CCV	08/01/14 03:00 PM QC
87	i1080114b	CCB	08/01/14 03:03 PM QC
88	i1080114b	CCVL-2222402	08/01/14 03:06 PM QC
89	i1080114b	480-64567-C-5-A	08/01/14 03:09 PM Unknown
90	i1080114b	480-64570-C-1-A	08/01/14 03:12 PM Unknown

91	i1080114b	480-64570-C-2-A	08/01/14 03:14 PM Unknown
92	i1080114b	480-64570-C-3-A	08/01/14 03:17 PM Unknown
93	i1080114b	480-64570-C-4-A	08/01/14 03:20 PM Unknown
94	i1080114b	480-64572-A-1-A	08/01/14 03:23 PM Unknown
95	i1080114b	480-64572-A-2-A	08/01/14 03:25 PM Unknown
96	i1080114b	480-64572-A-3-A	08/01/14 03:28 PM Unknown
97	i1080114b	480-64572-A-4-A	08/01/14 03:31 PM Unknown
98	i1080114b	CCV	08/01/14 03:34 PM QC
99	i1080114b	CCB	08/01/14 03:37 PM QC
100	i1080114b	CCVL-2222402	08/01/14 03:39 PM QC
101	i1080114b	480-64572-A-5-A	08/01/14 03:42 PM Unknown
102	i1080114b	480-64573-C-1-A	08/01/14 03:45 PM Unknown
103	i1080114b	BLANK	08/01/14 03:48 PM Unknown
104	i1080114b	MB 480-195717/1-A	08/01/14 03:51 PM Unknown
105	i1080114b	LCS 480-195717/2-A	08/01/14 03:54 PM Unknown
106	i1080114b	480-64447-C-1-A	08/01/14 03:56 PM Unknown
107	i1080114b	480-64447-C-2-A	08/01/14 03:59 PM Unknown
108	i1080114b	480-64447-C-3-A	08/01/14 04:02 PM Unknown
109	i1080114b	480-64447-C-3-A SD@5	08/01/14 04:05 PM Unknown
110	i1080114b	CCV	08/01/14 04:08 PM QC
111	i1080114b	CCB	08/01/14 04:10 PM QC
112	i1080114b	CCVL-2222402	08/01/14 04:13 PM QC
113	i1080114b	480-64447-C-3-A PDS	08/01/14 04:16 PM Unknown
114	i1080114b	480-64447-C-3-B MS	08/01/14 04:19 PM Unknown
115	i1080114b	480-64447-C-3-C MSD	08/01/14 04:21 PM Unknown
116	i1080114b	480-64447-C-4-A	08/01/14 04:24 PM Unknown
117	i1080114b	480-64447-C-6-A	08/01/14 04:27 PM Unknown
118	i1080114b	480-64391-C-1-A	08/01/14 04:30 PM Unknown
119	i1080114b	480-64391-C-2-A	08/01/14 04:33 PM Unknown
120	i1080114b	480-64391-C-3-A	08/01/14 04:35 PM Unknown
121	i1080114b	480-64590-C-1-A	08/01/14 04:38 PM Unknown
122	i1080114b	CCV	08/01/14 04:41 PM QC
123	i1080114b	CCB	08/01/14 04:44 PM QC
124	i1080114b	CCVL-2222402	08/01/14 04:47 PM QC
125	i1080114b	480-64590-C-2-A	08/01/14 04:50 PM Unknown
126	i1080114b	480-64590-C-3-A	08/01/14 04:52 PM Unknown
127	i1080114b	480-64590-C-4-A	08/01/14 04:55 PM Unknown
128	i1080114b	480-64590-C-5-A	08/01/14 04:58 PM Unknown
129	i1080114b	480-64590-C-6-A	08/01/14 05:01 PM Unknown
130	i1080114b	480-64590-C-7-A	08/01/14 05:04 PM Unknown
131	i1080114b	480-64507-C-1-A	08/01/14 05:07 PM Unknown
132	i1080114b	480-64507-C-2-A	08/01/14 05:09 PM Unknown
133	i1080114b	BLANK	08/01/14 05:12 PM Unknown
134	i1080114b	CCV	08/01/14 05:15 PM QC
135	i1080114b	CCB	08/01/14 05:18 PM QC
136	i1080114b	CCVL-2222402	08/01/14 05:21 PM QC
137	i1080114b	MB 480-195814/1-A	08/01/14 05:24 PM Unknown
138	i1080114b	LCS 480-195814/2-A	08/01/14 05:26 PM Unknown
139	i1080114b	480-64676-E-1-A	08/01/14 05:29 PM Unknown
140	i1080114b	480-64676-E-1-A SD@5	08/01/14 05:32 PM Unknown

141	i1080114b	480-64676-E-1-A PDS	08/01/14 05:35 PM Unknown
142	i1080114b	480-64676-E-1-B MS	08/01/14 05:37 PM Unknown
143	i1080114b	480-64676-E-1-C MSD	08/01/14 05:40 PM Unknown
144	i1080114b	480-64676-E-2-A	08/01/14 05:43 PM Unknown
145	i1080114b	480-64676-E-3-A	08/01/14 05:45 PM Unknown
146	i1080114b	CCV	08/01/14 05:48 PM QC
147	i1080114b	CCB	08/01/14 05:51 PM QC
148	i1080114b	CCVL-2222402	08/01/14 05:54 PM QC
149	i1080114b	480-64676-E-4-A	08/01/14 05:57 PM Unknown
150	i1080114b	BLANK	08/01/14 05:59 PM Unknown
151	i1080114b	MB 480-195593/1-A	08/01/14 06:02 PM Unknown
152	i1080114b	LCS 480-195593/2-A	08/01/14 06:05 PM Unknown
153	i1080114b	480-64615-A-1-A	08/01/14 06:08 PM Unknown
154	i1080114b	480-64615-A-1-A SD@5	08/01/14 06:10 PM Unknown
155	i1080114b	480-64615-A-1-A PDS	08/01/14 06:13 PM Unknown
156	i1080114b	480-64615-A-1-B MS	08/01/14 06:16 PM Unknown
157	i1080114b	480-64615-A-1-C MSD	08/01/14 06:19 PM Unknown
158	i1080114b	CCV	08/01/14 06:21 PM QC
159	i1080114b	CCB	08/01/14 06:24 PM QC
160	i1080114b	CCVL-2222402	08/01/14 06:27 PM QC
161	i1080114b	480-64554-E-1-A	08/01/14 06:30 PM Unknown
162	i1080114b	480-64554-E-2-A	08/01/14 06:33 PM Unknown
163	i1080114b	480-64552-J-1-A	08/01/14 06:35 PM Unknown
164	i1080114b	480-64557-A-3-A	08/01/14 06:38 PM Unknown
165	i1080114b	480-64568-C-1-A	08/01/14 06:41 PM Unknown
166	i1080114b	480-64568-C-2-A	08/01/14 06:44 PM Unknown
167	i1080114b	480-64568-C-3-A	08/01/14 06:47 PM Unknown
168	i1080114b	480-64568-C-4-A	08/01/14 06:50 PM Unknown
169	i1080114b	480-64583-C-1-A	08/01/14 06:53 PM Unknown
170	i1080114b	CCV	08/01/14 06:55 PM QC
171	i1080114b	CCB	08/01/14 06:58 PM QC
172	i1080114b	480-64583-E-2-A	08/01/14 07:01 PM Unknown
173	i1080114b	480-64616-A-1-A	08/01/14 07:04 PM Unknown
174	i1080114b	480-64616-A-1-B MS	08/01/14 07:07 PM Unknown
175	i1080114b	480-64616-A-1-C MSD	08/01/14 07:09 PM Unknown
176	i1080114b	480-64588-B-1-A	08/01/14 07:12 PM Unknown
177	i1080114b	480-64588-B-2-A	08/01/14 07:15 PM Unknown
178	i1080114b	480-64597-D-1-A	08/01/14 07:18 PM Unknown
179	i1080114b	480-64597-A-2-A	08/01/14 07:20 PM Unknown
180	i1080114b	480-64622-B-3-A	08/01/14 07:23 PM Unknown
181	i1080114b	480-64566-D-1-A	08/01/14 07:26 PM Unknown
182	i1080114b	CCV	08/01/14 07:29 PM QC
183	i1080114b	CCB	08/01/14 07:32 PM QC
184	i1080114b	CCVL-2222402	08/01/14 07:35 PM QC
185	i1080114b	MB 480-195523/1-B	08/01/14 07:37 PM Unknown
186	i1080114b	LCS 480-195523/2-B	08/01/14 07:40 PM Unknown
187	i1080114b	480-64436-A-1-B	08/01/14 07:43 PM Unknown
188	i1080114b	480-64436-A-1-B SD@5	08/01/14 07:46 PM Unknown
189	i1080114b	480-64436-A-1-B PDS	08/01/14 07:49 PM Unknown
190	i1080114b	480-64436-A-1-C MS	08/01/14 07:51 PM Unknown

191	i1080114b	480-64436-A-1-D MSD	08/01/14 07:54 PM Unknown
192	i1080114b	480-64436-A-3-B	08/01/14 07:57 PM Unknown
193	i1080114b	480-64436-A-4-B	08/01/14 08:00 PM Unknown
194	i1080114b	CCV	08/01/14 08:03 PM QC
195	i1080114b	CCB	08/01/14 08:06 PM QC
196	i1080114b	CCVL-2222402	08/01/14 08:08 PM QC
197	i1080114b	480-64436-A-5-B	08/01/14 08:11 PM Unknown
198	i1080114b	480-64436-A-6-B	08/01/14 08:14 PM Unknown
199	i1080114b	480-64436-A-7-B	08/01/14 08:17 PM Unknown
200	i1080114b	480-64436-A-8-B	08/01/14 08:20 PM Unknown
201	i1080114b	480-64436-A-9-B	08/01/14 08:23 PM Unknown
202	i1080114b	480-64436-A-10-B	08/01/14 08:26 PM Unknown
203	i1080114b	480-64436-A-11-B	08/01/14 08:29 PM Unknown
204	i1080114b	480-64436-A-12-B	08/01/14 08:32 PM Unknown
205	i1080114b	480-64389-F-1-B	08/01/14 08:35 PM Unknown
206	i1080114b	CCV	08/01/14 08:37 PM QC
207	i1080114b	CCB	08/01/14 08:40 PM QC
208	i1080114b	CCVL-2222402	08/01/14 08:43 PM QC
209	i1080114b	480-64031-F-1-B	08/01/14 08:46 PM Unknown
210	i1080114b	480-64380-G-1-E	08/01/14 08:49 PM Unknown
211	i1080114b	480-64380-G-2-C	08/01/14 08:52 PM Unknown
212	i1080114b	480-64380-G-3-C	08/01/14 08:54 PM Unknown
213	i1080114b	BLANK	08/01/14 08:57 PM Unknown
214	i1080114b	MB 480-195878/1-A	08/01/14 09:00 PM Unknown
215	i1080114b	LCS 480-195878/2-A	08/01/14 09:03 PM Unknown
216	i1080114b	480-64648-C-1-A	08/01/14 09:06 PM Unknown
217	i1080114b	480-64648-C-2-A	08/01/14 09:08 PM Unknown
218	i1080114b	CCV	08/01/14 09:11 PM QC
219	i1080114b	CCB	08/01/14 09:14 PM QC
220	i1080114b	CCVL-2222402	08/01/14 09:17 PM QC
221	i1080114b	480-64648-C-2-A	08/01/14 09:20 PM Unknown
222	i1080114b	480-64648-C-2-A	08/01/14 09:22 PM Unknown
223	i1080114b	480-64648-C-2-B MS	08/01/14 09:25 PM Unknown
224	i1080114b	480-64648-C-2-C MSD	08/01/14 09:28 PM Unknown
225	i1080114b	480-64648-C-3-A	08/01/14 09:31 PM Unknown
226	i1080114b	480-64646-E-1-B	08/01/14 09:34 PM Unknown
227	i1080114b	480-64646-E-2-B	08/01/14 09:36 PM Unknown
228	i1080114b	480-64646-E-3-B	08/01/14 09:39 PM Unknown
229	i1080114b	480-64646-E-4-B	08/01/14 09:42 PM Unknown
230	i1080114b	CCV	08/01/14 09:45 PM QC
231	i1080114b	CCB	08/01/14 09:47 PM QC
232	i1080114b	CCVL-2222402	08/01/14 09:50 PM QC
233	i1080114b	480-64646-E-5-B	08/01/14 09:53 PM Unknown
234	i1080114b	480-64643-D-1-A	08/01/14 09:56 PM Unknown
235	i1080114b	480-64647-G-2-A	08/01/14 09:59 PM Unknown
236	i1080114b	480-64647-G-3-A	08/01/14 10:02 PM Unknown
237	i1080114b	480-64647-G-4-A	08/01/14 10:05 PM Unknown
238	i1080114b	480-64647-G-5-A	08/01/14 10:07 PM Unknown
239	i1080114b	480-64647-G-6-A	08/01/14 10:10 PM Unknown
240	i1080114b	480-64647-G-7-A	08/01/14 10:13 PM Unknown

241	i1080114b	480-64370-C-2-B	08/01/14 10:16 PM Unknown
242	i1080114b	CCV	08/01/14 10:19 PM QC
243	i1080114b	CCB	08/01/14 10:21 PM QC
244	i1080114b	CCVL-2222402	08/01/14 10:24 PM QC
245	i1080114b	480-64233-A-7-B	08/01/14 10:27 PM Unknown
246	i1080114b	480-64247-A-8-A	08/01/14 10:30 PM Unknown
247	i1080114b	480-64628-B-1-B	08/01/14 10:33 PM Unknown
248	i1080114b	BLANK	08/01/14 10:36 PM Unknown
249	i1080114b	LCSSRM 480-195490/2-	08/01/14 10:39 PM Unknown
250	i1080114b	BLANK	08/01/14 10:41 PM Unknown
251	i1080114b	ICSA-2204542	08/01/14 10:44 PM QC
252	i1080114b	ICSAB-2222403	08/01/14 10:47 PM QC
253	i1080114b	BLANK	08/01/14 10:50 PM Unknown
254	i1080114b	CCV	08/01/14 10:53 PM QC
255	i1080114b	CCB	08/01/14 10:56 PM QC
256	i1080114b	CCVL-2222402	08/01/14 10:58 PM QC
257	i1080114b	CCV	08/01/14 11:01 PM QC
258	i1080114b	CCB	08/01/14 11:04 PM QC

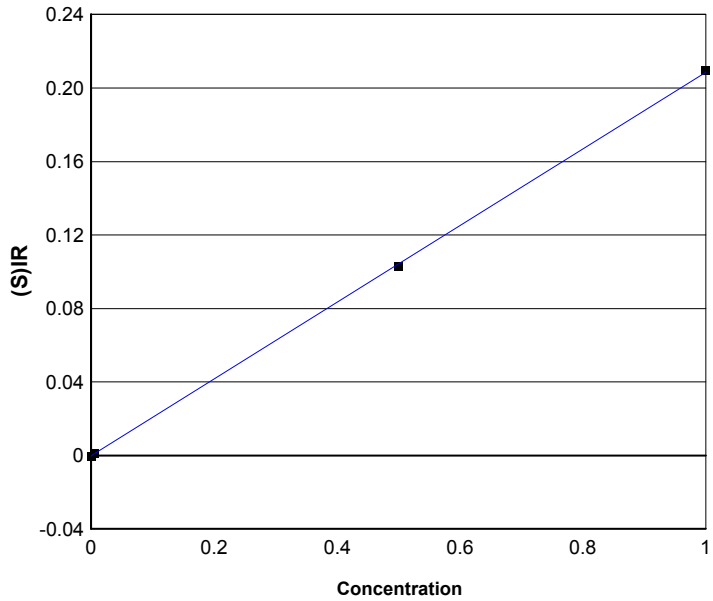
i1080114b

Author: zl

Published: 8/4/2014 7:41:22AM

Instrument Name: iCAP1 Serial Number: 20094603

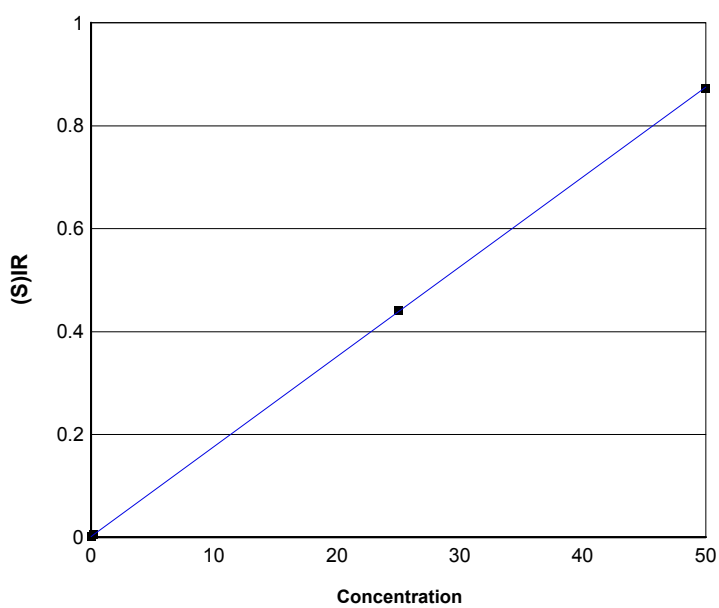
Method Name: ICAP 1 MARCH 2014 (74)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00028811
A1 (Gain):	0.20888
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

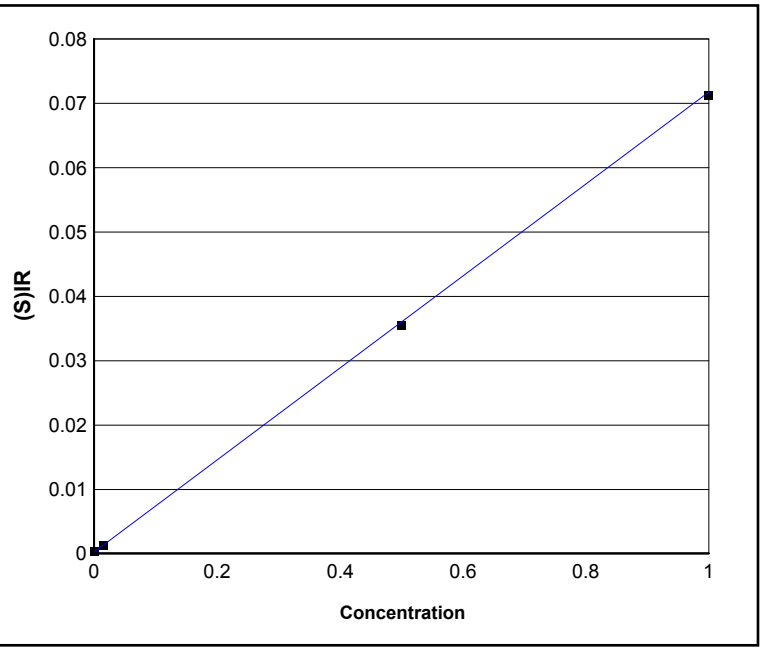
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000001232	0.0000001232	0.00000	-0.00028809	0.000065617	1
IC4	1.0000	1.0050	0.0049597	0.49597	0.20954	0.000041587	1
IC2	0.0060000	0.0059054	-0.000094564	-1.5761	0.00094545	0.00021592	1
IC3	0.50000	0.49513	-0.0048651	-0.97301	0.10309	0.00014668	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0017973
A1 (Gain):	0.017478
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

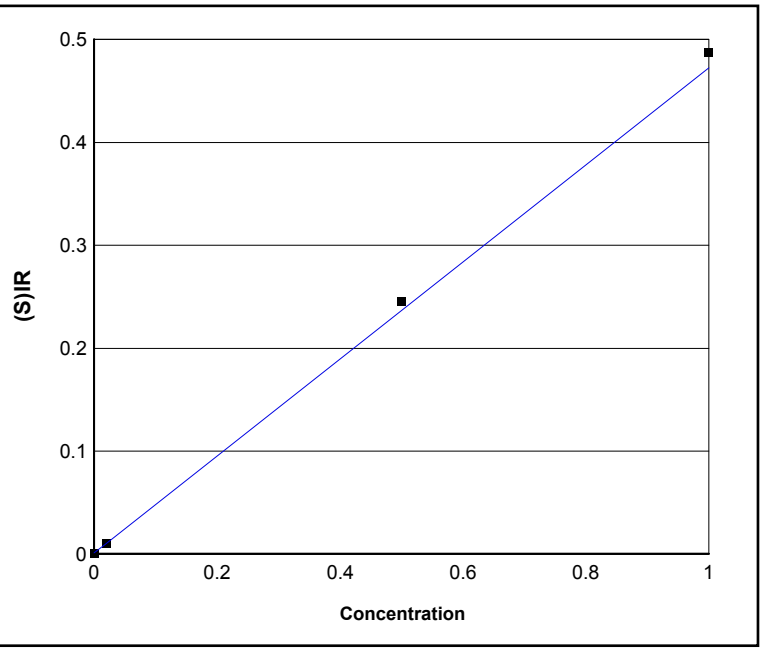
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000016655	-0.000016655	0.00000	0.0017970	0.00050302	1
IC4	50.000	49.813	-0.18726	-0.37451	0.87243	0.0012012	1
IC2	0.20000	0.21603	0.016034	8.0171	0.0055732	0.00079756	1
IC3	25.000	25.171	0.17122	0.68489	0.44174	0.0023648	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00028266
A1 (Gain):	0.071488
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

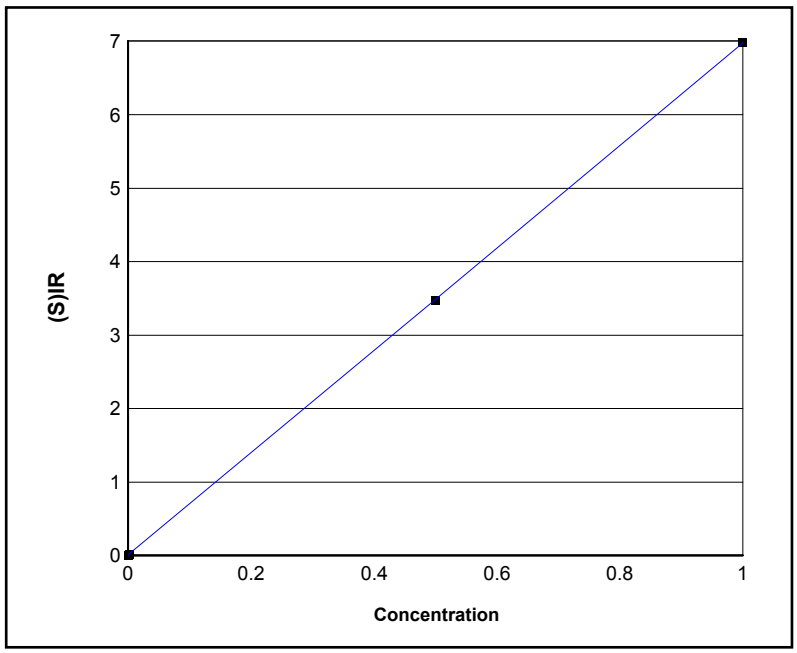
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000004731	0.0000004731	0.00000	0.00028270	0.0000085588	1
IC4	1.0000	1.0022	0.0021715	0.21715	0.071148	0.00028718	1
IC2	0.015000	0.014546	-0.00045426	-3.0284	0.0013194	0.00025069	1
IC3	0.50000	0.49829	-0.0017136	-0.34273	0.035515	0.00019015	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00095412
A1 (Gain):	0.47151
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

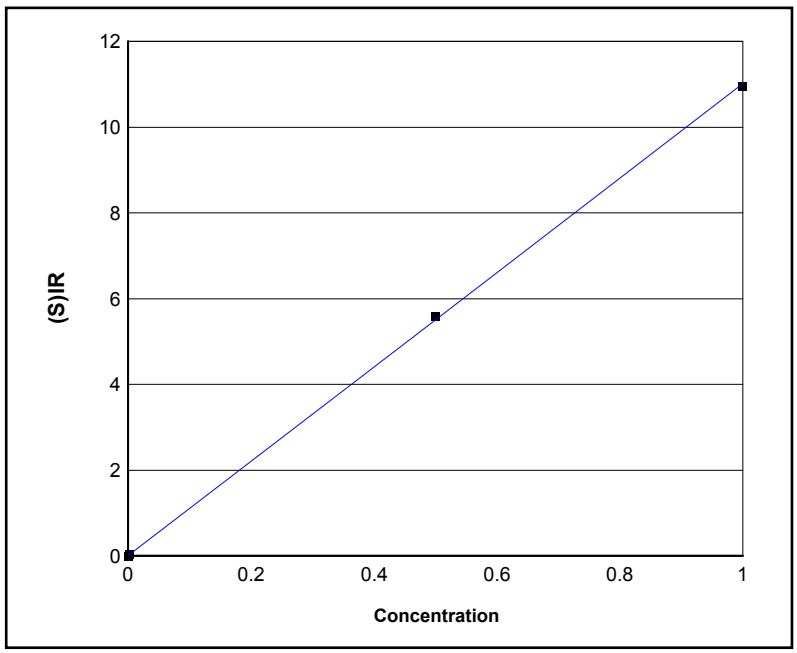
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000001005	-0.0000001005	0.00000	0.00095407	0.00011010	1
IC4	1.0000	0.99874	-0.0012636	-0.12636	0.48723	0.00082508	1
IC2	0.020000	0.020078	0.000078299	0.39149	0.010575	0.00010143	1
IC3	0.50000	0.50119	0.0011865	0.23730	0.24495	0.00012054	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0055589
A1 (Gain):	6.9675
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

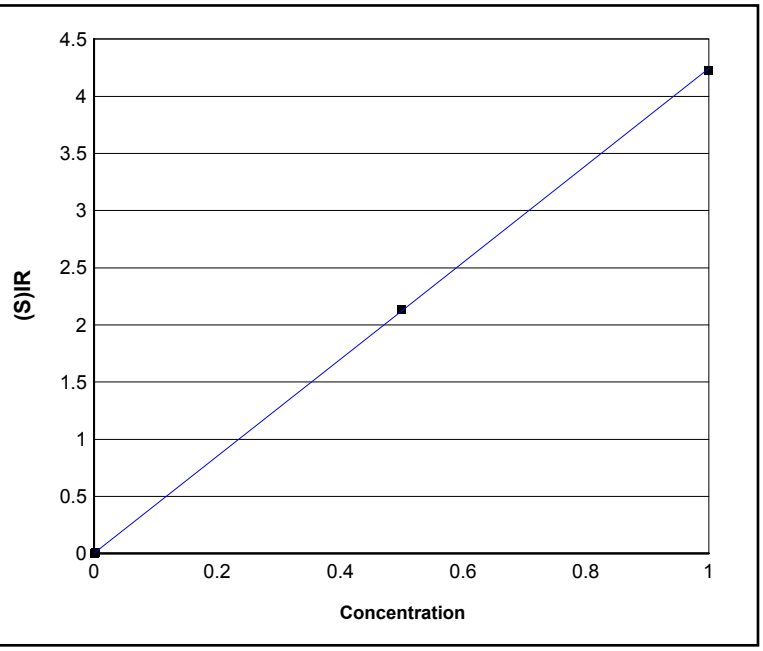
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000281	-0.0000000281	0.00000	0.0055587	0.0010903	1
IC4	1.0000	1.0019	0.0018931	0.18931	6.9862	0.043750	1
IC2	0.0020000	0.0020320	0.000031969	1.5984	0.019717	0.00019659	1
IC3	0.50000	0.49807	-0.0019251	-0.38502	3.4759	0.0087160	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00089594
A1 (Gain):	11.018
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

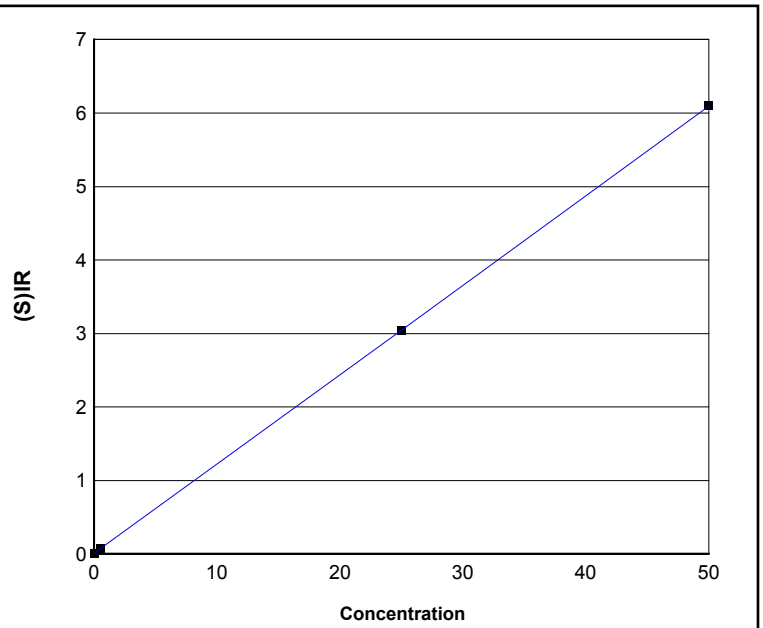
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000001749	-0.0000001749	0.00000	0.00089401	0.00011090	1
IC4	1.0000	0.99325	-0.0067546	-0.67546	10.945	0.052718	1
IC2	0.0020000	0.0021621	0.00016209	8.1044	0.024729	0.0000090102	1
IC3	0.50000	0.50659	0.0065924	1.3185	5.5829	0.062408	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00017228
A1 (Gain):	4.2433
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

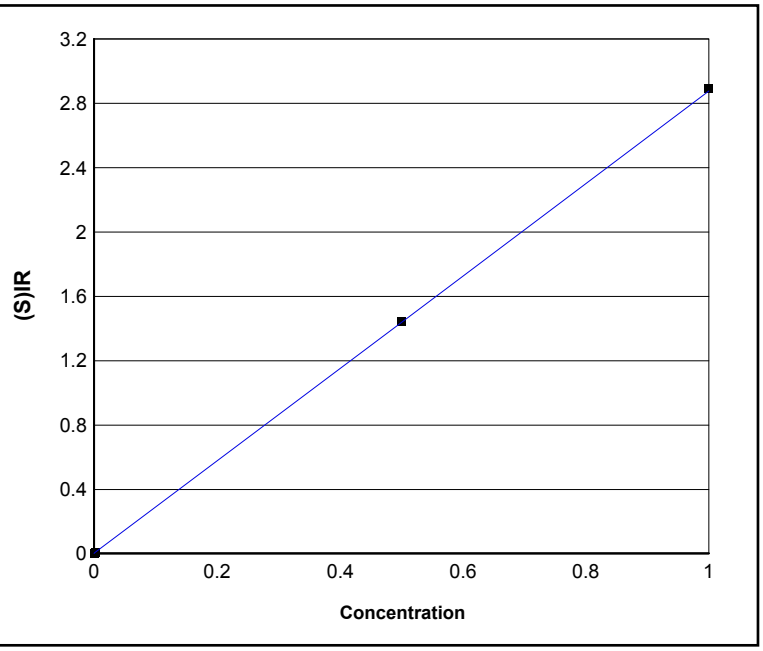
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000577	-0.0000000577	0.00000	0.00017203	0.00044900	1
IC4	1.0000	0.99639	-0.0036133	-0.36133	4.2267	0.029913	1
IC2	0.0020000	0.0020507	0.000050709	2.5354	0.0088668	0.00023175	1
IC3	0.50000	0.50356	0.0035626	0.71253	2.1362	0.013414	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0058609
A1 (Gain):	0.12169
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

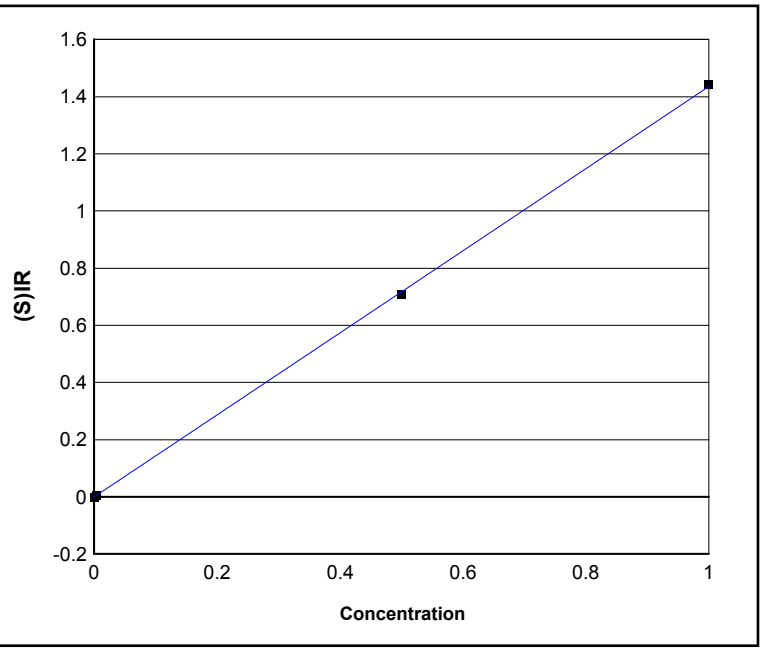
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000082502	-0.0000082502	0.00000	0.0058599	0.00030317	1
IC4	50.000	50.046	0.046456	0.092911	6.0958	0.020710	1
IC2	0.50000	0.50889	0.0088926	1.7785	0.067786	0.0000075104	1
IC3	25.000	24.945	-0.055348	-0.22139	3.0413	0.025099	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0015554
A1 (Gain):	2.8745
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

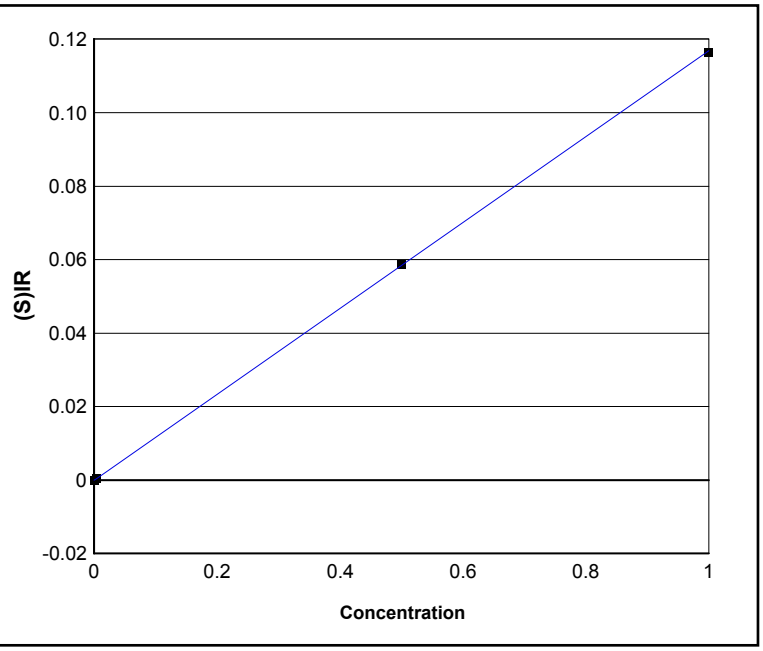
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000002081	-0.0000002081	0.00000	0.0015548	0.000035401	1
IC4	1.0000	1.0016	0.0015928	0.15928	2.8946	0.0023650	1
IC2	0.0020000	0.0022122	0.00021216	10.608	0.0081236	0.000039894	1
IC3	0.50000	0.49819	-0.0018117	-0.36233	1.4406	0.0045007	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00059926
A1 (Gain):	1.4354
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

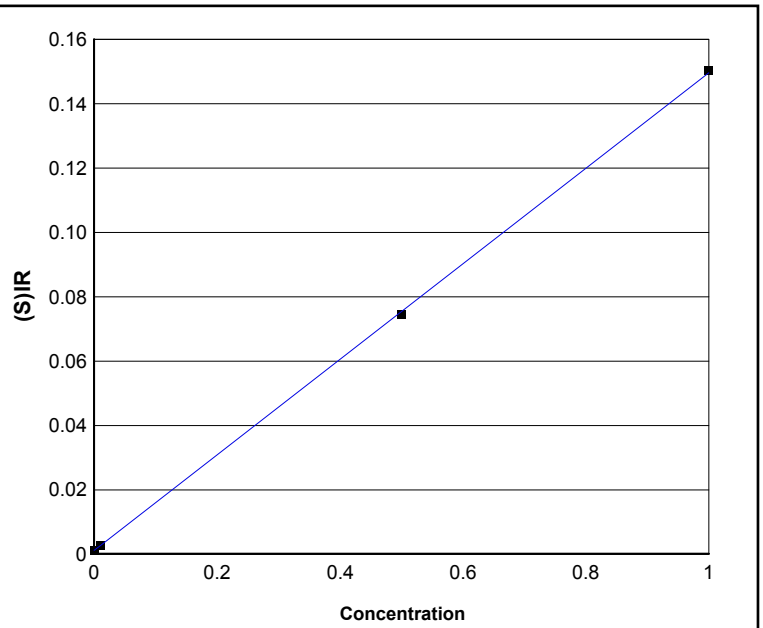
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000128	0.0000000128	0.00000	-0.00059924	0.00016628	1
IC4	1.0000	1.0051	0.0051060	0.51060	1.4416	0.0036960	1
IC2	0.0040000	0.0040077	0.0000076595	0.19149	0.0051364	0.000014076	1
IC3	0.50000	0.49489	-0.0051136	-1.0227	0.70948	0.0017407	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000049339
A1 (Gain):	0.11694
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

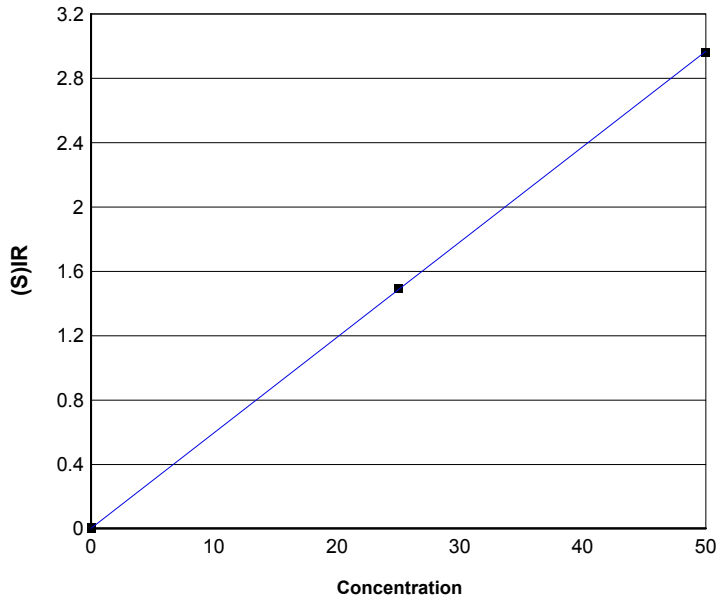
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000194	-0.0000000194	0.00000	-0.000049341	0.000043637	1
IC4	1.0000	0.99631	-0.0036942	-0.36942	0.11641	0.00099636	1
IC2	0.0040000	0.0040047	0.0000047056	0.11764	0.00041899	0.0000066605	1
IC3	0.50000	0.50369	0.0036895	0.73789	0.058829	0.00013112	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0010620
A1 (Gain):	0.14861
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

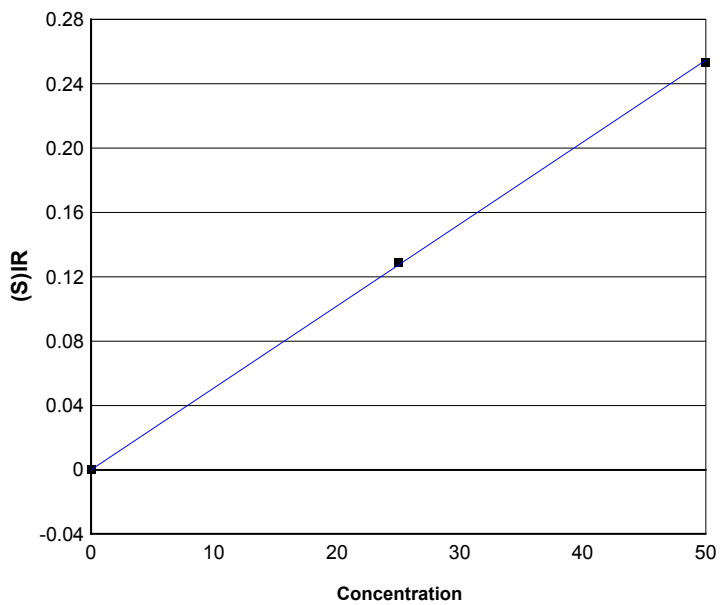
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000005810	0.0000005810	0.00000	0.0010621	0.00014482	1
IC4	1.0000	1.0052	0.0051858	0.51858	0.15035	0.00066638	1
IC2	0.010000	0.0094601	-0.00053991	-5.3991	0.0024674	0.000033459	1
IC3	0.50000	0.49535	-0.0046457	-0.92914	0.074628	0.00036333	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00030167
A1 (Gain):	0.059392
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

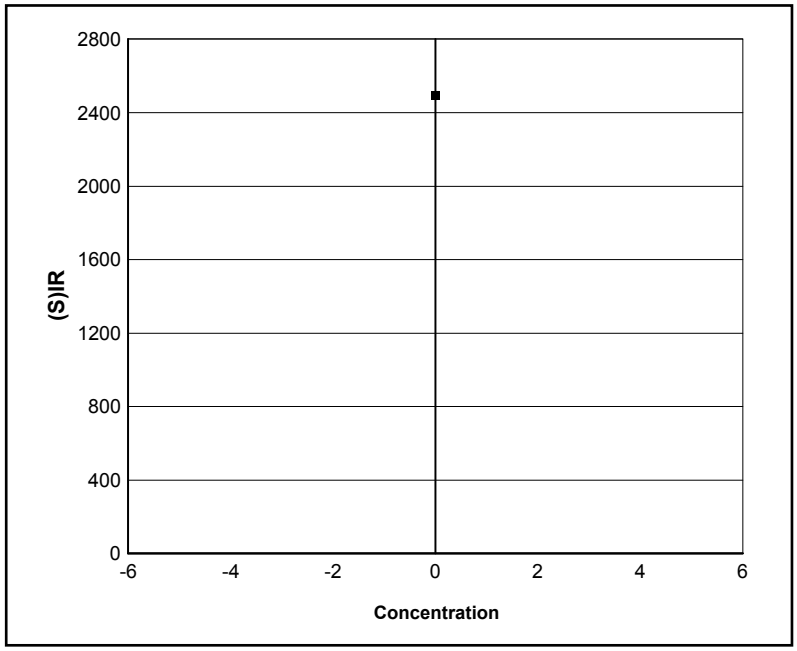
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000022247	-0.0000022247	0.00000	0.00030154	0.000058870	1
IC4	50.000	49.819	-0.18085	-0.36169	2.9592	0.015323	1
IC2	0.050000	0.052048	0.0020480	4.0960	0.0033929	0.00018515	1
IC3	25.000	25.179	0.17880	0.71519	1.4957	0.010722	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99965
A0 (Offset):	-0.000037916
A1 (Gain):	0.0050966
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

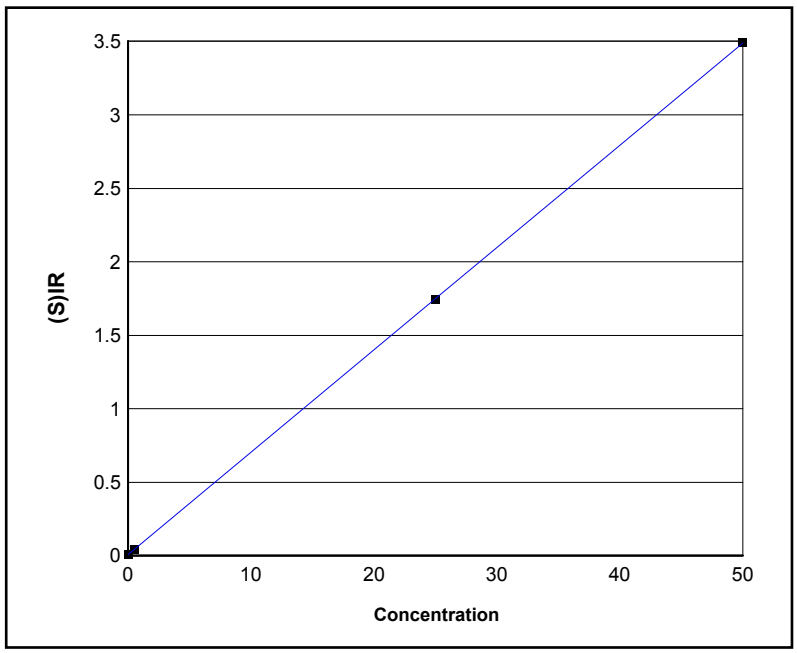
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000048416	0.000048416	0.00000	-0.000037669	0.00033952	1
IC4	50.000	49.755	-0.24476	-0.48951	0.25354	0.00012224	1
IC2	0.050000	0.0012422	-0.048758	-97.516	-0.000031585	0.000026919	1
IC3	25.000	25.294	0.29351	1.1741	0.12887	0.00058822	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:43:23AM
Date of Fit:	8/1/2014 10:43:23AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

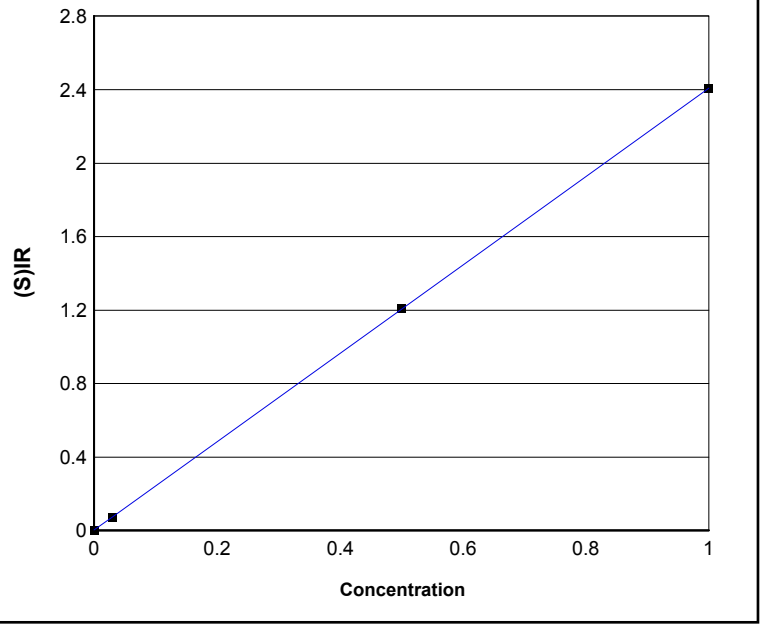
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000			0.0000	2,492	2.311	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0081226
A1 (Gain):	0.069603
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

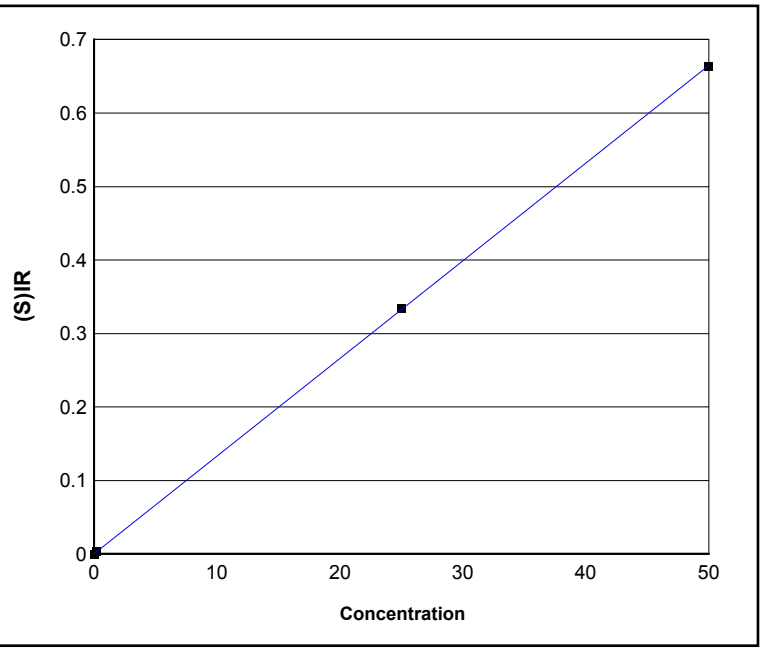
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000083240	-0.0000083240	0.00000	0.0081220	0.0016634	1
IC4	50.000	50.037	0.037027	0.074054	3.4908	0.020568	1
IC2	0.50000	0.50887	0.0088717	1.7743	0.043541	0.000015063	1
IC3	25.000	24.954	-0.045899	-0.18360	1.7450	0.011643	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0024709
A1 (Gain):	2.4049
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

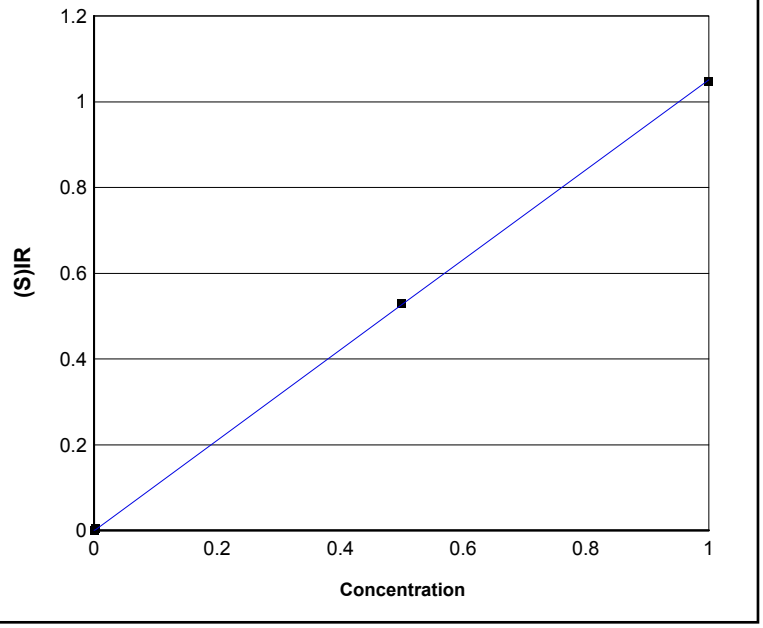
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000015965	0.0000015965	0.00000	0.0024748	0.00073327	1
IC2	0.030000	0.028314	-0.0016855	-5.6184	0.070566	0.0018020	1
IC3	0.50000	0.50128	0.0012831	0.25662	1.2080	0.0064199	1
IC4	1.0000	1.0004	0.00040244	0.040244	2.4084	0.0099941	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000018068
A1 (Gain):	0.013294
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

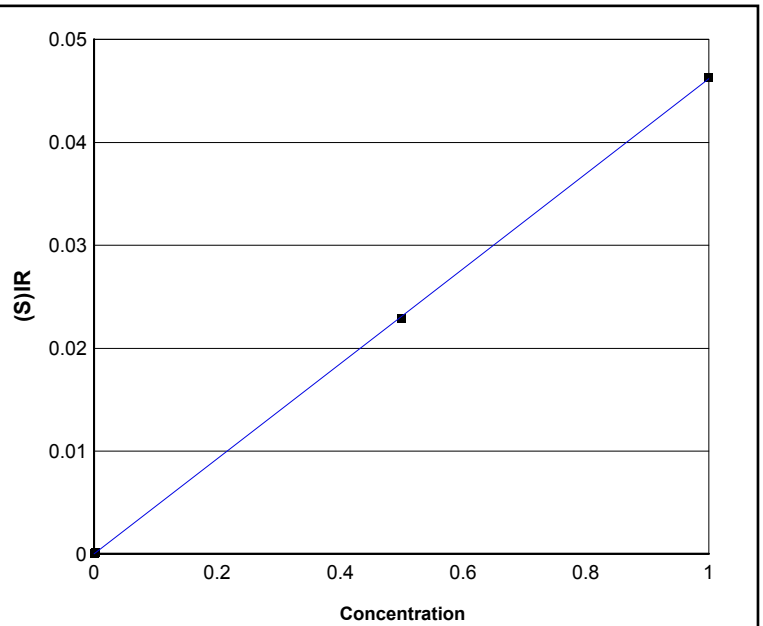
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000013509	-0.000013509	0.00000	0.000017888	0.000059842	1
IC4	50.000	49.857	-0.14261	-0.28522	0.66273	0.0011033	1
IC2	0.20000	0.21304	0.013043	6.5214	0.0028500	0.0000030512	1
IC3	25.000	25.130	0.12957	0.51827	0.33404	0.00030449	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00011654
A1 (Gain):	1.0518
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

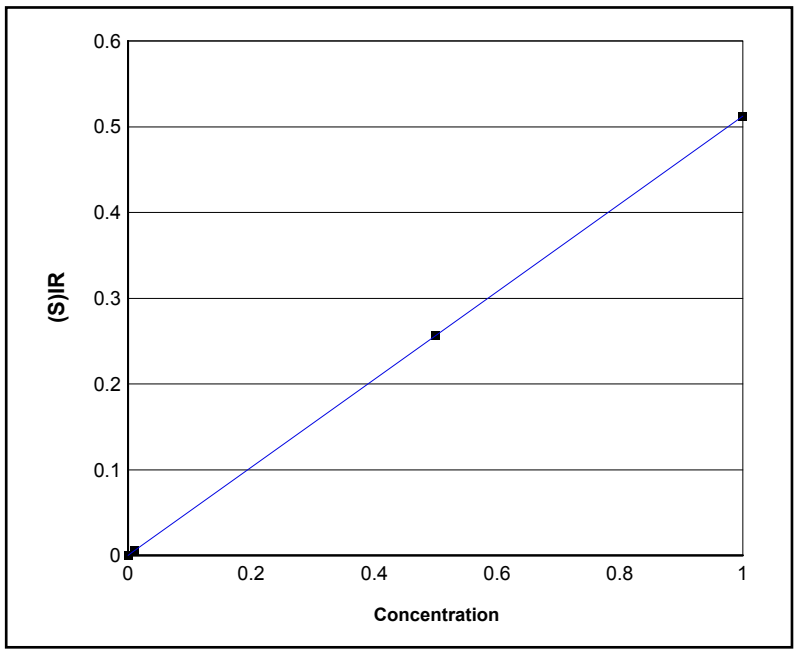
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000004229	-0.0000004229	0.00000	0.00011610	0.0000092028	1
IC4	1.0000	0.99624	-0.0037640	-0.37640	1.0479	0.0046839	1
IC2	0.0030000	0.0034141	0.00041410	13.803	0.0037074	0.000025644	1
IC3	0.50000	0.50335	0.0033499	0.66998	0.52952	0.00054783	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0000059800
A1 (Gain):	0.046180
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

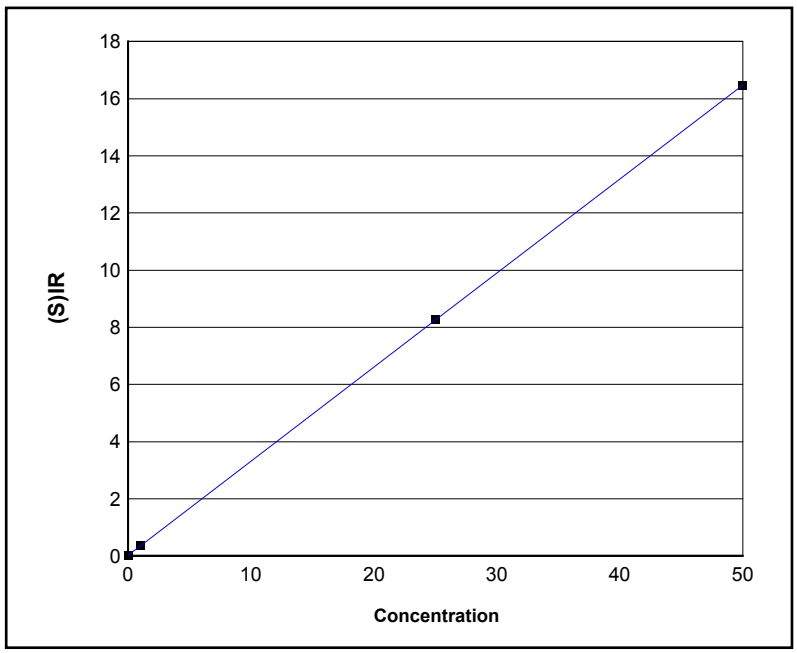
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000006526	-0.0000006526	0.00000	0.0000059499	0.0000084144	1
IC4	1.0000	1.0034	0.0033562	0.33562	0.046341	0.00021015	1
IC2	0.0030000	0.0036667	0.00066672	22.224	0.00017531	0.0000009043	1
IC3	0.50000	0.49598	-0.0040229	-0.80459	0.022910	0.000061713	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00014543
A1 (Gain):	0.51267
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

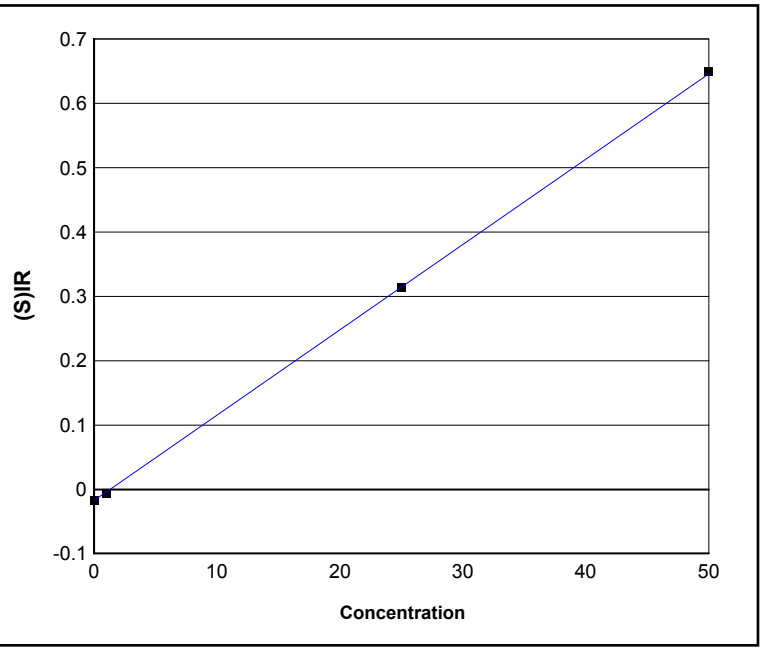
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000004721	-0.0000004721	0.00000	0.00014519	0.000025898	1
IC4	1.0000	0.99827	-0.0017276	-0.17276	0.51193	0.0013918	1
IC2	0.010000	0.010464	0.00046410	4.6410	0.0055100	0.000041191	1
IC3	0.50000	0.50126	0.0012634	0.25269	0.25713	0.00095899	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.028532
A1 (Gain):	0.32893
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

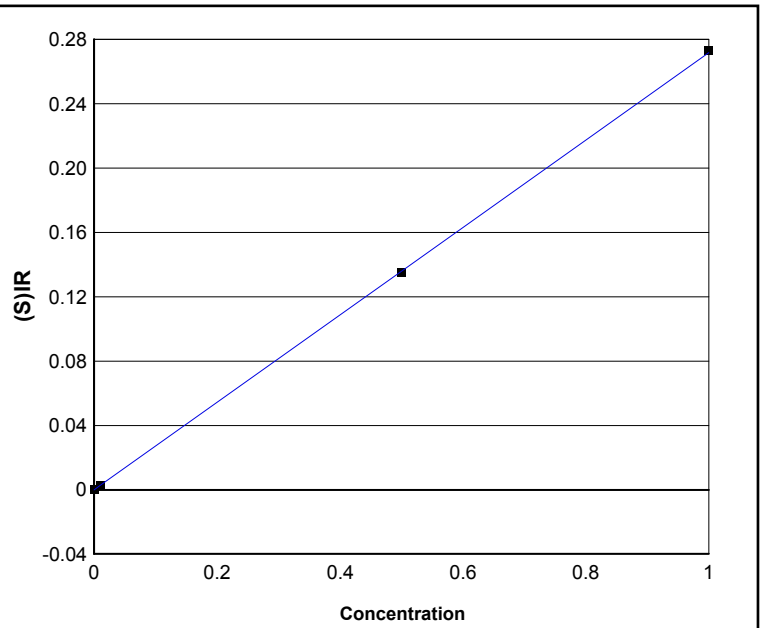
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000095031	0.0000095031	0.00000	0.028535	0.00028634	1
IC4	50.000	49.950	-0.050031	-0.10006	16.458	0.019286	1
IC2	1.0000	0.98906	-0.010941	-1.0941	0.35386	0.00071323	1
IC3	25.000	25.061	0.060973	0.24389	8.2718	0.034060	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	-0.017302
A1 (Gain):	0.013266
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

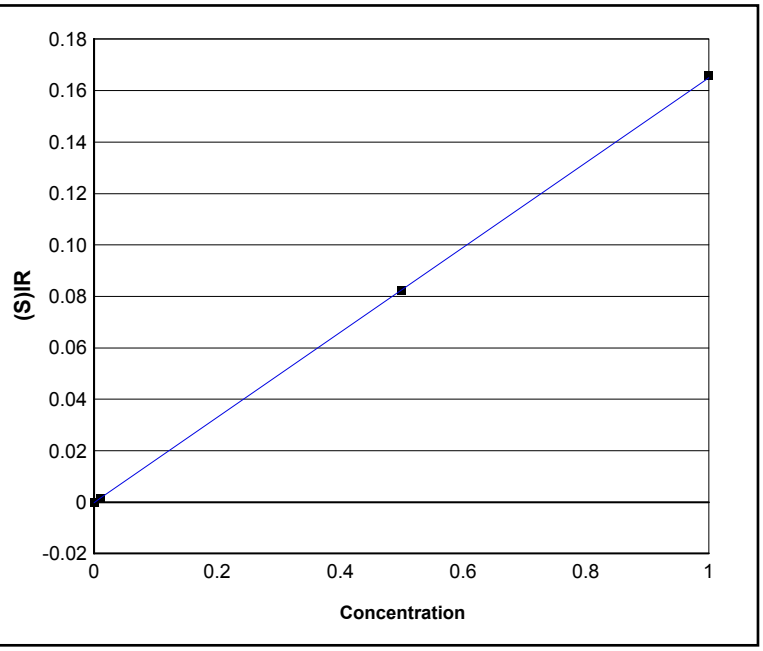
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00015090	0.00015090	0.00000	-0.017299	0.0014512	1
IC4	50.000	50.227	0.22716	0.45432	0.64899	0.0016203	1
IC2	1.0000	0.84755	-0.15245	-15.245	-0.0060583	0.00056452	1
IC3	25.000	24.925	-0.074705	-0.29882	0.31335	0.0026629	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00012163
A1 (Gain):	0.27208
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

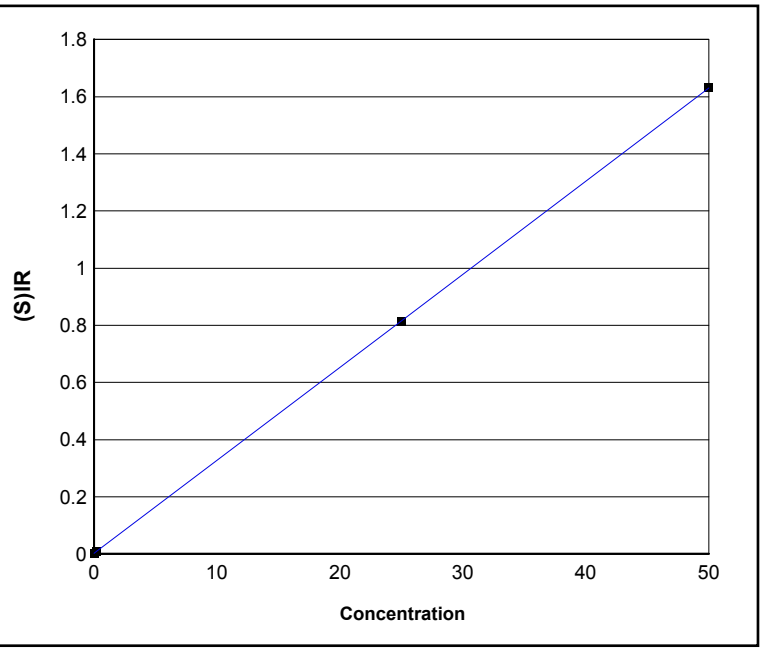
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000007017	0.0000007017	0.00000	-0.00012144	0.000042065	1
IC4	1.0000	1.0043	0.0043270	0.43270	0.27314	0.0013902	1
IC2	0.010000	0.0093281	-0.00067189	-6.7189	0.0024164	0.000091483	1
IC3	0.50000	0.49634	-0.0036551	-0.73102	0.13492	0.00045694	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00015956
A1 (Gain):	0.16516
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

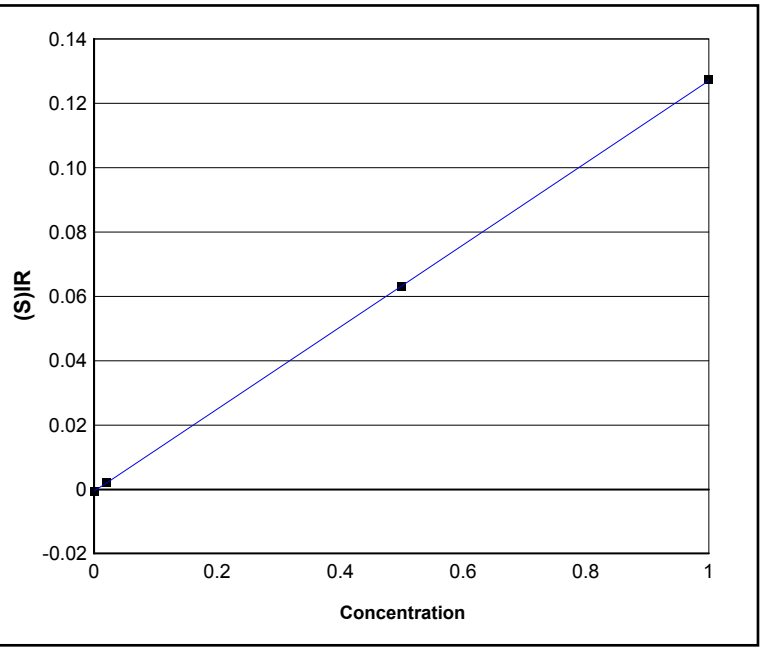
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000004274	0.0000004274	0.00000	-0.00015949	0.00017636	1
IC4	1.0000	1.0025	0.0024805	0.24805	0.16580	0.000051505	1
IC2	0.010000	0.0095892	-0.00041081	-4.1081	0.0014272	0.00015525	1
IC3	0.50000	0.49793	-0.0020699	-0.41399	0.082274	0.00038346	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.002132
A1 (Gain):	0.03256
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

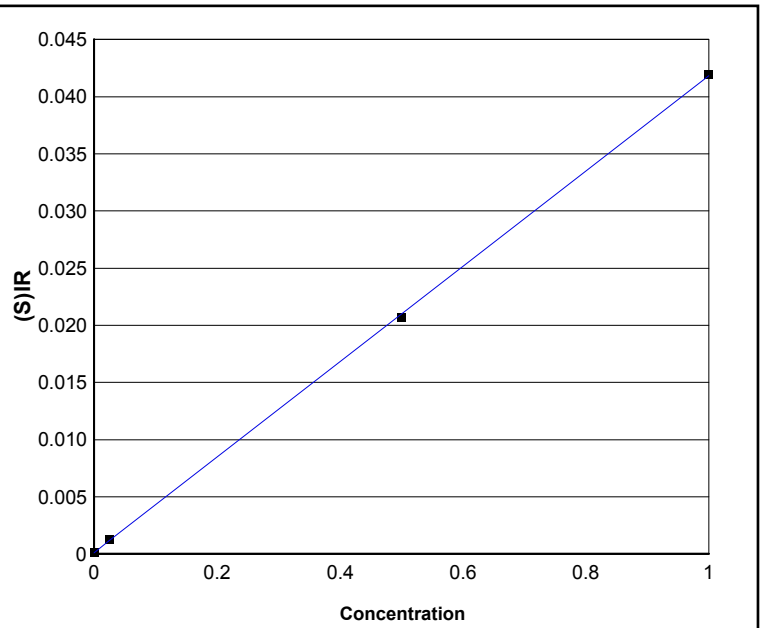
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000	-0.00001133	-0.00001133	0.0000	0.002132	0.0001096	1
IC2	0.2000	0.2118	0.01181	5.906	0.009027	0.00004865	1
IC3	25.00	24.89	-0.1089	-0.4356	0.8123	0.001039	1
IC4	50.00	50.10	0.09709	0.1942	1.633	0.0004778	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00060563
A1 (Gain):	0.12763
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

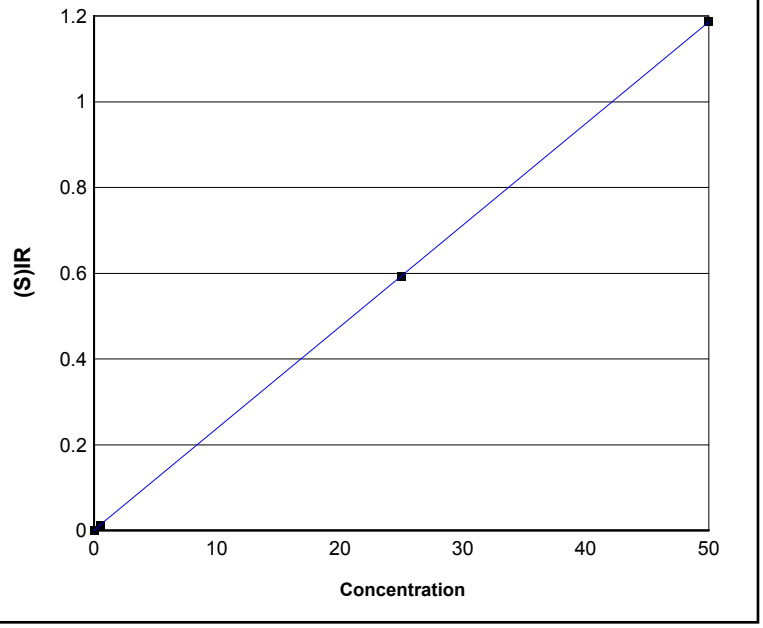
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000004045	-0.0000004045	0.00000	-0.00060569	0.00012736	1
IC4	1.0000	1.0009	0.00093492	0.093492	0.12755	0.00034004	1
IC2	0.020000	0.020441	0.00044077	2.2039	0.0020059	0.000025658	1
IC3	0.50000	0.49863	-0.0013748	-0.27495	0.063236	0.00047526	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	0.00011362
A1 (Gain):	0.041740
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

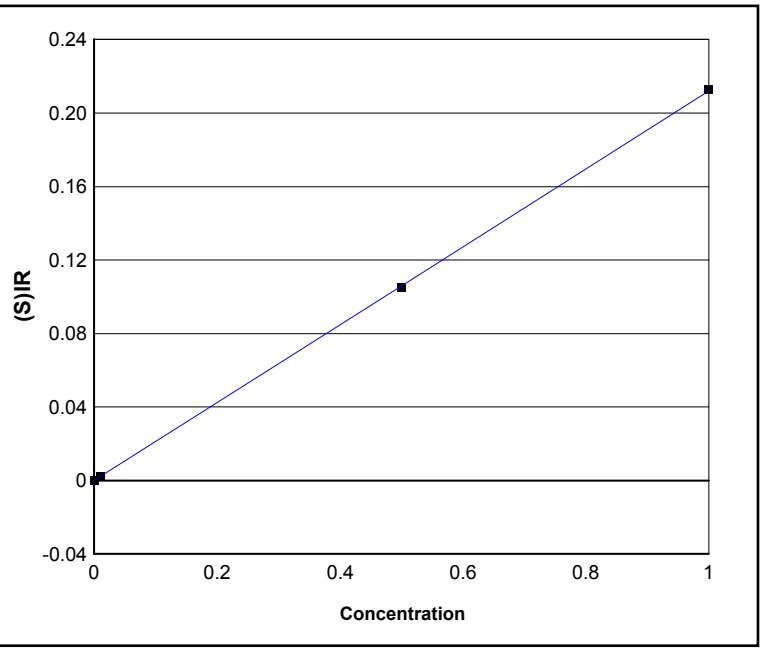
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000026171	-0.0000026171	0.00000	0.00011351	0.000049689	1
IC4	1.0000	1.0034	0.0034170	0.34170	0.041973	0.00046097	1
IC2	0.025000	0.027845	0.0028449	11.380	0.0012760	0.000076452	1
IC3	0.50000	0.49374	-0.0062638	-1.2528	0.020711	0.000024766	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00096652
A1 (Gain):	0.023710
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

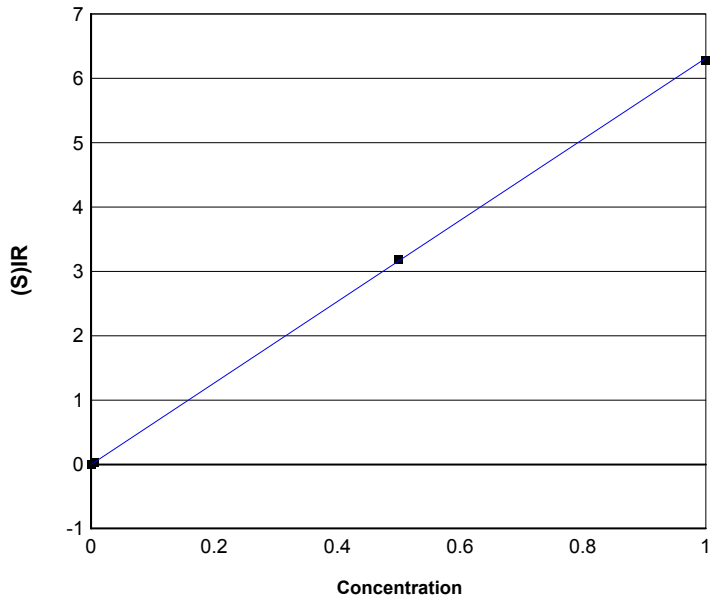
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000010031	-0.000010031	0.00000	0.00096628	0.00054267	1
IC2	0.50000	0.51055	0.010549	2.1099	0.013072	0.00050770	1
IC3	25.000	24.959	-0.041296	-0.16518	0.59274	0.0030230	1
IC4	50.000	50.031	0.030747	0.061494	1.1872	0.0022273	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000089905
A1 (Gain):	0.21199
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

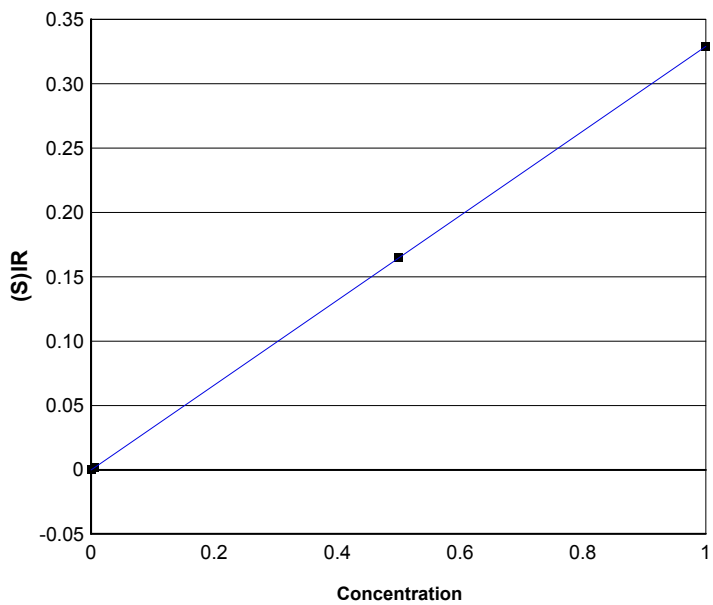
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000002928	0.0000002928	0.00000	-0.000089843	0.000012311	1
IC4	1.0000	1.0047	0.0046565	0.46565	0.21280	0.00051916	1
IC2	0.010000	0.0097488	-0.00025122	-2.5122	0.0019763	0.00014267	1
IC3	0.50000	0.49559	-0.0044052	-0.88105	0.10493	0.00027900	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.0030110
A1 (Gain):	6.3205
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

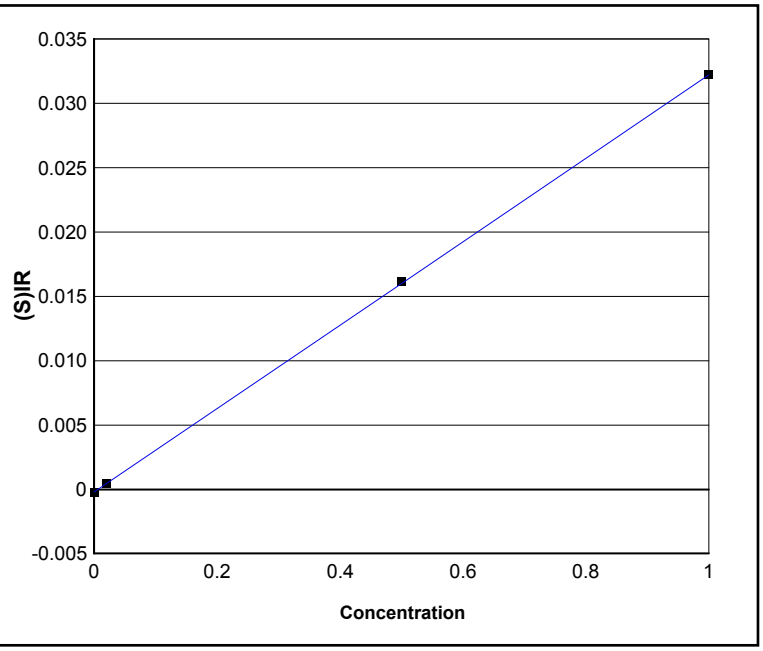
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000003162	-0.0000003162	0.00000	-0.0030130	0.000029921	1
IC2	0.0050000	0.0052933	0.00029331	5.8662	0.030445	0.00099089	1
IC3	0.50000	0.50487	0.0048673	0.97347	3.1880	0.020021	1
IC4	1.0000	0.99484	-0.0051607	-0.51607	6.2848	0.025169	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00010420
A1 (Gain):	0.32925
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

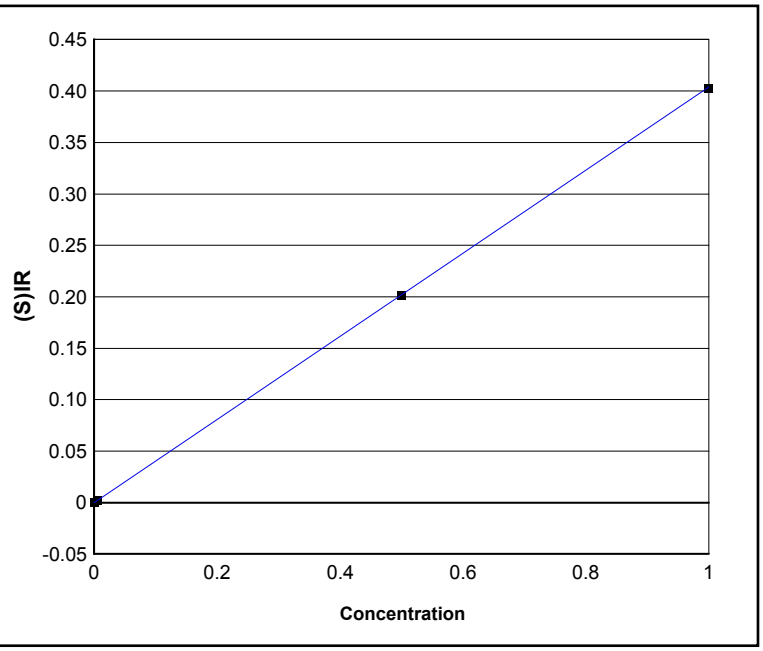
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000590	-0.0000000590	0.00000	-0.00010422	0.000018545	1
IC4	1.0000	0.99901	-0.00098588	-0.098588	0.32888	0.00024888	1
IC2	0.0050000	0.0050546	0.000054571	1.0914	0.0015603	0.000052531	1
IC3	0.50000	0.50093	0.00093131	0.18626	0.16486	0.00036628	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00022300
A1 (Gain):	0.032451
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

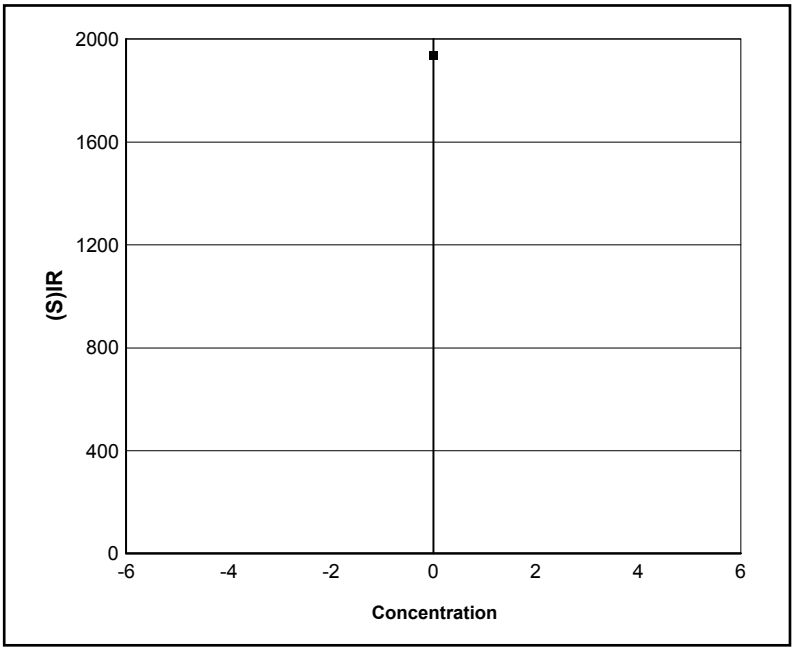
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000012819	-0.0000012819	0.00000	-0.00022304	0.000070639	1
IC4	1.0000	0.99665	-0.0033460	-0.33460	0.032223	0.00017709	1
IC2	0.020000	0.021266	0.0012655	6.3275	0.00046749	0.000021901	1
IC3	0.50000	0.50208	0.0020837	0.41675	0.016122	0.000030372	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000066646
A1 (Gain):	0.40386
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

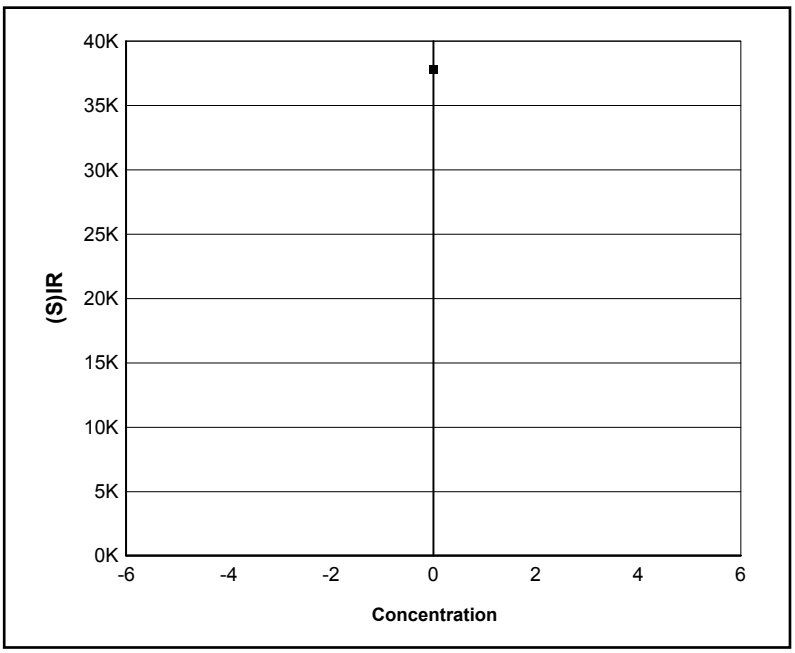
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000766	-0.0000000766	0.00000	-0.000066677	0.000094296	1
IC4	1.0000	1.0008	0.00080341	0.080341	0.40293	0.0023505	1
IC2	0.0050000	0.0050814	0.000081425	1.6285	0.0019696	0.000023987	1
IC3	0.50000	0.49912	-0.00088443	-0.17689	0.20091	0.00058038	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:43:23AM
Date of Fit:	8/1/2014 10:43:23AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

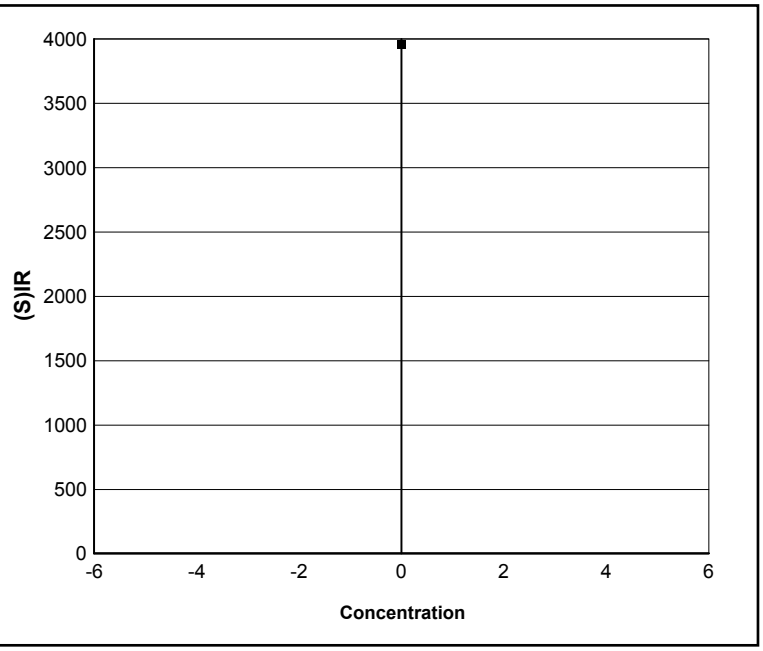
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000			0.0000	1,937	0.9594	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:43:23AM
Date of Fit:	8/1/2014 10:43:23AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

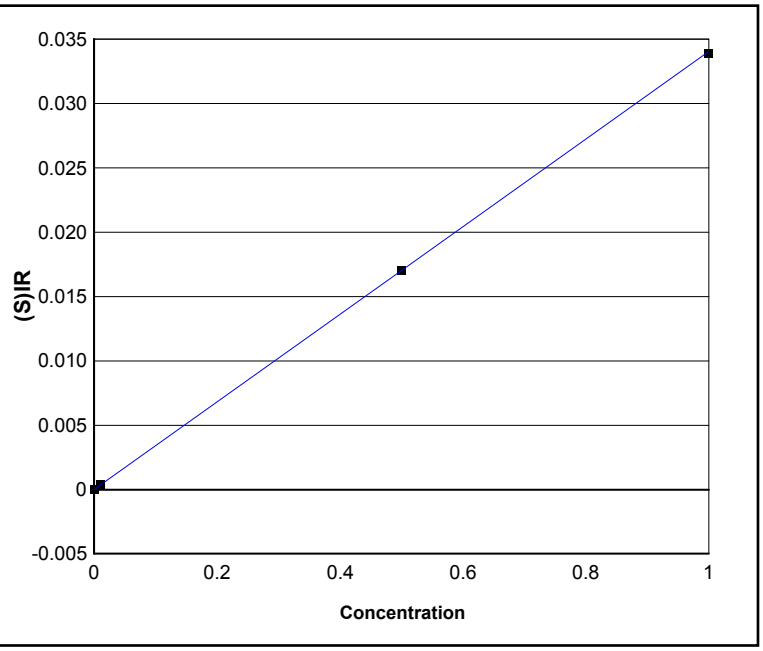
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000			0.0000	37,810	1.555	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:43:23AM
Date of Fit:	8/1/2014 10:43:23AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000			0.0000	3,956	5.692	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/1/2014 10:51:39AM
Date of Fit:	8/1/2014 10:51:39AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000010417
A1 (Gain):	0.034060
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000010528	-0.0000010528	0.00000	-0.000010453	0.000028544	1
IC4	1.0000	0.99739	-0.0026129	-0.26129	0.033895	0.00021750	1
IC2	0.010000	0.011048	0.0010477	10.477	0.00036560	0.000027480	1
IC3	0.50000	0.50156	0.0015639	0.31279	0.017040	0.00010465	1

Sample Name: IC1 Acquired: 8/1/2014 10:40:35 Type: Cal
Method: ICAP 1 MARCH 2014(v74) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00029**	**.00180**	**.00028**	**.00095**	**.00556**	**.00089**	**.00017**	**.00586**	**.00155**	**-.00060**	**-.00005**	**.00106**
Stddev	.00007	.00050	.00001	.00011	.00109	.00011	.00045	.00030	.00004	.00017	.00004	.00014
%RSD	22.777	27.991	3.0275	11.540	19.615	12.405	261.00	5.1737	2.2768	27.749	88.440	13.635
#1	-.00033	.00215	.00028	.00103	.00479	.00097	.00049	.00565	.00153	-.00048	-.00002	.00116
#2	-.00024	.00144	.00029	.00088	.00633	.00082	-.00015	.00607	.00158	-.00072	-.00008	.00096

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00030**	**-.00004**	**.00812**	**.00247**	**.00002**	**.00012**	**.00001**	**.00015**	**.02854**	**-.01730**	**-.00012**	**-.00016**
Stddev	.00006	.00034	.00166	.00073	.00006	.00001	.00001	.00003	.00029	.00145	.00004	.00018
%RSD	19.523	901.33	20.480	29.630	334.53	7.9269	141.42	17.838	1.0034	8.3888	34.638	110.58
#1	.00026	.00020	.00930	.00196	-.00002	.00011	.00001	.00013	.02833	-.01627	-.00009	-.00028
#2	.00034	-.00028	.00695	.00299	.00006	.00012	.00000	.00016	.02874	-.01833	-.00015	-.00003

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0021**	**-.00061**	**.00011**	**.00097**	**-.00009**	**-.00301**	**-.00010**	**-.00022**	**-.00007**	**-.00001**
Stddev	.0001	.00013	.00005	.00054	.00001	.00003	.00002	.00007	.00009	.00003
%RSD	5.141	21.028	43.775	56.161	13.703	.99304	17.794	31.671	141.42	273.07
#1	.0022	-.00070	.00015	.00135	-.00010	-.00299	-.00009	-.00017	-.00013	.00001
#2	.0021	-.00052	.00008	.00058	-.00008	-.00303	-.00012	-.00027	.00000	-.00003

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2491.9**	**1937.5**	**37815.**	**3956.4**
Stddev	2.3	1.0	2.	5.7
%RSD	.09272	.04952	.00411	.14387
#1	2493.5	1936.8	37816.	3952.4
#2	2490.2	1938.2	37814.	3960.4

Sample Name: IC2 Acquired: 8/1/2014 10:43:27 Type: Cal
Method: ICAP 1 MARCH 2014(v74) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00095**	**.00557**	**.00132**	**.01057**	**.01972**	**.02473**	**.00887**	**.06779**	**.00812**	**.00514**	**.00042**	**.00247**
Stddev	.00022	.00080	.00025	.00010	.00020	.00001	.00023	.00001	.00004	.00001	.00001	.00003
%RSD	22.838	14.311	19.001	.95914	.99710	.03644	2.6137	.01108	.49109	.27404	1.5897	1.3560
#1	.00110	.00501	.00114	.01065	.01986	.02473	.00903	.06778	.00810	.00515	.00042	.00249
#2	.00079	.00614	.00150	.01050	.01958	.02472	.00870	.06779	.00815	.00513	.00041	.00244

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00339**	**-.00003**	**.04354**	**.07057**	**.00285**	**.00371**	**.00018**	**.00551**	**.35386**	**-.00606**	**.00242**	**.00143**
Stddev	.00019	.00003	.00002	.00180	.00000	.00003	.00000	.00004	.00071	.00056	.00009	.00016
%RSD	5.4571	85.227	.03459	2.5537	.10706	.69169	.51583	.74756	.20156	9.3182	3.7860	10.878
#1	.00352	-.00005	.04353	.06929	.00285	.00373	.00017	.00548	.35336	-.00646	.00248	.00154
#2	.00326	-.00001	.04355	.07184	.00285	.00369	.00018	.00554	.35437	-.00566	.00235	.00132

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0090**	**.00201**	**.00128**	**.01307**	**.00198**	**.03045**	**.00156**	**.00047**	**.00197**	**.00037**
Stddev	.0000	.00003	.00008	.00051	.00014	.00099	.00005	.00002	.00002	.00003
%RSD	.5390	1.2791	5.9915	3.8839	7.2189	3.2547	3.3668	4.6847	1.2178	7.5165
#1	.0091	.00199	.00122	.01271	.00188	.03115	.00160	.00048	.00199	.00039
#2	.0090	.00202	.00133	.01343	.00208	.02974	.00152	.00045	.00195	.00035

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2477.9**	**1936.7**	**38076.**	**3967.5**
Stddev	3.2	.6	5.	23.3
%RSD	.12949	.03331	.01384	.58621
#1	2480.2	1937.2	38072.	3951.0
#2	2475.6	1936.3	38080.	3983.9

Sample Name: IC3 Acquired: 8/1/2014 10:46:17 Type: Cal
Method: ICAP 1 MARCH 2014(v74) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.10309**	**.44174**	**.03552**	**.24495**	**3.4759**	**5.5829**	**2.1362**	**3.0413**	**1.4406**	**.70948**	**.05883**	**.07463**
Stddev	.00015	.00236	.00019	.00012	.0087	.0624	.0134	.0251	.0045	.00174	.00013	.00036
%RSD	.14228	.53533	.53541	.04921	.25076	1.1178	.62794	.82527	.31242	.24535	.22289	.48686
#1	.10299	.44342	.03565	.24504	3.4820	5.5388	2.1457	3.0590	1.4438	.71071	.05892	.07488
#2	.10320	.44007	.03538	.24487	3.4697	5.6271	2.1267	3.0235	1.4374	.70825	.05874	.07437

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4957**	**.12887**	**1.7450**	**1.2080**	**.33404**	**.52952**	**.02291**	**.25713**	**8.2718**	**.31335**	**.13492**	**.08227**
Stddev	.0107	.00059	.0116	.0064	.00030	.00055	.00006	.00096	.0341	.00266	.00046	.00038
%RSD	.71683	.45644	.66722	.53144	.09115	.10346	.26937	.37296	.41176	.84983	.33866	.46608
#1	1.5033	.12929	1.7532	1.2126	.33383	.52914	.02287	.25781	8.2959	.31146	.13525	.08255
#2	1.4881	.12846	1.7368	1.2035	.33426	.52991	.02295	.25645	8.2477	.31523	.13460	.08200

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.8123**	**.06324**	**.02071**	**.59274**	**.10493**	**3.1880**	**.16486**	**.01612**	**.20091**	**.01704**
Stddev	.0010	.00048	.00002	.00302	.00028	.0200	.00037	.00003	.00058	.00010
%RSD	.1280	.75157	.11958	.51000	.26589	.62803	.22218	.18839	.28887	.61414
#1	.8131	.06357	.02073	.59488	.10513	3.2021	.16460	.01614	.20050	.01711
#2	.8116	.06290	.02069	.59061	.10473	3.1738	.16511	.01610	.20132	.01697

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2243.0**	**1888.9**	**36606.**	**3936.2**
Stddev	2.1	2.0	103.	25.4
%RSD	.09275	.10544	.28120	.64620
#1	2241.5	1887.5	36678.	3918.3
#2	2244.4	1890.4	36533.	3954.2

Sample Name: IC4 Acquired: 8/1/2014 10:49:01 Type: Cal
Method: ICAP 1 MARCH 2014(v74) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.20954**	**.87243**	**.07115**	**.48723**	**6.9862**	**10.945**	**4.2267**	**6.0958**	**2.8946**	**1.4416**	**.11641**	**.15035**
Stddev	.00004	.00120	.00029	.00083	.0437	.053	.0299	.0207	.0024	.0037	.00100	.00067
%RSD	.01985	.13768	.40364	.16934	.62623	.48165	.70771	.33974	.08170	.25639	.85589	.44323
#1	.20957	.87158	.07095	.48782	7.0171	10.908	4.2478	6.1105	2.8929	1.4390	.11571	.15082
#2	.20951	.87328	.07135	.48665	6.9553	10.983	4.2055	6.0812	2.8963	1.4442	.11712	.14987

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.9592**	**.25354**	**3.4908**	**2.4084**	**.66273**	**1.0479**	**.04634**	**.51193**	**16.458**	**.64899**	**.27314**	**.16580**
Stddev	.0153	.00012	.0206	.0100	.00110	.0047	.00021	.00139	.019	.00162	.00139	.00005
%RSD	.51780	.04821	.58920	.41497	.16648	.44697	.45350	.27188	.11718	.24966	.50899	.03106
#1	2.9700	.25346	3.5054	2.4154	.66195	1.0446	.04619	.51094	16.472	.65014	.27215	.16576
#2	2.9483	.25363	3.4763	2.4013	.66351	1.0512	.04649	.51291	16.445	.64785	.27412	.16584

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.633**	**.12755**	**.04197**	**1.1872**	**.21280**	**6.2848**	**.32888**	**.03222**	**.40293**	**.03389**
Stddev	.001	.00034	.00046	.0022	.00052	.0252	.00025	.00018	.00235	.00022
%RSD	.0293	.26660	1.0983	.18761	.24396	.40047	.07568	.54956	.58336	.64171
#1	1.632	.12779	.04165	1.1888	.21244	6.3026	.32870	.03235	.40127	.03374
#2	1.633	.12731	.04230	1.1856	.21317	6.2670	.32905	.03210	.40459	.03405

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2134.6**	**1856.9**	**35838.**	**3907.4**
Stddev	8.0	8.2	204.	3.5
%RSD	.37520	.44367	.56944	.08937
#1	2129.0	1851.1	35983.	3904.9
#2	2140.3	1862.7	35694.	3909.9

Sample Name: ICV-2224573 Acquired: 8/1/2014 10:51:43 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37620**	**19.122**	**.37041**	**.36694**	**.38704**	**.37533**	**18.950**	**.37471**	**.37388**	**.37294**	**.36866**	**18.814**
Stddev	.00252	.008	.00225	.00049	.00114	.00092	.151	.00023	.00031	.00352	.00128	.051
%RSD	.66967	.04342	.60818	.13428	.29537	.24432	.79745	.06098	.08171	.94413	.34775	.27217
#1	.37798	19.128	.37200	.36728	.38785	.37598	19.057	.37454	.37410	.37543	.36776	18.851
#2	.37441	19.117	.36882	.36659	.38623	.37468	18.843	.37487	.37367	.37045	.36957	18.778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.242**	**.36301**	**19.133**	**.38430**	**.37666**	**18.224**	**.37230**	**.37683**	**18.42**	**.37206**	**.37317**	**18.910**
Stddev	.003	.00031	.071	.00196	.00093	.056	.00168	.00076	.05	.00120	.01132	.064
%RSD	.01384	.08515	.37103	.50970	.24750	.30558	.45040	.20104	.2983	.32203	3.0332	.33972
#1	18.244	.36322	19.183	.38568	.37600	18.263	.37348	.37629	18.46	.37291	.38117	18.955
#2	18.241	.36279	19.083	.38291	.37732	18.185	.37111	.37736	18.38	.37121	.36517	18.864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38056**	**.37558**	**.37635**	**.37944**	**.37753**	**.38181**
Stddev	.00086	.00043	.00006	.00358	.00358	.00454
%RSD	.22617	.11427	.01576	.94242	.94958	1.1878
#1	.38116	.37588	.37630	.38197	.38007	.38502
#2	.37995	.37528	.37639	.37692	.37500	.37860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2286.0**	**1913.6**	**37012.**	**3961.1**
Stddev	.3	.6	204.	27.9
%RSD	.01114	.03152	.55028	.70345
#1	2286.2	1914.1	36868.	3941.4
#2	2285.9	1913.2	37156.	3980.8

Sample Name: ICB-2222437 Acquired: 8/1/2014 10:54:21 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.00095**	**.00042**	**.00092**	**.00006**	**.00020**	**.01293**	**.00017**	**.00008**	**.00047**	**-.00001**	**.00676**
Stddev	.00033	.00928	.00190	.00001	.00001	.00010	.00312	.00006	.00011	.00036	.00003	.00342
%RSD	49.139	972.60	448.30	.82235	10.554	48.486	24.139	35.195	135.44	75.587	258.03	50.559
#1	-.00044	-.00752	.00176	.00093	.00005	.00013	.01072	.00013	.00000	.00022	.00001	.00434
#2	-.00090	.00561	-.00092	.00091	.00006	.00027	.01514	.00021	.00017	.00072	-.00003	.00917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01118**	**-.00055**	**.00862**	**.00015**	**.00007**	**-.02039**	**-.00085**	**-.00105**	**.0056**	**.00022**	**-.00146**	**.02364**
Stddev	.01306	.00148	.00514	.00001	.00002	.00112	.00008	.00014	.0029	.00208	.00017	.01911
%RSD	116.84	271.81	59.558	9.3762	24.851	5.5095	9.0722	13.127	51.54	955.67	11.792	80.841
#1	.02042	-.00160	.01225	.00016	.00006	-.01960	-.00079	-.00115	.0077	.00169	-.00134	.03716
#2	.00194	.00050	.00499	.00014	.00008	-.02119	-.00090	-.00095	.0036	-.00125	-.00158	.01013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00017**	**-.00024**	**.00205**	**.00028**	**.00082**
Stddev	.00022	.00006	.00003	.00085	.00014	.00046
%RSD	136.71	34.597	12.239	41.502	48.869	55.959
#1	.00032	.00013	-.00022	.00145	.00018	.00050
#2	.00001	.00021	-.00027	.00265	.00037	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2491.1**	**1935.0**	**37966.**	**3931.2**
Stddev	1.6	3.1	38.	.9
%RSD	.06445	.15765	.10064	.02233
#1	2492.2	1937.2	37939.	3931.8
#2	2489.9	1932.8	37993.	3930.6

Sample Name: ICVL-2222402 Acquired: 8/1/2014 10:57:13 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**.19309**	**.01292**	**.02007**	**.00219**	**.00213**	**.50921**	**.00225**	**.00398**	**.00478**	**.00901**	**.04947**
Stddev	.00051	.02788	.00220	.00017	.00002	.00011	.00187	.00009	.00002	.00016	.00066	.00146
%RSD	8.8980	14.437	17.030	.84006	.83544	5.0243	.36748	4.0814	.53842	3.2808	7.3581	2.9491
#1	.00609	.17338	.01137	.02019	.00218	.00220	.50789	.00232	.00396	.00489	.00854	.04844
#2	.00537	.21280	.01448	.01995	.00221	.00205	.51053	.00219	.00399	.00467	.00948	.05050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50639**	**.02873**	**.21144**	**.00347**	**.01050**	**.95383**	**.00988**	**.01117**	**.2136**	**.02105**	**.02577**	**.53925**
Stddev	.01065	.00086	.00226	.00004	.00017	.01635	.00031	.00105	.0023	.00237	.00214	.00183
%RSD	2.1034	2.9895	1.0699	1.0099	1.6284	1.7143	3.1080	9.3571	1.098	11.236	8.3033	.33993
#1	.49886	.02813	.20984	.00345	.01063	.96539	.01010	.01044	.2153	.02272	.02425	.54055
#2	.51392	.02934	.21304	.00350	.01038	.94226	.00967	.01191	.2120	.01938	.02728	.53795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00975**	**.00510**	**.00468**	**.02095**	**.00529**	**.01123**
Stddev	.00028	.00009	.00013	.00422	.00026	.00059
%RSD	2.8992	1.7111	2.7263	20.166	4.9539	5.2778
#1	.00995	.00503	.00477	.02394	.00547	.01165
#2	.00955	.00516	.00459	.01796	.00510	.01081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2486.3**	**1948.4**	**38134.**	**3957.3**
Stddev	.9	1.1	204.	3.7
%RSD	.03795	.05419	.53425	.09232
#1	2485.6	1949.2	38278.	3959.9
#2	2487.0	1947.7	37990.	3954.7

Sample Name: CRI-2210843 Acquired: 8/1/2014 11:00:03 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00259**	**.19780**	**.00932**	**.02011**	**.00225**	**.00227**	**.54544**	**.00118**	**.00417**	**.00429**	**.00942**	**.05628**
Stddev	.00020	.01454	.00096	.00005	.00001	.00012	.00829	.00000	.00014	.00007	.00054	.00412
%RSD	7.6862	7.3499	10.315	.26793	.41379	5.2242	1.5193	.36179	3.4169	1.5184	5.7710	7.3252
#1	.00273	.20808	.01000	.02007	.00224	.00218	.55130	.00117	.00427	.00434	.00903	.05336
#2	.00245	.18752	.00864	.02015	.00226	.00235	.53958	.00118	.00406	.00425	.00980	.05919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48185**	**.02808**	**.22005**	**.00354**	**.01044**	**.96465**	**.00913**	**.00503**	**.2064**	**.01906**	**.01288**	**.50731**
Stddev	.00704	.00073	.00175	.00006	.00008	.00710	.00060	.00067	.0087	.00027	.00330	.00178
%RSD	1.4605	2.6130	.79471	1.6669	.73829	.73637	6.5214	13.231	4.208	1.4132	25.654	.35022
#1	.48683	.02756	.21881	.00350	.01039	.95963	.00955	.00456	.2002	.01887	.01054	.50857
#2	.47687	.02860	.22128	.00358	.01050	.96968	.00871	.00550	.2125	.01925	.01522	.50606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00973**	**.00521**	**.00470**	**.01913**	**.00557**	**.01419**
Stddev	.00072	.00004	.00000	.00044	.00026	.00063
%RSD	7.4023	.70456	.05938	2.2825	4.6538	4.4650
#1	.00922	.00518	.00469	.01944	.00575	.01464
#2	.01024	.00523	.00470	.01882	.00539	.01375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2487.3**	**1945.8**	**38220.**	**3968.1**
Stddev	4.5	4.0	133.	31.5
%RSD	.18191	.20361	.34761	.79433
#1	2490.5	1948.6	38314.	3945.8
#2	2484.1	1943.0	38126.	3990.3

Sample Name: ICSA-2204542 Acquired: 8/1/2014 11:02:54 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**530.87**	**-.00285**	**.00112**	**.00014**	**.00005**	**474.95**	**.00096**	**-.00067**	**.00115**	**.00786**	**189.49**
Stddev	.00088	1.44	.00703	.00106	.00001	.00016	.89	.00011	.00012	.00000	.00033	1.51
%RSD	409.72	.27213	246.39	95.198	8.7764	343.49	.18715	11.862	17.974	.29331	4.2235	.79502
#1	-.00084	531.90	-.00782	.00037	.00013	-.00007	475.58	.00104	-.00059	.00115	.00809	190.56
#2	.00041	529.85	.00212	.00187	.00015	.00016	474.32	.00088	-.00076	.00116	.00762	188.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01206**	**.00860**	**502.43**	**.00375**	**-.00340**	**.03639**	**.00610**	**-.00031**	**-.0341**	**-.01588**	**.00645**	**.03158**
Stddev	.01682	.00048	.20	.00002	.00057	.00837	.00012	.00112	.0004	.00026	.00093	.00189
%RSD	139.44	5.5326	.04062	.63733	16.693	23.005	1.9813	360.12	1.101	1.6473	14.377	5.9861
#1	.02395	.00893	502.28	.00377	-.00300	.03047	.00618	-.00111	-.0343	-.01569	.00711	.03292
#2	.00017	.00826	502.57	.00373	-.00380	.04231	.00601	.00048	-.0338	-.01606	.00580	.03025
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.01443**	**.00136**	**-.01427**	**-.00042**	**-.00006**
Stddev	.00135	.00000	.00052	.00246	.00049	.00008
%RSD	393.44	.01494	38.243	17.278	116.71	139.13
#1	.00061	.01443	.00099	-.01252	-.00077	-.00012
#2	-.00130	.01443	.00172	-.01601	-.00007	-.00000
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1803.5**	**1717.6**	**32836.**	**3794.9**
Stddev	6.6	4.7	144.	28.6
%RSD	.36550	.27124	.43715	.75263
#1	1808.2	1720.9	32938.	3774.7
#2	1798.9	1714.3	32735.	3815.1

Sample Name: ICSAB-2222403 Acquired: 8/1/2014 11:05:49 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22377**	**510.33**	**.09901**	**.00778**	**.48625**	**.48493**	**467.44**	**1.0270**	**.51235**	**.48024**	**.53697**	**92.849**	**.00246**
Stddev	.00015	1.99	.00392	.00081	.00167	.00146	4.15	.0022	.00110	.00041	.00453	.496	.05283
%RSD	.06835	.39052	3.9576	10.383	.34435	.30074	.88886	.21286	.21502	.08603	.84331	.53425	2146.5
#1	.22387	508.93	.10178	.00721	.48507	.48390	464.50	1.0255	.51157	.48053	.54018	92.498	-.03490
#2	.22366	511.74	.09624	.00835	.48743	.48596	470.37	1.0286	.51313	.47995	.53377	93.200	.03982
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52632**	**494.29**	**.48087**	**-.00150**	**.14754**	**.98120**	**.04804**	F **.6355**	**.59919**	**.05825**	**1.0444**	**-.00156**	**.50120**
Stddev	.00359	.36	.00048	.00008	.00553	.00026	.00313	.0010	.00466	.00941	.0383	.00061	.00243
%RSD	.68282	.07252	.09935	5.6762	3.7489	.02632	6.5048	.1560	.77832	16.154	3.6676	38.987	.48445
#1	.52378	494.54	.48054	-.00144	.14363	.98138	.05025	.6362	.60249	.06491	1.0714	-.00199	.49948
#2	.52886	494.04	.48121	-.00156	.15145	.98102	.04583	.6348	.59589	.05160	1.0173	-.00113	.50291
Check ?	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	None
Value								.5000					
Range								20.00%					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00270**	**.08478**	**.50641**	**.91880**
Stddev	.00009	.00786	.00078	.00108
%RSD	3.3593	9.2760	.15435	.11755
#1	.00276	.09034	.50586	.91957
#2	.00263	.07921	.50696	.91804
Check ?	None	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1807.7**	**1723.1**	**32539.**	**3824.9**
Stddev	4.0	4.1	16.	.8
%RSD	.22087	.23676	.04850	.02201
#1	1810.5	1726.0	32527.	3824.3
#2	1804.9	1720.2	32550.	3825.5

Sample Name: CCV-2222404 Acquired: 8/1/2014 11:08:42 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50522**	**25.779**	**.49918**	**.49281**	**.50035**	**.50130**	**25.315**	**.50577**	**.50481**	**.49906**	**.48752**	**25.013**	**24.770**	**.49458**
Stddev	.00262	.030	.00224	.00025	.00050	.00237	.016	.00078	.00033	.00590	.00005	.043	.063	.00040
%RSD	.51839	.11518	.44856	.05141	.10059	.47233	.06348	.15464	.06579	1.1816	.00955	.17214	.25517	.08033
#1	.50708	25.800	.49759	.49299	.50071	.50298	25.304	.50522	.50457	.50323	.48755	25.043	24.725	.49486
#2	.50337	25.758	.50076	.49263	.50000	.49963	25.326	.50632	.50504	.49489	.48749	24.982	24.815	.49429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.502**	**.50969**	**.50634**	**24.830**	**.50069**	**.50962**	**24.79**	**.50285**	**.50066**	**25.202**	**.51465**	**.50692**	**.50498**	**.50465**
Stddev	.158	.00412	.00145	.014	.00152	.00207	.00	.00212	.00133	.101	.00361	.00246	.00267	.00249
%RSD	.61815	.80780	.28641	.05557	.30412	.40622	.0099	.42215	.26650	.40059	.70090	.48484	.52972	.49438
#1	25.613	.51260	.50531	24.840	.50177	.50816	24.79	.50135	.49972	25.130	.51210	.50866	.50687	.50289
#2	25.390	.50678	.50737	24.820	.49962	.51108	24.79	.50435	.50161	25.273	.51721	.50518	.50308	.50642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50685**	**.51138**
Stddev	.00552	.00757
%RSD	1.0890	1.4808
#1	.51075	.51673
#2	.50294	.50602
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2239.8**	**1892.3**	**36594.**	**3928.0**
Stddev	6.3	3.7	334.	3.7
%RSD	.28193	.19473	.91401	.09528
#1	2244.3	1894.9	36358.	3930.7
#2	2235.3	1889.7	36831.	3925.4

Sample Name: CCB-2222437 Acquired: 8/1/2014 11:11:25 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02594**	**-.00134**	**.00017**	**.00001**	**.00020**	**.02566**	**.00017**	**.00016**	**.00029**	**.00054**	**.00471**
Stddev	.00076	.00969	.00069	.00045	.00000	.00002	.00106	.00005	.00004	.00052	.00086	.00626
%RSD	1988.8	37.338	51.185	266.95	8.8511	7.8713	4.1303	32.594	25.081	178.99	159.63	132.85
#1	-.00058	.01909	-.00183	.00049	.00001	.00019	.02492	.00013	.00013	.00066	-.00007	.00914
#2	.00050	.03279	-.00086	-.00015	.00001	.00021	.02641	.00021	.00019	-.00008	.00115	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00017**	**.01935**	**.00007**	**.00029**	**.00717**	**-.00040**	**.00023**	**.0075**	**.00015**	**.00182**	**.02024**
Stddev	.02629	.00025	.00450	.00011	.00003	.00511	.00040	.00114	.0003	.00061	.00174	.00041
%RSD	2469.9	152.35	23.255	157.56	9.4410	71.296	99.360	488.64	3.395	410.77	95.682	2.0330
#1	.01965	-.00001	.01617	.00015	.00027	.00356	-.00069	.00104	.0073	-.00028	.00306	.01995
#2	-.01753	.00035	.02253	-.00001	.00031	.01079	-.00012	-.00057	.0077	.00058	.00059	.02053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00004**	**-.00004**	**.00043**	**.00031**	**.00051**
Stddev	.00020	.00004	.00015	.00170	.00021	.00067
%RSD	477.05	113.68	362.16	396.28	66.390	130.65
#1	.00018	.00001	.00006	-.00077	.00017	.00004
#2	-.00010	.00006	-.00015	.00163	.00046	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2499.2**	**1938.6**	**37907.**	**3950.4**
Stddev	1.1	.0	70.	1.3
%RSD	.04202	.00178	.18571	.03252
#1	2498.4	1938.6	37857.	3949.5
#2	2499.9	1938.6	37957.	3951.3

Sample Name: CCVL-2222402 Acquired: 8/1/2014 11:15:58 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00629**	**.20190**	**.01148**	**.01996**	**.00222**	**.00220**	**.52575**	**.00215**	**.00392**	**.00415**	**.00936**	**.06094**
Stddev	.00024	.00842	.00220	.00045	.00000	.00012	.00109	.00012	.00011	.00032	.00122	.01298
%RSD	3.8383	4.1726	19.206	2.2492	.07524	5.2766	.20704	5.8151	2.8807	7.7678	13.068	21.293
#1	.00612	.19594	.01304	.02028	.00222	.00228	.52652	.00206	.00384	.00438	.00849	.05176
#2	.00646	.20785	.00992	.01965	.00222	.00212	.52498	.00223	.00400	.00392	.01022	.07011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48786**	**.02855**	**.22568**	**.00345**	**.01043**	**.97325**	**.00931**	**.00927**	**.2133**	**.02076**	**.02699**	**.51011**
Stddev	.02676	.00041	.00236	.00002	.00015	.00338	.00093	.00075	.0001	.00046	.00697	.01013
%RSD	5.4852	1.4240	1.0473	.67135	1.4103	.34739	9.9460	8.0477	.0418	2.2030	25.839	1.9851
#1	.50679	.02826	.22401	.00344	.01033	.97086	.00865	.00980	.2133	.02108	.03193	.51727
#2	.46894	.02883	.22735	.00347	.01054	.97564	.00996	.00874	.2132	.02044	.02206	.50295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.00514**	**.00507**	**.02225**	**.00537**	**.01042**
Stddev	.00004	.00016	.00002	.00047	.00042	.00025
%RSD	.44001	3.0748	.48317	2.1304	7.7662	2.3590
#1	.00944	.00502	.00506	.02191	.00507	.01024
#2	.00938	.00525	.00509	.02258	.00566	.01059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2490.8**	**1943.5**	**38260.**	**3963.0**
Stddev	1.8	.0	167.	12.1
%RSD	.07349	.00153	.43552	.30630
#1	2492.1	1943.5	38142.	3954.4
#2	2489.5	1943.4	38378.	3971.6

Sample Name: 480-64532-E-3-D Acquired: 8/1/2014 11:18:49 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**1.4875**	**.00167**	**.09108**	**.04068**	**.00012**	**70.520**	**.00020**	**.00047**
Stddev	.00063	.0752	.00348	.00031	.00011	.00001	.379	.00009	.00002
%RSD	106.35	5.0585	208.38	.33827	.27559	10.206	.53677	46.514	3.8007
#1	-.00103	1.5408	.00413	.09130	.04076	.00013	70.788	.00027	.00046
#2	-.00015	1.4343	-.00079	.09086	.04060	.00011	70.252	.00014	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00271**	**.00480**	**1.2735**	**4.0683**	**.00574**	**15.688**	**.02505**	**.00103**	**17.697**
Stddev	.00004	.00099	.0073	.0189	.00047	.037	.00000	.00025	.087
%RSD	1.4018	20.685	.57579	.46563	8.1447	.23387	.01105	24.242	.49425
#1	.00268	.00410	1.2683	4.0817	.00607	15.714	.02505	.00120	17.759
#2	.00274	.00551	1.2786	4.0549	.00541	15.662	.02506	.00085	17.635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**.00201**	F **24.99**	**.00040**	**-.00158**	**6.1675**	**.00011**	**.98821**	**.02483**
Stddev	.00019	.00066	.02	.00029	.00128	.0489	.00077	.00369	.00088
%RSD	16.250	32.661	.0958	72.048	81.539	.79346	718.22	.37375	3.5555
#1	.00103	.00155	25.01	.00020	-.00248	6.2021	.00065	.99082	.02421
#2	.00130	.00247	24.98	.00061	-.00067	6.1329	-.00044	.98560	.02546
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00018**	**.00232**	**.00798**
Stddev	.00137	.00008	.00065
%RSD	771.65	3.5420	8.1363
#1	-.00079	.00226	.00844
#2	.00115	.00238	.00752
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2267.4**	**1847.9**	**36559.**	**3966.2**
Stddev	8.9	3.5	39.	26.2
%RSD	.39305	.19146	.10552	.66120
#1	2273.7	1850.4	36587.	3947.7
#2	2261.1	1845.4	36532.	3984.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64532-E-3-D SD@5 Acquired: 8/1/2014 11:21:37 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.30831**	**.00133**	**.01893**	**.00823**	**.00012**	**13.841**	**.00019**	**.00015**
Stddev	.00017	.00908	.00087	.00021	.00001	.00001	.073	.00001	.00004
%RSD	166.32	2.9440	65.370	1.1077	.08702	6.1298	.52788	4.1584	26.639
#1	.00022	.30189	.00194	.01908	.00824	.00013	13.789	.00018	.00018
#2	-.00002	.31472	.00071	.01879	.00823	.00012	13.893	.00019	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00012**	**.24725**	**.80163**	**.00019**	**3.0427**	**.00508**	**.00007**	**3.4034**
Stddev	.00009	.00066	.00838	.01129	.00053	.0018	.00001	.00044	.0186
%RSD	17.884	561.38	3.3873	1.4086	278.04	.05801	.18244	597.32	.54729
#1	.00042	-.00035	.25317	.79365	-.00018	3.0439	.00508	.00038	3.3902
#2	.00054	.00058	.24132	.80962	.00056	3.0414	.00509	-.00023	3.4165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00034**	**4.701**	**.00013**	**.00051**	**1.1711**	**.00028**	**.19585**	**.00417**
Stddev	.00065	.00024	.009	.00080	.00061	.0267	.00054	.00063	.00044
%RSD	156.24	71.545	.1828	596.02	118.77	2.2775	190.18	.32268	10.521
#1	.00004	.00051	4.707	-.00043	.00008	1.1522	-.00010	.19540	.00386
#2	-.00088	.00017	4.694	.00070	.00094	1.1899	.00066	.19630	.00448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00207**	**.00069**	**.00244**
Stddev	.00331	.00017	.00024
%RSD	159.96	25.369	9.7352
#1	-.00027	.00081	.00227
#2	.00442	.00057	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2413.2**	**1903.4**	**37749.**	**3975.5**
Stddev	2.6	1.5	63.	15.6
%RSD	.10858	.08068	.16655	.39249
#1	2415.1	1904.4	37793.	3986.6
#2	2411.4	1902.3	37704.	3964.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64532-E-3-D PDS Acquired: 8/1/2014 11:24:26 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04844**	**11.997**	**.21624**	**.28975**	**.24270**	**.21464**	**77.675**	**.21217**	**.21215**
Stddev	.00037	.087	.00204	.00042	.00088	.00097	.707	.00018	.00008
%RSD	.76970	.72700	.94142	.14465	.36265	.45114	.91068	.08497	.03833
#1	.04871	11.935	.21768	.29004	.24332	.21395	77.175	.21230	.21220
#2	.04818	12.058	.21480	.28945	.24208	.21532	78.175	.21204	.21209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21127**	**.21334**	**11.678**	**13.718**	**.20222**	**25.637**	**.23367**	**.20917**	**26.696**
Stddev	.00078	.00178	.073	.052	.00136	.034	.00049	.00056	.073
%RSD	.36695	.83605	.62249	.37741	.67085	.13240	.20906	.26959	.27409
#1	.21182	.21207	11.626	13.681	.20127	25.661	.23332	.20957	26.644
#2	.21072	.21460	11.729	13.755	.20318	25.613	.23401	.20878	26.748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20727**	**.21344**	F **23.67**	**.20892**	**.21614**	**16.218**	**.20423**	**1.1385**	**.23075**
Stddev	.00049	.00153	.02	.00409	.00242	.153	.00054	.0055	.00118
%RSD	.23837	.71754	.0867	1.9577	1.1191	.94543	.26518	.47930	.51299
#1	.20762	.21235	23.68	.21181	.21443	16.110	.20462	1.1346	.23158
#2	.20692	.21452	23.65	.20602	.21785	16.327	.20385	1.1424	.22991
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21826**	**.22038**	**.36088**
Stddev	.00317	.00059	.00289
%RSD	1.4544	.26937	.80073
#1	.22051	.22080	.35884
#2	.21602	.21996	.36293
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2215.4**	**1868.6**	**36622.**	**3968.3**
Stddev	4.7	1.1	34.	42.3
%RSD	.21115	.05993	.09362	1.0649
#1	2218.8	1869.4	36598.	3998.2
#2	2212.1	1867.9	36647.	3938.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64532-E-3-E MS Acquired: 8/1/2014 11:27:07 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05400**	**12.418**	**.21823**	**.29480**	**.25299**	**.21048**	**75.886**	**.21107**	**.20855**
Stddev	.00031	.023	.00187	.00030	.00015	.00016	.198	.00016	.00024
%RSD	.57888	.18615	.85911	.10185	.06043	.07487	.26063	.07694	.11610
#1	.05422	12.402	.21955	.29502	.25288	.21037	75.746	.21118	.20872
#2	.05377	12.434	.21690	.29459	.25309	.21060	76.026	.21095	.20837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20250**	**.21400**	**11.570**	**14.069**	**.21119**	**25.197**	**.23251**	**.20806**	**26.550**
Stddev	.00020	.00033	.036	.086	.00033	.007	.00077	.00043	.021
%RSD	.09972	.15271	.30844	.60984	.15778	.02641	.33094	.20805	.07801
#1	.20236	.21423	11.544	14.008	.21095	25.192	.23196	.20776	26.536
#2	.20265	.21377	11.595	14.130	.21142	25.202	.23305	.20837	26.565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20487**	**.21122**	F **33.71**	**.20810**	**.21483**	**16.793**	**.20420**	**1.1171**	**.21924**
Stddev	.00012	.00144	.04	.00002	.00449	.070	.00017	.0027	.00069
%RSD	.05938	.68035	.1247	.00959	2.0909	.41506	.08502	.24284	.31568
#1	.20479	.21021	33.68	.20808	.21166	16.744	.20408	1.1152	.21875
#2	.20496	.21224	33.74	.20811	.21801	16.842	.20433	1.1190	.21973
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21485**	**.21704**	**.20651**
Stddev	.00477	.00015	.00030
%RSD	2.2220	.07134	.14285
#1	.21148	.21715	.20672
#2	.21823	.21693	.20630
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2213.8**	**1861.9**	**36546.**	**3965.7**
Stddev	3.9	4.5	67.	3.0
%RSD	.17535	.24003	.18278	.07678
#1	2216.5	1865.1	36593.	3967.8
#2	2211.1	1858.8	36498.	3963.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64532-E-3-F MSD Acquired: 8/1/2014 11:29:48 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05229**	**12.204**	**.21070**	**.29036**	**.24880**	**.20782**	**74.839**	**.20742**	**.20517**
Stddev	.00018	.049	.00386	.00058	.00063	.00093	.161	.00049	.00001
%RSD	.35292	.39860	1.8308	.20043	.25262	.44667	.21537	.23577	.00644
#1	.05242	12.169	.21343	.28995	.24836	.20716	74.953	.20708	.20518
#2	.05216	12.238	.20797	.29077	.24925	.20847	74.725	.20777	.20516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19858**	**.20804**	**11.369**	**13.879**	**.20631**	**24.799**	**.22758**	**.20538**	**26.219**
Stddev	.00002	.00087	.009	.060	.00101	.089	.00040	.00052	.051
%RSD	.01157	.41669	.07788	.43557	.48777	.35897	.17391	.25313	.19581
#1	.19856	.20865	11.362	13.836	.20560	24.736	.22730	.20575	26.183
#2	.19859	.20743	11.375	13.922	.20702	24.862	.22786	.20501	26.255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20120**	**.20800**	F **33.12**	**.20280**	**.20742**	**16.573**	**.20226**	**1.1042**	**.21696**
Stddev	.00090	.00141	.03	.00118	.00395	.000	.00012	.0044	.00071
%RSD	.44499	.67662	.1038	.58301	1.9038	.00160	.05941	.40079	.32778
#1	.20057	.20701	33.10	.20363	.20463	16.573	.20234	1.1011	.21746
#2	.20184	.20900	33.15	.20196	.21022	16.572	.20217	1.1074	.21645
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21364**	**.21463**	**.20622**
Stddev	.00733	.00096	.00092
%RSD	3.4331	.44513	.44643
#1	.20846	.21395	.20687
#2	.21883	.21530	.20557
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2210.0**	**1859.3**	**36429.**	**3951.1**
Stddev	2.7	4.0	99.	15.7
%RSD	.12128	.21674	.27088	.39783
#1	2211.9	1862.2	36499.	3939.9
#2	2208.1	1856.5	36359.	3962.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 11:32:29 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.00702**	**-.00113**	**.00022**	**.00002**	**.00009**	**.00807**	**.00007**	**.00004**
Stddev	.00014	.00803	.00154	.00025	.00001	.00009	.00044	.00004	.00007
%RSD	21.394	114.27	135.40	112.52	23.301	95.733	5.4975	53.795	159.28
#1	-.00073	.00135	-.00005	.00040	.00002	.00015	.00775	.00009	.00009
#2	-.00054	.01270	-.00222	.00005	.00003	.00003	.00838	.00004	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00012**	**.00013**	**.01806**	**-.00062**	**.00773**	**.00004**	**.00000**	**-.01753**
Stddev	.00032	.00158	.00470	.03502	.00100	.00365	.00006	.00024	.00536
%RSD	160.20	1376.2	3731.6	193.95	160.15	47.197	133.14	5124.3	30.580
#1	.00043	.00101	-.00320	-.00671	-.00133	.01031	.00009	-.00016	-.01374
#2	-.00003	-.00124	.00345	.04282	.00008	.00515	.00000	.00017	-.02132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**-.00171**	**.0075**	**-.00024**	**-.00268**	**.00521**	**-.00006**	**.00003**	**.00005**
Stddev	.00071	.00002	.0051	.00093	.00308	.00338	.00004	.00002	.00031
%RSD	94.520	1.0970	66.96	384.73	114.95	64.949	66.576	83.747	579.09
#1	-.00025	-.00170	.0040	.00042	-.00050	.00282	-.00009	.00004	-.00017
#2	-.00125	-.00172	.0111	-.00090	-.00485	.00760	-.00003	.00001	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00206**	**.00006**	**.00029**
Stddev	.00525	.00006	.00067
%RSD	255.08	106.27	231.13
#1	.00577	.00001	-.00018
#2	-.00166	.00010	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2502.3**	**1937.6**	**37984.**	**3944.9**
Stddev	2.7	3.0	152.	6.4
%RSD	.10643	.15686	.39897	.16252
#1	2504.2	1939.8	37877.	3940.4
#2	2500.4	1935.5	38091.	3949.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: MB 480-195596/1-A Acquired: 8/1/2014 11:35:21 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.02584**	**-.00164**	**.00385**	**.00015**	**.00015**	**.06665**	**.00013**	**.00004**
Stddev	.00105	.00572	.00216	.00022	.00000	.00012	.00291	.00002	.00002
%RSD	2276.8	22.155	131.08	5.7948	2.0057	76.558	4.3602	14.520	54.113
#1	-.00079	.02988	-.00012	.00401	.00015	.00007	.06870	.00012	.00003
#2	.00069	.02179	-.00317	.00369	.00016	.00024	.06459	.00014	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00016**	**.00249**	**.02421**	**-.00077**	**.00813**	**.00012**	**-.00011**	**-.00717**
Stddev	.00008	.00094	.00651	.00980	.00017	.00289	.00008	.00012	.00101
%RSD	90.478	590.13	261.48	40.476	22.559	35.593	68.246	105.83	14.151
#1	-.00003	-.00083	.00709	.03114	-.00089	.01017	.00018	-.00020	-.00788
#2	-.00015	.00051	-.00211	.01728	-.00065	.00608	.00006	-.00003	-.00645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.00046**	F **.0077**	**.00047**	**-.00260**	**.00932**	**.00030**	**.00034**	**-.00010**
Stddev	.00014	.00005	.0050	.00097	.00087	.01666	.00006	.00000	.00032
%RSD	21.156	11.566	65.08	208.01	33.562	178.78	20.835	1.2317	325.29
#1	-.00058	.00049	.0112	.00115	-.00322	-.00246	.00026	.00034	-.00032
#2	-.00078	.00042	.0041	-.00022	-.00198	.02110	.00035	.00034	.00013
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00009**	**-.00003**	**.00188**
Stddev	.00351	.00002	.00009
%RSD	4026.6	89.085	5.0046
#1	-.00257	-.00001	.00194
#2	.00240	-.00004	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2506.6**	**1939.4**	**38398.**	**3992.9**
Stddev	5.3	6.0	132.	7.3
%RSD	.21043	.30971	.34505	.18329
#1	2502.9	1935.2	38492.	3987.7
#2	2510.4	1943.7	38305.	3998.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195596/2-A Acquired: 8/1/2014 11:38:13 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05106**	**10.469**	**.20159**	**.20523**	**.21156**	**.20458**	**10.078**	**.20422**	**.20200**
Stddev	.00003	.040	.00083	.00066	.00004	.00080	.048	.00015	.00046
%RSD	.06590	.37874	.41150	.32223	.01664	.39052	.48012	.07305	.22890
#1	.05108	10.497	.20100	.20476	.21153	.20514	10.044	.20412	.20167
#2	.05103	10.441	.20217	.20570	.21158	.20401	10.113	.20433	.20233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19788**	**.20215**	**10.193**	**9.7648**	**.19687**	**10.568**	**.20676**	**.20423**	**9.8081**
Stddev	.00290	.00050	.000	.0514	.00266	.043	.00070	.00064	.0425
%RSD	1.4658	.24683	.00481	.52586	1.3533	.40616	.33830	.31576	.43285
#1	.19583	.20250	10.193	9.8011	.19876	10.537	.20627	.20378	9.8381
#2	.19993	.20179	10.194	9.7285	.19499	10.598	.20726	.20469	9.7781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19638**	**.20406**	**10.05**	**.20169**	**.20118**	**10.191**	**.19631**	**.20064**	**.19783**
Stddev	.00027	.00012	.01	.00065	.00086	.001	.00021	.00008	.00063
%RSD	.13551	.05911	.0667	.32014	.42785	.01191	.10474	.04190	.31688
#1	.19619	.20397	10.04	.20123	.20179	10.191	.19646	.20070	.19739
#2	.19657	.20414	10.05	.20214	.20057	10.190	.19617	.20058	.19827
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20811**	**.20897**	**.20162**
Stddev	.00200	.00042	.00073
%RSD	.95937	.19902	.36248
#1	.20953	.20867	.20110
#2	.20670	.20926	.20214
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2350.1**	**1913.5**	**37760.**	**4017.3**
Stddev	4.0	5.2	70.	11.5
%RSD	.16918	.27247	.18540	.28528
#1	2353.0	1917.2	37810.	4025.4
#2	2347.3	1909.8	37711.	4009.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64621-B-1-A Acquired: 8/1/2014 11:40:56 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00285**	**18.201**	**.00596**	**1.1274**	**.17970**	**.00026**	F **945.28**	**.00128**	**.00875**
Stddev	.00011	.075	.00013	.0014	.00094	.00010	.33	.00002	.00017
%RSD	3.8019	.40944	2.1790	.12035	.52274	39.553	.03471	1.2023	1.9438
#1	.00293	18.253	.00605	1.1264	.18036	.00033	945.05	.00127	.00887
#2	.00278	18.148	.00587	1.1284	.17904	.00019	945.51	.00129	.00863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							889.00		
Low Limit							-.50000		

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02097**	**.24630**	**5.7225**	**1.9494**	**.02428**	**15.379**	**.23185**	**.02880**	**91.164**
Stddev	.00036	.00042	.0173	.0326	.00025	.038	.00098	.00004	.223
%RSD	1.7053	.17164	.30259	1.6744	1.0183	.25019	.42317	.15180	.24490
#1	.02122	.24659	5.7103	1.9725	.02446	15.407	.23254	.02883	91.322
#2	.02071	.24600	5.7348	1.9263	.02411	15.352	.23115	.02877	91.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02343**	**.01728**	F **109.6**	**-.00091**	**.01478**	**16.895**	**.01379**	**.86013**	**.29627**
Stddev	.00035	.00081	.0	.00131	.00220	.029	.00061	.00420	.00328
%RSD	1.4796	4.6999	.0368	143.42	14.882	.16935	4.4320	.48809	1.1083
#1	.02318	.01785	109.6	-.00184	.01322	16.916	.01422	.86310	.29859
#2	.02367	.01670	109.7	.00001	.01633	16.875	.01336	.85716	.29395
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00435**	**.02817**	**1.2194**
Stddev	.00582	.00061	.0015
%RSD	133.83	2.1680	.12430
#1	-.00846	.02860	1.2205
#2	-.00023	.02774	1.2183
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1848.9**	**1625.3**	**32476.**	**3869.8**
Stddev	4.6	3.2	112.	4.6
%RSD	.25037	.19510	.34521	.11947
#1	1852.2	1627.5	32397.	3873.1
#2	1845.6	1623.0	32555.	3866.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 11:43:47 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50601**	**25.327**	**.50114**	**.49201**	**.50467**	**.49636**	**24.935**	**.50020**	**.49983**	**.49050**	**.49250**	**24.739**	**24.570**	**.49287**
Stddev	.00070	.023	.00228	.00091	.00228	.00076	.081	.00114	.00046	.00403	.00241	.039	.045	.00235
%RSD	.13778	.09120	.45589	.18557	.45153	.15295	.32532	.22858	.09202	.82090	.48854	.15738	.18160	.47696
#1	.50552	25.343	.50276	.49266	.50305	.49582	24.878	.50101	.50016	.48765	.49420	24.711	24.601	.49453
#2	.50650	25.311	.49953	.49137	.50628	.49690	24.992	.49939	.49951	.49334	.49080	24.766	24.538	.49121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.429**	**.50967**	**.50199**	**24.564**	**.49845**	**.50123**	**24.80**	**.50316**	**.49937**	**24.932**	**.50716**	**.50387**	**.50148**	**.49938**
Stddev	.063	.00113	.00213	.092	.00273	.00673	.00	.00056	.00828	.065	.00018	.00159	.00061	.00082
%RSD	.24685	.22206	.42405	.37645	.54807	1.3436	.0161	.11170	1.6580	.25942	.03509	.31643	.12247	.16422
#1	25.385	.50887	.50350	24.629	.49652	.50599	24.81	.50276	.49351	24.978	.50703	.50499	.50105	.49996
#2	25.474	.51048	.50048	24.498	.50039	.49647	24.80	.50356	.50522	24.886	.50729	.50274	.50191	.49880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50661**	**.50002**
Stddev	.00253	.00015
%RSD	.49870	.03038
#1	.50483	.49992
#2	.50840	.50013
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2251.8**	**1896.9**	**36610.**	**3997.3**
Stddev	3.4	4.2	133.	.2
%RSD	.15246	.22200	.36429	.00462
#1	2249.3	1893.9	36705.	3997.1
#2	2254.2	1899.8	36516.	3997.4

Sample Name: CCB Acquired: 8/1/2014 11:46:31 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00122**	**.00004**	**.00105**	**.00001**	**-.00002**	**.01391**	**.00011**	**.00009**	**.00042**	**.00013**	**-.00051**
Stddev	.00082	.01068	.00305	.00001	.00001	.00005	.00077	.00002	.00006	.00023	.00022	.00145
%RSD	498.49	878.71	8349.4	1.3343	107.83	220.68	5.5077	21.273	63.699	55.130	165.84	287.03
#1	-.00075	-.00634	-.00212	.00104	.00001	-.00006	.01445	.00009	.00005	.00059	.00028	-.00153
#2	.00042	.00877	.00220	.00106	.00000	.00001	.01337	.00012	.00013	.00026	-.00002	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03916**	**-.00071**	**.00624**	**-.00001**	**.00020**	**-.01689**	**-.00019**	**.00064**	**.0100**	**.00034**	**-.00144**	**.00789**
Stddev	.00068	.00102	.00375	.00001	.00052	.00909	.00081	.00038	.0040	.00020	.00188	.00454
%RSD	1.7264	143.73	60.006	115.42	261.21	53.827	433.57	58.801	39.37	60.414	130.95	57.496
#1	.03964	.00001	.00889	-.00000	-.00017	-.02332	-.00075	.00091	.0128	.00048	-.00277	.01110
#2	.03868	-.00143	.00359	-.00002	.00056	-.01046	.00038	.00038	.0073	.00019	-.00011	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00020**	**-.00014**	**-.00038**	**-.00010**	**.00099**
Stddev	.00035	.00018	.00007	.00458	.00030	.00008
%RSD	78.106	89.199	50.922	1199.9	293.78	8.2619
#1	-.00020	.00033	-.00019	-.00362	-.00031	.00093
#2	-.00069	.00007	-.00009	.00286	.00011	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2506.6**	**1941.4**	**38114.**	**3972.5**
Stddev	3.0	.2	255.	6.9
%RSD	.12155	.01127	.66858	.17399
#1	2508.8	1941.3	38294.	3967.7
#2	2504.5	1941.6	37934.	3977.4

Sample Name: CCVL-2222402 Acquired: 8/1/2014 11:49:24 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.19951**	**.01487**	**.02065**	**.00230**	**.00214**	**.52457**	**.00211**	**.00400**	**.00368**	**.00979**	**.04663**
Stddev	.00011	.02435	.00216	.00065	.00003	.00002	.01151	.00005	.00015	.00021	.00075	.00127
%RSD	1.9272	12.204	14.521	3.1699	1.1643	.96070	2.1948	2.5892	3.7958	5.8266	7.6453	2.7287
#1	.00588	.18230	.01640	.02111	.00228	.00215	.51643	.00208	.00390	.00383	.00926	.04753
#2	.00573	.21673	.01334	.02019	.00232	.00212	.53271	.00215	.00411	.00352	.01031	.04573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49592**	**.02875**	**.21253**	F **.00529**	**.01014**	**.94558**	**.00935**	**.00943**	**.2193**	**.02045**	**.02806**	**.50984**
Stddev	.01221	.00007	.00612	.00009	.00016	.00274	.00096	.00033	.0123	.00062	.00166	.01251
%RSD	2.4623	.23410	2.8773	1.6197	1.6251	.28954	10.254	3.4549	5.601	3.0079	5.9298	2.4533
#1	.48728	.02870	.21686	.00523	.01026	.94364	.01002	.00966	.2106	.02089	.02924	.51868
#2	.50455	.02880	.20821	.00535	.01003	.94751	.00867	.00920	.2280	.02002	.02689	.50099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.00300								
Range				50.000%								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00932**	**.00519**	**.00473**	**.02166**	**.00523**	**.01070**
Stddev	.00006	.00009	.00007	.00372	.00012	.00003
%RSD	.65526	1.7598	1.5301	17.168	2.3454	.31866
#1	.00928	.00525	.00468	.02429	.00531	.01072
#2	.00937	.00512	.00479	.01903	.00514	.01067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2486.5**	**1945.8**	**38282.**	**3967.0**
Stddev	7.6	2.9	12.	3.9
%RSD	.30604	.15132	.03011	.09818
#1	2491.9	1947.9	38274.	3969.7
#2	2481.2	1943.7	38290.	3964.2

Sample Name: CCV-2222404 Acquired: 8/1/2014 12:06:28 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50385**	**25.785**	**.49930**	**.49163**	**.50746**	**.50476**	**25.383**	**.50131**	**.49973**	**.49701**	**.49775**	**25.242**	**24.784**	**.49591**
Stddev	.00044	.072	.00164	.00022	.00711	.00523	.321	.00007	.00029	.00238	.00025	.279	.161	.00387
%RSD	.08814	.28096	.32847	.04390	1.4018	1.0370	1.2663	.01321	.05803	.47794	.05052	1.1057	.64982	.78003
#1	.50354	25.836	.49814	.49178	.51249	.50847	25.610	.50136	.49994	.49869	.49757	25.440	24.898	.49865
#2	.50416	25.734	.50046	.49148	.50243	.50106	25.156	.50126	.49953	.49533	.49793	25.045	24.670	.49318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.388**	**.50911**	**.50285**	**24.789**	**.50114**	**.50442**	**24.86**	**.49813**	**.50361**	**25.275**	**.51009**	**.50743**	**.50256**	**.49915**
Stddev	.011	.00028	.00088	.199	.00280	.00147	.05	.00058	.00437	.217	.00003	.00492	.00028	.00120
%RSD	.04496	.05581	.17487	.80296	.55780	.29127	.1896	.11638	.86717	.85767	.00527	.96875	.05574	.23984
#1	25.380	.50891	.50347	24.930	.50312	.50338	24.83	.49772	.50052	25.428	.51007	.51090	.50276	.49831
#2	25.396	.50931	.50223	24.649	.49916	.50546	24.89	.49854	.50670	25.122	.51011	.50395	.50236	.50000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50310**	**.50661**
Stddev	.00079	.00105
%RSD	.15618	.20775
#1	.50254	.50735
#2	.50365	.50587
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2250.1**	**1898.2**	**36827.**	**3912.7**
Stddev	1.7	3.1	26.	17.8
%RSD	.07718	.16151	.07153	.45468
#1	2251.4	1900.3	36845.	3900.2
#2	2248.9	1896.0	36808.	3925.3

Sample Name: CCB-2222437 Acquired: 8/1/2014 12:09:12 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.02124**	**-.00096**	**.00068**	**-.00002**	**.00002**	**.00344**	**.00008**	**.00013**	**.00022**	**.00053**	**-.00185**
Stddev	.00063	.00348	.00155	.00023	.00001	.00005	.00101	.00014	.00004	.00038	.00021	.00561
%RSD	508.28	16.376	161.56	33.995	52.222	271.03	29.461	174.74	29.667	177.50	39.760	303.86
#1	.00057	-.01878	.00014	.00085	-.00001	.00005	.00273	.00018	.00011	-.00006	.00038	.00212
#2	-.00032	-.02370	-.00205	.00052	-.00002	-.00002	.00416	-.00002	.00016	.00049	.00067	-.00582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**-.00076**	**-.00177**	**.00010**	**.00015**	**-.02491**	**-.00027**	**-.00000**	**.0046**	**-.00041**	**-.00423**	**.03369**
Stddev	.00375	.00047	.00312	.00004	.00019	.00085	.00105	.00211	.0021	.00127	.00143	.02437
%RSD	64.616	62.365	175.84	43.617	127.43	3.4283	381.34	57977.	45.70	311.74	33.775	72.340
#1	.00315	-.00043	-.00398	.00013	.00028	-.02430	-.00101	.00149	.0060	-.00131	-.00322	.01646
#2	.00846	-.00110	.00043	.00007	.00001	-.02551	.00047	-.00150	.0031	.00049	-.00523	.05093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00012**	**-.00019**	**-.00123**	**.00005**	**.00069**
Stddev	.00015	.00000	.00002	.00246	.00018	.00021
%RSD	56.543	.06911	9.0787	200.37	409.56	30.771
#1	-.00016	.00012	-.00018	.00051	.00018	.00084
#2	-.00038	.00012	-.00020	-.00296	-.00009	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2509.1**	**1943.0**	**38248.**	**3953.2**
Stddev	1.5	3.1	206.	.9
%RSD	.05982	.15894	.53774	.02221
#1	2508.0	1940.9	38102.	3953.8
#2	2510.1	1945.2	38393.	3952.6

Sample Name: CCVL-2222402 Acquired: 8/1/2014 12:18:14 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.22189**	**.01240**	**.01961**	**.00213**	**.00215**	**.50853**	**.00212**	**.00399**	**.00434**	**.00948**	**.05282**
Stddev	.00048	.01381	.00174	.00030	.00000	.00002	.00563	.00011	.00006	.00051	.00011	.00070
%RSD	8.3235	6.2237	14.008	1.5117	.12045	.81869	1.1077	4.9979	1.4756	11.723	1.1211	1.3298
#1	.00615	.21212	.01362	.01941	.00213	.00216	.50454	.00220	.00395	.00470	.00941	.05332
#2	.00547	.23165	.01117	.01982	.00213	.00214	.51251	.00205	.00403	.00398	.00956	.05232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47799**	**.02846**	**.21063**	**.00340**	**.01051**	**.94017**	**.00870**	**.01035**	**.2188**	**.01835**	**.02377**	**.52535**
Stddev	.02730	.00020	.00420	.00004	.00019	.00493	.00029	.00117	.0031	.00097	.00498	.00005
%RSD	5.7111	.70803	1.9959	1.1002	1.8173	.52433	3.2955	11.319	1.433	5.2608	20.935	.01044
#1	.45869	.02861	.21360	.00342	.01064	.94365	.00890	.00952	.2166	.01767	.02729	.52539
#2	.49729	.02832	.20765	.00337	.01037	.93668	.00849	.01118	.2211	.01903	.02025	.52531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00919**	**.00506**	**.00456**	**.02070**	**.00495**	**.01013**
Stddev	.00006	.00002	.00039	.00174	.00028	.00085
%RSD	.60341	.40880	8.5131	8.3857	5.6465	8.4157
#1	.00915	.00505	.00429	.02192	.00475	.01073
#2	.00923	.00508	.00483	.01947	.00514	.00953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2500.8**	**1951.5**	**38428.**	**3987.4**
Stddev	5.1	1.3	67.	8.6
%RSD	.20218	.06611	.17526	.21679
#1	2504.4	1952.4	38476.	3993.5
#2	2497.3	1950.6	38380.	3981.3

Sample Name: 480-64311-F-7-C Acquired: 8/1/2014 12:21:04 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.11005**	**.00278**	**.03854**	**.11781**	**.00007**	**114.75**	**.00019**	**-.00018**
Stddev	.00095	.01184	.00284	.00006	.00008	.00004	.38	.00000	.00009
%RSD	294.59	10.755	102.27	.14753	.06417	51.709	.33125	1.7640	51.197
#1	-.00100	.10168	.00479	.03858	.11786	.00010	115.02	.00018	-.00025
#2	.00035	.11842	.00077	.03850	.11775	.00005	114.49	.00019	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**.00520**	**.11741**	**3.1623**	**.00423**	**42.050**	**.00765**	**.00042**	**3.4581**
Stddev	.00052	.00024	.00052	.0064	.00071	.074	.00010	.00036	.0085
%RSD	21.469	4.6885	.44548	.20291	16.769	.17515	1.3122	86.540	.24475
#1	.00280	.00537	.11778	3.1668	.00373	42.102	.00772	.00068	3.4641
#2	.00206	.00502	.11704	3.1577	.00473	41.997	.00758	.00016	3.4521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**.00207**	F **24.27**	**-.00081**	**-.00182**	**11.954**	**-.00037**	**.11530**	**.00257**
Stddev	.00065	.00177	.00	.00018	.00063	.010	.00034	.00017	.00011
%RSD	20.472	85.262	.0002	22.641	34.417	.08556	92.519	.14564	4.2950
#1	.00271	.00082	24.27	-.00068	-.00138	11.946	-.00060	.11542	.00265
#2	.00363	.00332	24.27	-.00094	-.00226	11.961	-.00013	.11518	.00250
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00054**	**.00064**	**.00467**
Stddev	.00198	.00008	.00012
%RSD	364.80	13.172	2.4765
#1	.00086	.00058	.00459
#2	-.00195	.00070	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2226.1**	**1828.0**	**36371.**	**3969.6**
Stddev	8.8	5.8	26.	9.3
%RSD	.39653	.31973	.07279	.23492
#1	2232.3	1832.1	36390.	3963.0
#2	2219.8	1823.9	36352.	3976.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 12:23:52 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00921**	**-.00245**	**.00006**	**.00004**	**.00009**	**.00704**	**.00013**	**.00003**
Stddev	.00020	.00636	.00019	.00019	.00001	.00004	.00380	.00004	.00007
%RSD	26.522	69.006	7.6087	322.81	12.345	45.157	53.988	27.749	262.12
#1	-.00092	-.01371	-.00232	.00019	.00004	.00012	.00973	.00015	-.00002
#2	-.00063	-.00472	-.00258	-.00008	.00004	.00006	.00435	.00010	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00016**	**-.00622**	**.02296**	**-.00070**	**.00176**	**.00003**	**-.00004**	**-.02925**
Stddev	.00012	.00005	.00300	.02922	.00011	.00599	.00007	.00007	.00285
%RSD	30.716	29.666	48.261	127.26	15.386	339.98	232.71	161.55	9.7305
#1	.00032	.00020	-.00409	.04362	-.00077	.00600	-.00002	.00001	-.03127
#2	.00049	.00013	-.00834	.00230	-.00062	-.00247	.00008	-.00009	-.02724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00035**	**.0044**	**-.00070**	**.00133**	**.01077**	**-.00006**	**-.00001**	**-.00029**
Stddev	.00016	.00102	.0004	.00161	.00099	.01203	.00034	.00005	.00002
%RSD	31.844	291.57	9.067	231.07	74.187	111.73	546.48	345.51	6.4886
#1	-.00038	-.00107	.0041	-.00184	.00063	.01927	-.00030	-.00005	-.00031
#2	-.00060	.00037	.0047	.00044	.00202	.00226	.00018	.00002	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00374**	**-.00001**	**.00074**
Stddev	.00201	.00013	.00136
%RSD	53.853	1093.5	184.83
#1	.00516	-.00010	.00170
#2	.00232	.00008	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2511.5**	**1939.9**	**38132.**	**3967.1**
Stddev	4.4	3.1	21.	4.3
%RSD	.17395	.16101	.05632	.10873
#1	2514.6	1942.2	38116.	3964.1
#2	2508.4	1937.7	38147.	3970.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64420-A-1-A Acquired: 8/1/2014 12:26:44 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**56.994**	**.05713**	**.03050**	**.78501**	**.00350**	**27.312**	**.00431**	**.05480**
Stddev	.00012	.061	.00450	.00089	.00091	.00005	.104	.00005	.00011
%RSD	218.97	.10760	7.8709	2.9297	.11622	1.5411	.38058	1.0471	.20249
#1	-.00014	56.950	.05395	.03113	.78436	.00347	27.238	.00428	.05488
#2	.00003	57.037	.06031	.02987	.78565	.00354	27.385	.00434	.05472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07775**	**.13549**	**118.53**	**4.5852**	**.11586**	**17.369**	**3.2678**	**.00330**	**1.9685**
Stddev	.00077	.00122	.81	.0199	.00006	.002	.0066	.00005	.0078
%RSD	.98462	.90120	.68345	.43499	.05316	.01270	.20115	1.6228	.39617
#1	.07829	.13635	117.96	4.5711	.11581	17.371	3.2725	.00327	1.9629
#2	.07721	.13462	119.11	4.5993	.11590	17.368	3.2632	.00334	1.9740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12567**	**.63526**	**1.887**	**.00295**	**.00397**	**14.260**	**.03269**	**.15273**	**1.2287**
Stddev	.00045	.00229	.016	.00046	.00288	.011	.00030	.00076	.0030
%RSD	.36189	.36112	.8417	15.466	72.364	.07502	.91197	.50038	.24453
#1	.12534	.63688	1.898	.00263	.00194	14.252	.03248	.15219	1.2309
#2	.12599	.63364	1.876	.00327	.00601	14.267	.03291	.15327	1.2266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00305**	**.09784**	**.52702**
Stddev	.00140	.00029	.00467
%RSD	45.837	.29216	.88616
#1	-.00404	.09764	.53032
#2	-.00206	.09804	.52371
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2260.7**	**2021.3**	**39475.**	**4227.2**
Stddev	.2	2.9	123.	29.2
%RSD	.00792	.14514	.31264	.68971
#1	2260.6	2019.2	39387.	4247.8
#2	2260.9	2023.4	39562.	4206.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64420-A-2-A Acquired: 8/1/2014 12:29:34 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**50.416**	**.39246**	**.13258**	**.94547**	**.00465**	**114.84**	**.21765**	**.05151**
Stddev	.00003	.000	.00195	.00092	.00375	.00004	.25	.00025	.00010
%RSD	68.853	.00034	.49602	.69456	.39640	.79297	.22084	.11632	.19195
#1	-.00002	50.416	.39384	.13193	.94812	.00467	115.02	.21747	.05144
#2	-.00006	50.416	.39108	.13323	.94282	.00462	114.66	.21783	.05158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07798**	**.25803**	**52.109**	**11.576**	**.07015**	**42.298**	**1.0153**	**.01714**	**5.9971**
Stddev	.00045	.00117	.377	.016	.00013	.007	.0004	.00028	.0017
%RSD	.58176	.45311	.72353	.14032	.18361	.01690	.04432	1.6324	.02767
#1	.07765	.25886	51.843	11.588	.07024	42.303	1.0156	.01734	5.9960
#2	.07830	.25721	52.376	11.565	.07006	42.293	1.0149	.01694	5.9983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10615**	**14.128**	**3.703**	**.02195**	**.02024**	**54.869**	**.12831**	**.50718**	**1.5905**
Stddev	.00031	.005	.003	.00237	.00586	.396	.00037	.00122	.0016
%RSD	.28925	.03655	.0919	10.794	28.939	.72124	.29000	.24072	.09967
#1	.10593	14.124	3.701	.02362	.02438	55.149	.12857	.50631	1.5916
#2	.10636	14.131	3.705	.02027	.01609	54.589	.12804	.50804	1.5893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00096**	**.09353**	**3.7646**
Stddev	.00186	.00004	.0125
%RSD	194.36	.04080	.33181
#1	.00227	.09356	3.7734
#2	-.00036	.09351	3.7558
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2144.4**	**1916.2**	**37491.**	**4095.0**
Stddev	1.5	.3	58.	11.7
%RSD	.07218	.01637	.15390	.28689
#1	2143.3	1916.4	37450.	4086.7
#2	2145.5	1916.0	37532.	4103.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64420-A-3-A Acquired: 8/1/2014 12:32:22 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**99.711**	**.05457**	**.04654**	**.98106**	**.00563**	**18.057**	**.00136**	**.08196**
Stddev	.00027	.287	.00206	.00013	.00414	.00012	.011	.00007	.00024
%RSD	25.583	.28759	3.7674	.27511	.42204	2.0439	.06091	4.8589	.29753
#1	-.00124	99.914	.05602	.04645	.98398	.00572	18.049	.00140	.08178
#2	-.00086	99.508	.05311	.04663	.97813	.00555	18.064	.00131	.08213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11235**	**.10786**	**174.03**	**5.6910**	**.15400**	**20.865**	**5.0459**	**.00006**	**3.2152**
Stddev	.00014	.00046	1.84	.0154	.00019	.026	.0033	.00045	.0072
%RSD	.12103	.42941	1.0580	.27039	.12104	.12616	.06473	755.65	.22526
#1	.11225	.10819	175.33	5.7019	.15413	20.883	5.0482	.00038	3.2101
#2	.11245	.10753	172.73	5.6802	.15387	20.846	5.0436	-.00026	3.2203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18615**	**.10826**	**.6293**	**-.00028**	**.00901**	**16.757**	**.02500**	**.14549**	**.44887**
Stddev	.00027	.00232	.0001	.00369	.00331	.029	.00069	.00072	.00092
%RSD	.14718	2.1464	.0219	1318.8	36.734	.17431	2.7539	.49232	.20583
#1	.18596	.10662	.6294	-.00289	.00667	16.736	.02451	.14599	.44821
#2	.18635	.10991	.6293	.00233	.01134	16.778	.02548	.14498	.44952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00233**	**.12469**	**.39799**
Stddev	.00100	.00020	.00077
%RSD	42.970	.16125	.19452
#1	-.00304	.12455	.39744
#2	-.00162	.12483	.39853
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2208.5**	**2142.0**	**41628.**	**4510.9**
Stddev	.2	.7	34.	6.9
%RSD	.01004	.03160	.08263	.15301
#1	2208.7	2141.5	41652.	4506.0
#2	2208.3	2142.5	41603.	4515.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64420-A-4-A Acquired: 8/1/2014 12:35:12 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**75.871**	**.10332**	**.02556**	**1.1413**	**.00414**	**11.149**	**.00384**	**.07226**
Stddev	.00003	.057	.00028	.00040	.0006	.00004	.114	.00004	.00023
%RSD	5.7817	.07450	.27125	1.5473	.04933	.92353	1.0199	1.1287	.32412
#1	-.00055	75.911	.10352	.02528	1.1417	.00417	11.230	.00387	.07210
#2	-.00059	75.831	.10313	.02584	1.1409	.00411	11.069	.00381	.07243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08892**	**.10268**	**149.24**	**5.4475**	**.14875**	**20.409**	**4.8464**	**.00037**	**.22427**
Stddev	.00062	.00018	.91	.0047	.00033	.061	.0162	.00049	.00251
%RSD	.69457	.17900	.60984	.08691	.22488	.30019	.33457	133.04	1.1212
#1	.08936	.10255	149.88	5.4509	.14899	20.452	4.8578	.00072	.22605
#2	.08849	.10281	148.59	5.4442	.14851	20.365	4.8349	.00002	.22249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15763**	**.28876**	**1.055**	**.00124**	**.00565**	**21.489**	**.02955**	**.06140**	**.52212**
Stddev	.00130	.00338	.001	.00070	.00255	.178	.00039	.00069	.00029
%RSD	.82708	1.1714	.0899	56.652	45.193	.82633	1.3123	1.1316	.05495
#1	.15855	.28637	1.054	.00074	.00384	21.615	.02927	.06091	.52192
#2	.15671	.29115	1.056	.00174	.00745	21.364	.02982	.06189	.52232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00298**	**.10063**	**1.1351**
Stddev	.00469	.00012	.0091
%RSD	157.55	.11877	.80078
#1	.00034	.10055	1.1415
#2	-.00629	.10072	1.1287
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2256.1**	**2077.3**	**40357.**	**4330.7**
Stddev	2.6	2.6	52.	35.6
%RSD	.11586	.12309	.12776	.82221
#1	2258.0	2079.1	40320.	4305.5
#2	2254.3	2075.5	40393.	4355.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64420-B-5-A Acquired: 8/1/2014 12:38:02 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00137**	**87.195**	**.05941**	**.01534**	**1.0315**	**.00461**	**10.037**	**.00151**	**.08387**
Stddev	.00019	.266	.00108	.00012	.0016	.00005	.001	.00001	.00050
%RSD	13.582	.30549	1.8128	.76444	.15367	1.0763	.00983	.78788	.59437
#1	-.00124	87.006	.06017	.01526	1.0327	.00464	10.038	.00152	.08351
#2	-.00150	87.383	.05865	.01543	1.0304	.00457	10.036	.00150	.08422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10464**	**.12024**	**180.40**	**5.8768**	**.16103**	**23.015**	**5.1239**	**.00092**	**.36077**
Stddev	.00061	.00071	.02	.0495	.00029	.075	.0131	.00001	.00875
%RSD	.58374	.58815	.00999	.84259	.17829	.32694	.25540	1.5828	2.4266
#1	.10421	.11974	180.38	5.9118	.16083	22.962	5.1146	.00093	.35458
#2	.10508	.12074	180.41	5.8418	.16123	23.068	5.1331	.00091	.36696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18620**	**.12383**	**.4919**	**-.00091**	**.00573**	**12.643**	**.02344**	**.05283**	**.45559**
Stddev	.00059	.00021	.0113	.00000	.00140	.068	.00023	.00006	.00237
%RSD	.31591	.16704	2.300	.31217	24.374	.54040	.99242	.11911	.51958
#1	.18661	.12368	.4999	-.00092	.00672	12.595	.02328	.05288	.45392
#2	.18578	.12397	.4839	-.00091	.00474	12.692	.02361	.05279	.45727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00418**	**.10943**	**.55754**
Stddev	.00068	.00032	.00531
%RSD	16.368	.28793	.95251
#1	-.00466	.10921	.55378
#2	-.00369	.10966	.56130
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2234.4**	**2089.6**	**40617.**	**4326.4**
Stddev	2.6	3.1	166.	3.8
%RSD	.11615	.15068	.40790	.08733
#1	2236.2	2087.4	40734.	4329.1
#2	2232.5	2091.8	40500.	4323.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64420-A-6-A Acquired: 8/1/2014 12:40:51 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**56.769**	**.05825**	**.01157**	**.87396**	**.00287**	**9.2493**	**.00121**	**.06871**
Stddev	.00101	.296	.00040	.00004	.00015	.00000	.0666	.00000	.00003
%RSD	96.421	.52113	.69371	.32765	.01733	.00243	.72049	.28818	.04067
#1	-.00033	56.560	.05797	.01154	.87407	.00287	9.2022	.00121	.06869
#2	-.00177	56.979	.05854	.01160	.87386	.00287	9.2965	.00121	.06873
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09776**	**.12881**	**142.64**	**4.7964**	**.11926**	**15.964**	**7.7892**	**.01381**	**.87783**
Stddev	.00009	.00066	.78	.0426	.00042	.034	.0047	.00041	.00204
%RSD	.09164	.50852	.54689	.88728	.35005	.21116	.06088	2.9646	.23268
#1	.09769	.12927	142.08	4.7663	.11897	15.940	7.7858	.01352	.87639
#2	.09782	.12835	143.19	4.8265	.11956	15.988	7.7925	.01409	.87928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13869**	**.09299**	**.1819**	**.00074**	**.00293**	**13.100**	**.02456**	**.04191**	**.20429**
Stddev	.00003	.00039	.0017	.00103	.00203	.109	.00018	.00024	.00154
%RSD	.02019	.42368	.9582	139.86	69.441	.82844	.73930	.57260	.75306
#1	.13871	.09271	.1831	.00001	.00436	13.023	.02469	.04174	.20320
#2	.13867	.09327	.1807	.00147	.00149	13.177	.02444	.04208	.20538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00235**	**.07752**	**.38491**
Stddev	.00313	.00000	.00133
%RSD	133.55	.00483	.34465
#1	-.00456	.07752	.38397
#2	-.00013	.07753	.38585
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2267.7**	**2124.4**	**41403.**	**4407.4**
Stddev	.4	1.2	15.	31.8
%RSD	.01935	.05664	.03513	.72186
#1	2267.4	2125.3	41413.	4429.9
#2	2268.1	2123.6	41392.	4384.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 12:43:46 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.00796**	**-.00097**	**.00199**	**.00014**	**.00003**	**.02023**	**.00101**	**-.00064**
Stddev	.00021	.01464	.00001	.00016	.00001	.00011	.00126	.00001	.00008
%RSD	33.326	183.76	1.4426	7.9750	6.3747	355.80	6.2071	.69494	13.155
#1	-.00049	.00238	-.00096	.00211	.00015	.00011	.01934	.00101	-.00058
#2	-.00078	-.01831	-.00098	.00188	.00014	-.00005	.02112	.00102	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00051**	**-.00377**	**.01623**	**-.00035**	**-.00096**	**.00026**	**.00115**	**-.02782**
Stddev	.00031	.00009	.00225	.00728	.00036	.00772	.00009	.00029	.00070
%RSD	124.20	17.170	59.602	44.844	100.19	806.78	34.616	25.186	2.5118
#1	.00003	.00057	-.00537	.02138	-.00010	-.00642	.00032	.00095	-.02832
#2	.00046	.00045	-.00218	.01109	-.00061	.00450	.00019	.00136	-.02733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00305**	**.00154**	**.0037**	**.00257**	**.00694**	**.60683**	**.00018**	**-.00000**	**-.00039**
Stddev	.00007	.00067	.0064	.00004	.00086	.03571	.00008	.00006	.00018
%RSD	2.2864	43.593	170.2	1.4252	12.332	5.8854	45.338	1398.5	45.930
#1	-.00310	.00201	.0082	.00254	.00754	.63209	.00024	.00004	-.00051
#2	-.00300	.00107	-.0008	.00259	.00633	.58158	.00012	-.00004	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01331**	**.00039**	**-.00009**
Stddev	.00263	.00015	.00124
%RSD	19.786	39.330	1426.7
#1	-.01145	.00050	-.00097
#2	-.01517	.00028	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2385.6**	**1718.5**	**34974.**	**3763.6**
Stddev	20.5	19.2	143.	22.7
%RSD	.86054	1.1176	.40810	.60295
#1	2371.1	1704.9	34873.	3747.5
#2	2400.1	1732.1	35075.	3779.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 12:46:40 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50482**	**25.646**	**.49527**	**.48251**	**.49770**	**.50382**	**25.956**	**.49860**	**.50189**	**.50205**	**.49168**	**25.462**	**24.641**	**.48243**
Stddev	.00510	.011	.00118	.00238	.00019	.00111	.062	.00040	.00164	.00099	.00074	.073	.052	.00100
%RSD	1.0106	.04419	.23882	.49375	.03717	.22045	.23730	.08084	.32606	.19761	.15141	.28810	.20998	.20742
#1	.50843	25.638	.49443	.48082	.49783	.50460	25.999	.49832	.50304	.50135	.49115	25.514	24.604	.48313
#2	.50122	25.655	.49611	.48419	.49757	.50303	25.912	.49889	.50073	.50276	.49221	25.411	24.677	.48172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.579**	**.51751**	**.49851**	**24.280**	**.50423**	**.50603**	**24.62**	**.49166**	**.49506**	**25.424**	**.51395**	**.49837**	**.50457**	**.50403**
Stddev	.068	.00205	.00048	.045	.00083	.00407	.07	.00211	.00751	.036	.00191	.00027	.00083	.00336
%RSD	.26668	.39679	.09577	.18662	.16378	.80493	.2726	.42886	1.5172	.14323	.37187	.05321	.16517	.66691
#1	25.628	.51897	.49817	24.248	.50364	.50891	24.57	.49017	.48975	25.398	.51530	.49856	.50516	.50641
#2	25.531	.51606	.49885	24.312	.50481	.50315	24.66	.49315	.50037	25.450	.51260	.49819	.50398	.50165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50733**	**.52522**
Stddev	.00178	.00598
%RSD	.35083	1.1379
#1	.50859	.52944
#2	.50607	.52099
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2326.4**	**1979.0**	**38565.**	**4025.9**
Stddev	14.9	18.7	141.	3.3
%RSD	.63897	.94730	.36662	.08317
#1	2336.9	1992.3	38665.	4028.3
#2	2315.9	1965.8	38465.	4023.5

Sample Name: CCB Acquired: 8/1/2014 12:49:23 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.01132**	**-.00086**	**.00016**	**.00002**	**.00006**	**.00461**	**.00016**	**-.00001**	**.00039**	**.00041**	**.00184**
Stddev	.00008	.02426	.00121	.00010	.00001	.00005	.00251	.00004	.00007	.00005	.00044	.00067
%RSD	13.690	214.34	140.01	62.163	52.306	91.999	54.562	23.440	520.60	13.809	107.20	36.529
#1	-.00062	-.00583	-.00001	.00023	.00002	.00002	.00638	.00013	-.00006	.00042	.00010	.00231
#2	-.00051	.02847	-.00171	.00009	.00001	.00010	.00283	.00018	.00003	.00035	.00072	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02854**	**.00046**	**-.00034**	**.00026**	**.00022**	**-.04364**	**-.00071**	**.00059**	**.0047**	**.00032**	**-.00127**	**.01708**
Stddev	.00193	.00012	.00178	.00004	.00010	.00889	.00003	.00071	.0009	.00107	.00171	.00848
%RSD	6.7651	26.096	526.80	16.990	47.092	20.360	4.5820	120.60	19.69	332.29	134.90	49.634
#1	.02718	.00037	-.00160	.00029	.00029	-.03736	-.00069	.00109	.0040	-.00044	-.00006	.01108
#2	.02991	.00054	.00092	.00023	.00015	-.04992	-.00073	.00009	.0054	.00108	-.00248	.02307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00017**	**-.00033**	**.00131**	**.00003**	**.00066**
Stddev	.00032	.00011	.00011	.00031	.00018	.00052
%RSD	97.243	61.774	32.632	23.655	594.01	78.576
#1	-.00010	.00010	-.00041	.00153	.00016	.00103
#2	-.00055	.00025	-.00026	.00109	-.00010	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2535.5**	**1972.2**	**38614.**	**3963.0**
Stddev	13.8	6.8	26.	8.5
%RSD	.54352	.34265	.06748	.21501
#1	2545.3	1977.0	38596.	3956.9
#2	2525.8	1967.5	38633.	3969.0

Sample Name: CCVL-2222402 Acquired: 8/1/2014 12:52:15 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**.19804**	**.01321**	**.01990**	**.00231**	**.00223**	**.51205**	**.00217**	**.00398**	**.00403**	**.00940**	**.05486**
Stddev	.00014	.00726	.00138	.00015	.00000	.00013	.00038	.00003	.00009	.00064	.00089	.00090
%RSD	2.5786	3.6641	10.463	.73799	.20694	5.6242	.07474	1.4903	2.3422	15.767	9.4686	1.6455
#1	.00531	.20317	.01418	.01980	.00231	.00232	.51178	.00219	.00391	.00448	.00877	.05550
#2	.00551	.19291	.01223	.02001	.00231	.00214	.51232	.00215	.00405	.00358	.01002	.05422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50200**	**.02828**	**.20862**	**.00354**	**.00989**	**.93083**	**.00911**	**.00982**	**.2132**	**.01800**	**.02579**	**.52329**
Stddev	.01329	.00108	.00047	.00001	.00020	.00217	.00023	.00040	.0004	.00265	.00525	.00348
%RSD	2.6479	3.8232	.22468	.32759	2.0323	.23310	2.4910	4.0772	.2006	14.715	20.373	.66475
#1	.49260	.02905	.20896	.00353	.01003	.93236	.00895	.01010	.2129	.01987	.02950	.52575
#2	.51139	.02752	.20829	.00355	.00975	.92930	.00927	.00954	.2136	.01613	.02207	.52083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00964**	**.00512**	**.00466**	**.02251**	**.00492**	**.01041**
Stddev	.00027	.00013	.00002	.00058	.00040	.00049
%RSD	2.7857	2.5911	.36325	2.5768	8.0923	4.7034
#1	.00983	.00503	.00468	.02210	.00464	.01006
#2	.00945	.00522	.00465	.02292	.00520	.01076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2517.9**	**1970.3**	**38587.**	**3950.4**
Stddev	.0	.3	87.	14.5
%RSD	.00195	.01473	.22482	.36799
#1	2517.9	1970.0	38648.	3960.7
#2	2517.9	1970.5	38526.	3940.1

Sample Name: 480-64454-A-30-A Acquired: 8/1/2014 12:55:06 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**71.281**	**.13342**	**.02065**	**.51425**	**.00393**	**20.110**	**.00237**	**.07381**
Stddev	.00106	.019	.00022	.00031	.00085	.00005	.068	.00004	.00002
%RSD	141.55	.02681	.16341	1.5251	.16625	1.1944	.33753	1.6361	.02065
#1	-.00151	71.295	.13358	.02087	.51364	.00390	20.062	.00234	.07380
#2	.00000	71.268	.13327	.02043	.51485	.00396	20.158	.00239	.07382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14001**	**.18186**	**162.21**	**5.6809**	**.13159**	**28.256**	**9.4844**	**.00070**	**1.0045**
Stddev	.00066	.00007	.22	.0476	.00122	.170	.0535	.00032	.0098
%RSD	.47460	.03904	.13338	.83869	.92377	.60177	.56447	44.877	.97877
#1	.13954	.18181	162.06	5.7146	.13073	28.136	9.4466	.00093	.99760
#2	.14048	.18191	162.36	5.6473	.13245	28.376	9.5223	.00048	1.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15481**	**.35563**	**4.728**	**.00281**	**.00378**	**18.239**	**.07027**	**.12320**	**.97125**
Stddev	.00045	.00161	.004	.00125	.00601	.023	.00039	.00012	.00310
%RSD	.29196	.45152	.0773	44.679	159.17	.12533	.55070	.09551	.31964
#1	.15449	.35676	4.730	.00370	.00803	18.255	.07054	.12312	.97345
#2	.15513	.35449	4.725	.00192	-.00047	18.223	.06999	.12328	.96906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00010**	**.11560**	**.58043**
Stddev	.00298	.00069	.00768
%RSD	2892.0	.59849	1.3226
#1	-.00200	.11511	.57500
#2	.00221	.11609	.58586
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2239.1**	**2097.7**	**40688.**	**4329.1**
Stddev	3.2	2.3	182.	13.9
%RSD	.14115	.10938	.44723	.32060
#1	2236.8	2096.1	40817.	4338.9
#2	2241.3	2099.4	40560.	4319.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64454-A-31-A Acquired: 8/1/2014 12:58:02 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00211**	**78.435**	**.06982**	**.02975**	**.28252**	**.00408**	**25.065**	**.00191**	**.08208**
Stddev	.00030	.136	.00082	.00024	.00035	.00002	.207	.00005	.00012
%RSD	14.108	.17335	1.1779	.79855	.12451	.53676	.82457	2.7146	.14199
#1	-.00232	78.531	.06924	.02958	.28277	.00410	25.211	.00187	.08216
#2	-.00190	78.339	.07040	.02992	.28227	.00407	24.919	.00195	.08200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12374**	**.11732**	**179.98**	**7.1002**	**.15853**	**37.876**	**8.8350**	**.00075**	**1.4107**
Stddev	.00057	.00003	1.60	.0545	.00234	.084	.0176	.00017	.0032
%RSD	.46323	.02623	.89144	.76747	1.4755	.22218	.19977	22.993	.22781
#1	.12415	.11735	181.12	7.1388	.15688	37.935	8.8475	.00087	1.4129
#2	.12333	.11730	178.85	7.0617	.16019	37.816	8.8226	.00063	1.4084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17801**	**.12169**	**7.462**	**.00071**	**.00507**	**19.653**	**.03074**	**.14357**	**1.2976**
Stddev	.00033	.00051	.006	.00296	.00048	.179	.00052	.00049	.0069
%RSD	.18598	.42257	.0874	419.23	9.4953	.91278	1.6759	.33896	.53335
#1	.17825	.12206	7.458	.00280	.00473	19.780	.03037	.14391	1.3025
#2	.17778	.12133	7.467	-.00139	.00541	19.526	.03110	.14322	1.2927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00476**	**.13496**	**.52050**
Stddev	.00531	.00071	.00454
%RSD	111.56	.52450	.87236
#1	-.00851	.13546	.52371
#2	-.00100	.13446	.51729
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2201.9**	**2116.5**	**41157.**	**4411.0**
Stddev	4.2	.3	154.	27.9
%RSD	.18870	.01514	.37525	.63281
#1	2199.0	2116.7	41048.	4391.3
#2	2204.8	2116.2	41266.	4430.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64454-B-32-B Acquired: 8/1/2014 13:00:51 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**93.576**	**.08748**	**.02203**	**.76031**	**.00478**	**30.636**	**.01037**	**.08992**
Stddev	.00011	.109	.00481	.00016	.00324	.00006	.194	.00003	.00020
%RSD	2.0117	.11597	5.4981	.73605	.42618	1.3487	.63322	.33447	.22310
#1	.00531	93.499	.09089	.02214	.76260	.00474	30.499	.01039	.08978
#2	.00547	93.653	.08408	.02191	.75802	.00483	30.773	.01034	.09006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.82926**	**.52351**	**178.40**	**7.1919**	**.16456**	**36.248**	**6.2356**	**.00215**	**.80978**
Stddev	.00129	.00184	1.51	.0555	.00137	.143	.0151	.00016	.00033
%RSD	.15502	.35055	.84407	.77194	.83315	.39440	.24191	7.4441	.04120
#1	.83017	.52481	177.34	7.2311	.16553	36.147	6.2249	.00204	.80954
#2	.82835	.52221	179.47	7.1526	.16359	36.349	6.2462	.00227	.81001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22258**	**.86651**	**8.374**	**.00221**	**.00013**	**21.839**	**.08283**	**.15544**	**1.1910**
Stddev	.00031	.00306	.002	.00064	.00387	.054	.00018	.00003	.0001
%RSD	.13833	.35311	.0184	28.974	2977.1	.24936	.21167	.01946	.00602
#1	.22280	.86435	8.375	.00176	.00287	21.800	.08270	.15546	1.1910
#2	.22236	.86868	8.373	.00267	-.00261	21.877	.08295	.15542	1.1909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00565**	**.15200**	**1.9785**
Stddev	.00307	.00048	.0063
%RSD	54.239	.31818	.31634
#1	-.00349	.15165	1.9741
#2	-.00782	.15234	1.9830
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2196.9**	**2099.3**	**40823.**	**4405.8**
Stddev	.5	3.3	174.	30.9
%RSD	.02145	.15775	.42569	.70153
#1	2197.2	2097.0	40945.	4427.7
#2	2196.6	2101.7	40700.	4384.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64454-A-32-F MS Acquired: 8/1/2014 13:03:37 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10148**	**136.05**	**.44307**	**.38705**	**1.1799**	**.36494**	**46.815**	**.37166**	**.49787**
Stddev	.00106	.14	.00203	.00047	.0001	.00014	.072	.00186	.00161
%RSD	1.0473	.10149	.45797	.12152	.00626	.03735	.15428	.50070	.32367
#1	.10223	136.14	.44164	.38672	1.1798	.36485	46.866	.37034	.49673
#2	.10072	135.95	.44451	.38739	1.1799	.36504	46.764	.37297	.49901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1508**	**.87335**	**191.35**	**30.145**	**.55224**	**55.848**	**6.7107**	**.34838**	**18.745**
Stddev	.0043	.00499	.21	.060	.00052	.053	.0168	.00124	.017
%RSD	.36891	.57141	.10764	.20006	.09346	.09476	.25023	.35568	.09164
#1	1.1538	.86982	191.20	30.102	.55187	55.811	6.6988	.34750	18.757
#2	1.1478	.87687	191.49	30.187	.55260	55.886	6.7226	.34926	18.732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.62702**	**1.1566**	F **25.40**	**.23193**	**.35830**	**36.716**	**.45670**	**.51461**	**1.8103**
Stddev	.00103	.0002	.03	.00212	.00767	.137	.00142	.00049	.0006
%RSD	.16456	.01491	.1323	.91438	2.1398	.37359	.31078	.09560	.03414
#1	.62775	1.1565	25.38	.23043	.36372	36.813	.45569	.51426	1.8099
#2	.62629	1.1567	25.43	.23343	.35287	36.619	.45770	.51495	1.8108
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.38839**	**.56134**	**2.1005**
Stddev	.00675	.00008	.0126
%RSD	1.7375	.01449	.59737
#1	.39316	.56140	2.1094
#2	.38362	.56129	2.0917
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2113.7**	**2076.2**	**40012.**	**4358.7**
Stddev	6.3	2.1	70.	10.2
%RSD	.29778	.10062	.17432	.23374
#1	2118.2	2077.7	40061.	4351.5
#2	2109.3	2074.7	39963.	4365.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64454-D-32-B MSD Acquired: 8/1/2014 13:06:25 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10041**	**121.99**	**.45306**	**.39366**	**1.0720**	**.37547**	**42.549**	**.38033**	**.49273**
Stddev	.00135	.06	.00220	.00075	.0015	.00217	.099	.00122	.00081
%RSD	1.3478	.04837	.48461	.18945	.13724	.57901	.23346	.32149	.16425
#1	.10137	121.95	.45462	.39313	1.0731	.37701	42.620	.38119	.49216
#2	.09945	122.03	.45151	.39419	1.0710	.37393	42.479	.37946	.49331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0726**	**.80104**	**169.19**	**29.138**	**.53828**	**50.943**	**5.9538**	**.36063**	**19.176**
Stddev	.0049	.00149	.03	.053	.00042	.103	.0107	.00062	.026
%RSD	.45450	.18656	.01657	.18139	.07842	.20166	.17926	.17316	.13339
#1	1.0692	.79998	169.21	29.175	.53858	51.015	5.9613	.36019	19.158
#2	1.0761	.80209	169.17	29.101	.53798	50.870	5.9462	.36107	19.194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59983**	**1.0627**	F **25.00**	**.25961**	**.37595**	**35.278**	**.45391**	**.50398**	**1.6515**
Stddev	.00077	.0058	.04	.00321	.00783	.235	.00087	.00113	.0022
%RSD	.12754	.54934	.1674	1.2382	2.0817	.66516	.19227	.22436	.13088
#1	.60037	1.0668	24.97	.25734	.38148	35.444	.45329	.50478	1.6499
#2	.59929	1.0586	25.03	.26188	.37042	35.112	.45452	.50319	1.6530
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.39828**	**.54583**	**1.9068**
Stddev	.00404	.00176	.0081
%RSD	1.0135	.32316	.42576
#1	.39543	.54708	1.9125
#2	.40113	.54459	1.9010
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2130.8**	**2049.7**	**39434.**	**4280.6**
Stddev	1.7	.2	208.	7.5
%RSD	.08034	.00855	.52678	.17555
#1	2132.0	2049.8	39287.	4275.3
#2	2129.6	2049.5	39581.	4285.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 13:09:06 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.01823**	**.00146**	**.00266**	**.00012**	**.00005**	**.01241**	**.00097**	**-.00071**
Stddev	.00044	.00334	.00040	.00010	.00000	.00006	.00392	.00004	.00021
%RSD	169.59	18.314	27.532	3.8738	2.8392	126.53	31.608	4.1037	28.737
#1	.00057	-.01586	.00175	.00259	.00012	.00009	.00963	.00100	-.00086
#2	-.00005	-.02059	.00118	.00274	.00012	.00000	.01518	.00094	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00051**	**-.00380**	**.03839**	**-.00156**	**.00109**	**.00027**	**.00121**	**-.03908**
Stddev	.00038	.00017	.00250	.00702	.00191	.00261	.00003	.00015	.00458
%RSD	106.70	32.907	65.806	18.278	122.99	238.40	10.620	12.324	11.716
#1	.00009	.00039	-.00557	.03343	-.00291	.00294	.00025	.00132	-.03585
#2	.00063	.00063	-.00203	.04335	-.00020	-.00075	.00029	.00111	-.04232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00242**	**.00186**	**.0135**	**.00056**	**.00209**	**.57227**	**.00024**	**-.00003**	**-.00022**
Stddev	.00041	.00074	.0033	.00006	.00082	.00085	.00076	.00001	.00002
%RSD	17.109	39.752	24.22	10.052	39.285	.14926	314.10	42.228	11.489
#1	-.00272	.00238	.0158	.00052	.00267	.57288	.00078	-.00004	-.00020
#2	-.00213	.00133	.0112	.00060	.00151	.57167	-.00030	-.00002	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01010**	**.00014**	**-.00050**
Stddev	.00043	.00018	.00019
%RSD	4.2193	123.49	38.561
#1	-.01040	.00027	-.00036
#2	-.00980	.00002	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2389.6**	**1729.3**	**34884.**	**3725.4**
Stddev	14.8	13.9	204.	27.4
%RSD	.62021	.80163	.58586	.73628
#1	2379.1	1719.5	34740.	3706.1
#2	2400.1	1739.1	35029.	3744.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCSSRM 480-195490/2- Acquired: 8/1/2014 13:11:59 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39569**	**78.014**	**1.4469**	**1.1521**	**1.8942**	**.65955**	**71.754**	**1.0424**	F **1.3319**
Stddev	.00258	.018	.0013	.0050	.0047	.00060	.161	.0003	.0010
%RSD	.65209	.02281	.09056	.42954	.24768	.09056	.22436	.02880	.07594
#1	.39387	78.002	1.4460	1.1486	1.8975	.65997	71.868	1.0421	1.3327
#2	.39752	78.027	1.4478	1.1556	1.8909	.65913	71.640	1.0426	1.3312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									1.2500
Low Limit									.73900

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1698**	**.92276**	**138.60**	**26.066**	**.07399**	**33.271**	**4.6241**	**.49430**	**2.6626**
Stddev	.0001	.00155	.18	.008	.00001	.064	.0108	.00189	.0041
%RSD	.00797	.16810	.13018	.02916	.00791	.19156	.23326	.38145	.15407
#1	1.1697	.92166	138.48	26.061	.07399	33.316	4.6317	.49297	2.6655
#2	1.1699	.92385	138.73	26.071	.07398	33.226	4.6165	.49564	2.6597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.74554**	F **1.2410**	**1.402**	**1.0002**	**1.8847**	**16.379**	**1.3500**	**.61855**	**3.6024**
Stddev	.00053	.0001	.015	.0062	.0072	.105	.0029	.00095	.0014
%RSD	.07086	.00598	1.074	.61570	.37934	.64362	.21209	.15429	.03838
#1	.74591	1.2410	1.392	.99580	1.8797	16.453	1.3520	.61922	3.6033
#2	.74516	1.2411	1.413	1.0045	1.8898	16.304	1.3480	.61787	3.6014
Check ?	Chk Fail	Chk Fail	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit	.73200	1.2200							
Low Limit	.39300	.66600							

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**1.5378**	**.72174**	**2.4653**
Stddev	.0020	.00105	.0008
%RSD	.13146	.14501	.03055
#1	1.5392	.72248	2.4658
#2	1.5363	.72100	2.4648
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2211.1**	**2143.8**	**41992.**	**4457.1**
Stddev	13.8	19.7	187.	2.8
%RSD	.62220	.91935	.44609	.06328
#1	2220.8	2157.7	42125.	4459.1
#2	2201.4	2129.8	41860.	4455.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64418-B-2-B@5 Acquired: 8/1/2014 13:14:40 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**7.5518**	**.00994**	**.03949**	**.04870**	**.00075**	**262.81**	**.00024**	**.01112**
Stddev	.00011	.0586	.00182	.00041	.00010	.00005	1.17	.00002	.00016
%RSD	17.458	.77625	18.328	1.0382	.19509	6.7310	.44513	8.5185	1.4277
#1	-.00072	7.5932	.00865	.03978	.04864	.00071	263.64	.00025	.01124
#2	-.00056	7.5103	.01122	.03920	.04877	.00078	261.98	.00022	.01101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01266**	**.02763**	**20.984**	**3.7545**	**.01517**	**27.561**	**.87587**	**.00023**	**.35026**
Stddev	.00050	.00026	.045	.0248	.00063	.017	.00127	.00005	.00668
%RSD	3.9444	.95429	.21375	.65922	4.1427	.06333	.14525	20.777	1.9059
#1	.01231	.02782	21.016	3.7720	.01472	27.549	.87677	.00020	.35498
#2	.01302	.02745	20.953	3.7370	.01561	27.574	.87497	.00027	.34554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02130**	**.01676**	**.2028**	**.00101**	**.00898**	**7.5309**	**.00518**	**.24954**	**.10921**
Stddev	.00004	.00134	.0042	.00108	.00315	.0238	.00032	.00093	.00375
%RSD	.16605	8.0238	2.074	106.59	35.101	.31537	6.1035	.37153	3.4299
#1	.02127	.01771	.1998	.00025	.01121	7.5477	.00540	.25019	.11186
#2	.02132	.01581	.2058	.00177	.00675	7.5141	.00496	.24888	.10656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00118**	**.01501**	**.04864**
Stddev	.00263	.00005	.00006
%RSD	222.24	.33927	.11445
#1	-.00068	.01505	.04860
#2	.00305	.01498	.04868
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2157.4**	**1890.4**	**36794.**	**3975.9**
Stddev	1.3	5.8	9.	17.3
%RSD	.06246	.30488	.02479	.43453
#1	2158.4	1894.4	36788.	3963.7
#2	2156.5	1886.3	36801.	3988.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 13:17:28 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.01617**	**.00044**	**.00289**	**.00010**	**.00011**	**.01345**	**.00095**	**-.00054**
Stddev	.00010	.03831	.00390	.00006	.00001	.00008	.00265	.00011	.00005
%RSD	235.81	236.93	882.09	2.0185	5.6404	77.470	19.703	11.985	9.3706
#1	.00003	.01092	-.00232	.00285	.00010	.00017	.01158	.00087	-.00057
#2	-.00012	-.04326	.00320	.00293	.00010	.00005	.01533	.00103	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00031**	**-.00004**	**.02770**	**-.00078**	**-.00170**	**.00026**	**.00105**	**-.04050**
Stddev	.00035	.00003	.00373	.01701	.00034	.00160	.00003	.00033	.00683
%RSD	56.199	8.1873	8635.1	61.403	42.820	94.084	9.9797	31.694	16.874
#1	.00088	.00029	-.00268	.01567	-.00055	-.00057	.00028	.00128	-.03567
#2	.00038	.00033	.00260	.03973	-.00102	-.00283	.00024	.00081	-.04533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00215**	**.00090**	**.0048**	**.00248**	**.00638**	**.18244**	**-.00005**	**.00007**	**-.00037**
Stddev	.00010	.00056	.0057	.00169	.00439	.00057	.00047	.00010	.00012
%RSD	4.8680	61.632	117.8	67.867	68.931	.31387	919.42	131.54	33.989
#1	-.00208	.00129	.0089	.00129	.00948	.18204	.00028	.00001	-.00028
#2	-.00222	.00051	.0008	.00368	.00327	.18285	-.00038	.00014	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01261**	**.00025**	**.00014**
Stddev	.00598	.00002	.00048
%RSD	47.405	9.6444	329.52
#1	-.01683	.00027	.00048
#2	-.00838	.00023	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2401.0**	**1730.3**	**35026.**	**3752.0**
Stddev	13.3	16.6	207.	24.7
%RSD	.55472	.96134	.59227	.65914
#1	2391.6	1718.5	34879.	3734.6
#2	2410.4	1742.1	35172.	3769.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 13:20:21 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50442**	**25.703**	**.49352**	**.48553**	**.49948**	**.50503**	**25.909**	**.49998**	**.50071**	**.50641**	**.49347**	**25.413**	**24.699**	**.48441**
Stddev	.00280	.175	.00232	.00170	.00119	.00132	.031	.00009	.00038	.00427	.00190	.044	.020	.00231
%RSD	.55484	.68193	.46933	.35065	.23871	.26158	.12103	.01856	.07546	.84371	.38556	.17473	.08253	.47689
#1	.50640	25.827	.49516	.48432	.50033	.50597	25.931	.49992	.50097	.50943	.49212	25.445	24.713	.48604
#2	.50244	25.580	.49188	.48673	.49864	.50410	25.887	.50005	.50044	.50339	.49481	25.382	24.684	.48277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.568**	**.51786**	**.49979**	**24.419**	**.50444**	**.50430**	**24.70**	**.49573**	**.50218**	**25.453**	**.51366**	**.50155**	**.50637**	**.50161**
Stddev	.069	.00143	.00071	.021	.00248	.00117	.10	.00331	.00071	.014	.00010	.00108	.00278	.00416
%RSD	.27029	.27573	.14211	.08703	.49185	.23240	.4130	.66720	.14206	.05519	.01922	.21442	.54851	.82957
#1	25.616	.51887	.49929	24.434	.50619	.50347	24.63	.49339	.50168	25.443	.51373	.50231	.50833	.49867
#2	25.519	.51685	.50029	24.404	.50268	.50512	24.77	.49807	.50269	25.463	.51359	.50079	.50441	.50455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50686**	**.52376**
Stddev	.00076	.00248
%RSD	.14983	.47266
#1	.50740	.52551
#2	.50632	.52201
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2341.5**	**1987.4**	**38630.**	**4060.8**
Stddev	16.9	19.5	111.	28.8
%RSD	.71996	.98035	.28703	.70932
#1	2353.5	2001.2	38708.	4081.2
#2	2329.6	1973.6	38551.	4040.5

Sample Name: CCB Acquired: 8/1/2014 13:23:05 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00023**	**-.00202**	**.00054**	**.00004**	**.00007**	**.00532**	**.00010**	**.00000**	**.00009**	**.00025**	**.00828**
Stddev	.00049	.02512	.00050	.00007	.00001	.00007	.00456	.00014	.00000	.00030	.00064	.00406
%RSD	114.49	11085.	24.737	12.086	34.035	97.335	85.700	137.68	61.471	344.15	256.97	49.058
#1	-.00078	.01799	-.00166	.00050	.00005	.00002	.00854	.00019	.00001	-.00012	-.00020	.00541
#2	-.00008	-.01754	-.00237	.00059	.00003	.00011	.00210	.00000	.00000	.00030	.00070	.01115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01158**	**.00002**	**.00407**	**.00048**	**-.00015**	**-.05147**	**-.00021**	**.00102**	**.0003**	**-.00117**	**-.00350**	**.02253**
Stddev	.01486	.00089	.00399	.00004	.00011	.00276	.00024	.00099	.0019	.00135	.00096	.00169
%RSD	128.32	4294.2	98.057	8.0083	73.859	5.3632	114.32	96.578	742.3	115.70	27.429	7.4878
#1	.02209	-.00061	.00690	.00045	-.00022	-.05343	-.00004	.00172	-.0011	-.00021	-.00282	.02134
#2	.00107	.00065	.00125	.00051	-.00007	-.04952	-.00038	.00032	.0016	-.00213	-.00417	.02373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00014**	**.00003**	**.00109**	**.00044**	**.00059**
Stddev	.00007	.00001	.00046	.00260	.00010	.00020
%RSD	333.81	6.2608	1445.8	239.19	22.444	34.253
#1	-.00003	.00014	.00036	.00293	.00037	.00074
#2	.00007	.00013	-.00030	-.00075	.00050	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2548.8**	**1981.1**	**38968.**	**3978.8**
Stddev	2.0	3.1	138.	1.6
%RSD	.07679	.15727	.35310	.04102
#1	2550.2	1983.3	39065.	3977.7
#2	2547.4	1978.9	38871.	3980.0

Sample Name: CCVL-2222402 Acquired: 8/1/2014 13:25:57 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00567**	**.20876**	**.01532**	**.02018**	**.00234**	**.00204**	**.51172**	**.00204**	**.00392**	**.00418**	**.00921**	**.05739**
Stddev	.00004	.04994	.00098	.00039	.00002	.00002	.00366	.00008	.00004	.00002	.00049	.00071
%RSD	.64585	23.923	6.4148	1.9564	.97800	1.0255	.71438	3.8078	1.0724	.42063	5.3639	1.2422
#1	.00570	.24407	.01463	.01990	.00235	.00206	.50913	.00210	.00395	.00416	.00956	.05789
#2	.00565	.17345	.01602	.02046	.00232	.00203	.51430	.00199	.00389	.00419	.00886	.05689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47485**	**.02775**	**.21145**	**.00387**	**.01017**	**.91561**	**.00896**	**.00953**	**.2103**	**.01985**	**.02229**	**.53427**
Stddev	.01913	.00065	.00216	.00016	.00004	.00286	.00015	.00116	.0011	.00060	.00140	.00832
%RSD	4.0281	2.3309	1.0232	4.1180	.34443	.31199	1.6538	12.211	.5068	3.0238	6.2667	1.5571
#1	.46133	.02821	.21298	.00398	.01015	.91763	.00885	.01036	.2095	.01943	.02131	.54016
#2	.48838	.02729	.20992	.00375	.01020	.91359	.00906	.00871	.2110	.02028	.02328	.52839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00913**	**.00504**	**.00514**	**.02257**	**.00493**	**.01111**
Stddev	.00024	.00003	.00029	.00043	.00017	.00071
%RSD	2.6205	.66698	5.7351	1.9050	3.4606	6.4186
#1	.00930	.00507	.00535	.02227	.00481	.01162
#2	.00896	.00502	.00493	.02288	.00505	.01061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2522.4**	**1976.9**	**38635.**	**3996.0**
Stddev	1.0	.6	317.	37.8
%RSD	.04092	.03229	.81993	.94612
#1	2521.7	1976.4	38411.	3969.3
#2	2523.1	1977.3	38859.	4022.7

Sample Name: MB 480-195602/1-A Acquired: 8/1/2014 13:28:48 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.01936**	**-.00098**	**.00274**	**.00027**	**.00006**	**.04219**	**.00002**	**.00017**
Stddev	.00005	.02280	.00027	.00013	.00000	.00005	.00500	.00001	.00007
%RSD	19.753	117.78	27.806	4.6215	1.3127	94.536	11.852	50.670	42.525
#1	-.00029	.00324	-.00078	.00265	.00026	.00009	.03866	.00001	.00022
#2	-.00022	.03549	-.00117	.00283	.00027	.00002	.04573	.00003	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00006**	**.00842**	**-.01699**	**-.00108**	**-.00098**	**.00047**	**-.00015**	**-.05064**
Stddev	.00020	.00106	.00095	.03281	.00042	.00411	.00002	.00009	.00444
%RSD	251.02	1752.2	11.283	193.09	38.564	418.05	3.6146	58.413	8.7716
#1	.00022	.00069	.00909	.00621	-.00138	.00192	.00046	-.00021	-.04750
#2	-.00006	-.00081	.00775	-.04020	-.00079	-.00389	.00048	-.00009	-.05378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00130**	F **.0049**	**.00042**	**.00165**	**-.02316**	**.00037**	**.00024**	**-.00005**
Stddev	.00054	.00182	.0027	.00072	.00367	.02734	.00005	.00004	.00007
%RSD	166.55	139.09	54.36	171.28	221.88	118.04	12.781	16.429	141.76
#1	.00006	-.00002	.0030	-.00009	-.00094	-.00383	.00034	.00021	-.00010
#2	-.00071	-.00259	.0068	.00093	.00425	-.04249	.00041	.00026	.00000
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00394**	**.00015**	**.00150**
Stddev	.00123	.00004	.00026
%RSD	31.293	23.305	17.233
#1	.00307	.00013	.00131
#2	.00481	.00018	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2556.1**	**1985.0**	**39148.**	**4030.6**
Stddev	6.0	6.6	126.	21.1
%RSD	.23490	.33354	.32177	.52235
#1	2560.3	1989.7	39059.	4045.5
#2	2551.8	1980.3	39237.	4015.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195602/2-A Acquired: 8/1/2014 13:31:39 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05003**	**10.196**	**.20071**	**.20026**	**.20537**	**.19822**	**9.7635**	**.19884**	**.19644**
Stddev	.00050	.015	.00111	.00055	.00096	.00077	.0624	.00020	.00010
%RSD	1.0022	.14503	.55172	.27290	.46925	.38705	.63931	.10104	.05057
#1	.04968	10.206	.20149	.20065	.20469	.19876	9.7194	.19898	.19637
#2	.05038	10.185	.19992	.19988	.20605	.19768	9.8077	.19870	.19651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19339**	**.19810**	**9.9037**	**9.5542**	**.19137**	**10.377**	**.20317**	**.19814**	**9.5179**
Stddev	.00086	.00059	.0006	.0289	.00074	.057	.00004	.00036	.0443
%RSD	.44683	.30017	.00579	.30281	.38409	.54987	.02182	.18042	.46577
#1	.19278	.19852	9.9041	9.5746	.19189	10.337	.20314	.19839	9.5492
#2	.19400	.19768	9.9033	9.5337	.19085	10.418	.20320	.19789	9.4865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19193**	**.19775**	**9.755**	**.19547**	**.19504**	**9.7673**	**.19219**	**.19461**	**.19243**
Stddev	.00005	.00035	.056	.00098	.00062	.0205	.00058	.00004	.00056
%RSD	.02668	.17624	.5728	.50095	.31770	.21004	.29932	.01839	.29009
#1	.19190	.19751	9.794	.19478	.19548	9.7818	.19260	.19459	.19203
#2	.19197	.19800	9.715	.19616	.19461	9.7528	.19178	.19464	.19282
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20708**	**.20355**	**.20030**
Stddev	.00432	.00132	.00205
%RSD	2.0873	.64609	1.0217
#1	.20402	.20262	.19885
#2	.21014	.20448	.20174
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2386.4**	**1943.3**	**37993.**	**4049.1**
Stddev	3.2	2.8	145.	17.8
%RSD	.13227	.14480	.38211	.43932
#1	2384.2	1941.3	38095.	4061.7
#2	2388.7	1945.3	37890.	4036.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-1-A Acquired: 8/1/2014 13:34:22 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.01113**	**.00052**	**.01113**	**.03619**	**.00011**	**68.273**	**.00014**	**.00000**
Stddev	.00092	.00494	.00129	.00023	.00005	.00002	.206	.00004	.00009
%RSD	145.68	44.368	246.73	2.0633	.14903	16.723	.30202	30.114	4674.0
#1	.00002	-.00764	.00144	.01129	.03615	.00009	68.419	.00017	.00007
#2	-.00128	-.01462	-.00039	.01096	.03622	.00012	68.127	.00011	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00010**	**.00889**	**.55193**	**.00261**	**21.398**	**.00057**	**.00034**	**3.1830**
Stddev	.00012	.00049	.00272	.00623	.00014	.084	.00003	.00013	.0073
%RSD	13.169	488.35	30.559	1.1290	5.3545	.39061	4.6287	37.963	.22781
#1	.00100	.00045	.01081	.54753	.00271	21.339	.00055	.00025	3.1779
#2	.00083	-.00025	.00697	.55634	.00251	21.457	.00059	.00043	3.1881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00138**	**5.574**	**.00104**	**.00056**	**5.4078**	**-.00020**	**.06981**	**.00016**
Stddev	.00049	.00201	.001	.00159	.00135	.0097	.00029	.00020	.00006
%RSD	189.11	145.40	.0140	153.59	239.74	.17916	139.85	.29350	38.975
#1	.00009	.00281	5.574	.00216	.00151	5.4147	-.00000	.06996	.00021
#2	-.00061	-.00004	5.573	-.00009	-.00039	5.4010	-.00041	.06967	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00254**	**.00059**	**.00178**
Stddev	.00233	.00002	.00034
%RSD	91.937	2.5409	19.371
#1	.00419	.00060	.00202
#2	.00089	.00058	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2331.8**	**1893.4**	**37401.**	**4015.2**
Stddev	10.5	6.2	67.	8.5
%RSD	.45115	.32790	.18041	.21100
#1	2339.2	1897.8	37448.	4021.2
#2	2324.3	1889.0	37353.	4009.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-1-A SD@5 Acquired: 8/1/2014 13:37:11 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.04330**	**-.00066**	**.00510**	**.00772**	**.00019**	**13.738**	**.00014**	**.00001**
Stddev	.00052	.00207	.00047	.00006	.00004	.00013	.050	.00012	.00006
%RSD	256.53	4.7758	70.642	1.1722	.47941	68.622	.36748	91.921	464.59
#1	.00016	.04476	-.00099	.00505	.00770	.00010	13.702	.00022	-.00003
#2	-.00057	.04184	-.00033	.00514	.00775	.00028	13.773	.00005	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00100**	**.00724**	**.10235**	**.00041**	**4.1766**	**.00039**	**.00031**	**.57522**
Stddev	.00053	.00021	.00018	.03008	.00045	.0193	.00005	.00006	.00672
%RSD	75.142	20.945	2.5524	29.389	110.08	.46295	13.232	19.067	1.1691
#1	.00107	.00085	.00737	.08108	.00009	4.1630	.00042	.00035	.57047
#2	.00033	.00114	.00711	.12361	.00072	4.1903	.00035	.00027	.57998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00033**	**1.066**	**-.00067**	**.00343**	**1.0783**	**.00017**	**.01432**	**.00003**
Stddev	.00053	.00028	.003	.00014	.00218	.0157	.00020	.00022	.00006
%RSD	111.05	85.514	.2317	21.130	63.611	1.4511	121.01	1.5509	223.58
#1	-.00085	.00013	1.067	-.00057	.00189	1.0672	.00031	.01417	.00007
#2	-.00010	.00053	1.064	-.00077	.00498	1.0894	.00002	.01448	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00697**	**.00028**	**.00088**
Stddev	.00175	.00002	.00051
%RSD	25.131	8.1462	57.742
#1	.00573	.00030	.00052
#2	.00821	.00026	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2463.2**	**1940.4**	**37901.**	**3988.6**
Stddev	2.5	5.5	229.	10.5
%RSD	.09967	.28268	.60536	.26238
#1	2464.9	1944.3	38063.	3996.0
#2	2461.4	1936.6	37738.	3981.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-1-A PDS Acquired: 8/1/2014 13:40:01 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05046**	**10.398**	**.21577**	**.21603**	**.24091**	**.21311**	**79.486**	**.21237**	**.21129**
Stddev	.00075	.010	.00191	.00130	.00094	.00110	.355	.00042	.00031
%RSD	1.4886	.10030	.88473	.59997	.39053	.51809	.44689	.19709	.14647
#1	.05100	10.390	.21712	.21512	.24158	.21233	79.235	.21207	.21107
#2	.04993	10.405	.21442	.21695	.24025	.21389	79.738	.21266	.21151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20709**	**.20967**	**10.421**	**10.410**	**.20021**	**32.321**	**.21163**	**.20875**	**13.107**
Stddev	.00058	.00039	.025	.043	.00135	.125	.00045	.00034	.067
%RSD	.27899	.18837	.23707	.41473	.67649	.38779	.21361	.16197	.50899
#1	.20750	.20939	10.403	10.380	.19925	32.410	.21195	.20851	13.060
#2	.20668	.20995	10.438	10.441	.20117	32.233	.21131	.20899	13.154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20624**	**.21384**	**5.712**	**.20822**	**.21367**	**15.883**	**.20582**	**.26856**	**.20480**
Stddev	.00087	.00051	.007	.00022	.00257	.053	.00022	.00078	.00097
%RSD	.42338	.23893	.1198	.10629	1.2026	.33447	.10700	.29167	.47250
#1	.20686	.21420	5.707	.20838	.21549	15.845	.20598	.26801	.20549
#2	.20562	.21348	5.717	.20806	.21185	15.921	.20567	.26911	.20412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.22498**	**.21816**	**.20712**
Stddev	.00079	.00129	.00101
%RSD	.35079	.58923	.48627
#1	.22442	.21907	.20784
#2	.22554	.21726	.20641
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2250.9**	**1902.9**	**37306.**	**4013.0**
Stddev	7.5	4.9	191.	23.6
%RSD	.33129	.25596	.51130	.58813
#1	2256.2	1906.3	37171.	4029.7
#2	2245.6	1899.4	37441.	3996.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-1-B MS Acquired: 8/1/2014 13:42:43 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04639**	**9.7051**	**.19238**	**.19613**	**.22210**	**.18601**	**76.044**	**.18684**	**.18387**
Stddev	.00057	.0203	.00304	.00004	.00093	.00002	.509	.00044	.00020
%RSD	1.2188	.20860	1.5793	.01891	.42084	.00831	.66958	.23697	.10833
#1	.04679	9.6907	.19453	.19616	.22276	.18602	76.404	.18715	.18401
#2	.04599	9.7194	.19024	.19610	.22144	.18600	75.684	.18652	.18373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17962**	**.18733**	**9.1512**	**9.6739**	**.18594**	**30.345**	**.18409**	**.18438**	**12.388**
Stddev	.00053	.00011	.0442	.0666	.00140	.119	.00095	.00093	.021
%RSD	.29466	.06113	.48241	.68875	.75304	.39240	.51340	.50669	.17016
#1	.17999	.18724	9.1825	9.7210	.18495	30.429	.18475	.18504	12.403
#2	.17924	.18741	9.1200	9.6268	.18693	30.261	.18342	.18372	12.373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18003**	**.18796**	F **14.90**	**.18532**	**.18527**	**14.390**	**.18305**	**.25252**	**.17979**
Stddev	.00001	.00193	.01	.00056	.00379	.106	.00083	.00065	.00015
%RSD	.00370	1.0292	.0685	.30327	2.0449	.73322	.45363	.25827	.08194
#1	.18003	.18933	14.90	.18493	.18259	14.464	.18246	.25298	.17969
#2	.18002	.18660	14.89	.18572	.18795	14.315	.18364	.25206	.17989
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19611**	**.18614**	**.17998**
Stddev	.00670	.00184	.00177
%RSD	3.4147	.98799	.98207
#1	.20085	.18744	.18123
#2	.19138	.18484	.17873
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2254.3**	**1897.9**	**37369.**	**3982.1**
Stddev	2.3	3.4	138.	19.8
%RSD	.10353	.18001	.37007	.49636
#1	2255.9	1900.3	37271.	3968.2
#2	2252.6	1895.4	37466.	3996.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-1-C MSD Acquired: 8/1/2014 13:45:26 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04583**	**9.4343**	**.18489**	**.19217**	**.21916**	**.18342**	**76.081**	**.18175**	**.17889**
Stddev	.00029	.0361	.00022	.00011	.00030	.00155	.142	.00023	.00025
%RSD	.62213	.38247	.12025	.05909	.13845	.84327	.18661	.12575	.13961
#1	.04603	9.4598	.18473	.19209	.21938	.18451	76.181	.18159	.17872
#2	.04563	9.4088	.18504	.19225	.21895	.18232	75.980	.18191	.17907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17400**	**.18614**	**9.0045**	**9.4279**	**.18207**	**30.281**	**.18148**	**.17917**	**12.134**
Stddev	.00031	.00038	.0441	.0294	.00125	.039	.00067	.00042	.024
%RSD	.17756	.20565	.48975	.31213	.68529	.13039	.36681	.23496	.19523
#1	.17378	.18587	9.0357	9.4487	.18295	30.309	.18195	.17888	12.151
#2	.17422	.18641	8.9733	9.4071	.18118	30.253	.18101	.17947	12.117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17743**	**.18376**	F **14.72**	**.17918**	**.18403**	**14.357**	**.17761**	**.24816**	**.17629**
Stddev	.00009	.00124	.04	.00360	.00113	.041	.00049	.00159	.00042
%RSD	.05070	.67569	.2829	2.0081	.61182	.28732	.27715	.64147	.23658
#1	.17736	.18464	14.75	.17663	.18482	14.386	.17726	.24928	.17658
#2	.17749	.18288	14.69	.18172	.18323	14.328	.17795	.24703	.17599
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.18659**	**.18350**	**.17809**
Stddev	.00257	.00073	.00169
%RSD	1.3763	.39921	.94670
#1	.18841	.18401	.17928
#2	.18478	.18298	.17690
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2265.1**	**1904.3**	**37369.**	**3983.2**
Stddev	7.8	4.7	22.	5.1
%RSD	.34533	.24931	.05942	.12797
#1	2270.6	1907.7	37385.	3986.8
#2	2259.6	1901.0	37354.	3979.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-2-A Acquired: 8/1/2014 13:48:08 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.01088**	**-.00016**	**.01392**	**.02152**	**.00007**	**82.166**	**.00023**	**.00007**
Stddev	.00029	.00968	.00476	.00029	.00004	.00008	.422	.00006	.00006
%RSD	27.024	89.000	2973.2	2.0721	.20522	114.64	.51313	24.993	88.235
#1	-.00129	.01772	.00321	.01372	.02149	.00001	82.464	.00019	.00003
#2	-.00088	.00403	-.00353	.01413	.02156	.00012	81.868	.00027	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.00096**	**.00629**	**.57716**	**.00180**	**18.066**	**.00043**	**.00019**	**1.5052**
Stddev	.00017	.00063	.00035	.05903	.00090	.027	.00006	.00001	.0013
%RSD	16.249	66.098	5.5770	10.227	50.109	.15156	14.784	6.0174	.08674
#1	.00092	.00051	.00604	.53543	.00116	18.047	.00048	.00018	1.5062
#2	.00115	.00140	.00653	.61890	.00244	18.086	.00039	.00020	1.5043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00115**	**4.189**	**-.00025**	**.00078**	**3.6150**	**.00003**	**.06662**	**.00046**
Stddev	.00004	.00053	.005	.00179	.00318	.0188	.00005	.00004	.00021
%RSD	35.378	46.128	.1136	710.70	409.59	.52049	168.60	.05717	44.536
#1	.00009	.00152	4.186	-.00152	.00303	3.6283	.00006	.06659	.00032
#2	.00014	.00077	4.192	.00101	-.00147	3.6017	-.00001	.06665	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00284**	**.00023**	**.00140**
Stddev	.00042	.00016	.00067
%RSD	14.732	69.558	48.044
#1	.00313	.00012	.00188
#2	.00254	.00035	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2325.0**	**1892.0**	**37114.**	**3983.4**
Stddev	.0	.4	82.	20.2
%RSD	.00073	.02144	.22127	.50690
#1	2325.0	1892.3	37172.	3969.2
#2	2324.9	1891.7	37056.	3997.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-3-A Acquired: 8/1/2014 13:50:58 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00169**	**-.00195**	**.01330**	**.03201**	**-.00004**	**89.977**	**.00023**	**-.00010**
Stddev	.00054	.00131	.00101	.00023	.00007	.00001	.297	.00010	.00011
%RSD	77.382	77.723	51.784	1.7128	.20764	16.803	.33027	41.058	116.76
#1	-.00032	.00076	-.00124	.01346	.03205	-.00003	90.187	.00017	-.00002
#2	-.00109	.00261	-.00267	.01314	.03196	-.00004	89.766	.00030	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00023**	**.00439**	**.92096**	**.00226**	**33.133**	**.00035**	**.00020**	**3.3713**
Stddev	.00012	.00054	.00501	.01018	.00122	.025	.00004	.00019	.0045
%RSD	8.4380	241.35	114.18	1.1059	53.925	.07565	12.220	95.268	.13453
#1	.00135	.00061	.00085	.91376	.00313	33.150	.00032	.00033	3.3745
#2	.00153	-.00016	.00793	.92817	.00140	33.115	.00038	.00006	3.3681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00085**	**2.925**	**-.00088**	**.00384**	**4.9508**	**-.00018**	**.08177**	**.00005**
Stddev	.00016	.00147	.006	.00032	.00466	.0349	.00021	.00037	.00021
%RSD	100.07	173.25	.1947	36.273	121.11	.70420	117.13	.45141	444.22
#1	.00028	.00189	2.921	-.00111	.00714	4.9755	-.00003	.08203	.00019
#2	.00005	-.00019	2.929	-.00066	.00055	4.9262	-.00033	.08151	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00169**	**.00069**	**.00299**
Stddev	.00197	.00008	.00013
%RSD	116.90	11.629	4.2218
#1	.00029	.00063	.00290
#2	.00308	.00074	.00308
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2289.1**	**1877.0**	**37087.**	**3998.6**
Stddev	2.0	.1	64.	11.3
%RSD	.08780	.00435	.17149	.28314
#1	2290.5	1877.0	37042.	3990.6
#2	2287.6	1876.9	37132.	4006.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 13:53:48 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50306**	**25.321**	**.49881**	**.49032**	**.50379**	**.49726**	**25.197**	**.50269**	**.50182**	**.49360**	**.48991**	**24.820**	**24.514**	**.48951**
Stddev	.00048	.038	.00418	.00227	.00130	.00255	.081	.00130	.00007	.00292	.00075	.009	.297	.00387
%RSD	.09575	.15041	.83770	.46278	.25776	.51277	.31963	.25761	.01357	.59083	.15325	.03595	1.2118	.79020
#1	.50272	25.348	.49585	.49192	.50471	.49906	25.140	.50361	.50177	.49154	.48938	24.814	24.724	.49225
#2	.50340	25.294	.50176	.48871	.50287	.49546	25.254	.50178	.50186	.49566	.49044	24.826	24.304	.48678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.406**	**.50919**	**.50482**	**24.427**	**.49877**	**.50557**	**24.78**	**.49821**	**.49740**	**25.196**	**.51112**	**.50191**	**.50241**	**.50566**
Stddev	.043	.00005	.00047	.139	.00002	.00407	.06	.00175	.00671	.095	.00131	.00440	.00031	.00171
%RSD	.16959	.01011	.09324	.56879	.00310	.80469	.2564	.35221	1.3481	.37648	.25711	.87599	.06121	.33749
#1	25.376	.50923	.50515	24.526	.49878	.50269	24.83	.49945	.49266	25.129	.51205	.50502	.50219	.50446
#2	25.437	.50915	.50449	24.329	.49876	.50844	24.74	.49696	.50214	25.263	.51019	.49880	.50263	.50687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50402**	**.50491**
Stddev	.00029	.00093
%RSD	.05655	.18516
#1	.50422	.50557
#2	.50382	.50425
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2256.3**	**1906.0**	**36888.**	**3936.0**
Stddev	3.7	5.4	50.	6.0
%RSD	.16359	.28479	.13563	.15192
#1	2253.7	1902.2	36853.	3940.2
#2	2258.9	1909.9	36924.	3931.8

Sample Name: CCB Acquired: 8/1/2014 13:56:32 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00623**	**-.00292**	**.00015**	**.00001**	**.00003**	**.00017**	**.00009**	**-.00002**	**-.00010**	**.00003**	**-.00025**
Stddev	.00000	.01385	.00047	.00011	.00003	.00004	.00066	.00006	.00011	.00023	.00028	.00713
%RSD	1.4884	222.22	16.258	76.171	456.24	141.63	399.76	65.974	474.82	226.28	997.77	2884.6
#1	-.00030	-.01602	-.00325	.00023	-.00001	.00006	.00064	.00013	.00005	-.00027	-.00017	.00480
#2	-.00030	.00356	-.00258	.00007	.00002	-.00000	-.00030	.00005	-.00010	.00006	.00022	-.00529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01106**	**-.00012**	**.00235**	**.00020**	**.00032**	**-.03892**	**-.00078**	**.00019**	**.0009**	**-.00046**	**.00256**	**.00492**
Stddev	.00572	.00070	.00571	.00000	.00045	.00212	.00043	.00005	.0006	.00101	.00360	.01124
%RSD	51.769	582.34	242.62	.64403	139.42	5.4416	55.273	26.173	64.97	219.99	140.69	228.19
#1	-.00701	.00037	.00639	.00020	.00000	-.03742	-.00048	.00015	.0013	.00026	.00001	.01287
#2	-.01510	-.00061	-.00168	.00020	.00064	-.04042	-.00109	.00022	.0005	-.00117	.00511	-.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00002**	**-.00030**	**.00210**	**.00016**	**.00052**
Stddev	.00028	.00012	.00008	.00112	.00031	.00077
%RSD	80.616	810.72	24.896	53.257	193.52	146.67
#1	-.00054	-.00007	-.00036	.00131	-.00006	.00107
#2	-.00015	.00010	-.00025	.00288	.00038	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2523.9**	**1958.8**	**38411.**	**3967.5**
Stddev	5.1	1.6	152.	10.6
%RSD	.20266	.08057	.39648	.26749
#1	2520.3	1959.9	38519.	3960.0
#2	2527.6	1957.7	38304.	3975.0

Sample Name: CCVL-2222402 Acquired: 8/1/2014 13:59:24 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.20114**	**.01321**	**.02011**	**.00231**	**.00222**	**.51462**	**.00215**	**.00397**	**.00425**	**.00938**	**.05265**
Stddev	.00044	.00153	.00014	.00015	.00001	.00004	.00351	.00006	.00013	.00002	.00039	.00796
%RSD	8.4519	.76226	1.0775	.75418	.58248	1.6354	.68302	2.6904	3.2951	.56199	4.1077	15.127
#1	.00492	.20006	.01331	.02022	.00232	.00219	.51711	.00211	.00388	.00423	.00910	.04701
#2	.00555	.20222	.01311	.02001	.00230	.00224	.51214	.00219	.00406	.00427	.00965	.05828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51334**	**.02752**	**.21170**	**.00357**	**.01045**	**.91948**	**.00946**	**.00897**	**.2137**	**.01981**	**.02245**	**.53104**
Stddev	.00262	.00076	.00112	.00002	.00025	.00282	.00051	.00233	.0004	.00143	.00200	.01495
%RSD	.51086	2.7448	.53096	.66847	2.4181	.30683	5.3593	26.030	.1782	7.2446	8.8928	2.8148
#1	.51520	.02698	.21091	.00359	.01063	.91748	.00911	.00732	.2139	.01879	.02386	.54161
#2	.51149	.02805	.21250	.00356	.01027	.92147	.00982	.01062	.2134	.02082	.02104	.52047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01009**	**.00514**	**.00491**	**.02295**	**.00551**	**.01045**
Stddev	.00007	.00003	.00023	.00181	.00006	.00059
%RSD	.68331	.49485	4.7564	7.8731	1.0447	5.6221
#1	.01014	.00512	.00507	.02423	.00555	.01004
#2	.01004	.00516	.00474	.02167	.00547	.01087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2515.8**	**1965.8**	**38385.**	**3985.6**
Stddev	2.6	2.7	1.	2.4
%RSD	.10209	.13642	.00211	.05914
#1	2517.6	1963.9	38384.	3987.3
#2	2514.0	1967.6	38385.	3983.9

Sample Name: 480-64589-B-4-A Acquired: 8/1/2014 14:02:15 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.01563**	**.00197**	**.00960**	**.00522**	**.00007**	**29.495**	**.00006**	**.00003**
Stddev	.00000	.00364	.00018	.00015	.00002	.00010	.021	.00000	.00020
%RSD	.61839	23.321	9.0620	1.6004	.35462	142.64	.07022	3.0176	669.43
#1	-.00018	.01820	.00185	.00949	.00521	-.00000	29.510	.00005	-.00011
#2	-.00018	.01305	.00210	.00971	.00524	.00015	29.480	.00006	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00058**	**.00640**	**.42639**	**.00040**	**10.052**	**.00023**	**-.00001**	**1.4692**
Stddev	.00065	.00067	.00272	.00107	.00017	.005	.00003	.00003	.0095
%RSD	100.03	114.15	42.556	.25101	41.440	.04839	11.472	219.25	.64385
#1	.00111	.00011	.00448	.42564	.00052	10.049	.00021	.00001	1.4625
#2	.00019	.00105	.00833	.42715	.00028	10.056	.00025	-.00004	1.4759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00162**	**3.832**	**.00076**	**-.00049**	**3.3703**	**-.00004**	**.03200**	**-.00005**
Stddev	.00026	.00132	.023	.00158	.00133	.0578	.00020	.00008	.00014
%RSD	57.877	81.511	.5900	206.90	269.22	1.7158	460.14	.23553	303.64
#1	-.00026	.00069	3.816	.00188	.00045	3.3294	-.00018	.03195	.00005
#2	-.00063	.00256	3.848	-.00035	-.00144	3.4112	.00010	.03206	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00437**	**.00037**	**.00175**
Stddev	.00318	.00023	.00056
%RSD	72.717	61.774	31.956
#1	.00212	.00021	.00135
#2	.00662	.00054	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2409.9**	**1921.4**	**37971.**	**4060.3**
Stddev	3.1	7.4	108.	14.2
%RSD	.12897	.38461	.28328	.34935
#1	2412.1	1926.6	38047.	4070.3
#2	2407.7	1916.1	37895.	4050.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64589-B-5-A Acquired: 8/1/2014 14:05:04 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.01095**	**-.00155**	**.00557**	**.02336**	**.00003**	**46.046**	**.00028**	**.00023**
Stddev	.00083	.03900	.00011	.00000	.00002	.00000	.039	.00007	.00012
%RSD	162.98	356.30	7.3217	.01847	.07657	6.8295	.08576	24.024	54.791
#1	-.00110	.03852	-.00163	.00557	.02335	.00003	46.074	.00033	.00031
#2	.00008	-.01663	-.00147	.00557	.02337	.00003	46.018	.00023	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00155**	**.02192**	**.43876**	**-.00023**	**20.621**	**.06375**	**.00028**	**1.8300**
Stddev	.00032	.00017	.00578	.00260	.00103	.011	.00016	.00020	.0064
%RSD	30.506	11.152	26.348	.59308	455.16	.05277	.25550	69.217	.34963
#1	.00129	.00142	.01784	.44060	.00050	20.629	.06386	.00014	1.8255
#2	.00083	.00167	.02601	.43692	-.00095	20.613	.06363	.00042	1.8346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00119**	**1.745**	**-.00097**	**.00064**	**2.0814**	**-.00044**	**.06615**	**.00004**
Stddev	.00019	.00088	.006	.00128	.00360	.0116	.00040	.00045	.00002
%RSD	20.320	74.166	.3610	132.51	560.86	.55858	92.169	.68399	52.767
#1	.00108	.00057	1.740	-.00188	.00319	2.0897	-.00072	.06583	.00002
#2	.00081	.00181	1.749	-.00006	-.00190	2.0732	-.00015	.06647	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00353**	**.00034**	**.00260**
Stddev	.00121	.00010	.00012
%RSD	34.221	30.858	4.7032
#1	.00438	.00041	.00269
#2	.00267	.00027	.00251
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2362.0**	**1897.8**	**37350.**	**4027.2**
Stddev	1.3	4.5	45.	3.4
%RSD	.05470	.23529	.12021	.08498
#1	2361.1	1901.0	37319.	4024.8
#2	2362.9	1894.7	37382.	4029.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 14:07:53 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00109**	**-.00038**	**-.00033**	**.00015**	**-.00002**	**.00355**	**.00014**	**.00002**
Stddev	.00038	.02399	.00310	.00006	.00000	.00004	.00015	.00008	.00002
%RSD	5266.9	2191.8	817.65	17.425	2.1504	211.25	4.1134	56.751	88.399
#1	.00028	.01587	-.00257	-.00029	.00015	-.00005	.00344	.00008	.00001
#2	-.00026	-.01806	.00181	-.00037	.00015	.00001	.00365	.00020	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00033**	**-.00068**	**.01021**	**-.00117**	**-.00107**	**.00020**	**.00018**	**-.05020**
Stddev	.00022	.00026	.00368	.01920	.00008	.00286	.00003	.00008	.00517
%RSD	43.371	79.104	543.37	188.00	6.8723	266.09	14.681	45.466	10.300
#1	.00065	-.00052	.00193	.02379	-.00122	.00095	.00018	.00012	-.05385
#2	.00035	-.00015	-.00328	-.00336	-.00111	-.00310	.00023	.00024	-.04654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00081**	**-.0006**	**.00041**	**-.00056**	**-.00234**	**-.00030**	**.00000**	**-.00026**
Stddev	.00084	.00037	.0030	.00053	.00020	.00173	.00095	.00015	.00003
%RSD	141.57	46.237	480.8	128.10	36.336	73.729	319.08	12496.	12.029
#1	-.00119	-.00107	.0015	.00004	-.00071	-.00357	-.00097	.00011	-.00023
#2	.00000	-.00054	-.0028	.00078	-.00042	-.00112	.00038	-.00010	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00231**	**.00031**	**.00065**
Stddev	.00088	.00004	.00117
%RSD	38.080	13.266	181.34
#1	.00169	.00034	.00147
#2	.00293	.00028	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2530.3**	**1952.0**	**38347.**	**3967.9**
Stddev	1.3	2.5	185.	12.2
%RSD	.05190	.12931	.48202	.30666
#1	2529.4	1950.2	38217.	3976.6
#2	2531.3	1953.8	38478.	3959.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: MB 480-195599/1-A Acquired: 8/1/2014 14:10:45 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.02433**	**.00088**	**.00457**	**.00024**	**.00009**	**.05874**	**.00008**	**-.00002**
Stddev	.00053	.02578	.00079	.00002	.00000	.00019	.00240	.00004	.00000
%RSD	337.29	105.95	90.608	.33803	.67766	209.96	4.0788	54.665	25.184
#1	.00022	.04256	.00032	.00458	.00023	-.00004	.06043	.00005	-.00002
#2	-.00053	.00610	.00144	.00456	.00024	.00023	.05704	.00011	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00050**	**.00358**	**.02531**	**-.00012**	**.00110**	**.00024**	**.00016**	**-.04831**
Stddev	.00011	.00047	.00316	.00678	.00068	.00289	.00007	.00001	.00031
%RSD	392.79	94.938	88.224	26.802	568.47	263.06	28.123	8.5999	.64887
#1	-.00005	.00083	.00135	.03011	-.00060	.00314	.00019	.00015	-.04853
#2	.00011	.00016	.00581	.02052	.00036	-.00094	.00029	.00017	-.04809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00074**	F **.0064**	**.00099**	**-.00045**	**.00396**	**.00020**	**.00033**	**.00001**
Stddev	.00025	.00110	.0039	.00019	.00066	.00524	.00030	.00013	.00023
%RSD	32.786	148.57	61.49	19.394	147.50	132.33	150.96	39.853	2707.2
#1	-.00059	.00004	.0036	.00086	-.00092	.00766	.00041	.00024	-.00015
#2	-.00094	-.00152	.0092	.00113	.00002	.00025	-.00001	.00042	.00017
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00276**	**.00021**	**.00160**
Stddev	.00240	.00008	.00053
%RSD	87.028	39.499	32.971
#1	.00446	.00027	.00197
#2	.00106	.00015	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2543.2**	**1960.6**	**39369.**	**4066.7**
Stddev	6.3	5.8	104.	23.8
%RSD	.24826	.29441	.26541	.58480
#1	2547.7	1964.7	39295.	4049.9
#2	2538.8	1956.5	39443.	4083.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195599/2-A Acquired: 8/1/2014 14:13:36 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04894**	**10.018**	**.19773**	**.19876**	**.20054**	**.19554**	**9.4717**	**.19417**	**.19072**
Stddev	.00025	.076	.00266	.00031	.00013	.00113	.0107	.00070	.00055
%RSD	.51458	.75599	1.3467	.15562	.06559	.58013	.11249	.35902	.28951
#1	.04876	10.072	.19585	.19898	.20045	.19474	9.4642	.19368	.19033
#2	.04912	9.9644	.19961	.19854	.20064	.19635	9.4793	.19467	.19111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18841**	**.19903**	**9.7172**	**9.4325**	**.18991**	**10.095**	**.19797**	**.19392**	**9.3875**
Stddev	.00083	.00055	.0341	.0390	.00058	.012	.00000	.00079	.0447
%RSD	.44247	.27771	.35074	.41383	.30325	.11497	.00011	.40883	.47620
#1	.18900	.19942	9.6931	9.4049	.18951	10.086	.19797	.19336	9.3559
#2	.18782	.19864	9.7413	9.4601	.19032	10.103	.19797	.19448	9.4191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18992**	**.19232**	**9.737**	**.19507**	**.19369**	**9.5638**	**.18666**	**.19245**	**.18829**
Stddev	.00045	.00202	.005	.00058	.00926	.0101	.00033	.00119	.00143
%RSD	.23535	1.0508	.0521	.29700	4.7807	.10564	.17556	.62034	.75846
#1	.18960	.19089	9.734	.19466	.20024	9.5566	.18642	.19161	.18728
#2	.19023	.19375	9.741	.19547	.18715	9.5709	.18689	.19329	.18930
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19905**	**.19779**	**.19351**
Stddev	.00155	.00003	.00106
%RSD	.77987	.01581	.54766
#1	.19795	.19777	.19276
#2	.20015	.19781	.19426
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2388.5**	**1929.8**	**38274.**	**4057.6**
Stddev	2.1	2.2	111.	4.0
%RSD	.08810	.11266	.28963	.09900
#1	2390.0	1931.4	38353.	4060.4
#2	2387.0	1928.3	38196.	4054.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64571-A-1-A Acquired: 8/1/2014 14:16:19 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.02531**	**.00296**	**.04918**	**.10276**	**.00005**	**86.891**	**.00035**	**.00011**
Stddev	.00048	.00506	.00058	.00010	.00057	.00004	.261	.00010	.00009
%RSD	113.69	20.010	19.732	.20210	.55435	70.028	.29992	30.078	77.766
#1	-.00077	.02173	.00254	.04911	.10236	.00008	87.075	.00042	.00005
#2	-.00008	.02889	.00337	.04925	.10317	.00003	86.707	.00027	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.00169**	**.04753**	**2.7462**	**.00612**	**41.813**	**.04017**	**.00449**	**27.188**
Stddev	.00011	.00070	.00342	.0267	.00106	.086	.00006	.00004	.066
%RSD	10.026	41.773	7.1901	.97179	17.353	.20482	.14275	.80188	.24161
#1	.00104	.00218	.04994	2.7650	.00687	41.873	.04021	.00446	27.234
#2	.00119	.00119	.04511	2.7273	.00537	41.752	.04013	.00451	27.141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.00124**	F **33.10**	**-.00102**	**.00622**	**4.5866**	**-.00015**	**.21956**	**.00043**
Stddev	.00036	.00002	.04	.00046	.00224	.0172	.00012	.00072	.00004
%RSD	27.157	1.5331	.1331	45.147	35.987	.37467	83.453	.32920	9.0650
#1	.00159	.00123	33.13	-.00135	.00464	4.5988	-.00023	.22007	.00045
#2	.00107	.00125	33.07	-.00070	.00780	4.5745	-.00006	.21905	.00040
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00092**	**.00084**	**.00212**
Stddev	.00471	.00056	.00015
%RSD	510.63	67.373	6.9349
#1	.00425	.00123	.00202
#2	-.00241	.00044	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2237.0**	**1840.3**	**36251.**	**3968.3**
Stddev	2.5	.9	100.	2.1
%RSD	.11051	.04839	.27585	.05274
#1	2238.8	1839.7	36180.	3969.8
#2	2235.3	1840.9	36321.	3966.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64571-A-1-A SD@5 Acquired: 8/1/2014 14:19:05 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.03400**	**-.00030**	**.01073**	**.02074**	**-.00002**	**17.072**	**.00017**	**.00005**
Stddev	.00014	.02464	.00003	.00015	.00001	.00012	.012	.00003	.00013
%RSD	26.158	72.478	9.0445	1.3570	.05687	586.46	.07063	16.161	242.03
#1	-.00043	.05142	-.00032	.01083	.02075	.00007	17.064	.00015	.00014
#2	-.00063	.01657	-.00028	.01062	.02073	-.00011	17.081	.00019	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00193**	**.01628**	**.56851**	**.00089**	**8.0861**	**.00821**	**.00058**	**5.2913**
Stddev	.00032	.00059	.00078	.02074	.00062	.0272	.00003	.00004	.0342
%RSD	40.020	30.775	4.7723	3.6475	69.405	.33669	.39802	6.9195	.64597
#1	.00103	.00151	.01573	.58318	.00045	8.0668	.00823	.00055	5.2671
#2	.00057	.00235	.01683	.55385	.00133	8.1053	.00819	.00061	5.3154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.00036**	**6.199**	**.00043**	**.00097**	**.88922**	**-.00025**	**.04433**	**.00024**
Stddev	.00048	.00078	.020	.00066	.00326	.00158	.00072	.00014	.00008
%RSD	97.337	215.95	.3277	152.76	336.58	.17713	283.73	.32048	32.369
#1	-.00015	.00092	6.184	.00090	.00327	.88810	-.00077	.04443	.00018
#2	-.00083	-.00019	6.213	-.00003	-.00134	.89033	.00026	.04423	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00096**	**.00022**	**.00231**
Stddev	.00123	.00013	.00015
%RSD	128.05	59.281	6.2897
#1	.00009	.00031	.00221
#2	.00183	.00013	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2413.4**	**1912.5**	**37492.**	**3971.4**
Stddev	2.1	2.0	65.	11.2
%RSD	.08736	.10590	.17227	.28248
#1	2414.9	1913.9	37537.	3979.3
#2	2411.9	1911.1	37446.	3963.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64571-A-1-A PDS Acquired: 8/1/2014 14:21:54 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05080**	**10.715**	**.21864**	**.26007**	**.30986**	**.21397**	**95.046**	**.21490**	**.21198**
Stddev	.00142	.022	.00028	.00073	.00091	.00058	.232	.00050	.00012
%RSD	2.7920	.20683	.12646	.28107	.29240	.27197	.24367	.23225	.05617
#1	.04980	10.730	.21883	.25955	.30922	.21356	95.209	.21454	.21206
#2	.05180	10.699	.21844	.26059	.31050	.21438	94.882	.21525	.21189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20503**	**.21395**	**10.490**	**13.053**	**.21210**	**51.354**	**.24844**	**.21298**	**37.518**
Stddev	.00111	.00204	.041	.043	.00011	.269	.00070	.00035	.055
%RSD	.53944	.95465	.39425	.33130	.05114	.52333	.28220	.16653	.14718
#1	.20425	.21539	10.461	13.022	.21218	51.164	.24794	.21273	37.479
#2	.20581	.21251	10.519	13.083	.21203	51.544	.24893	.21323	37.557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20963**	**.21581**	F **32.40**	**.21601**	**.22145**	**14.915**	**.20908**	**.42192**	**.20441**
Stddev	.00009	.00230	.07	.00404	.00109	.052	.00183	.00254	.00005
%RSD	.04261	1.0638	.2179	1.8705	.49368	.34631	.87648	.60129	.02261
#1	.20956	.21418	32.35	.21316	.22068	14.951	.20779	.42013	.20444
#2	.20969	.21743	32.44	.21887	.22222	14.878	.21038	.42372	.20438
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.22307**	**.21926**	**.20563**
Stddev	.00088	.00122	.00116
%RSD	.39273	.55444	.56275
#1	.22369	.21840	.20481
#2	.22245	.22012	.20645
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2185.2**	**1855.7**	**36622.**	**3976.7**
Stddev	5.9	9.0	245.	5.6
%RSD	.26890	.48480	.67028	.13988
#1	2189.4	1862.0	36795.	3972.8
#2	2181.1	1849.3	36448.	3980.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64571-A-1-B MS Acquired: 8/1/2014 14:24:36 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04954**	**9.9231**	**.20418**	**.24501**	**.29658**	**.19171**	**94.460**	**.19619**	**.19115**
Stddev	.00006	.0574	.00105	.00089	.00065	.00075	.037	.00028	.00042
%RSD	.13003	.57887	.51301	.36134	.21760	.39223	.03911	.14349	.22177
#1	.04949	9.8825	.20344	.24438	.29612	.19118	94.434	.19599	.19145
#2	.04959	9.9637	.20492	.24564	.29703	.19224	94.487	.19639	.19086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18442**	**.19871**	**9.5007**	**12.267**	**.19771**	**50.999**	**.23220**	**.19692**	**36.873**
Stddev	.00036	.00202	.0478	.060	.00021	.029	.00034	.00026	.132
%RSD	.19612	1.0164	.50276	.48550	.10744	.05703	.14767	.13283	.35712
#1	.18468	.19728	9.4670	12.225	.19786	50.978	.23196	.19674	36.780
#2	.18417	.20014	9.5345	12.309	.19756	51.019	.23244	.19711	36.966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19075**	**.19364**	F **42.83**	**.19495**	**.20325**	**14.034**	**.19106**	**.40691**	**.18806**
Stddev	.00003	.00237	.10	.00214	.00024	.028	.00054	.00268	.00008
%RSD	.01362	1.2249	.2371	1.0967	.11698	.19784	.28241	.65837	.04361
#1	.19077	.19196	42.76	.19344	.20342	14.014	.19144	.40502	.18812
#2	.19073	.19532	42.90	.19647	.20308	14.053	.19068	.40880	.18800
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19955**	**.19657**	**.18790**
Stddev	.00196	.00037	.00130
%RSD	.98177	.18820	.68952
#1	.19816	.19631	.18882
#2	.20093	.19683	.18698
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2183.2**	**1836.8**	**36340.**	**3994.4**
Stddev	5.3	5.3	99.	3.9
%RSD	.24480	.29105	.27174	.09811
#1	2186.9	1840.6	36410.	3997.2
#2	2179.4	1833.1	36270.	3991.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 14:27:21 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50028**	**25.183**	**.49992**	**.49008**	**.50609**	**.49694**	**24.989**	**.50052**	**.49940**	**.49465**	**.49398**	**24.816**	**24.551**	**.49028**
Stddev	.00007	.140	.00355	.00047	.00028	.00185	.046	.00009	.00008	.00095	.00198	.128	.022	.00200
%RSD	.01495	.55660	.71003	.09604	.05584	.37247	.18295	.01828	.01676	.19179	.40075	.51418	.08860	.40780
#1	.50033	25.084	.49741	.49042	.50629	.49563	24.956	.50059	.49946	.49532	.49258	24.726	24.535	.48886
#2	.50022	25.282	.50243	.48975	.50589	.49825	25.021	.50046	.49934	.49398	.49538	24.906	24.566	.49169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.335**	**.50833**	**.50243**	**24.397**	**.49930**	**.50329**	**24.86**	**.50016**	**.51317**	**25.052**	**.50942**	**.50118**	**.50096**	**.50523**
Stddev	.005	.00149	.00059	.086	.00071	.00298	.03	.00065	.00102	.132	.00098	.00224	.00080	.00043
%RSD	.02095	.29328	.11751	.35356	.14216	.59268	.1341	.13074	.19803	.52620	.19176	.44753	.16040	.08516
#1	25.332	.50727	.50201	24.336	.49980	.50540	24.84	.49970	.51245	24.958	.51011	.49959	.50039	.50554
#2	25.339	.50938	.50285	24.458	.49880	.50118	24.89	.50063	.51389	25.145	.50873	.50277	.50153	.50493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50294**	**.50229**
Stddev	.00200	.00145
%RSD	.39828	.28837
#1	.50153	.50127
#2	.50436	.50332
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2265.8**	**1910.5**	**36985.**	**3972.2**
Stddev	2.7	.7	96.	3.8
%RSD	.12068	.03544	.25934	.09674
#1	2263.9	1910.0	37053.	3969.5
#2	2267.8	1910.9	36918.	3974.9

Sample Name: CCB Acquired: 8/1/2014 14:30:05 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**-.02381**	**-.00252**	**.00025**	**-.00000**	**-.00002**	**.00212**	**.00019**	**.00001**	**.00026**	**.00062**	**-.00569**
Stddev	.00113	.01038	.00018	.00009	.00002	.00001	.00447	.00002	.00003	.00045	.00006	.00924
%RSD	142.56	43.599	7.2840	35.401	753.53	41.945	211.07	12.506	189.57	175.22	10.034	162.46
#1	-.00159	-.01647	-.00265	.00032	-.00001	-.00003	.00528	.00020	.00003	.00058	.00057	.00085
#2	.00001	-.03114	-.00239	.00019	.00001	-.00002	-.00104	.00017	-.00000	-.00006	.00066	-.01222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01148**	**-.00030**	**.00137**	**.00019**	**.00017**	**-.04615**	**-.00049**	**-.00015**	**.0007**	**.00021**	**-.00074**	**.01319**
Stddev	.01679	.00015	.00024	.00008	.00002	.00147	.00006	.00070	.0024	.00007	.00101	.00002
%RSD	146.21	47.918	17.450	40.815	10.534	3.1870	13.327	474.55	342.9	34.267	136.56	.17100
#1	.02336	-.00041	.00120	.00025	.00018	-.04511	-.00053	.00035	-.0010	.00016	-.00003	.01320
#2	-.00039	-.00020	.00154	.00014	.00015	-.04719	-.00044	-.00064	.0024	.00025	-.00145	.01317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00006**	**-.00015**	**.00203**	**.00015**	**.00032**
Stddev	.00012	.00000	.00003	.00192	.00016	.00066
%RSD	91.443	5.0922	20.558	94.597	108.97	203.82
#1	.00022	.00006	-.00017	.00067	.00026	.00079
#2	.00005	.00006	-.00013	.00339	.00003	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2525.1**	**1952.9**	**38373.**	**4000.9**
Stddev	2.7	.7	95.	13.5
%RSD	.10711	.03373	.24693	.33786
#1	2523.2	1952.5	38306.	3991.3
#2	2527.0	1953.4	38440.	4010.4

Sample Name: CCVL-2222402 Acquired: 8/1/2014 14:32:58 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00550**	**.18621**	**.01507**	**.02014**	**.00227**	**.00213**	**.50340**	**.00215**	**.00401**	**.00404**	**.00956**	**.05203**
Stddev	.00009	.00695	.00072	.00027	.00001	.00010	.00916	.00006	.00011	.00005	.00056	.00374
%RSD	1.6461	3.7343	4.7770	1.3286	.46391	4.8253	1.8190	2.8143	2.6850	1.2404	5.8438	7.1795
#1	.00557	.19112	.01558	.02033	.00226	.00205	.49692	.00219	.00408	.00400	.00916	.05467
#2	.00544	.18129	.01456	.01995	.00228	.00220	.50987	.00211	.00393	.00407	.00995	.04939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50499**	**.02766**	**.21470**	**.00353**	**.01038**	**.91043**	**.00864**	**.00849**	**.2125**	**.01827**	**.02772**	**.51414**
Stddev	.01463	.00013	.00008	.00014	.00012	.00775	.00037	.00111	.0071	.00076	.00547	.01426
%RSD	2.8980	.46210	.03751	3.9396	1.2025	.85128	4.2876	13.060	3.351	4.1824	19.729	2.7740
#1	.49464	.02757	.21476	.00343	.01030	.90495	.00890	.00927	.2074	.01882	.02385	.52422
#2	.51534	.02775	.21464	.00363	.01047	.91591	.00838	.00771	.2175	.01773	.03158	.50406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00917**	**.00506**	**.00437**	**.01948**	**.00504**	**.01074**
Stddev	.00070	.00005	.00018	.00296	.00019	.00041
%RSD	7.6598	.91020	4.2099	15.175	3.8615	3.8106
#1	.00868	.00509	.00450	.01739	.00518	.01045
#2	.00967	.00502	.00424	.02157	.00490	.01103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2513.8**	**1960.2**	**38479.**	**4013.9**
Stddev	.4	.1	150.	18.9
%RSD	.01454	.00734	.39026	.47109
#1	2513.5	1960.1	38372.	4027.3
#2	2514.0	1960.4	38585.	4000.6

Sample Name: 480-64571-A-1-C MSD Acquired: 8/1/2014 14:35:49 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05143**	**10.457**	**.21243**	**.25533**	**.31223**	**.20231**	**100.12**	**.20508**	**.20112**
Stddev	.00044	.034	.00172	.00037	.00041	.00114	.98	.00009	.00023
%RSD	.85771	.32249	.80871	.14471	.13076	.56229	.98286	.04274	.11275
#1	.05174	10.433	.21121	.25507	.31252	.20150	99.428	.20514	.20096
#2	.05111	10.481	.21364	.25559	.31194	.20311	100.82	.20501	.20128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19449**	**.20574**	**9.9748**	**12.899**	**.20593**	**53.549**	**.24334**	**.20497**	**38.846**
Stddev	.00070	.00095	.0385	.018	.00104	.161	.00077	.00024	.092
%RSD	.36246	.46015	.38622	.13688	.50523	.30145	.31447	.11677	.23696
#1	.19399	.20641	9.9476	12.886	.20667	53.435	.24279	.20481	38.781
#2	.19499	.20507	10.002	12.911	.20520	53.663	.24388	.20514	38.911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19896**	**.20393**	F **44.56**	**.20302**	**.21325**	**14.859**	**.19818**	**.42889**	**.19724**
Stddev	.00037	.00178	.05	.00512	.00121	.102	.00081	.00063	.00064
%RSD	.18519	.87463	.1205	2.5218	.56829	.68506	.40648	.14600	.32392
#1	.19922	.20266	44.59	.20664	.21240	14.787	.19875	.42845	.19679
#2	.19870	.20519	44.52	.19940	.21411	14.931	.19761	.42933	.19769
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20641**	**.20713**	**.19857**
Stddev	.00583	.00019	.00025
%RSD	2.8223	.09206	.12651
#1	.20229	.20699	.19839
#2	.21053	.20726	.19874
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2181.9**	**1845.0**	**36312.**	**3965.6**
Stddev	.9	3.3	3.	38.6
%RSD	.03909	.17637	.00881	.97387
#1	2182.5	1847.3	36314.	3992.9
#2	2181.3	1842.7	36310.	3938.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64571-A-2-A Acquired: 8/1/2014 14:38:31 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.09376**	**.00217**	**.05153**	**.11982**	**.00016**	**92.479**	**.00037**	**.00007**
Stddev	.00058	.01837	.00528	.00052	.00004	.00004	.436	.00005	.00025
%RSD	65.498	19.593	243.45	1.0027	.03281	23.261	.47184	14.952	348.36
#1	-.00048	.08077	.00590	.05190	.11984	.00019	92.170	.00033	.00025
#2	-.00131	.10675	-.00156	.05117	.11979	.00014	92.787	.00041	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.00179**	**.17161**	**2.3251**	**.00615**	**45.614**	**.04273**	**.00427**	**13.309**
Stddev	.00005	.00112	.00323	.0109	.00014	.103	.00010	.00031	.044
%RSD	6.0772	62.524	1.8807	.46797	2.1976	.22479	.22573	7.3110	.33410
#1	.00084	.00258	.17389	2.3175	.00625	45.687	.04280	.00405	13.341
#2	.00091	.00100	.16932	2.3328	.00606	45.542	.04267	.00449	13.278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00132**	F **32.18**	**-.00058**	**.00384**	**5.7967**	**-.00030**	**.23285**	**.00253**
Stddev	.00014	.00121	.02	.00004	.00455	.0269	.00039	.00069	.00012
%RSD	12.275	92.347	.0680	7.6655	118.57	.46468	128.61	.29696	4.7033
#1	.00106	.00217	32.17	-.00061	.00706	5.7776	-.00003	.23334	.00262
#2	.00126	.00046	32.20	-.00055	.00062	5.8157	-.00058	.23236	.00245
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00027**	**.00108**	**.00264**
Stddev	.00568	.00001	.00099
%RSD	2078.1	1.3588	37.531
#1	.00374	.00109	.00194
#2	-.00429	.00107	.00334
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2243.1**	**1836.1**	**36206.**	**4021.8**
Stddev	9.8	5.4	35.	26.7
%RSD	.43778	.29435	.09610	.66426
#1	2250.1	1839.9	36181.	4040.7
#2	2236.2	1832.3	36230.	4002.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64571-A-3-A Acquired: 8/1/2014 14:41:18 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.08447**	**-.00083**	**.02945**	**.09370**	**.00007**	**92.104**	**.00018**	**.00005**
Stddev	.00006	.00025	.00078	.00012	.00018	.00008	.037	.00008	.00011
%RSD	9.2423	.29873	93.609	.41339	.19257	118.54	.03997	45.270	206.59
#1	-.00064	.08429	-.00139	.02936	.09383	.00001	92.130	.00012	-.00002
#2	-.00073	.08465	-.00028	.02954	.09357	.00012	92.078	.00024	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00156**	**.08265**	**1.2158**	**.00425**	**41.458**	**.02274**	**.00191**	**11.469**
Stddev	.00054	.00037	.00177	.0022	.00045	.111	.00011	.00038	.031
%RSD	90.915	23.396	2.1387	.18431	10.622	.26770	.48972	20.156	.27180
#1	.00097	.00182	.08390	1.2142	.00457	41.536	.02282	.00218	11.491
#2	.00021	.00131	.08140	1.2174	.00393	41.379	.02266	.00164	11.447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00141**	F **17.47**	**-.00019**	**.00195**	**6.5675**	**-.00030**	**.14004**	**.00187**
Stddev	.00021	.00201	.03	.00198	.00428	.0235	.00004	.00014	.00008
%RSD	29.190	142.64	.1442	1047.1	219.04	.35802	11.887	.09939	4.4456
#1	.00088	.00283	17.46	.00121	.00498	6.5841	-.00028	.14014	.00193
#2	.00058	-.00001	17.49	-.00159	-.00107	6.5508	-.00033	.13994	.00181
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00023**	**.00142**	**.00371**
Stddev	.00246	.00006	.00008
%RSD	1053.8	4.4316	2.0613
#1	-.00198	.00137	.00376
#2	.00151	.00146	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2236.3**	**1837.7**	**36474.**	**3979.0**
Stddev	6.0	1.2	85.	3.7
%RSD	.26878	.06789	.23332	.09240
#1	2232.1	1836.9	36414.	3981.6
#2	2240.6	1838.6	36534.	3976.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64571-A-4-A Acquired: 8/1/2014 14:44:05 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.04278**	**-.00062**	**.03394**	**.08796**	**.00005**	**81.772**	**.00031**	**.00004**
Stddev	.00008	.01355	.00127	.00062	.00014	.00010	.107	.00006	.00018
%RSD	36.365	31.685	204.97	1.8194	.16286	192.43	.13141	19.580	454.32
#1	-.00016	.03319	.00028	.03438	.08786	.00012	81.848	.00035	-.00009
#2	-.00028	.05236	-.00152	.03350	.08806	-.00002	81.696	.00027	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00200**	**.00905**	**1.6986**	**.00418**	**34.179**	**.00629**	**.00199**	**9.8196**
Stddev	.00042	.00022	.00228	.0283	.00061	.038	.00004	.00003	.0525
%RSD	44.051	11.046	25.240	1.6663	14.687	.11001	.64798	1.3206	.53479
#1	.00126	.00216	.01066	1.6786	.00461	34.206	.00626	.00201	9.8568
#2	.00066	.00184	.00743	1.7186	.00374	34.152	.00632	.00198	9.7825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00062**	F **15.86**	**-.00032**	**.00164**	**4.2507**	**-.00090**	**.11779**	**.00037**
Stddev	.00016	.00099	.02	.00046	.00224	.0259	.00034	.00075	.00006
%RSD	17.755	160.01	.1386	144.72	137.09	.60858	37.273	.63961	16.020
#1	.00080	.00132	15.85	.00001	.00005	4.2690	-.00066	.11832	.00041
#2	.00103	-.00008	15.88	-.00064	.00322	4.2324	-.00114	.11725	.00032
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00122**	**.00137**	**.00514**
Stddev	.00252	.00024	.00021
%RSD	206.57	17.226	3.9932
#1	.00301	.00153	.00500
#2	-.00056	.00120	.00529
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2257.9**	**1845.5**	**36509.**	**4008.6**
Stddev	.9	2.1	54.	12.1
%RSD	.03856	.11298	.14791	.30243
#1	2258.6	1847.0	36547.	4017.2
#2	2257.3	1844.0	36471.	4000.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64559-C-1-A Acquired: 8/1/2014 14:46:52 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**-.00285**	**.00040**	**.04471**	**.06986**	**-.00007**	**121.82**	**.00028**	**.00014**
Stddev	.00029	.00398	.00010	.00072	.00039	.00002	.20	.00006	.00011
%RSD	27.981	139.24	24.436	1.6167	.55446	30.180	.16271	23.556	79.185
#1	-.00084	-.00004	.00033	.04420	.06958	-.00009	121.68	.00032	.00006
#2	-.00125	-.00567	.00047	.04523	.07013	-.00006	121.96	.00023	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00041**	**2.9296**	**2.4991**	**.01565**	**63.320**	**.12202**	**.00287**	**20.503**
Stddev	.00024	.00010	.0059	.0166	.00018	.032	.00041	.00019	.005
%RSD	18.678	23.274	.20061	.66561	1.1342	.05018	.33223	6.7570	.02275
#1	.00146	.00048	2.9254	2.4873	.01578	63.297	.12231	.00300	20.507
#2	.00112	.00035	2.9337	2.5108	.01553	63.342	.12174	.00273	20.500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00325**	F **17.60**	**-.00123**	**.00421**	**13.408**	**-.00015**	**.16511**	**.00024**
Stddev	.00011	.00018	.01	.00195	.00067	.076	.00001	.00052	.00007
%RSD	14.745	5.4990	.0820	159.46	15.914	.56991	5.5220	.31579	29.640
#1	.00080	.00313	17.59	.00016	.00468	13.354	-.00016	.16475	.00029
#2	.00065	.00338	17.61	-.00261	.00374	13.462	-.00014	.16548	.00019
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00347**	**.00035**	**.00078**
Stddev	.00130	.00022	.00045
%RSD	37.506	63.704	57.221
#1	.00255	.00019	.00046
#2	.00439	.00051	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2188.4**	**1825.5**	**36133.**	**3987.4**
Stddev	.3	.1	110.	8.8
%RSD	.01267	.00669	.30379	.22006
#1	2188.6	1825.6	36211.	3993.6
#2	2188.2	1825.4	36056.	3981.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64567-C-1-A Acquired: 8/1/2014 14:49:39 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.01766**	**-.00067**	**.15769**	**.03884**	**.00008**	**135.60**	**.00027**	**.00067**
Stddev	.00087	.00575	.00465	.00058	.00016	.00001	.58	.00005	.00006
%RSD	80.501	32.570	690.32	.36482	.40882	12.798	.42479	17.171	9.2249
#1	-.00047	.02173	-.00396	.15810	.03873	.00009	136.00	.00030	.00063
#2	-.00170	.01359	.00262	.15728	.03895	.00008	135.19	.00024	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00329**	**.00409**	**14.238**	**.00764**	**39.875**	**.68484**	**.00041**	**15.255**
Stddev	.00026	.00060	.00296	.075	.00102	.125	.00136	.00056	.018
%RSD	23.389	18.281	72.438	.52967	13.310	.31375	.19816	134.89	.11914
#1	.00094	.00372	.00199	14.291	.00692	39.787	.68388	.00002	15.268
#2	.00132	.00287	.00618	14.184	.00836	39.964	.68580	.00081	15.242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.00237**	F **56.25**	**-.00163**	**.00194**	**5.5141**	**-.00057**	**.24061**	**.00046**
Stddev	.00058	.00006	.10	.00318	.00322	.0151	.00048	.00194	.00000
%RSD	14.188	2.7171	.1765	195.04	166.44	.27448	84.411	.80694	.70182
#1	.00452	.00233	56.18	-.00388	-.00034	5.5248	-.00023	.24199	.00046
#2	.00369	.00242	56.32	.00062	.00422	5.5034	-.00091	.23924	.00047
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00405**	**.00018**	**.00191**
Stddev	.00278	.00031	.00086
%RSD	68.635	177.20	45.255
#1	.00601	.00039	.00130
#2	.00208	-.00004	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2190.2**	**1810.2**	**35531.**	**3941.8**
Stddev	2.0	2.6	153.	14.4
%RSD	.08934	.14531	.42926	.36490
#1	2191.6	1812.1	35638.	3931.6
#2	2188.8	1808.4	35423.	3952.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64567-C-2-A Acquired: 8/1/2014 14:52:26 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.02819**	**.00092**	**.40951**	**.13335**	**.00006**	**168.10**	**.00033**	**.00100**
Stddev	.00073	.00078	.00013	.00060	.00002	.00014	1.99	.00006	.00002
%RSD	116.42	2.7673	13.647	.14646	.01664	220.77	1.1844	19.372	2.4892
#1	-.00115	.02874	.00083	.40909	.13336	.00017	169.50	.00038	.00098
#2	-.00011	.02764	.00101	.40994	.13333	-.00004	166.69	.00029	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**.00156**	**4.1271**	**31.191**	**.01107**	**72.707**	**.97294**	**.00072**	**26.129**
Stddev	.00013	.00057	.0236	.016	.00022	.320	.00323	.00017	.004
%RSD	8.9606	36.270	.57188	.05059	2.0192	.43950	.33174	24.120	.01416
#1	.00152	.00196	4.1438	31.179	.01091	72.933	.97522	.00060	26.132
#2	.00133	.00116	4.1105	31.202	.01123	72.481	.97066	.00084	26.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00348**	**.00112**	F **75.76**	**.00042**	**-.00202**	**5.6528**	**-.00035**	**.41198**	**.00051**
Stddev	.00047	.00158	.14	.00069	.00432	.0513	.00040	.00016	.00011
%RSD	13.502	141.25	.1837	164.52	213.87	.90746	113.63	.03868	21.050
#1	.00381	.00223	75.66	.00090	-.00508	5.6891	-.00064	.41209	.00044
#2	.00315	.00000	75.86	-.00007	.00104	5.6165	-.00007	.41187	.00059
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00130**	**.00002**	**.00717**
Stddev	.00078	.00033	.00120
%RSD	60.192	1727.1	16.778
#1	.00074	.00025	.00802
#2	.00185	-.00022	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2125.9**	**1787.9**	**35233.**	**3907.6**
Stddev	.1	3.5	163.	32.2
%RSD	.00610	.19719	.46285	.82514
#1	2125.8	1790.4	35117.	3884.8
#2	2126.0	1785.4	35348.	3930.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64567-C-3-A Acquired: 8/1/2014 14:55:11 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.01219**	**-.00285**	**.03451**	**.03821**	**.00012**	**101.15**	**.00019**	**-.00002**
Stddev	.00005	.01882	.00251	.00003	.00001	.00009	.37	.00010	.00001
%RSD	4.4093	154.40	88.238	.09325	.03294	74.963	.36124	51.941	50.072
#1	-.00113	.02550	-.00107	.03449	.03821	.00018	101.41	.00026	-.00001
#2	-.00106	-.00112	-.00462	.03453	.03820	.00006	100.90	.00012	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00149**	**.01739**	**1.6377**	**.00458**	**48.132**	**.00480**	**.00065**	**9.2382**
Stddev	.00004	.00006	.00068	.0385	.00070	.106	.00001	.00025	.0171
%RSD	2.3459	3.7996	3.8971	2.3501	15.213	.21964	.20077	39.133	.18475
#1	.00176	.00153	.01787	1.6105	.00409	48.057	.00481	.00083	9.2261
#2	.00170	.00145	.01691	1.6650	.00507	48.206	.00480	.00047	9.2503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00150**	F **50.63**	**.00103**	**.00037**	**5.9848**	**-.00011**	**.10235**	**.00052**
Stddev	.00058	.00100	.01	.00226	.00056	.0106	.00017	.00049	.00011
%RSD	91.090	66.588	.0172	220.17	150.84	.17720	154.17	.47566	21.004
#1	.00105	.00221	50.63	.00262	.00076	5.9923	.00001	.10201	.00060
#2	.00023	.00080	50.64	-.00057	-.00002	5.9773	-.00022	.10269	.00044
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00232**	**.00009**	**.00255**
Stddev	.00102	.00003	.00077
%RSD	44.166	29.412	29.978
#1	.00160	.00011	.00201
#2	.00304	.00007	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2240.7**	**1837.9**	**36326.**	**3971.9**
Stddev	.9	2.3	65.	1.0
%RSD	.03833	.12365	.18028	.02597
#1	2241.3	1836.3	36372.	3971.2
#2	2240.1	1839.5	36279.	3972.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64567-C-4-A Acquired: 8/1/2014 14:57:59 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.04395**	**.00053**	**.27063**	**.11522**	**.00007**	**104.94**	**.00029**	**.00008**
Stddev	.00022	.00444	.00011	.00093	.00022	.00004	.29	.00004	.00007
%RSD	37.540	10.106	21.262	.34512	.19125	59.675	.27724	13.486	98.536
#1	-.00042	.04709	.00061	.26997	.11537	.00004	105.14	.00032	.00013
#2	-.00073	.04081	.00045	.27129	.11506	.00010	104.73	.00026	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00122**	**7.8990**	**9.8091**	**.01359**	**65.422**	**.12561**	**.00050**	**21.879**
Stddev	.00018	.00041	.0293	.0176	.00021	.135	.00081	.00034	.022
%RSD	12.638	33.744	.37131	.17936	1.5123	.20620	.64748	67.682	.09882
#1	.00157	.00151	7.8783	9.7967	.01345	65.517	.12619	.00074	21.864
#2	.00131	.00093	7.9198	9.8216	.01374	65.326	.12504	.00026	21.894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00293**	**.00135**	F **39.35**	**-.00157**	**-.00332**	**7.6248**	**-.00023**	**.22859**	**.00045**
Stddev	.00010	.00147	.05	.00042	.00250	.0741	.00018	.00049	.00032
%RSD	3.4377	108.55	.1236	26.875	75.514	.97177	78.129	.21634	70.555
#1	.00286	.00239	39.31	-.00187	-.00155	7.6772	-.00010	.22824	.00023
#2	.00300	.00031	39.38	-.00127	-.00509	7.5724	-.00036	.22894	.00068
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00235**	**.00001**	**.00078**
Stddev	.00420	.00014	.00025
%RSD	178.87	1342.5	32.382
#1	.00531	-.00009	.00096
#2	-.00062	.00011	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2181.7**	**1811.8**	**35831.**	**3943.2**
Stddev	.9	2.4	32.	5.2
%RSD	.04129	.13294	.08933	.13314
#1	2181.0	1813.5	35853.	3939.5
#2	2182.3	1810.1	35808.	3946.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 15:00:47 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50128**	**25.376**	**.50632**	**.49263**	**.50509**	**.49522**	**24.857**	**.50058**	**.49850**	**.49405**	**.49233**	**24.699**	**24.728**	**.49339**
Stddev	.00036	.199	.00346	.00085	.00290	.00124	.077	.00139	.00076	.00394	.00441	.053	.032	.00098
%RSD	.07103	.78481	.68359	.17308	.57334	.25128	.30853	.27839	.15162	.79791	.89586	.21421	.12992	.19831
#1	.50153	25.517	.50387	.49323	.50305	.49434	24.803	.50157	.49904	.49684	.48922	24.661	24.750	.49408
#2	.50103	25.235	.50877	.49203	.50714	.49610	24.912	.49960	.49797	.49126	.49545	24.736	24.705	.49270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.339**	**.50763**	**.50324**	**24.634**	**.49712**	**.49996**	**24.92**	**.50141**	**.50367**	**24.814**	**.50724**	**.50548**	**.50178**	**.49915**
Stddev	.114	.00199	.00268	.072	.00124	.00056	.06	.00142	.00155	.017	.00053	.00088	.00003	.00138
%RSD	.45135	.39155	.53162	.29056	.25013	.11268	.2447	.28220	.30746	.06881	.10413	.17369	.00616	.27687
#1	25.420	.50903	.50514	24.685	.49624	.49956	24.96	.50241	.50258	24.802	.50761	.50610	.50180	.50013
#2	25.258	.50622	.50135	24.584	.49800	.50036	24.87	.50041	.50477	24.826	.50686	.50486	.50175	.49817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50309**	**.50000**
Stddev	.00281	.00480
%RSD	.55927	.95996
#1	.50508	.50340
#2	.50110	.49661
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2263.4**	**1903.1**	**36942.**	**3979.5**
Stddev	4.7	3.0	284.	.1
%RSD	.20569	.15976	.76795	.00244
#1	2260.1	1900.9	36742.	3979.6
#2	2266.7	1905.2	37143.	3979.4

Sample Name: CCB Acquired: 8/1/2014 15:03:31 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**-.01079**	**-.00149**	**.00073**	**-.00002**	**.00013**	**.00076**	**.00011**	**.00019**	**.00021**	**-.00014**	**-.00203**
Stddev	.00043	.00490	.00128	.00018	.00000	.00001	.00403	.00013	.00006	.00019	.00038	.00203
%RSD	135.96	45.392	85.882	25.408	19.274	5.9000	531.69	121.25	30.843	88.722	266.94	99.811
#1	-.00001	-.01426	-.00059	.00060	-.00002	.00014	.00361	.00020	.00015	.00034	.00013	-.00347
#2	-.00062	-.00733	-.00240	.00086	-.00002	.00013	-.00209	.00002	.00023	.00008	-.00041	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00046**	**-.00234**	**.00013**	**.00001**	**-.04246**	**-.00089**	**-.00046**	**.0063**	**.00107**	**-.00044**	**.01610**
Stddev	.01907	.00000	.00261	.00006	.00008	.00815	.00022	.00035	.0000	.00086	.00135	.00431
%RSD	2231.9	.89408	111.71	46.449	971.16	19.195	24.116	75.895	.6799	79.908	307.94	26.794
#1	-.01263	-.00046	-.00049	.00017	-.00005	-.03670	-.00074	-.00022	.0064	.00168	.00052	.01915
#2	.01434	-.00046	-.00418	.00009	.00006	-.04822	-.00105	-.00071	.0063	.00047	-.00139	.01305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00008**	**-.00042**	**.00073**	**.00003**	**.00069**
Stddev	.00026	.00015	.00008	.00033	.00005	.00074
%RSD	103.29	204.70	18.898	45.221	154.74	107.98
#1	.00043	.00018	-.00048	.00050	.00007	.00121
#2	.00007	-.00003	-.00037	.00097	-.00000	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2518.4**	**1949.5**	**38172.**	**4028.2**
Stddev	3.7	3.0	4.	20.3
%RSD	.14535	.15507	.01125	.50438
#1	2521.0	1951.6	38175.	4042.6
#2	2515.8	1947.3	38169.	4013.9

Sample Name: CCVL-2222402 Acquired: 8/1/2014 15:06:24 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.21109**	**.01590**	**.01984**	**.00220**	**.00207**	**.51279**	**.00217**	**.00403**	**.00498**	**.00970**	**.04550**
Stddev	.00035	.02064	.00043	.00002	.00002	.00009	.00182	.00001	.00002	.00020	.00020	.00562
%RSD	6.0000	9.7764	2.6745	.09923	.70907	4.3036	.35417	.67145	.51403	4.0092	2.1029	12.356
#1	.00563	.19649	.01559	.01985	.00219	.00201	.51150	.00216	.00405	.00484	.00985	.04948
#2	.00613	.22568	.01620	.01983	.00221	.00213	.51407	.00218	.00402	.00512	.00956	.04153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48847**	**.02855**	**.21176**	**.00341**	**.01051**	**.92172**	**.00898**	**.00999**	**.2168**	**.02021**	**.02447**	**.49539**
Stddev	.00388	.00067	.00051	.00002	.00017	.00242	.00017	.00049	.0014	.00009	.00578	.04733
%RSD	.79345	2.3393	.23866	.51786	1.6203	.26275	1.9215	4.8553	.6257	.42090	23.626	9.5547
#1	.49121	.02808	.21140	.00342	.01063	.92344	.00886	.00965	.2177	.02015	.02038	.52886
#2	.48573	.02902	.21211	.00340	.01039	.92001	.00911	.01034	.2158	.02027	.02855	.46192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00949**	**.00519**	**.00478**	**.02087**	**.00512**	**.01018**
Stddev	.00025	.00001	.00011	.00109	.00005	.00081
%RSD	2.6651	.18146	2.3806	5.2388	1.0285	7.9971
#1	.00931	.00520	.00486	.02009	.00515	.00960
#2	.00966	.00518	.00470	.02164	.00508	.01076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2507.1**	**1953.2**	**38470.**	**4033.9**
Stddev	1.3	.5	147.	3.3
%RSD	.05129	.02475	.38164	.08210
#1	2508.0	1952.9	38366.	4031.5
#2	2506.2	1953.6	38574.	4036.2

Sample Name: 480-64567-C-5-A Acquired: 8/1/2014 15:09:15 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**-.00341**	**.00078**	**.27246**	**.08728**	**.00007**	**256.90**	**.00047**	**.00369**
Stddev	.00118	.00734	.00044	.00022	.00014	.00005	.67	.00005	.00019
%RSD	123.99	215.46	56.094	.08048	.16403	73.699	.26118	9.8632	5.2108
#1	-.00178	.00178	.00109	.27262	.08738	.00010	257.37	.00050	.00356
#2	-.00012	-.00860	.00047	.27231	.08718	.00003	256.42	.00044	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**.00257**	**4.7995**	**3.6943**	**.01748**	**235.32**	**.44622**	**.00134**	**48.771**
Stddev	.00012	.00006	.0155	.0006	.00030	.52	.00099	.00037	.057
%RSD	7.2680	2.3488	.32329	.01759	1.7320	.22193	.22076	27.967	.11640
#1	.00167	.00262	4.8105	3.6948	.01770	235.69	.44691	.00160	48.811
#2	.00151	.00253	4.7885	3.6939	.01727	234.96	.44552	.00107	48.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00798**	**.00240**	F **161.1**	**-.00113**	**.00057**	**11.682**	**-.00036**	**.67620**	**.00101**
Stddev	.00030	.00020	.1	.00096	.00490	.033	.00024	.00320	.00018
%RSD	3.8115	8.1913	.0538	84.758	852.16	.28065	67.319	.47254	17.582
#1	.00820	.00226	161.0	-.00045	.00404	11.706	-.00019	.67846	.00114
#2	.00777	.00254	161.2	-.00180	-.00289	11.659	-.00053	.67394	.00089
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00020**	**-.00012**	**.00406**
Stddev	.00505	.00035	.00073
%RSD	2477.0	293.24	18.002
#1	.00337	.00013	.00355
#2	-.00377	-.00037	.00458
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2008.1**	**1711.7**	**34255.**	**3895.9**
Stddev	.1	4.0	41.	1.1
%RSD	.00655	.23416	.11960	.02749
#1	2008.1	1714.6	34284.	3896.6
#2	2008.0	1708.9	34226.	3895.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64570-C-1-A Acquired: 8/1/2014 15:12:02 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01447**	**.00110**	**.05055**	**.10630**	**.00016**	**87.777**	**.00016**	**.00015**
Stddev	.00036	.02032	.00137	.00009	.00013	.00009	.271	.00008	.00011
%RSD	1303.4	140.45	124.36	.17676	.12326	55.206	.30829	49.434	70.339
#1	.00023	.02884	.00207	.05049	.10621	.00022	87.586	.00011	.00008
#2	-.00028	.00010	.00013	.05062	.10640	.00010	87.968	.00022	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00190**	**.04205**	**2.8483**	**.00573**	**43.010**	**.04082**	**.00463**	**28.401**
Stddev	.00041	.00103	.00014	.0311	.00013	.053	.00009	.00012	.013
%RSD	47.834	54.201	.32675	1.0925	2.2666	.12274	.21174	2.5567	.04663
#1	.00056	.00117	.04215	2.8703	.00564	42.973	.04088	.00472	28.410
#2	.00114	.00263	.04195	2.8263	.00582	43.048	.04076	.00455	28.391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.00218**	F **33.91**	**.00100**	**-.00066**	**4.6303**	**-.00039**	**.22867**	**.00062**
Stddev	.00014	.00048	.01	.00037	.00074	.0314	.00036	.00011	.00009
%RSD	12.311	21.964	.0254	36.901	112.23	.67901	92.695	.04674	14.497
#1	.00102	.00252	33.90	.00074	-.00014	4.6526	-.00014	.22859	.00056
#2	.00122	.00184	33.91	.00126	-.00118	4.6081	-.00065	.22875	.00069
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00005**	**.00083**	**.00161**
Stddev	.00248	.00022	.00068
%RSD	4863.4	25.932	42.403
#1	-.00180	.00099	.00113
#2	.00170	.00068	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2220.5**	**1824.2**	**36044.**	**4015.5**
Stddev	4.2	4.4	118.	11.8
%RSD	.18718	.24370	.32674	.29310
#1	2223.4	1827.4	36127.	4023.8
#2	2217.5	1821.1	35960.	4007.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64570-C-2-A Acquired: 8/1/2014 15:14:49 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.06966**	**-.00048**	**.04677**	**.10879**	**.00010**	**84.570**	**.00031**	**.00001**
Stddev	.00002	.00422	.00204	.00006	.00041	.00003	.243	.00007	.00009
%RSD	74.405	6.0570	424.91	.12676	.38085	34.037	.28688	24.136	1406.1
#1	.00001	.06668	-.00192	.04681	.10850	.00013	84.398	.00036	.00007
#2	.00005	.07264	.00096	.04672	.10909	.00008	84.741	.00026	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00143**	**.14889**	**2.2179**	**.00633**	**42.074**	**.03971**	**.00403**	**12.546**
Stddev	.00003	.00115	.00072	.0063	.00057	.063	.00002	.00015	.013
%RSD	2.9354	80.262	.48291	.28224	9.0280	.14957	.05382	3.7073	.10006
#1	.00103	.00224	.14940	2.2224	.00593	42.119	.03973	.00393	12.537
#2	.00099	.00062	.14838	2.2135	.00674	42.030	.03970	.00414	12.555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**.00155**	F **29.71**	**.00033**	**.00398**	**5.2434**	**-.00059**	**.21851**	**.00244**
Stddev	.00011	.00055	.01	.00091	.00505	.0298	.00065	.00026	.00020
%RSD	6.6767	35.841	.0431	272.75	126.85	.56836	110.46	.11816	8.3572
#1	.00150	.00115	29.71	.00098	.00756	5.2645	-.00013	.21833	.00259
#2	.00165	.00194	29.72	-.00031	.00041	5.2224	-.00105	.21869	.00230
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00173**	**.00096**	**.00651**
Stddev	.00314	.00013	.00081
%RSD	181.22	13.903	12.375
#1	.00395	.00105	.00707
#2	-.00049	.00087	.00594
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2247.9**	**1843.2**	**36248.**	**3966.1**
Stddev	2.5	5.3	52.	19.1
%RSD	.11247	.28502	.14420	.48268
#1	2249.7	1846.9	36285.	3979.7
#2	2246.1	1839.5	36211.	3952.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64570-C-3-A Acquired: 8/1/2014 15:17:37 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.09591**	**-.00059**	**.02772**	**.08992**	**.00004**	**87.606**	**.00037**	**.00007**
Stddev	.00059	.01402	.00034	.00025	.00359	.00017	.139	.00005	.00026
%RSD	115.48	14.614	57.093	.89689	3.9974	396.94	.15884	12.867	357.26
#1	-.00093	.08600	-.00083	.02789	.09246	.00016	87.508	.00041	-.00011
#2	-.00009	.10582	-.00035	.02754	.08738	-.00008	87.705	.00034	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00118**	**.07307**	**1.1140**	**.00454**	**40.486**	**.02232**	**.00169**	**10.805**
Stddev	.00033	.00020	.00080	.0004	.00056	1.524	.00074	.00013	.010
%RSD	48.262	16.591	1.0922	.03351	12.275	3.7652	3.2933	7.4719	.08891
#1	.00045	.00104	.07364	1.1138	.00415	41.564	.02284	.00178	10.798
#2	.00092	.00131	.07251	1.1143	.00494	39.408	.02180	.00160	10.812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00102**	F **16.69**	**-.00226**	**.00206**	**6.2137**	**-.00058**	**.13279**	**.00166**
Stddev	.00033	.00152	.03	.00068	.00846	.0299	.00032	.00014	.00011
%RSD	39.115	148.57	.1558	30.091	411.58	.48161	54.539	.10506	6.7151
#1	.00060	.00209	16.71	-.00178	.00804	6.1925	-.00081	.13269	.00158
#2	.00106	-.00005	16.67	-.00274	-.00393	6.2348	-.00036	.13288	.00174
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00296**	**.00133**	**.00402**
Stddev	.00419	.00037	.00086
%RSD	141.52	28.002	21.338
#1	-.00000	.00107	.00341
#2	.00592	.00160	.00462
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2254.4**	**1848.2**	**35882.**	**3962.5**
Stddev	2.3	2.0	1040.	24.1
%RSD	.10129	.10958	2.8991	.60907
#1	2256.1	1849.7	35146.	3979.5
#2	2252.8	1846.8	36617.	3945.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64570-C-4-A Acquired: 8/1/2014 15:20:23 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**-.01546**	**.00136**	**.03402**	**.08883**	**.00009**	**83.131**	**.00028**	**.00010**
Stddev	.00063	.01845	.00281	.00010	.00013	.00013	.098	.00006	.00010
%RSD	100.32	119.35	206.53	.28524	.15085	149.30	.11774	20.819	101.80
#1	-.00107	-.02851	-.00063	.03395	.08873	.00018	83.200	.00032	.00003
#2	-.00018	-.00241	.00334	.03409	.08892	-.00000	83.062	.00024	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00295**	**.00911**	**1.7287**	**.00347**	**34.749**	**.00664**	**.00189**	**9.7475**
Stddev	.00029	.00007	.00542	.0452	.00023	.001	.00010	.00002	.0274
%RSD	23.542	2.2756	59.488	2.6135	6.5637	.00200	1.4443	.98803	.28066
#1	.00142	.00300	.00528	1.6967	.00363	34.748	.00671	.00188	9.7669
#2	.00101	.00290	.01294	1.7606	.00331	34.749	.00658	.00190	9.7282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00144**	F **16.06**	**-.00038**	**.00415**	**4.2973**	**-.00003**	**.11843**	**.00028**
Stddev	.00005	.00012	.01	.00064	.00022	.0093	.00001	.00045	.00020
%RSD	5.7416	8.5134	.0569	169.77	5.3656	.21739	34.778	.38391	71.773
#1	.00100	.00135	16.07	-.00083	.00430	4.2907	-.00003	.11875	.00014
#2	.00092	.00153	16.06	.00008	.00399	4.3039	-.00002	.11811	.00042
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00439**	**.00121**	**.00383**
Stddev	.00016	.00009	.00068
%RSD	3.7525	7.8495	17.737
#1	.00428	.00114	.00335
#2	.00451	.00128	.00431
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2260.1**	**1846.8**	**36424.**	**3977.3**
Stddev	3.3	.4	31.	2.5
%RSD	.14408	.02279	.08492	.06284
#1	2262.4	1846.5	36402.	3979.1
#2	2257.8	1847.1	36445.	3975.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64572-A-1-A Acquired: 8/1/2014 15:23:11 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.08777**	**.00073**	**.13820**	**.03401**	**.00006**	**117.91**	**.00032**	**.00047**
Stddev	.00006	.00623	.00420	.00059	.00003	.00001	.66	.00001	.00024
%RSD	8.3491	7.1032	576.06	.42579	.08013	9.0333	.55844	3.3949	50.431
#1	-.00072	.08336	-.00224	.13861	.03403	.00005	118.38	.00031	.00030
#2	-.00081	.09218	.00370	.13778	.03399	.00006	117.44	.00032	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.00325**	**.00971**	**13.560**	**.00568**	**35.455**	**.47105**	**.00037**	**12.800**
Stddev	.00064	.00042	.00686	.029	.00085	.129	.00289	.00006	.027
%RSD	62.420	12.873	70.611	.21414	14.910	.36434	.61450	17.121	.21176
#1	.00148	.00355	.00486	13.539	.00628	35.546	.47310	.00033	12.781
#2	.00057	.00296	.01456	13.580	.00508	35.364	.46901	.00042	12.819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**.00177**	F **49.90**	**-.00127**	**-.00165**	**4.9168**	**-.00012**	**.20548**	**.00076**
Stddev	.00029	.00001	.01	.00020	.00306	.0002	.00040	.00056	.00025
%RSD	7.0835	.42085	.0237	15.884	185.52	.00481	325.12	.27244	32.869
#1	.00383	.00177	49.89	-.00141	-.00381	4.9167	-.00040	.20509	.00058
#2	.00423	.00178	49.91	-.00113	.00051	4.9170	.00016	.20588	.00093
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00298**	**.00020**	**.00449**
Stddev	.00014	.00001	.00055
%RSD	4.8513	6.1855	12.216
#1	.00308	.00020	.00487
#2	.00288	.00019	.00410
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2214.8**	**1818.1**	**35969.**	**3952.4**
Stddev	5.1	5.5	45.	15.8
%RSD	.22827	.30377	.12485	.39925
#1	2218.3	1822.0	35938.	3941.2
#2	2211.2	1814.2	36001.	3963.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64572-A-2-A Acquired: 8/1/2014 15:25:58 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**.02790**	**.00327**	**.44314**	**.14796**	**.00002**	**177.91**	**.00043**	**.00141**
Stddev	.00008	.00250	.00439	.00048	.00012	.00001	.38	.00018	.00010
%RSD	6.3248	8.9745	134.37	.10907	.08202	46.148	.21536	42.662	6.9652
#1	-.00125	.02613	.00016	.44280	.14787	.00001	178.18	.00056	.00134
#2	-.00137	.02967	.00637	.44348	.14804	.00002	177.64	.00030	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00181**	**7.3082**	**33.937**	**.01109**	**77.537**	**1.0234**	**.00062**	**28.374**
Stddev	.00000	.00023	.0143	.131	.00069	.094	.0002	.00026	.098
%RSD	.22963	12.741	.19592	.38477	6.2375	.12148	.01535	42.095	.34610
#1	.00136	.00165	7.2980	33.845	.01158	77.471	1.0232	.00043	28.305
#2	.00136	.00197	7.3183	34.030	.01060	77.604	1.0235	.00080	28.444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00469**	**.00217**	F **79.81**	**-.00038**	**.00551**	**6.0999**	**-.00003**	**.44847**	**.00052**
Stddev	.00075	.00092	.05	.00201	.01050	.0181	.00112	.00168	.00024
%RSD	16.051	42.359	.0630	521.09	190.53	.29593	4058.7	.37477	47.129
#1	.00522	.00152	79.78	.00103	.01294	6.1126	-.00082	.44728	.00035
#2	.00416	.00282	79.85	-.00180	-.00191	6.0871	.00077	.44965	.00069
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00144**	**.00020**	**.00866**
Stddev	.00505	.00024	.00004
%RSD	350.09	118.84	.50592
#1	-.00213	.00003	.00869
#2	.00501	.00037	.00862
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2107.1**	**1768.8**	**35112.**	**3932.3**
Stddev	1.0	5.0	130.	6.1
%RSD	.04924	.28379	.37053	.15583
#1	2107.8	1772.3	35204.	3928.0
#2	2106.3	1765.2	35020.	3936.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64572-A-3-A Acquired: 8/1/2014 15:28:43 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.03798**	**-.00128**	**.03719**	**.04038**	**.00014**	**104.85**	**.00031**	**-.00003**
Stddev	.00008	.01385	.00222	.00009	.00005	.00008	.29	.00011	.00001
%RSD	8.9506	36.472	173.03	.25390	.13013	55.456	.27992	34.435	39.300
#1	-.00090	.04777	-.00285	.03713	.04035	.00008	104.64	.00039	-.00002
#2	-.00080	.02818	.00029	.03726	.04042	.00019	105.05	.00024	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**.00219**	**.02093**	**1.6430**	**.00536**	**50.605**	**.00458**	**.00065**	**9.6881**
Stddev	.00012	.00025	.00713	.0090	.00016	.060	.00003	.00014	.0280
%RSD	8.3263	11.325	34.050	.54851	2.9529	.11911	.55238	21.417	.28906
#1	.00158	.00236	.01589	1.6367	.00525	50.647	.00460	.00055	9.6683
#2	.00141	.00201	.02598	1.6494	.00547	50.562	.00456	.00075	9.7079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**.00137**	F **53.20**	**-.00092**	**-.00076**	**6.3025**	**-.00086**	**.10731**	**.00083**
Stddev	.00012	.00099	.02	.00231	.00622	.0030	.00017	.00070	.00024
%RSD	8.8440	72.160	.0422	250.44	821.33	.04827	19.561	.64901	29.211
#1	.00124	.00067	53.18	.00071	-.00515	6.3046	-.00098	.10682	.00100
#2	.00140	.00207	53.21	-.00255	.00364	6.3003	-.00074	.10780	.00066
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00254**	**-.00014**	**.00221**
Stddev	.00177	.00004	.00016
%RSD	69.533	27.421	7.1161
#1	.00380	-.00016	.00210
#2	.00129	-.00011	.00232
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2226.9**	**1820.3**	**36095.**	**3972.0**
Stddev	.0	2.8	15.	17.0
%RSD	.00073	.15285	.04139	.42879
#1	2226.8	1822.2	36085.	3984.0
#2	2226.9	1818.3	36106.	3960.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64572-A-4-A Acquired: 8/1/2014 15:31:29 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**.03960**	**.00115**	**.25029**	**.10682**	**.00007**	**97.191**	**.00025**	**.00012**
Stddev	.00030	.00858	.00391	.00015	.00014	.00001	.090	.00001	.00003
%RSD	30.359	21.660	341.15	.06185	.13164	14.409	.09304	5.7162	21.319
#1	-.00120	.04567	-.00162	.25040	.10672	.00007	97.255	.00026	.00011
#2	-.00077	.03354	.00391	.25019	.10692	.00008	97.127	.00024	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00174**	**7.3664**	**8.9728**	**.01132**	**61.120**	**.11691**	**.00026**	**19.984**
Stddev	.00023	.00042	.0339	.0259	.00064	.006	.00029	.00042	.045
%RSD	22.191	24.259	.46051	.28806	5.6831	.01024	.24394	162.52	.22371
#1	.00086	.00144	7.3904	8.9911	.01086	61.115	.11671	.00056	20.015
#2	.00119	.00204	7.3424	8.9545	.01177	61.124	.11711	-.00004	19.952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00325**	**.00334**	F **36.63**	**-.00132**	**-.00306**	**7.1079**	**-.00009**	**.21059**	**.00019**
Stddev	.00039	.00246	.07	.00235	.00712	.0284	.00100	.00155	.00005
%RSD	11.977	73.608	.1917	178.55	232.93	.39962	1067.1	.73432	27.840
#1	.00353	.00508	36.58	-.00298	-.00809	7.0878	.00062	.21169	.00015
#2	.00298	.00160	36.68	.00035	.00198	7.1280	-.00080	.20950	.00023
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00017**	**.00011**	**.00116**
Stddev	.00457	.00039	.00007
%RSD	2731.9	360.61	6.2735
#1	-.00307	-.00017	.00111
#2	.00340	.00038	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2207.0**	**1825.7**	**36127.**	**3981.1**
Stddev	.2	3.7	13.	3.7
%RSD	.01106	.20035	.03520	.09267
#1	2206.9	1828.3	36136.	3983.7
#2	2207.2	1823.1	36118.	3978.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 15:34:18 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49705**	**24.627**	**.49665**	**.49012**	**.49352**	**.48180**	**24.413**	**.49893**	**.49665**	**.48789**	**.49389**	**24.131**	**23.802**	**.47888**
Stddev	.00929	.003	.00053	.00057	.00066	.00078	.064	.00141	.00299	.00883	.00064	.062	.142	.00080
%RSD	1.8682	.01158	.10619	.11642	.13412	.16258	.26171	.28253	.60184	1.8102	.13025	.25546	.59731	.16619
#1	.50362	24.629	.49702	.48972	.49398	.48125	24.368	.49793	.49454	.49414	.49435	24.087	23.701	.47944
#2	.49049	24.625	.49627	.49053	.49305	.48236	24.458	.49993	.49876	.48164	.49344	24.174	23.902	.47832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.173**	**.50351**	**.50072**	**23.873**	**.49460**	**.50020**	**24.72**	**.49855**	**.50520**	**24.353**	**.50677**	**.48917**	**.49859**	**.49950**
Stddev	.439	.00753	.00083	.070	.00172	.00334	.04	.00012	.00256	.000	.00352	.00242	.00720	.00216
%RSD	1.7431	1.4952	.16664	.29256	.34687	.66841	.1424	.02359	.50615	.00160	.69398	.49522	1.4448	.43296
#1	25.483	.50883	.50013	23.824	.49339	.49784	24.70	.49846	.50700	24.352	.50429	.48746	.50369	.50103
#2	24.862	.49818	.50131	23.923	.49581	.50257	24.74	.49863	.50339	24.353	.50926	.49089	.49350	.49797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.49839**	**.49315**
Stddev	.00790	.00744
%RSD	1.5844	1.5082
#1	.50397	.49841
#2	.49280	.48789
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2254.3**	**1898.0**	**37022.**	**4006.5**
Stddev	4.5	1.2	553.	12.4
%RSD	.19975	.06272	1.4935	.31011
#1	2257.5	1898.8	36631.	4015.3
#2	2251.2	1897.1	37413.	3997.7

Sample Name: CCB Acquired: 8/1/2014 15:37:01 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00775**	**-.00146**	**.00049**	**-.00002**	**.00003**	**.00787**	**.00008**	**.00006**	**-.00001**	**.00035**	**.00497**
Stddev	.00010	.03982	.00063	.00004	.00000	.00008	.00430	.00001	.00002	.00044	.00093	.00083
%RSD	13.632	514.04	43.313	7.4185	16.188	225.01	54.625	13.908	38.593	3462.6	269.50	16.638
#1	-.00064	.03590	-.00190	.00052	-.00002	.00009	.01091	.00008	.00007	.00030	.00101	.00556
#2	-.00077	-.02041	-.00101	.00047	-.00002	-.00002	.00483	.00007	.00004	-.00032	-.00031	.00439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**-.00125**	**.00256**	**-.00001**	**.00018**	**-.03726**	**-.00038**	**-.00029**	**.0102**	**.00076**	**.00143**	**.00301**
Stddev	.04667	.00087	.00175	.00003	.00031	.00192	.00013	.00056	.0044	.00114	.00003	.01795
%RSD	961.01	69.002	68.192	235.32	170.31	5.1624	35.083	191.43	43.73	149.96	2.2610	596.67
#1	.03786	-.00064	.00380	-.00003	-.00004	-.03590	-.00029	.00010	.0133	.00156	.00141	-.00968
#2	-.02814	-.00187	.00133	.00001	.00040	-.03862	-.00048	-.00069	.0070	-.00005	.00146	.01570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00012**	**-.00026**	**.00130**	**.00021**	**.00051**
Stddev	.00007	.00006	.00003	.00013	.00003	.00057
%RSD	38.066	46.927	12.519	10.052	13.333	111.93
#1	-.00013	.00008	-.00023	.00120	.00023	.00091
#2	-.00023	.00017	-.00028	.00139	.00019	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2518.2**	**1948.1**	**38198.**	**3989.5**
Stddev	1.8	1.1	77.	5.5
%RSD	.07273	.05693	.20237	.13677
#1	2519.5	1947.4	38252.	3993.4
#2	2516.9	1948.9	38143.	3985.7

Sample Name: CCVL-2222402 Acquired: 8/1/2014 15:39:56 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.20026**	**.01214**	**.02015**	**.00230**	**.00209**	**.51169**	**.00221**	**.00412**	**.00448**	**.00900**	**.04753**
Stddev	.00049	.01307	.00011	.00019	.00001	.00012	.00288	.00011	.00015	.00082	.00024	.01115
%RSD	8.3916	6.5281	.91107	.94396	.58847	5.6713	.56228	4.9400	3.5719	18.287	2.6597	23.455
#1	.00553	.19102	.01222	.02028	.00231	.00218	.50966	.00229	.00422	.00506	.00917	.05542
#2	.00623	.20951	.01206	.02001	.00229	.00201	.51373	.00213	.00401	.00390	.00883	.03965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47765**	**.02850**	**.21595**	**.00348**	**.01040**	**.92682**	**.00881**	**.00994**	**.2159**	**.01823**	**.02325**	**.52069**
Stddev	.01005	.00029	.00237	.00003	.00029	.00846	.00003	.00034	.0008	.00073	.00051	.01959
%RSD	2.1035	1.0125	1.0983	.93468	2.7520	.91256	.35692	3.3738	.3821	4.0279	2.1879	3.7631
#1	.47054	.02870	.21428	.00346	.01020	.93280	.00879	.00970	.2164	.01771	.02361	.50684
#2	.48475	.02830	.21763	.00351	.01060	.92084	.00883	.01017	.2153	.01875	.02289	.53455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00985**	**.00498**	**.00465**	**.02168**	**.00519**	**.01090**
Stddev	.00019	.00013	.00011	.00106	.00026	.00033
%RSD	1.9784	2.6069	2.2875	4.8949	4.9354	3.0433
#1	.00972	.00489	.00457	.02093	.00537	.01114
#2	.00999	.00507	.00472	.02243	.00501	.01067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2498.8**	**1951.9**	**38352.**	**3989.7**
Stddev	.1	.7	80.	18.6
%RSD	.00597	.03623	.20830	.46583
#1	2499.0	1952.4	38408.	4002.8
#2	2498.7	1951.4	38295.	3976.5

Sample Name: 480-64572-A-5-A Acquired: 8/1/2014 15:42:46 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00945**	**.00281**	**.26470**	**.08341**	**-.00008**	**247.98**	**.00047**	**.00382**
Stddev	.00017	.00266	.00122	.00112	.00028	.00003	.76	.00010	.00028
%RSD	21.522	28.191	43.319	.42152	.33009	31.412	.30471	20.670	7.2653
#1	-.00069	.00757	.00195	.26391	.08321	-.00006	247.44	.00054	.00363
#2	-.00093	.01133	.00367	.26549	.08360	-.00010	248.51	.00040	.00402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00333**	**4.6144**	**3.5403**	**.01580**	**225.92**	**.43391**	**.00104**	**46.498**
Stddev	.00013	.00064	.0032	.0187	.00006	.50	.00109	.00015	.017
%RSD	11.905	19.105	.06969	.52846	.35640	.22244	.25091	14.026	.03638
#1	.00116	.00288	4.6121	3.5535	.01576	225.57	.43314	.00094	46.486
#2	.00098	.00378	4.6167	3.5271	.01584	226.28	.43468	.00114	46.510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00825**	**.00259**	F **155.4**	**-.00091**	**-.00037**	**11.254**	**-.00002**	**.64227**	**.00075**
Stddev	.00056	.00008	.2	.00145	.00465	.009	.00007	.00016	.00004
%RSD	6.7642	2.9960	.1238	158.09	1252.8	.08255	281.38	.02542	5.1414
#1	.00864	.00264	155.2	.00011	-.00366	11.247	.00002	.64238	.00078
#2	.00785	.00253	155.5	-.00194	.00291	11.261	-.00007	.64215	.00072
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00058**	**-.00022**	**.00135**
Stddev	.00122	.00025	.00049
%RSD	209.86	112.48	36.612
#1	-.00145	-.00040	.00170
#2	.00028	-.00005	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2014.0**	**1724.1**	**34289.**	**3900.3**
Stddev	5.6	6.5	141.	17.2
%RSD	.28014	.37594	.41027	.44109
#1	2017.9	1728.7	34388.	3912.5
#2	2010.0	1719.5	34189.	3888.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64573-C-1-A Acquired: 8/1/2014 15:45:32 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**.02205**	**.00401**	**.12107**	**.08531**	**.00006**	**81.891**	**.00032**	**.00083**
Stddev	.00061	.00178	.00464	.00029	.00000	.00001	.339	.00006	.00011
%RSD	59.541	8.0826	115.67	.24148	.00579	13.519	.41353	17.632	12.858
#1	-.00146	.02079	.00073	.12128	.08530	.00005	82.130	.00036	.00091
#2	-.00059	.02331	.00729	.12086	.08531	.00006	81.651	.00028	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00256**	**.52339**	**10.803**	**.00451**	**31.026**	**.50494**	**.00177**	**9.6182**
Stddev	.00034	.00015	.00802	.070	.00057	.009	.00070	.00019	.0162
%RSD	46.073	5.8830	1.5316	.64547	12.758	.02986	.13958	10.683	.16832
#1	.00098	.00267	.52905	10.852	.00491	31.019	.50544	.00191	9.6067
#2	.00050	.00246	.51772	10.753	.00410	31.032	.50444	.00164	9.6296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00229**	**-.00189**	F **35.30**	**-.00038**	**-.00037**	**7.9782**	**-.00024**	**.13704**	**.00035**
Stddev	.00046	.00031	.02	.00008	.00856	.0659	.00032	.00027	.00052
%RSD	20.136	16.275	.0487	19.606	2327.5	.82553	136.32	.19385	148.38
#1	.00196	-.00211	35.29	-.00044	.00569	8.0248	-.00046	.13723	.00072
#2	.00262	-.00167	35.31	-.00033	-.00642	7.9316	-.00001	.13685	-.00002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00181**	**.00029**	**.00282**
Stddev	.00237	.00009	.00046
%RSD	130.75	32.350	16.313
#1	.00014	.00022	.00315
#2	.00349	.00035	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2253.3**	**1835.2**	**36372.**	**3998.0**
Stddev	2.3	.6	35.	4.2
%RSD	.10011	.03109	.09648	.10587
#1	2251.7	1835.6	36397.	4001.0
#2	2254.9	1834.8	36347.	3995.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 15:48:19 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**-.01357**	**-.00061**	**.00029**	**.00018**	**.00005**	**.00678**	**.00027**	**.00004**
Stddev	.00064	.00283	.00092	.00016	.00001	.00001	.00389	.00003	.00002
%RSD	105.53	20.887	149.65	57.631	3.5187	15.643	57.390	10.683	58.005
#1	-.00015	-.01558	-.00126	.00040	.00019	.00004	.00403	.00025	.00002
#2	-.00106	-.01157	.00004	.00017	.00018	.00006	.00954	.00029	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00030**	**-.00140**	**.02341**	**-.00115**	**.00331**	**.00010**	**.00003**	**-.02814**
Stddev	.00009	.00015	.00286	.00670	.00026	.00255	.00005	.00027	.00105
%RSD	15.498	50.824	203.75	28.626	22.339	76.994	50.492	828.39	3.7275
#1	.00066	.00041	.00062	.02815	-.00133	.00511	.00007	.00022	-.02740
#2	.00053	.00019	-.00343	.01867	-.00097	.00151	.00014	-.00016	-.02888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00107**	**.0108**	**.00025**	**.00225**	**.00498**	**.00005**	**.00010**	**-.00026**
Stddev	.00040	.00074	.0040	.00137	.00065	.02418	.00021	.00006	.00042
%RSD	85.768	69.662	36.98	554.69	29.053	485.89	387.79	58.333	158.91
#1	-.00018	-.00054	.0136	-.00072	.00179	.02207	.00020	.00014	.00003
#2	-.00075	-.00159	.0080	.00122	.00272	-.01212	-.00009	.00006	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00026**	**.00035**	**.00034**
Stddev	.00238	.00002	.00046
%RSD	908.60	4.6614	135.49
#1	-.00142	.00034	.00066
#2	.00194	.00036	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2501.4**	**1934.0**	**38000.**	**3987.5**
Stddev	1.1	4.5	222.	2.0
%RSD	.04228	.23402	.58401	.05024
#1	2500.7	1930.8	37843.	3988.9
#2	2502.2	1937.2	38157.	3986.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: MB 480-195717/1-A Acquired: 8/1/2014 15:51:11 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.01278**	**-.00100**	**.00356**	**.00014**	**.00005**	**.04162**	**.00017**	**.00012**
Stddev	.00051	.00115	.00162	.00000	.00000	.00003	.00198	.00014	.00001
%RSD	71.717	8.9957	162.73	.11382	2.9139	64.451	4.7477	81.393	5.5539
#1	-.00035	.01196	-.00214	.00356	.00014	.00003	.04022	.00007	.00012
#2	-.00106	.01359	.00015	.00356	.00015	.00007	.04302	.00027	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00017**	**.00115**	**.00652**	**-.00065**	**.00369**	**.00014**	**-.00006**	**-.03462**
Stddev	.00013	.00024	.00218	.00348	.00002	.00282	.00001	.00012	.00249
%RSD	44.064	146.10	189.95	53.327	2.7891	76.502	6.3757	214.93	7.1949
#1	.00021	.00001	.00268	.00406	-.00067	.00169	.00014	-.00014	-.03286
#2	.00040	-.00034	-.00039	.00898	-.00064	.00569	.00015	.00003	-.03638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00069**	F **.0110**	**-.00029**	**-.00040**	**.01344**	**-.00040**	**.00035**	**-.00001**
Stddev	.00029	.00244	.0033	.00090	.00087	.02938	.00061	.00007	.00004
%RSD	51.796	355.68	29.64	308.98	219.12	218.57	154.26	20.668	255.67
#1	-.00036	-.00242	.0133	.00034	-.00101	.03422	.00004	.00040	.00001
#2	-.00077	.00104	.0087	-.00093	.00022	-.00733	-.00083	.00030	-.00004
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00295**	**.00031**	**.00115**
Stddev	.00200	.00005	.00029
%RSD	67.617	17.026	25.033
#1	.00154	.00027	.00135
#2	.00436	.00034	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2528.3**	**1956.3**	**38756.**	**4031.5**
Stddev	3.3	1.9	1.	43.0
%RSD	.13029	.09810	.00339	1.0665
#1	2530.7	1957.7	38756.	4061.9
#2	2526.0	1955.0	38755.	4001.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195717/2-A Acquired: 8/1/2014 15:54:03 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04986**	**10.287**	**.20427**	**.20447**	**.20418**	**.20137**	**9.9977**	**.20273**	**.20129**
Stddev	.00255	.029	.00107	.00056	.00923	.00158	.0426	.00025	.00020
%RSD	5.1158	.28624	.52402	.27220	4.5228	.78233	.42616	.12478	.10018
#1	.04806	10.308	.20351	.20487	.19765	.20025	9.9676	.20255	.20144
#2	.05167	10.266	.20503	.20408	.21071	.20248	10.028	.20291	.20115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18829**	**.19413**	**9.9879**	**9.6631**	**.19430**	**10.185**	**.19929**	**.20294**	**9.7035**
Stddev	.00975	.00831	.0299	.0341	.00029	.487	.00959	.00026	.0245
%RSD	5.1797	4.2789	.29930	.35328	.14895	4.7836	4.8126	.12945	.25277
#1	.18139	.18826	9.9668	9.6390	.19450	9.8405	.19251	.20312	9.6861
#2	.19518	.20001	10.009	9.6872	.19409	10.529	.20607	.20275	9.7208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19441**	**.20334**	**10.02**	**.20010**	**.20097**	**10.076**	**.19588**	**.19942**	**.18946**
Stddev	.00027	.00023	.01	.00095	.00009	.143	.00096	.00047	.00960
%RSD	.13823	.11445	.1390	.47241	.04423	1.4239	.49146	.23464	5.0690
#1	.19422	.20350	10.01	.19943	.20103	9.9742	.19520	.19909	.18267
#2	.19460	.20318	10.03	.20077	.20090	10.177	.19656	.19976	.19625
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21027**	**.20228**	**.19434**
Stddev	.00255	.01012	.00988
%RSD	1.2119	5.0052	5.0826
#1	.21208	.19512	.18736
#2	.20847	.20944	.20133
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2365.7**	**1926.6**	**38808.**	**4020.0**
Stddev	3.3	3.5	1291.	29.2
%RSD	.13822	.18228	3.3255	.72616
#1	2368.0	1929.1	39721.	4040.6
#2	2363.4	1924.1	37896.	3999.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-1-A Acquired: 8/1/2014 15:56:46 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.25504**	**-.00097**	**.01319**	**.01853**	**.00015**	**9.1471**	**.00012**	**.00175**
Stddev	.00019	.00360	.00136	.00011	.00004	.00000	.0081	.00010	.00003
%RSD	43.549	1.4101	140.21	.83469	.19106	2.7995	.08903	83.678	1.5731
#1	-.00030	.25250	-.00001	.01327	.01851	.00015	9.1413	.00019	.00177
#2	-.00057	.25758	-.00193	.01311	.01856	.00015	9.1528	.00005	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**.00622**	**1.4030**	**1.7000**	**.00044**	**1.2014**	**.05207**	**.00034**	**18.774**
Stddev	.00017	.00011	.0043	.0212	.00041	.0050	.00014	.00016	.021
%RSD	18.099	1.7268	.30929	1.2464	92.936	.41720	.27411	46.517	.11156
#1	.00081	.00629	1.3999	1.7150	.00015	1.1979	.05197	.00046	18.760
#2	.00104	.00614	1.4060	1.6850	.00072	1.2050	.05217	.00023	18.789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00071**	**2.909**	**-.00109**	**.00127**	**3.9277**	**.00019**	**.05169**	**.00007**
Stddev	.00023	.00002	.003	.00025	.00129	.0073	.00034	.00006	.00021
%RSD	14.078	2.3238	.1112	23.046	102.05	.18541	177.21	.11553	292.48
#1	.00176	.00072	2.907	-.00127	.00035	3.9225	.00043	.05165	.00022
#2	.00144	.00070	2.912	-.00091	.00218	3.9328	-.00005	.05173	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00048**	**.00034**	**.01927**
Stddev	.00204	.00011	.00020
%RSD	424.27	32.729	1.0570
#1	-.00192	.00042	.01913
#2	.00096	.00026	.01942
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2406.6**	**1914.3**	**37704.**	**4029.4**
Stddev	7.5	8.6	131.	9.2
%RSD	.31008	.44771	.34686	.22823
#1	2411.8	1920.4	37797.	4035.9
#2	2401.3	1908.3	37612.	4022.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-2-A Acquired: 8/1/2014 15:59:34 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.27036**	**-.00202**	**.01598**	**.02646**	**.00007**	**7.1360**	**.00029**	**.00070**
Stddev	.00033	.01709	.00062	.00010	.00003	.00020	.0251	.00005	.00002
%RSD	687.37	6.3204	30.493	.59944	.09489	308.78	.35210	18.397	2.4452
#1	.00019	.28244	-.00159	.01591	.02644	-.00008	7.1183	.00025	.00072
#2	-.00029	.25828	-.00246	.01605	.02647	.00021	7.1538	.00033	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00670**	**.14567**	**1.6671**	**-.00064**	**.92984**	**.02693**	**.00027**	**28.409**
Stddev	.00005	.00070	.00116	.0172	.00048	.00192	.00013	.00018	.033
%RSD	5.6824	10.458	.79368	1.0337	75.223	.20680	.49767	68.637	.11571
#1	.00087	.00719	.14486	1.6549	-.00030	.92848	.02684	.00040	28.385
#2	.00095	.00620	.14649	1.6793	-.00099	.93120	.02703	.00014	28.432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.00350**	**3.252**	**-.00034**	**-.00206**	**3.9799**	**-.00013**	**.03986**	**.00023**
Stddev	.00021	.00103	.003	.00071	.00174	.0141	.00098	.00032	.00005
%RSD	9.9101	29.469	.1000	208.38	84.562	.35444	753.70	.79581	23.219
#1	.00229	.00277	3.250	-.00084	-.00329	3.9899	-.00082	.03964	.00027
#2	.00199	.00423	3.254	.00016	-.00083	3.9699	.00056	.04009	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00052**	**.00056**	**.02317**
Stddev	.00111	.00002	.00006
%RSD	212.53	3.3236	.27672
#1	.00130	.00057	.02321
#2	-.00026	.00055	.02312
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2392.3**	**1907.6**	**37659.**	**4029.7**
Stddev	3.7	4.2	95.	16.7
%RSD	.15313	.21971	.25308	.41523
#1	2394.9	1910.6	37727.	4041.6
#2	2389.7	1904.7	37592.	4017.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-3-A Acquired: 8/1/2014 16:02:24 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.16528**	**.00021**	**.01839**	**.02946**	**-.00004**	**27.527**	**.00027**	**.00017**
Stddev	.00015	.03220	.00354	.00036	.00011	.00006	.051	.00009	.00005
%RSD	25.097	19.480	1726.5	1.9727	.36669	162.78	.18484	33.876	31.331
#1	-.00050	.14251	-.00230	.01814	.02938	.00001	27.491	.00034	.00021
#2	-.00071	.18805	.00271	.01865	.02954	-.00008	27.563	.00021	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00444**	**.01129**	**3.0211**	**.00058**	**2.4648**	**.03633**	**.00070**	**59.100**
Stddev	.00051	.00037	.00689	.0358	.00062	.0125	.00014	.00016	.250
%RSD	94.682	8.2998	61.002	1.1862	106.62	.50642	.39429	23.361	.42298
#1	.00090	.00418	.00642	2.9958	.00014	2.4560	.03643	.00058	58.923
#2	.00018	.00470	.01616	3.0465	.00101	2.4736	.03623	.00081	59.277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00022**	**2.477**	**.00021**	**-.00149**	**2.8518**	**-.00030**	**.12689**	**.00017**
Stddev	.00027	.00118	.000	.00013	.00412	.0112	.00014	.00069	.00020
%RSD	137.30	529.94	.0091	64.087	276.07	.39313	47.094	.54573	117.73
#1	-.00001	.00106	2.477	.00011	-.00440	2.8439	-.00020	.12640	.00031
#2	-.00039	-.00061	2.477	.00031	.00142	2.8598	-.00040	.12738	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00219**	**.00146**	**.00527**
Stddev	.00116	.00003	.00105
%RSD	53.089	2.0440	19.978
#1	.00137	.00148	.00453
#2	.00301	.00144	.00602
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2293.6**	**1877.2**	**36925.**	**3991.9**
Stddev	2.2	3.6	81.	28.5
%RSD	.09640	.19084	.21912	.71390
#1	2295.2	1879.8	36982.	4012.1
#2	2292.0	1874.7	36868.	3971.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-3-A SD@5 Acquired: 8/1/2014 16:05:13 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.05726**	**-.00277**	**.00632**	**.00637**	**.00004**	**5.4759**	**.00020**	**.00002**
Stddev	.00033	.02491	.00261	.00012	.00002	.00004	.0118	.00000	.00016
%RSD	41.486	43.506	94.195	1.8309	.38564	97.049	.21601	1.6975	1000.6
#1	-.00056	.03964	-.00461	.00640	.00639	.00001	5.4675	.00020	.00013
#2	-.00102	.07487	-.00092	.00624	.00635	.00006	5.4843	.00020	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00190**	**-.00130**	**.59499**	**-.00019**	**.49037**	**.00739**	**.00029**	**11.323**
Stddev	.00009	.00003	.00980	.00443	.00016	.00111	.00013	.00008	.001
%RSD	38.930	1.6354	751.29	.74454	86.039	.22685	1.7279	26.971	.00579
#1	.00029	.00188	-.00823	.59186	-.00031	.49115	.00748	.00034	11.322
#2	.00016	.00192	.00562	.59812	-.00007	.48958	.00730	.00023	11.323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00015**	**.4753**	**-.00085**	**-.00166**	**.56137**	**-.00022**	**.02586**	**-.00006**
Stddev	.00014	.00014	.0057	.00110	.00215	.01853	.00042	.00022	.00013
%RSD	45.620	95.732	1.201	129.21	129.73	3.3001	194.37	.84257	237.99
#1	-.00041	.00005	.4793	-.00007	-.00318	.54827	-.00052	.02570	.00004
#2	-.00021	.00025	.4712	-.00163	-.00014	.57447	.00008	.02601	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00223**	**.00044**	**.00182**
Stddev	.00006	.00019	.00111
%RSD	2.7682	42.017	60.621
#1	.00219	.00057	.00104
#2	.00228	.00031	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2428.8**	**1918.5**	**37631.**	**3960.3**
Stddev	.7	2.3	164.	6.8
%RSD	.03012	.12046	.43481	.17072
#1	2429.3	1916.8	37515.	3955.5
#2	2428.3	1920.1	37747.	3965.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 16:08:05 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50160**	**25.306**	**.49528**	**.48706**	**.49801**	**.49277**	**24.830**	**.49960**	**.49872**	**.49658**	**.48225**	**24.522**	**24.428**	**.48840**
Stddev	.00208	.036	.00031	.00006	.00047	.00185	.025	.00020	.00021	.00058	.00375	.025	.119	.00099
%RSD	.41448	.14141	.06313	.01184	.09431	.37465	.10166	.03972	.04291	.11709	.77701	.10265	.48903	.20341
#1	.50013	25.281	.49550	.48702	.49768	.49146	24.813	.49946	.49887	.49699	.48490	24.504	24.344	.48770
#2	.50307	25.331	.49506	.48710	.49835	.49407	24.848	.49974	.49857	.49617	.47960	24.540	24.513	.48910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.336**	**.50654**	**.50085**	**24.491**	**.49349**	**.50198**	**24.63**	**.49698**	**.50049**	**24.714**	**.50566**	**.50299**	**.49983**	**.50048**
Stddev	.039	.00013	.00007	.107	.00110	.00323	.02	.00049	.00122	.053	.00080	.00126	.00038	.00176
%RSD	.15458	.02480	.01382	.43844	.22194	.64310	.0889	.09765	.24338	.21462	.15853	.25043	.07699	.35240
#1	25.308	.50645	.50090	24.415	.49272	.50426	24.62	.49733	.50135	24.677	.50509	.50210	.49956	.49924
#2	25.363	.50663	.50080	24.567	.49427	.49970	24.65	.49664	.49963	24.752	.50623	.50389	.50010	.50173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50374**	**.50386**
Stddev	.00198	.00522
%RSD	.39316	1.0364
#1	.50234	.50016
#2	.50514	.50755
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2261.0**	**1906.7**	**36758.**	**3967.1**
Stddev	.9	1.6	40.	3.7
%RSD	.03843	.08411	.10942	.09354
#1	2261.6	1907.8	36786.	3969.7
#2	2260.4	1905.5	36729.	3964.4

Sample Name: CCB Acquired: 8/1/2014 16:10:48 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00206**	**-.00053**	**.00036**	**-.00001**	**.00015**	**.00287**	**.00010**	**.00007**	**.00040**	**-.00041**	**-.00250**
Stddev	.00011	.00733	.00193	.00008	.00000	.00009	.00337	.00001	.00000	.00010	.00073	.00020
%RSD	40.383	355.51	363.32	22.777	19.256	56.895	117.39	9.4983	2.1296	26.192	176.80	8.1325
#1	-.00019	.00724	-.00190	.00042	-.00001	.00021	.00525	.00010	.00007	.00032	.00010	-.00264
#2	-.00035	-.00312	.00083	.00030	-.00002	.00009	.00049	.00011	.00007	.00047	-.00093	-.00236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01493**	**-.00123**	**.00295**	**.00011**	**.00011**	**-.03928**	**-.00050**	**-.00029**	**.0072**	**.00077**	**-.00062**	**.03466**
Stddev	.04176	.00042	.00289	.00003	.00010	.00378	.00018	.00009	.0081	.00185	.00457	.01145
%RSD	279.81	34.362	98.178	27.199	85.910	9.6305	34.907	30.253	112.0	240.66	732.08	33.032
#1	-.01461	-.00093	.00090	.00013	.00018	-.04195	-.00038	-.00023	.0129	-.00054	-.00386	.02656
#2	.04446	-.00153	.00499	.00009	.00004	-.03660	-.00063	-.00035	.0015	.00208	.00261	.04276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00012**	**-.00007**	**.00126**	**.00039**	**.00068**
Stddev	.00028	.00005	.00015	.00500	.00031	.00039
%RSD	543.45	36.854	233.40	396.74	79.861	57.413
#1	.00025	.00016	.00004	.00479	.00061	.00041
#2	-.00015	.00009	-.00017	-.00227	.00017	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2505.8**	**1942.3**	**38215.**	**3931.9**
Stddev	3.0	2.5	85.	4.7
%RSD	.11976	.12617	.22158	.12034
#1	2507.9	1944.0	38156.	3928.6
#2	2503.6	1940.6	38275.	3935.3

Sample Name: CCVL-2222402 Acquired: 8/1/2014 16:13:41 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.20728**	**.01174**	**.01946**	**.00229**	**.00218**	**.51274**	**.00224**	**.00406**	**.00406**	**.00932**	**.05070**
Stddev	.00110	.02513	.00086	.00059	.00001	.00013	.00084	.00004	.00004	.00026	.00001	.00032
%RSD	19.285	12.123	7.3567	3.0320	.33764	5.9352	.16480	1.7866	.88383	6.4410	.06874	.63711
#1	.00493	.18951	.01113	.01988	.00229	.00209	.51214	.00221	.00403	.00424	.00933	.05047
#2	.00649	.22505	.01235	.01905	.00228	.00227	.51333	.00227	.00408	.00387	.00932	.05093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49309**	**.02803**	**.20760**	**.00342**	**.01021**	**.93791**	**.00891**	**.01034**	**.2140**	**.01956**	**.02310**	**.51838**
Stddev	.03289	.00039	.00090	.00006	.00001	.00420	.00048	.00095	.0002	.00012	.00293	.02134
%RSD	6.6699	1.3906	.43437	1.6928	.08563	.44821	5.3733	9.1997	.0893	.61559	12.680	4.1173
#1	.46983	.02775	.20696	.00346	.01022	.94088	.00857	.00967	.2139	.01965	.02102	.50329
#2	.51635	.02830	.20823	.00338	.01021	.93493	.00925	.01102	.2141	.01948	.02517	.53347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00924**	**.00512**	**.00471**	**.02435**	**.00526**	**.01056**
Stddev	.00117	.00013	.00061	.00091	.00010	.00044
%RSD	12.623	2.6189	12.955	3.7168	1.9098	4.2019
#1	.01007	.00522	.00514	.02371	.00519	.01025
#2	.00842	.00503	.00428	.02499	.00533	.01088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2506.0**	**1956.7**	**38290.**	**3968.9**
Stddev	5.3	.7	65.	1.3
%RSD	.20976	.03424	.16965	.03207
#1	2502.3	1956.2	38336.	3968.0
#2	2509.7	1957.2	38244.	3969.8

Sample Name: 480-64447-C-3-A PDS Acquired: 8/1/2014 16:16:32 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04993**	**10.359**	**.21644**	**.22240**	**.23459**	**.21258**	**37.503**	**.21322**	**.21367**
Stddev	.00035	.047	.00098	.00013	.00099	.00077	.058	.00001	.00008
%RSD	.70504	.45276	.45390	.05646	.42263	.36377	.15360	.00505	.03809
#1	.05017	10.392	.21574	.22231	.23529	.21204	37.544	.21322	.21361
#2	.04968	10.326	.21713	.22249	.23389	.21313	37.462	.21323	.21373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20653**	**.20996**	**10.412**	**12.826**	**.19634**	**13.152**	**.24474**	**.21005**	**68.269**
Stddev	.00030	.00144	.043	.021	.00079	.008	.00040	.00054	.343
%RSD	.14714	.68587	.41091	.16471	.40467	.06233	.16262	.25702	.50274
#1	.20632	.20894	10.382	12.811	.19578	13.146	.24502	.20967	68.026
#2	.20675	.21098	10.443	12.841	.19690	13.158	.24446	.21043	68.511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20754**	**.21372**	**2.424**	**.20953**	**.21847**	**13.106**	**.20305**	**.32308**	**.20348**
Stddev	.00080	.00237	.001	.00205	.00271	.003	.00063	.00055	.00033
%RSD	.38427	1.1074	.0264	.98073	1.2422	.02399	.31074	.16925	.16404
#1	.20810	.21540	2.424	.20808	.21655	13.104	.20261	.32269	.20325
#2	.20698	.21205	2.423	.21098	.22039	13.108	.20350	.32347	.20372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.22042**	**.22046**	**.21136**
Stddev	.00160	.00088	.00038
%RSD	.72545	.39762	.17962
#1	.21929	.22108	.21109
#2	.22155	.21984	.21163
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2236.0**	**1880.6**	**36873.**	**3981.7**
Stddev	6.3	6.7	108.	10.5
%RSD	.28130	.35640	.29175	.26403
#1	2240.4	1885.4	36797.	3989.2
#2	2231.5	1875.9	36949.	3974.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-3-B MS Acquired: 8/1/2014 16:19:16 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05029**	**10.241**	**.20876**	**.21983**	**.23489**	**.19831**	**36.605**	**.20134**	**.19920**
Stddev	.00040	.036	.00177	.00009	.00051	.00116	.043	.00003	.00034
%RSD	.79882	.34954	.84609	.04031	.21574	.58570	.11792	.01562	.17302
#1	.05001	10.266	.21001	.21977	.23453	.19914	36.575	.20132	.19896
#2	.05058	10.216	.20751	.21989	.23525	.19749	36.636	.20136	.19944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18991**	**.20445**	**9.7077**	**12.733**	**.19575**	**12.573**	**.23373**	**.20032**	**69.366**
Stddev	.00132	.00076	.0559	.043	.00073	.038	.00115	.00007	.392
%RSD	.69398	.37415	.57606	.33794	.37095	.29865	.49237	.03607	.56559
#1	.18898	.20499	9.7472	12.763	.19524	12.546	.23292	.20038	69.643
#2	.19085	.20391	9.6681	12.702	.19626	12.599	.23454	.20027	69.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19453**	**.20012**	F **12.67**	**.20058**	**.20320**	**12.755**	**.19426**	**.32200**	**.19322**
Stddev	.00058	.00033	.01	.00147	.00076	.002	.00230	.00086	.00130
%RSD	.29954	.16604	.0404	.73142	.37435	.01331	1.1834	.26557	.67121
#1	.19412	.19989	12.67	.19955	.20374	12.756	.19264	.32261	.19230
#2	.19494	.20036	12.68	.20162	.20266	12.754	.19589	.32140	.19414
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20384**	**.20710**	**.19469**
Stddev	.00127	.00172	.00135
%RSD	.62260	.83286	.69315
#1	.20473	.20588	.19374
#2	.20294	.20832	.19565
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2234.8**	**1863.8**	**36870.**	**4066.9**
Stddev	7.5	2.3	115.	5.7
%RSD	.33353	.12471	.31080	.13902
#1	2240.0	1865.5	36951.	4062.9
#2	2229.5	1862.2	36789.	4070.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-3-C MSD Acquired: 8/1/2014 16:21:59 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05135**	**10.686**	**.21422**	**.22531**	**.23598**	**.20249**	**36.080**	**.20630**	**.20360**
Stddev	.00041	.158	.00254	.00052	.00021	.00105	.019	.00024	.00092
%RSD	.80316	1.4793	1.1849	.22957	.08868	.51710	.05300	.11698	.45359
#1	.05164	10.798	.21242	.22495	.23613	.20323	36.093	.20613	.20425
#2	.05105	10.574	.21601	.22568	.23583	.20175	36.066	.20647	.20294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19551**	**.20902**	**9.8870**	**13.052**	**.20450**	**12.665**	**.23517**	**.20659**	**68.540**
Stddev	.00205	.00129	.0514	.027	.00098	.068	.00139	.00016	.314
%RSD	1.0503	.61814	.51984	.20643	.47751	.53328	.59079	.07703	.45883
#1	.19697	.20811	9.9233	13.071	.20519	12.713	.23616	.20670	68.763
#2	.19406	.20994	9.8506	13.033	.20381	12.617	.23419	.20647	68.318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19790**	**.20210**	F **12.87**	**.20590**	**.20850**	**12.713**	**.19897**	**.32828**	**.19805**
Stddev	.00073	.00161	.01	.00028	.00077	.069	.00023	.00174	.00103
%RSD	.36791	.79709	.0785	.13661	.36888	.54456	.11667	.52923	.51968
#1	.19841	.20324	12.86	.20609	.20905	12.762	.19881	.32950	.19877
#2	.19738	.20096	12.87	.20570	.20796	12.664	.19913	.32705	.19732
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20734**	**.20718**	**.19808**
Stddev	.00258	.00134	.00258
%RSD	1.2433	.64568	1.3036
#1	.20552	.20813	.19991
#2	.20917	.20624	.19626
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2225.6**	**1855.2**	**37091.**	**4040.1**
Stddev	.6	.3	107.	1.3
%RSD	.02514	.01752	.28930	.03246
#1	2226.0	1855.5	37015.	4039.2
#2	2225.2	1855.0	37167.	4041.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-4-A Acquired: 8/1/2014 16:24:42 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.14860**	**-.00089**	**.01623**	**.04443**	**.00008**	**19.949**	**.00027**	**.00037**
Stddev	.00005	.03079	.00112	.00057	.00017	.00007	.113	.00009	.00015
%RSD	35.841	20.717	125.88	3.5309	.37155	80.202	.56810	32.365	40.393
#1	-.00017	.17037	-.00010	.01664	.04454	.00013	20.029	.00021	.00026
#2	-.00010	.12683	-.00168	.01583	.04431	.00004	19.869	.00033	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.00683**	**.03274**	**3.9923**	**.00024**	**1.9169**	**.04927**	**.00133**	**56.257**
Stddev	.00031	.00056	.00149	.0150	.00006	.0029	.00031	.00009	.143
%RSD	30.973	8.1845	4.5447	.37631	25.451	.15402	.62278	6.4200	.25502
#1	.00078	.00644	.03380	4.0029	.00020	1.9189	.04948	.00139	56.155
#2	.00122	.00723	.03169	3.9817	.00029	1.9148	.04905	.00127	56.358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00132**	**3.093**	**-.00146**	**.00111**	**2.3731**	**-.00079**	**.08710**	**.00001**
Stddev	.00071	.00149	.001	.00088	.01139	.0204	.00017	.00001	.00036
%RSD	111.53	113.09	.0224	60.421	1024.0	.86158	21.477	.01166	2576.0
#1	.00013	.00238	3.093	-.00084	.00917	2.3587	-.00067	.08709	.00027
#2	.00114	.00026	3.094	-.00209	-.00694	2.3876	-.00091	.08711	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00221**	**.00128**	**.00188**
Stddev	.00163	.00001	.00086
%RSD	73.596	.42104	45.553
#1	.00336	.00128	.00128
#2	.00106	.00129	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2308.0**	**1879.1**	**37072.**	**4031.0**
Stddev	3.4	.1	134.	22.5
%RSD	.14535	.00372	.36273	.55938
#1	2310.4	1879.1	36977.	4015.0
#2	2305.7	1879.2	37167.	4046.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64447-C-6-A Acquired: 8/1/2014 16:27:30 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00134**	**.14638**	**.00132**	**.01838**	**.02983**	**.00014**	**27.360**	**.00029**	**.00011**
Stddev	.00017	.01275	.00091	.00022	.00016	.00008	.149	.00013	.00007
%RSD	12.776	8.7105	68.735	1.1751	.55217	56.101	.54364	44.752	68.453
#1	-.00121	.13736	.00068	.01822	.02971	.00020	27.255	.00038	.00016
#2	-.00146	.15539	.00197	.01853	.02994	.00009	27.465	.00020	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.00540**	**.01173**	**3.0929**	**.00027**	**2.4408**	**.03510**	**.00080**	**58.690**
Stddev	.00007	.00002	.00037	.0208	.00061	.0034	.00025	.00016	.639
%RSD	6.5892	.29454	3.1586	.67193	221.42	.14152	.69900	19.687	1.0894
#1	.00118	.00539	.01146	3.1076	-.00016	2.4384	.03492	.00091	58.238
#2	.00107	.00541	.01199	3.0782	.00070	2.4433	.03527	.00069	59.142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00031**	**2.508**	**-.00042**	**.00462**	**2.8537**	**-.00040**	**.12809**	**.00015**
Stddev	.00019	.00007	.004	.00088	.00344	.0575	.00059	.00085	.00016
%RSD	80.571	22.894	.1417	208.34	74.519	2.0167	148.37	.66104	103.81
#1	-.00036	.00036	2.506	-.00104	.00706	2.8130	.00002	.12749	.00026
#2	-.00010	.00026	2.511	.00020	.00219	2.8944	-.00081	.12869	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00135**	**.00146**	**.00372**
Stddev	.00251	.00012	.00059
%RSD	186.25	8.0475	15.886
#1	-.00043	.00137	.00414
#2	.00312	.00154	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2294.4**	**1872.5**	**36976.**	**4027.2**
Stddev	3.1	1.3	258.	16.2
%RSD	.13424	.07154	.69764	.40146
#1	2292.3	1871.6	37158.	4038.6
#2	2296.6	1873.5	36793.	4015.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64391-C-1-A Acquired: 8/1/2014 16:30:20 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.17005**	**-.00182**	**.01671**	**.01552**	**.00001**	**9.5906**	**.00023**	**.00009**
Stddev	.00065	.03225	.00124	.00013	.00000	.00013	.0391	.00004	.00009
%RSD	158.90	18.966	68.288	.76793	.00407	1254.3	.40774	15.183	100.26
#1	.00005	.14725	-.00094	.01680	.01552	-.00008	9.5629	.00026	.00002
#2	-.00087	.19286	-.00269	.01662	.01552	.00010	9.6182	.00021	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00426**	**.00163**	**2.8248**	**-.00075**	**1.1103**	**.04210**	**-.00001**	**6.8465**
Stddev	.00138	.00081	.00130	.0258	.00085	.0102	.00001	.00005	.0399
%RSD	228.48	18.945	80.187	.91358	112.23	.91671	.02744	637.82	.58240
#1	-.00037	.00369	.00255	2.8431	-.00135	1.1175	.04209	-.00005	6.8183
#2	.00158	.00483	.00070	2.8066	-.00016	1.1031	.04211	.00003	6.8747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00017**	**2.876**	**.00023**	**-.00019**	**2.5576**	**-.00017**	**.05095**	**.00020**
Stddev	.00068	.00038	.004	.00138	.00421	.0565	.00026	.00021	.00030
%RSD	138.00	219.86	.1267	595.89	2223.2	2.2084	156.96	.40711	151.67
#1	-.00098	-.00044	2.874	.00120	-.00317	2.5976	-.00035	.05080	.00042
#2	-.00001	.00010	2.879	-.00074	.00279	2.5177	.00002	.05110	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00078**	**.00081**	**.00136**
Stddev	.00186	.00010	.00065
%RSD	237.88	12.825	47.609
#1	-.00210	.00088	.00091
#2	.00053	.00073	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2441.4**	**1913.6**	**37984.**	**4035.4**
Stddev	.0	1.1	45.	17.4
%RSD	.00122	.05924	.11840	.43016
#1	2441.4	1912.8	37952.	4047.6
#2	2441.4	1914.4	38016.	4023.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64391-C-2-A Acquired: 8/1/2014 16:33:10 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.14560**	**-.00201**	**.01229**	**.01451**	**.00012**	**8.6879**	**.00024**	**.00023**
Stddev	.00008	.00116	.00376	.00032	.00004	.00005	.0123	.00005	.00002
%RSD	37.913	.79463	186.66	2.5832	.27597	41.066	.14171	22.360	10.050
#1	-.00028	.14479	.00064	.01206	.01454	.00015	8.6792	.00028	.00024
#2	-.00016	.14642	-.00467	.01251	.01448	.00008	8.6966	.00020	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00276**	**.16244**	**1.2548**	**-.00088**	**1.0520**	**.02305**	**.00016**	**18.553**
Stddev	.00032	.00019	.01004	.0031	.00073	.0010	.00004	.00010	.058
%RSD	50.204	7.0046	6.1784	.24695	82.541	.09436	.15670	62.244	.31195
#1	.00042	.00289	.16953	1.2526	-.00037	1.0527	.02307	.00009	18.512
#2	.00087	.00262	.15534	1.2570	-.00140	1.0513	.02302	.00024	18.594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00049**	**2.796**	**-.00035**	**-.00052**	**2.6363**	**.00009**	**.02940**	**.00006**
Stddev	.00027	.00061	.004	.00023	.00418	.0318	.00014	.00007	.00032
%RSD	35.697	124.40	.1388	66.292	804.65	1.2072	162.89	.22312	511.52
#1	-.00093	.00092	2.794	-.00019	.00243	2.6588	-.00001	.02944	-.00016
#2	-.00056	.00006	2.799	-.00052	-.00347	2.6138	.00019	.02935	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00123**	**.00071**	**.00306**
Stddev	.00166	.00028	.00112
%RSD	134.94	39.620	36.581
#1	.00241	.00091	.00385
#2	.00006	.00051	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2408.2**	**1907.7**	**37648.**	**4038.4**
Stddev	10.6	9.2	12.	16.8
%RSD	.43824	.48343	.03142	.41633
#1	2415.6	1914.2	37640.	4050.3
#2	2400.7	1901.1	37656.	4026.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64391-C-3-A Acquired: 8/1/2014 16:35:59 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.06468**	**.00031**	**.02404**	**.03521**	**.00003**	**19.396**	**.00017**	**.00089**
Stddev	.00018	.02314	.00197	.00032	.00012	.00002	.178	.00001	.00012
%RSD	18.650	35.778	631.70	1.3286	.33975	78.318	.91799	6.8868	13.474
#1	-.00084	.04832	-.00108	.02381	.03512	.00004	19.270	.00016	.00081
#2	-.00110	.08104	.00170	.02426	.03529	.00001	19.522	.00018	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.00409**	**.02673**	**5.7324**	**.00020**	**2.4152**	**.59324**	**.00101**	**21.704**
Stddev	.00044	.00067	.00434	.0584	.00022	.0210	.00350	.00018	.025
%RSD	42.409	16.339	16.241	1.0189	111.41	.86847	.59036	17.736	.11288
#1	.00136	.00456	.02366	5.6911	.00004	2.4004	.59077	.00114	21.687
#2	.00073	.00361	.02979	5.7737	.00036	2.4301	.59572	.00088	21.722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00040**	**3.305**	**-.00068**	**-.00144**	**3.7255**	**-.00053**	**.08595**	**.00049**
Stddev	.00048	.00233	.002	.00134	.00562	.0500	.00000	.00026	.00019
%RSD	747.95	582.08	.0553	197.49	391.80	1.3426	.32886	.30258	38.803
#1	.00027	.00125	3.303	-.00163	.00254	3.6902	-.00053	.08576	.00035
#2	-.00040	-.00205	3.306	.00027	-.00541	3.7609	-.00053	.08613	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00240**	**.00059**	**.00228**
Stddev	.00183	.00029	.00034
%RSD	76.538	48.220	14.779
#1	.00369	.00080	.00251
#2	.00110	.00039	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2370.9**	**1902.7**	**37840.**	**4053.7**
Stddev	4.3	2.5	239.	24.0
%RSD	.18208	.13211	.63282	.59159
#1	2374.0	1904.4	38009.	4070.7
#2	2367.9	1900.9	37671.	4036.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64590-C-1-A Acquired: 8/1/2014 16:38:48 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.08972**	**.00051**	**.02544**	**.04969**	**.00010**	**16.628**	**.00018**	**.00823**
Stddev	.00014	.02164	.00270	.00021	.00003	.00012	.037	.00007	.00006
%RSD	30.080	24.124	530.27	.81873	.05068	115.29	.22426	39.579	.68436
#1	-.00037	.07441	.00241	.02559	.04971	.00019	16.602	.00023	.00819
#2	-.00057	.10502	-.00140	.02530	.04967	.00002	16.655	.00013	.00827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.00157**	**.60906**	**5.8873**	**-.00077**	**1.9365**	**.08056**	**.00130**	**26.301**
Stddev	.00009	.00058	.00672	.0308	.00035	.0020	.00017	.00022	.132
%RSD	4.8764	36.751	1.1035	.52324	45.761	.10252	.20930	16.570	.50021
#1	.00196	.00116	.61382	5.8655	-.00102	1.9351	.08044	.00115	26.208
#2	.00183	.00197	.60431	5.9091	-.00052	1.9379	.08068	.00146	26.394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00151**	**2.902**	**-.00032**	**-.00015**	**3.0478**	**-.00014**	**.06639**	**.00078**
Stddev	.00010	.00003	.004	.00141	.00371	.0329	.00053	.00002	.00011
%RSD	41.893	2.2892	.1259	435.43	2465.8	1.0808	386.65	.03006	14.148
#1	.00030	.00154	2.904	-.00132	-.00278	3.0245	.00024	.06641	.00070
#2	.00016	.00149	2.899	.00067	.00248	3.0711	-.00052	.06638	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00058**	**.00164**	**.00322**
Stddev	.00094	.00011	.00056
%RSD	162.98	6.7737	17.358
#1	-.00009	.00172	.00282
#2	.00124	.00156	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2364.6**	**1896.8**	**37446.**	**4043.4**
Stddev	2.7	.1	148.	19.9
%RSD	.11442	.00525	.39614	.49203
#1	2362.6	1896.9	37551.	4057.5
#2	2366.5	1896.7	37341.	4029.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 16:41:38 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49802**	**25.405**	**.49916**	**.49030**	**.49395**	**.48751**	**24.534**	**.50156**	**.49897**	**.49120**	**.48417**	**24.178**	**24.510**	**.49237**
Stddev	.00143	.069	.00313	.00116	.00002	.00004	.017	.00082	.00017	.00396	.00246	.019	.015	.00035
%RSD	.28620	.27347	.62659	.23644	.00416	.00767	.06831	.16310	.03363	.80580	.50709	.07929	.06106	.07134
#1	.49701	25.454	.49694	.48948	.49393	.48748	24.546	.50098	.49909	.49400	.48244	24.164	24.499	.49262
#2	.49903	25.356	.50137	.49112	.49396	.48754	24.522	.50214	.49886	.48840	.48591	24.191	24.520	.49212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.127**	**.50085**	**.50530**	**24.810**	**.49267**	**.50289**	**24.71**	**.50133**	**.49618**	**24.512**	**.50723**	**.50518**	**.49918**	**.49692**
Stddev	.032	.00051	.00230	.041	.00237	.00027	.02	.00078	.00195	.167	.00045	.00031	.00038	.00288
%RSD	.12592	.10271	.45529	.16368	.48129	.05296	.0985	.15602	.39207	.67981	.08879	.06085	.07561	.57952
#1	25.105	.50049	.50367	24.839	.49434	.50307	24.69	.50188	.49755	24.394	.50755	.50496	.49945	.49895
#2	25.150	.50122	.50692	24.782	.49099	.50270	24.72	.50078	.49480	24.630	.50691	.50540	.49891	.49488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.49664**	**.49090**
Stddev	.00112	.00253
%RSD	.22634	.51540
#1	.49585	.48911
#2	.49744	.49269
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2252.2**	**1892.8**	**37026.**	**3979.6**
Stddev	2.2	6.0	146.	1.9
%RSD	.09672	.31844	.39412	.04797
#1	2253.7	1897.0	37129.	3981.0
#2	2250.7	1888.5	36922.	3978.3

Sample Name: CCB Acquired: 8/1/2014 16:44:22 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.01032**	**.00172**	**.00015**	**-.00002**	**-.00004**	**.00289**	**.00011**	**.00006**	**.00016**	**.00043**	**.00240**
Stddev	.00026	.00752	.00312	.00015	.00000	.00000	.00031	.00003	.00015	.00004	.00049	.00754
%RSD	1458.6	72.808	181.04	98.219	22.856	9.5539	10.624	22.747	271.80	25.458	114.50	313.90
#1	.00016	-.00501	.00393	.00025	-.00002	-.00004	.00268	.00009	-.00005	.00019	.00008	-.00293
#2	-.00020	-.01564	-.00048	.00005	-.00001	-.00005	.00311	.00013	.00017	.00013	.00077	.00773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01850**	**-.00003**	**-.00224**	**.00007**	**.00002**	**-.03259**	**-.00033**	**.00008**	**.0068**	**-.00050**	**.00244**	**.01201**
Stddev	.01261	.00071	.00202	.00001	.00024	.00146	.00038	.00209	.0018	.00040	.00036	.00689
%RSD	68.181	2080.2	89.954	15.254	1457.9	4.4875	115.32	2740.0	25.66	79.372	14.627	57.342
#1	-.02742	.00046	-.00082	.00008	-.00015	-.03155	-.00006	-.00140	.0056	-.00022	.00219	.00714
#2	-.00958	-.00053	-.00367	.00007	.00019	-.03362	-.00060	.00155	.0081	-.00078	.00269	.01689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00010**	**-.00037**	**.00257**	**.00024**	**.00093**
Stddev	.00021	.00006	.00013	.00333	.00004	.00018
%RSD	295.40	58.499	35.053	129.64	16.165	18.828
#1	-.00022	.00006	-.00046	.00021	.00027	.00106
#2	.00008	.00014	-.00028	.00492	.00021	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2515.2**	**1947.8**	**38147.**	**3997.5**
Stddev	2.2	3.5	176.	15.0
%RSD	.08912	.18103	.46082	.37559
#1	2513.6	1950.3	38023.	3986.9
#2	2516.8	1945.3	38272.	4008.1

Sample Name: CCVL-2222402 Acquired: 8/1/2014 16:47:15 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00616**	**.20592**	**.01354**	**.02019**	**.00229**	**.00214**	**.52185**	**.00213**	**.00408**	**.00392**	**.00897**	**.05269**
Stddev	.00015	.00711	.00109	.00032	.00003	.00003	.01839	.00008	.00025	.00005	.00061	.00239
%RSD	2.4912	3.4522	8.0203	1.5954	1.5191	1.6182	3.5240	3.5971	6.1028	1.3344	6.7711	4.5337
#1	.00627	.21094	.01431	.02042	.00232	.00217	.53485	.00207	.00391	.00396	.00854	.05100
#2	.00605	.20089	.01277	.01996	.00227	.00212	.50884	.00218	.00426	.00389	.00940	.05438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49646**	**.02792**	**.21294**	**.00346**	**.01029**	**.94929**	**.00907**	**.01122**	**.2153**	**.02125**	**.02259**	**.51185**
Stddev	.00248	.00178	.00217	.00004	.00027	.03448	.00021	.00100	.0004	.00144	.00388	.04158
%RSD	.50011	6.3876	1.0197	1.0359	2.6172	3.6318	2.2776	8.8839	.1798	6.8001	17.186	8.1227
#1	.49821	.02918	.21448	.00349	.01048	.97367	.00922	.01192	.2150	.02227	.02533	.54125
#2	.49470	.02666	.21141	.00344	.01010	.92491	.00893	.01051	.2155	.02023	.01984	.48245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00977**	**.00525**	**.00479**	**.02255**	**.00492**	**.01046**
Stddev	.00034	.00017	.00009	.00082	.00006	.00004
%RSD	3.5230	3.2245	1.8754	3.6487	1.3071	.41769
#1	.00953	.00537	.00485	.02313	.00487	.01049
#2	.01002	.00513	.00473	.02197	.00496	.01043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2494.9**	**1944.5**	**38478.**	**3941.3**
Stddev	7.7	1.2	180.	98.4
%RSD	.30791	.06222	.46797	2.4963
#1	2500.3	1945.4	38350.	3871.7
#2	2489.4	1943.7	38605.	4010.9

Sample Name: 480-64590-C-2-A Acquired: 8/1/2014 16:50:06 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.03395**	**-.00055**	**.10147**	**.12951**	**-.00002**	**111.72**	**.00308**	**.00006**
Stddev	.00074	.00335	.00306	.00044	.00038	.00004	.17	.00006	.00001
%RSD	373.01	9.8736	554.43	.43298	.29681	154.96	.15399	2.0150	16.568
#1	-.00072	.03158	-.00272	.10179	.12924	-.00005	111.59	.00313	.00007
#2	.00032	.03632	.00161	.10116	.12978	.00000	111.84	.00304	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00464**	**.07227**	**10.765**	**.04213**	**6.3109**	**.01030**	**.00055**	**131.40**
Stddev	.00023	.00135	.00272	.014	.00007	.0031	.00011	.00008	.53
%RSD	19.262	29.016	3.7684	.12946	.17645	.04861	1.0276	14.801	.40377
#1	.00138	.00559	.07420	10.775	.04208	6.3087	.01022	.00050	131.02
#2	.00105	.00369	.07035	10.755	.04218	6.3130	.01037	.00061	131.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00871**	**.00164**	F **21.28**	**.00059**	**.00595**	**9.7504**	**-.00009**	**.67264**	**.00031**
Stddev	.00005	.00125	.04	.00002	.00012	.0398	.00014	.00043	.00017
%RSD	.54510	76.492	.1727	3.0134	2.0856	.40803	164.33	.06356	54.813
#1	.00868	.00075	21.26	.00061	.00586	9.7222	.00001	.67234	.00019
#2	.00875	.00252	21.31	.00058	.00604	9.7785	-.00019	.67294	.00044
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00501**	**.00035**	**1.2696**
Stddev	.00016	.00010	.0005
%RSD	3.1392	29.295	.04279
#1	.00490	.00028	1.2692
#2	.00512	.00042	1.2700
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2135.9**	**1800.5**	**35443.**	**3981.8**
Stddev	6.2	1.9	154.	23.8
%RSD	.29197	.10361	.43551	.59820
#1	2140.3	1801.8	35552.	3998.7
#2	2131.4	1799.1	35333.	3965.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64590-C-3-A Acquired: 8/1/2014 16:52:53 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02145**	**-.00265**	**.01996**	**.04691**	**.00005**	**21.116**	**.00012**	**.00027**
Stddev	.00047	.02371	.00281	.00005	.00027	.00012	.067	.00002	.00006
%RSD	263.21	110.54	105.73	.23268	.56623	231.45	.31963	20.988	21.408
#1	-.00051	.00468	-.00464	.01999	.04673	.00014	21.068	.00013	.00031
#2	.00015	.03821	-.00067	.01993	.04710	-.00003	21.164	.00010	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00140**	**.00891**	**3.9367**	**-.00036**	**1.7910**	**.00608**	**.00014**	**82.763**
Stddev	.00048	.00035	.00248	.0104	.00068	.0098	.00009	.00001	.176
%RSD	74.347	25.285	27.807	.26291	191.44	.54839	1.4989	6.8777	.21217
#1	.00099	.00115	.01066	3.9293	-.00084	1.7840	.00601	.00015	82.639
#2	.00031	.00165	.00716	3.9440	.00013	1.7979	.00614	.00014	82.887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00061**	**5.536**	**-.00041**	**-.00425**	**2.3167**	**-.00059**	**.11338**	**.00007**
Stddev	.00017	.00180	.016	.00112	.00050	.0005	.00019	.00025	.00037
%RSD	46.961	297.09	.2896	270.74	11.832	.02180	32.898	.22364	495.40
#1	-.00048	.00188	5.525	.00038	-.00461	2.3171	-.00073	.11320	.00034
#2	-.00024	-.00067	5.547	-.00120	-.00390	2.3164	-.00045	.11356	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00119**	**.00022**	**.00146**
Stddev	.00397	.00008	.00046
%RSD	334.32	36.318	31.891
#1	.00400	.00016	.00113
#2	-.00162	.00027	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2270.5**	**1868.6**	**36587.**	**4011.7**
Stddev	2.3	6.4	345.	15.9
%RSD	.09966	.34323	.94303	.39726
#1	2272.1	1873.1	36831.	4023.0
#2	2268.9	1864.0	36343.	4000.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64590-C-4-A Acquired: 8/1/2014 16:55:42 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.09049**	**-.00058**	**.02943**	**.05273**	**.00008**	**57.925**	**.00018**	**.00025**
Stddev	.00135	.00787	.00121	.00012	.00001	.00008	.083	.00008	.00002
%RSD	284.31	8.6981	207.73	.41513	.02357	94.619	.14262	44.018	6.8206
#1	.00048	.08492	-.00144	.02935	.05272	.00013	57.867	.00012	.00026
#2	-.00143	.09605	.00027	.02952	.05274	.00003	57.984	.00023	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**.00213**	**.15936**	**6.5110**	**.00082**	**3.7215**	**.14592**	**.00015**	**209.73**
Stddev	.00014	.00040	.00509	.0352	.00012	.0242	.00046	.00034	1.13
%RSD	10.563	18.701	3.1941	.54144	14.498	.65116	.31187	230.64	.54086
#1	.00121	.00241	.16296	6.4861	.00091	3.7043	.14559	-.00009	208.92
#2	.00140	.00185	.15576	6.5359	.00074	3.7386	.14624	.00039	210.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00126**	F **9.040**	**.00081**	**.00167**	**3.2741**	**.00053**	**.35217**	**.00041**
Stddev	.00005	.00005	.005	.00089	.00019	.0384	.00018	.00086	.00024
%RSD	79.297	3.7536	.0540	110.77	11.646	1.1712	33.566	.24408	58.882
#1	.00010	.00122	9.043	.00017	.00154	3.2470	.00040	.35156	.00058
#2	.00003	.00129	9.037	.00144	.00181	3.3013	.00065	.35277	.00024
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00045**	**.00066**	**.00285**
Stddev	.00253	.00007	.00052
%RSD	563.53	10.476	18.407
#1	-.00134	.00071	.00322
#2	.00223	.00061	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2118.7**	**1817.5**	**35205.**	**3947.3**
Stddev	2.9	3.7	80.	7.3
%RSD	.13595	.20175	.22603	.18544
#1	2120.7	1820.1	35261.	3952.5
#2	2116.6	1814.9	35148.	3942.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64590-C-5-A Acquired: 8/1/2014 16:58:35 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.21354**	**-.00180**	**.02031**	**.02507**	**.00014**	**24.451**	**.00015**	**.00016**
Stddev	.00010	.00436	.00003	.00003	.00002	.00009	.115	.00007	.00006
%RSD	9.9118	2.0416	1.4039	.16127	.08814	67.635	.47110	45.533	35.445
#1	-.00113	.21045	-.00181	.02034	.02505	.00007	24.532	.00020	.00020
#2	-.00098	.21662	-.00178	.02029	.02508	.00020	24.369	.00010	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00124**	**.91238**	**5.0555**	**-.00019**	**2.0041**	**.22077**	**.00003**	**68.316**
Stddev	.00041	.00045	.00722	.0148	.00027	.0094	.00049	.00027	.383
%RSD	32.592	36.334	.79158	.29275	145.64	.46632	.22268	943.19	.56008
#1	.00155	.00155	.91749	5.0660	.00001	2.0107	.22112	.00022	68.587
#2	.00097	.00092	.90727	5.0450	-.00038	1.9974	.22043	-.00016	68.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00125**	**1.088**	**-.00008**	**.00194**	**3.8253**	**-.00018**	**.16192**	**.00053**
Stddev	.00001	.00141	.002	.00001	.00227	.0087	.00040	.00017	.00045
%RSD	3.0672	112.87	.1520	11.218	117.32	.22851	222.41	.10381	84.426
#1	-.00039	.00225	1.089	-.00009	.00354	3.8314	-.00046	.16204	.00084
#2	-.00041	.00025	1.087	-.00008	.00033	3.8191	.00010	.16180	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00027**	**.00196**	**.00136**
Stddev	.00030	.00009	.00005
%RSD	113.93	4.4707	3.5791
#1	-.00005	.00190	.00133
#2	-.00048	.00203	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2279.2**	**1875.4**	**36531.**	**3989.9**
Stddev	2.7	1.5	53.	6.6
%RSD	.11776	.08050	.14557	.16555
#1	2281.1	1876.4	36569.	3985.2
#2	2277.4	1874.3	36494.	3994.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64590-C-6-A Acquired: 8/1/2014 17:01:24 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.48566**	**.00621**	**.06754**	**.00737**	**.00015**	**11.224**	**.00026**	**.00082**
Stddev	.00002	.00678	.00442	.00038	.00001	.00009	.033	.00004	.00007
%RSD	7.2047	1.3951	71.232	.56055	.07633	64.500	.29281	13.693	8.9160
#1	-.00030	.49045	.00308	.06727	.00737	.00008	11.201	.00023	.00087
#2	-.00033	.48087	.00933	.06781	.00736	.00021	11.247	.00028	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**.00360**	**2.8782**	**3.5480**	**.00045**	**1.2601**	**.08307**	**.00033**	**105.69**
Stddev	.00091	.00069	.0063	.0039	.00002	.0008	.00034	.00013	.02
%RSD	21.693	19.289	.22012	.10992	4.6472	.06563	.40334	40.278	.01566
#1	.00483	.00311	2.8738	3.5507	.00047	1.2607	.08330	.00043	105.70
#2	.00355	.00409	2.8827	3.5452	.00044	1.2595	.08283	.00024	105.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00857**	**2.109**	**.00113**	**.00265**	**4.0741**	**-.00009**	**.06768**	**.00404**
Stddev	.00013	.00186	.002	.00138	.00250	.0241	.00048	.00033	.00020
%RSD	14.888	21.703	.0706	122.29	94.480	.59197	522.67	.48846	5.0124
#1	.00098	.00989	2.108	.00015	.00441	4.0912	.00025	.06792	.00390
#2	.00080	.00726	2.110	.00210	.00088	4.0571	-.00043	.06745	.00418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00123**	**.00521**	**.00561**
Stddev	.00248	.00032	.00011
%RSD	202.12	6.1617	1.9671
#1	.00299	.00498	.00568
#2	-.00053	.00543	.00553
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2241.8**	**1859.5**	**36237.**	**4006.8**
Stddev	2.7	3.6	8.	3.7
%RSD	.12010	.19292	.02120	.09139
#1	2243.7	1862.0	36231.	4009.4
#2	2239.9	1856.9	36242.	4004.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64590-C-7-A Acquired: 8/1/2014 17:04:12 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.04764**	**-.00277**	**.00439**	**.00019**	**.00018**	**.04990**	**.00002**	**.00002**
Stddev	.00029	.01210	.00345	.00017	.00001	.00009	.00286	.00004	.00011
%RSD	60.046	25.406	124.40	3.8798	7.7203	46.722	5.7219	190.05	435.17
#1	-.00070	.05620	-.00521	.00451	.00020	.00012	.05192	.00005	.00010
#2	-.00028	.03908	-.00033	.00427	.00018	.00024	.04788	-.00001	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00032**	**.01673**	**.00411**	**-.00087**	**.00401**	**.00092**	**-.00000**	**-.00117**
Stddev	.00009	.00144	.00469	.01029	.00003	.00351	.00005	.00038	.00314
%RSD	17.486	451.56	28.061	250.39	3.7558	87.733	5.8226	11466.	269.52
#1	.00056	-.00070	.02005	-.00317	-.00089	.00152	.00096	.00026	.00106
#2	.00044	.00133	.01341	.01138	-.00085	.00649	.00089	-.00027	-.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00258**	**.0107**	**-.00072**	**-.00248**	**-.00463**	**.00003**	**.00029**	**-.00001**
Stddev	.00035	.00162	.0000	.00106	.00430	.00048	.00039	.00010	.00020
%RSD	118.57	62.715	.0449	148.32	173.38	10.375	1435.9	35.143	1982.7
#1	-.00005	.00144	.0107	-.00147	.00056	-.00429	.00030	.00036	-.00015
#2	-.00054	.00373	.0106	.00003	-.00552	-.00497	-.00025	.00021	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00156**	**.00003**	**.00307**
Stddev	.00084	.00017	.00039
%RSD	53.835	501.72	12.574
#1	.00215	-.00008	.00279
#2	.00096	.00015	.00334
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2517.7**	**1952.3**	**38558.**	**4031.1**
Stddev	3.6	5.5	6.	23.0
%RSD	.14146	.28364	.01497	.57141
#1	2520.2	1956.2	38554.	4047.4
#2	2515.2	1948.4	38562.	4014.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64507-C-1-A Acquired: 8/1/2014 17:07:05 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.03718**	**-.00158**	**.02600**	**.06086**	**.00013**	**23.489**	**.00028**	**.00028**
Stddev	.00033	.00560	.00174	.00019	.00020	.00009	.111	.00005	.00000
%RSD	334.75	15.066	110.33	.71224	.33105	67.854	.47318	16.503	.57090
#1	.00014	.03322	-.00281	.02587	.06072	.00007	23.568	.00025	.00028
#2	-.00034	.04114	-.00035	.02613	.06100	.00020	23.411	.00031	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**.00194**	**1.8425**	**5.3421**	**.00019**	**2.3816**	**.22302**	**.00116**	**70.049**
Stddev	.00044	.00013	.0011	.0194	.00081	.0077	.00008	.00038	.228
%RSD	12.207	6.5655	.05879	.36302	424.63	.32388	.03389	32.602	.32519
#1	.00395	.00203	1.8417	5.3284	.00077	2.3762	.22307	.00142	70.210
#2	.00332	.00185	1.8433	5.3559	-.00038	2.3871	.22296	.00089	69.888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00194**	**3.533**	**-.00002**	**.00528**	**3.2665**	**-.00019**	**.14508**	**.00046**
Stddev	.00040	.00004	.003	.00021	.00041	.0360	.00036	.00020	.00014
%RSD	219.39	2.2174	.0971	1139.0	7.7772	1.1024	189.92	.13490	30.699
#1	.00046	.00197	3.531	.00013	.00499	3.2920	.00006	.14494	.00056
#2	-.00010	.00191	3.536	-.00016	.00557	3.2411	-.00044	.14522	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00267**	**.00085**	**.00395**
Stddev	.00392	.00007	.00007
%RSD	146.54	8.0991	1.6964
#1	-.00010	.00090	.00399
#2	.00544	.00080	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2269.7**	**1872.1**	**36579.**	**3990.1**
Stddev	.1	2.0	168.	7.3
%RSD	.00385	.10571	.45849	.18308
#1	2269.8	1873.5	36697.	3984.9
#2	2269.7	1870.7	36460.	3995.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64507-C-2-A Acquired: 8/1/2014 17:09:53 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.13339**	**.00201**	**.02288**	**.05474**	**.00015**	**22.038**	**.00017**	**.00005**
Stddev	.00001	.02426	.00108	.00015	.00004	.00001	.165	.00001	.00007
%RSD	3.1313	18.189	53.595	.67568	.07201	4.7343	.75093	4.7151	154.65
#1	-.00033	.15055	.00277	.02277	.05476	.00015	22.155	.00016	.00010
#2	-.00034	.11624	.00125	.02299	.05471	.00016	21.921	.00017	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**.00096**	**3.0434**	**3.9298**	**.00023**	**2.3614**	**.21465**	**.00000**	**91.682**
Stddev	.00050	.00076	.0232	.0079	.00003	.0061	.00030	.00002	.525
%RSD	33.825	79.299	.76086	.19992	13.966	.25745	.13944	469.85	.57282
#1	.00181	.00042	3.0270	3.9354	.00021	2.3657	.21486	.00002	91.310
#2	.00111	.00150	3.0597	3.9243	.00025	2.3571	.21444	-.00001	92.053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00450**	**1.991**	**-.00035**	**.00334**	**3.6118**	**.00038**	**.13385**	**.00048**
Stddev	.00024	.00055	.006	.00065	.00526	.0068	.00080	.00067	.00011
%RSD	26.980	12.152	.2868	187.77	157.40	.18880	210.90	.50277	23.701
#1	.00106	.00411	1.987	-.00081	.00706	3.6070	.00094	.13337	.00040
#2	.00072	.00489	1.995	.00011	-.00038	3.6166	-.00019	.13432	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00122**	**.00143**	**.00482**
Stddev	.00077	.00033	.00052
%RSD	62.870	22.806	10.727
#1	.00177	.00166	.00445
#2	.00068	.00120	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2250.6**	**1868.6**	**36469.**	**3979.9**
Stddev	.8	.4	247.	21.1
%RSD	.03758	.02137	.67692	.53125
#1	2250.0	1868.9	36295.	3964.9
#2	2251.2	1868.4	36644.	3994.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 17:12:42 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00141**	**.00394**	**-.00028**	**-.00032**	**-.00002**	**.00009**	**.00079**	**.00013**	**.00002**
Stddev	.00097	.00807	.00129	.00000	.00000	.00004	.00028	.00014	.00018
%RSD	68.371	205.09	459.70	1.3245	23.660	43.282	35.926	109.97	709.65
#1	-.00073	.00964	-.00119	-.00032	-.00001	.00011	.00098	.00022	-.00010
#2	-.00210	-.00177	.00063	-.00033	-.00002	.00006	.00059	.00003	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00055**	**-.00537**	**-.00603**	**-.00083**	**-.00024**	**.00013**	**-.00003**	**-.02160**
Stddev	.00009	.00008	.00114	.00612	.00107	.00129	.00008	.00002	.00123
%RSD	27.109	15.434	21.275	101.53	129.50	542.59	59.043	76.048	5.6961
#1	.00039	.00049	-.00617	-.01036	-.00007	.00067	.00019	-.00001	-.02073
#2	.00027	.00061	-.00456	-.00170	-.00159	-.00115	.00008	-.00004	-.02247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00000**	**.0305**	**.00115**	**-.00574**	**.01405**	**-.00009**	**.00011**	**-.00020**
Stddev	.00091	.00019	.0043	.00021	.00323	.01322	.00041	.00002	.00018
%RSD	160.85	121920.	14.13	18.282	56.196	94.092	474.13	20.552	89.870
#1	-.00121	.00013	.0335	.00130	-.00346	.00470	-.00037	.00012	-.00007
#2	.00008	-.00013	.0275	.00101	-.00802	.02340	.00020	.00009	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00084**	**.00011**	**.00056**
Stddev	.00219	.00018	.00045
%RSD	260.65	162.28	80.608
#1	.00238	-.00002	.00088
#2	-.00071	.00023	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2514.6**	**1950.4**	**38251.**	**3978.3**
Stddev	3.6	3.4	28.	15.0
%RSD	.14181	.17593	.07322	.37711
#1	2512.0	1948.0	38231.	3988.9
#2	2517.1	1952.9	38271.	3967.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 17:15:36 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50673**	**25.597**	**.50800**	**.49440**	**.50110**	**.49452**	**25.025**	**.50984**	**.50921**	**.50333**	**.48013**	**24.600**	**24.781**	**.49385**
Stddev	.00019	.111	.00157	.00072	.00182	.00218	.045	.00025	.00131	.00279	.00211	.019	.063	.00155
%RSD	.03682	.43251	.30964	.14584	.36307	.44078	.18116	.04928	.25715	.55488	.43959	.07589	.25275	.31468
#1	.50686	25.518	.50912	.49389	.50239	.49606	24.993	.51001	.51014	.50135	.48163	24.613	24.825	.49495
#2	.50660	25.675	.50689	.49491	.49982	.49298	25.057	.50966	.50828	.50530	.47864	24.587	24.737	.49275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.551**	**.50816**	**.51173**	**24.995**	**.49833**	**.51270**	**24.90**	**.50418**	**.50166**	**24.977**	**.51428**	**.51023**	**.50824**	**.50206**
Stddev	.075	.00184	.00095	.033	.00007	.00140	.08	.00024	.00468	.024	.00236	.00144	.00045	.00155
%RSD	.29490	.36262	.18491	.13392	.01414	.27267	.3268	.04695	.93340	.09417	.45847	.28138	.08859	.30856
#1	25.498	.50685	.51240	25.019	.49838	.51369	24.84	.50402	.49835	24.994	.51594	.51125	.50792	.50097
#2	25.604	.50946	.51106	24.971	.49828	.51171	24.96	.50435	.50498	24.961	.51261	.50922	.50856	.50316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50581**	**.50684**
Stddev	.00093	.00275
%RSD	.18447	.54265
#1	.50515	.50489
#2	.50647	.50878
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2247.2**	**1897.7**	**36796.**	**3975.3**
Stddev	2.9	1.0	175.	6.0
%RSD	.12835	.05324	.47542	.15097
#1	2245.2	1898.4	36920.	3979.6
#2	2249.3	1897.0	36672.	3971.1

Sample Name: CCB Acquired: 8/1/2014 17:18:19 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00189**	**-.00034**	**.00037**	**-.00002**	**.00001**	**-.00361**	**.00016**	**.00002**	**.00047**	**.00020**	**-.00216**
Stddev	.00013	.00341	.00274	.00016	.00001	.00012	.00299	.00011	.00002	.00005	.00011	.00136
%RSD	45.917	180.55	796.20	42.633	53.716	1511.9	82.933	64.118	111.25	9.7317	56.877	63.276
#1	.00038	.00430	.00159	.00026	-.00003	-.00007	-.00149	.00009	.00003	.00044	.00012	-.00119
#2	.00019	-.00052	-.00228	.00048	-.00001	.00009	-.00572	.00024	.00000	.00050	.00028	-.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02006**	**-.00039**	**-.00034**	**.00003**	**.00006**	**-.03820**	**-.00083**	**-.00088**	**.0030**	**-.00042**	**.00151**	**.00788**
Stddev	.01974	.00057	.00066	.00001	.00002	.00757	.00031	.00007	.0006	.00147	.00223	.01757
%RSD	98.399	147.06	194.27	44.100	39.161	19.816	37.750	7.8331	18.89	350.26	147.20	223.06
#1	.00610	.00002	.00013	.00004	.00008	-.03285	-.00105	-.00084	.0026	-.00146	.00309	.02030
#2	.03402	-.00079	-.00080	.00002	.00004	-.04355	-.00061	-.00093	.0035	.00062	-.00006	-.00455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00009**	**.00019**	**.00063**	**.00026**	**.00030**
Stddev	.00025	.00005	.00023	.00041	.00017	.00066
%RSD	1167.1	50.092	123.64	64.156	64.602	221.26
#1	.00016	.00006	.00035	.00035	.00037	-.00017
#2	-.00020	.00012	.00002	.00092	.00014	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2507.3**	**1944.5**	**38083.**	**3970.4**
Stddev	7.8	.6	325.	19.9
%RSD	.31049	.03029	.85362	.50089
#1	2501.8	1944.0	37853.	3956.4
#2	2512.8	1944.9	38313.	3984.5

Sample Name: CCVL-2222402 Acquired: 8/1/2014 17:21:13 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00591**	**.20009**	**.01347**	**.01954**	**.00229**	**.00231**	**.50511**	**.00227**	**.00410**	**.00440**	**.00895**	**.04779**
Stddev	.00004	.00632	.00373	.00028	.00001	.00009	.00357	.00006	.00003	.00069	.00032	.00303
%RSD	.65252	3.1595	27.723	1.4257	.64977	3.6826	.70693	2.6301	.71605	15.687	3.6035	6.3445
#1	.00588	.19562	.01611	.01973	.00230	.00225	.50258	.00223	.00412	.00391	.00918	.04994
#2	.00594	.20456	.01083	.01934	.00228	.00237	.50763	.00231	.00407	.00489	.00872	.04565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49655**	**.02745**	**.20828**	**.00337**	**.01046**	**.93284**	**.00900**	**.01107**	**.2139**	**.02042**	**.02762**	**.51363**
Stddev	.00590	.00006	.00353	.00011	.00015	.00673	.00033	.00017	.0025	.00070	.00608	.02809
%RSD	1.1890	.23330	1.6945	3.4009	1.4508	.72115	3.7037	1.5690	1.183	3.4393	22.025	5.4686
#1	.50073	.02741	.20579	.00345	.01056	.93760	.00877	.01119	.2121	.02092	.03193	.53349
#2	.49238	.02750	.21078	.00329	.01035	.92808	.00924	.01095	.2157	.01993	.02332	.49377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00512**	**.00515**	**.02114**	**.00530**	**.01092**
Stddev	.00009	.00000	.00022	.00104	.00007	.00002
%RSD	.90918	.03248	4.1727	4.9354	1.3831	.16602
#1	.00931	.00512	.00531	.02040	.00525	.01091
#2	.00943	.00512	.00500	.02188	.00535	.01093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2495.4**	**1950.3**	**38506.**	**3999.9**
Stddev	3.1	2.2	85.	36.7
%RSD	.12613	.11049	.22196	.91824
#1	2497.6	1951.8	38567.	4025.8
#2	2493.1	1948.7	38446.	3973.9

Sample Name: MB 480-195814/1-A Acquired: 8/1/2014 17:24:04 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.02397**	**-.00194**	**.00609**	**.00023**	**.00005**	**.07192**	**.00011**	**.00005**
Stddev	.00036	.03318	.00013	.00006	.00000	.00016	.00375	.00012	.00003
%RSD	113.27	138.43	6.6211	.97827	1.5326	341.14	5.2124	106.22	63.374
#1	.00006	.04743	-.00203	.00614	.00022	-.00007	.07457	.00019	.00003
#2	.00058	.00051	-.00185	.00605	.00023	.00016	.06926	.00003	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00071**	**.00276**	**-.01431**	**-.00059**	**-.00086**	**.00009**	**-.00002**	**-.03339**
Stddev	.00028	.00075	.00148	.00074	.00015	.00333	.00001	.00025	.00440
%RSD	108.60	105.90	53.719	5.1424	25.897	386.78	11.050	1242.1	13.178
#1	.00006	.00018	.00171	-.01483	-.00049	-.00322	.00008	.00016	-.03650
#2	.00046	.00124	.00381	-.01379	-.00070	.00149	.00010	-.00020	-.03028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00090**	F **.0051**	**-.00163**	**.00210**	**-.00200**	**-.00035**	**.00048**	**-.00024**
Stddev	.00016	.00031	.0015	.00044	.00233	.01768	.00005	.00011	.00005
%RSD	39.800	34.719	30.20	27.094	110.66	884.91	14.265	22.828	21.488
#1	-.00053	.00068	.0040	-.00194	.00046	.01050	-.00039	.00056	-.00020
#2	-.00030	.00112	.0062	-.00132	.00375	-.01450	-.00032	.00040	-.00028
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00036**	**.00012**	**.00145**
Stddev	.00096	.00013	.00043
%RSD	266.00	101.49	29.226
#1	.00032	.00003	.00115
#2	-.00104	.00021	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2530.4**	**1956.5**	**38804.**	**4063.5**
Stddev	6.6	2.6	67.	37.5
%RSD	.26117	.13542	.17200	.92213
#1	2535.0	1958.4	38757.	4090.0
#2	2525.7	1954.7	38852.	4037.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195814/2-A Acquired: 8/1/2014 17:26:55 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05191**	**10.396**	**.20630**	**.20677**	**.21534**	**.20087**	**9.9680**	**.20507**	**.20327**
Stddev	.00009	.056	.00104	.00010	.00067	.00010	.1171	.00018	.00017
%RSD	.16552	.53460	.50324	.05068	.31067	.04781	1.1744	.08749	.08337
#1	.05185	10.435	.20557	.20670	.21581	.20094	10.051	.20520	.20339
#2	.05197	10.357	.20703	.20684	.21487	.20080	9.8852	.20494	.20315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19858**	**.19873**	**9.9663**	**9.7224**	**.19750**	**10.589**	**.20623**	**.20480**	**9.8991**
Stddev	.00109	.00141	.0242	.0086	.00083	.013	.00014	.00047	.0223
%RSD	.54728	.71133	.24260	.08899	.42260	.11912	.06664	.22845	.22577
#1	.19935	.19773	9.9834	9.7163	.19691	10.598	.20632	.20447	9.8833
#2	.19781	.19973	9.9492	9.7286	.19809	10.580	.20613	.20514	9.9149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19522**	**.20571**	**10.08**	**.20204**	**.20386**	**10.107**	**.19663**	**.20158**	**.19823**
Stddev	.00095	.00008	.02	.00133	.00245	.004	.00074	.00076	.00013
%RSD	.48762	.04010	.1759	.65779	1.2023	.03652	.37398	.37769	.06640
#1	.19589	.20565	10.10	.20110	.20559	10.110	.19611	.20104	.19814
#2	.19455	.20576	10.07	.20298	.20213	10.105	.19715	.20212	.19833
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20701**	**.21063**	**.20130**
Stddev	.00014	.00085	.00128
%RSD	.06808	.40486	.63346
#1	.20691	.21123	.20220
#2	.20711	.21002	.20040
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2362.9**	**1920.7**	**37692.**	**4058.0**
Stddev	2.1	2.8	113.	33.6
%RSD	.08766	.14559	.30044	.82718
#1	2364.3	1922.7	37611.	4034.2
#2	2361.4	1918.7	37772.	4081.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64676-E-1-A Acquired: 8/1/2014 17:29:38 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00148**	**.10898**	**-.00826**	**.33340**	**.08429**	**-.00009**	**171.84**	**.00037**	**.00396**
Stddev	.00011	.02353	.00356	.00039	.00040	.00008	.68	.00002	.00009
%RSD	7.4979	21.596	43.138	.11714	.47105	94.760	.39653	4.6332	2.1554
#1	-.00141	.09234	-.01078	.33313	.08401	-.00014	172.32	.00038	.00390
#2	-.00156	.12562	-.00574	.33368	.08457	-.00003	171.36	.00036	.00402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.00190**	**.04691**	**7.8113**	**.06594**	**39.689**	**.67586**	**1.7242**	**104.00**
Stddev	.00045	.00064	.00046	.0707	.00074	.013	.00050	.0015	.04
%RSD	39.989	33.927	.97336	.90541	1.1163	.03167	.07447	.08833	.04308
#1	.00144	.00144	.04658	7.8613	.06542	39.698	.67551	1.7253	104.03
#2	.00081	.00235	.04723	7.7613	.06646	39.680	.67622	1.7231	103.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0046**	**.00178**	F **187.1**	**-.00365**	**.00934**	**3.5227**	**-.00110**	**1.1033**	**.00124**
Stddev	.0003	.00066	.4	.00012	.00316	.0124	.00023	.0013	.00029
%RSD	.02620	36.899	.2359	3.1501	33.805	.35090	20.898	.11469	23.288
#1	1.0044	.00132	186.8	-.00374	.00710	3.5314	-.00126	1.1042	.00103
#2	1.0048	.00225	187.4	-.00357	.01157	3.5139	-.00094	1.1024	.00144
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00300**	**-.00453**	**.00799**
Stddev	.00333	.00027	.00045
%RSD	111.11	5.9771	5.6235
#1	.00064	-.00472	.00831
#2	.00535	-.00434	.00767
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2100.4**	**1770.0**	**34981.**	**3959.4**
Stddev	1.6	2.7	57.	25.2
%RSD	.07542	.15354	.16381	.63734
#1	2099.3	1771.9	35021.	3941.5
#2	2101.5	1768.1	34940.	3977.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64676-E-1-A SD@5 Acquired: 8/1/2014 17:32:23 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00635**	**-.00250**	**.06475**	**.01712**	**.00009**	**34.007**	**.00027**	**.00078**
Stddev	.00051	.03706	.00113	.00016	.00011	.00002	.060	.00001	.00002
%RSD	122.33	583.15	45.443	.25000	.65898	17.190	.17632	5.1856	3.1318
#1	-.00078	.03256	-.00170	.06486	.01704	.00008	34.049	.00026	.00076
#2	-.00006	-.01985	-.00330	.06463	.01720	.00011	33.965	.00028	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00143**	**.01176**	**1.4160**	**.01127**	**7.7283**	**.13532**	**.33930**	**19.790**
Stddev	.00008	.00027	.00001	.0046	.00141	.0366	.00027	.00005	.054
%RSD	57.376	18.711	.05451	.32697	12.498	.47369	.20067	.01414	.27136
#1	-.00008	.00162	.01175	1.4193	.01227	7.7024	.13513	.33933	19.828
#2	-.00020	.00124	.01176	1.4127	.01027	7.7542	.13551	.33926	19.752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19263**	**-.00023**	F **34.67**	**-.00038**	**.00191**	**.69566**	**.00015**	**.21649**	**.00011**
Stddev	.00033	.00025	.05	.00183	.00318	.00944	.00010	.00107	.00010
%RSD	.17216	108.38	.1410	481.08	166.61	1.3566	65.010	.49290	88.009
#1	.19239	-.00005	34.63	.00091	-.00034	.68899	.00022	.21724	.00004
#2	.19286	-.00041	34.70	-.00167	.00416	.70234	.00008	.21573	.00018
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00529**	**-.00075**	**.00254**
Stddev	.00264	.00015	.00074
%RSD	49.855	19.604	28.994
#1	.00342	-.00086	.00202
#2	.00715	-.00065	.00307
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2340.3**	**1878.1**	**36950.**	**3981.7**
Stddev	7.1	3.2	115.	9.6
%RSD	.30320	.17083	.31196	.24175
#1	2345.3	1880.4	37032.	3974.9
#2	2335.3	1875.9	36869.	3988.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64676-E-1-A PDS Acquired: 8/1/2014 17:35:09 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05000**	**10.438**	**.21971**	**.53995**	**.28506**	**.20622**	**181.14**	**.21969**	**.21801**
Stddev	.00026	.105	.00307	.00067	.00047	.00113	.47	.00095	.00087
%RSD	.51101	1.0093	1.3963	.12490	.16375	.54832	.26181	.43466	.39700
#1	.05018	10.363	.21754	.53947	.28539	.20542	181.47	.21901	.21740
#2	.04982	10.512	.22188	.54043	.28473	.20702	180.80	.22036	.21862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20591**	**.20925**	**10.078**	**17.863**	**.26919**	**49.606**	**.86855**	**1.9139**	**113.51**
Stddev	.00194	.00061	.053	.103	.00291	.041	.00114	.0017	.81
%RSD	.94411	.29341	.52735	.57906	1.0826	.08263	.13105	.08926	.71551
#1	.20729	.20882	10.041	17.789	.26713	49.635	.86936	1.9127	112.93
#2	.20454	.20968	10.116	17.936	.27125	49.577	.86775	1.9151	114.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2075**	**.21302**	F **185.5**	**.21351**	**.23342**	**13.819**	**.20702**	**1.2853**	**.20413**
Stddev	.0063	.00010	.3	.00144	.00078	.009	.00192	.0094	.00088
%RSD	.52616	.04594	.1645	.67213	.33413	.06504	.92851	.73355	.43140
#1	1.2030	.21309	185.3	.21452	.23287	13.826	.20566	1.2786	.20475
#2	1.2119	.21296	185.7	.21249	.23398	13.813	.20838	1.2920	.20351
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21416**	**.21249**	**.20733**
Stddev	.00257	.00113	.00226
%RSD	1.2005	.53150	1.0922
#1	.21234	.21329	.20893
#2	.21598	.21169	.20573
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2062.8**	**1768.6**	**35228.**	**3942.1**
Stddev	3.6	3.5	64.	2.0
%RSD	.17554	.20051	.18205	.04994
#1	2065.4	1771.1	35183.	3943.5
#2	2060.3	1766.1	35273.	3940.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64676-E-1-B MS Acquired: 8/1/2014 17:37:48 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05237**	**10.367**	**.20804**	**.53694**	**.28480**	**.19484**	**178.60**	**.20847**	**.20546**
Stddev	.00005	.004	.00020	.00206	.00034	.00054	.26	.00062	.00002
%RSD	.08908	.03611	.09489	.38273	.11806	.27746	.14285	.29964	.01199
#1	.05234	10.369	.20790	.53840	.28503	.19522	178.78	.20891	.20548
#2	.05240	10.364	.20818	.53549	.28456	.19446	178.42	.20803	.20544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18925**	**.20219**	**9.5890**	**17.736**	**.26807**	**48.939**	**.85852**	**1.8968**	**112.80**
Stddev	.00088	.00053	.0125	.019	.00163	.077	.00176	.0049	.00
%RSD	.46345	.26017	.13046	.10519	.60973	.15809	.20496	.25576	.00031
#1	.18987	.20256	9.5979	17.749	.26923	48.884	.85728	1.9002	112.80
#2	.18863	.20181	9.5802	17.723	.26692	48.994	.85976	1.8934	112.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1940**	**.20127**	F **195.8**	**.20362**	**.21648**	**13.393**	**.19995**	**1.2770**	**.19525**
Stddev	.0006	.00174	.2	.00075	.00935	.017	.00070	.0003	.00007
%RSD	.05297	.86602	.1201	.36811	4.3185	.13009	.34909	.01957	.03596
#1	1.1936	.20250	195.9	.20415	.22309	13.381	.20044	1.2772	.19520
#2	1.1945	.20003	195.6	.20309	.20987	13.405	.19945	1.2769	.19530
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20289**	**.20050**	**.19928**
Stddev	.00343	.00016	.00059
%RSD	1.6904	.07823	.29384
#1	.20046	.20038	.19886
#2	.20531	.20061	.19969
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2067.5**	**1764.9**	**35189.**	**3959.4**
Stddev	.3	2.2	28.	9.0
%RSD	.01317	.12474	.07834	.22685
#1	2067.3	1763.4	35208.	3953.0
#2	2067.7	1766.5	35169.	3965.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64676-E-1-C MSD Acquired: 8/1/2014 17:40:27 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05191**	**10.310**	**.20660**	**.53670**	**.28844**	**.19520**	**184.11**	**.20746**	**.20649**
Stddev	.00031	.034	.00367	.00035	.00076	.00026	.33	.00021	.00006
%RSD	.60557	.32617	1.7778	.06600	.26377	.13525	.17845	.09890	.02719
#1	.05169	10.334	.20400	.53695	.28898	.19501	183.88	.20761	.20653
#2	.05213	10.286	.20919	.53644	.28790	.19538	184.35	.20732	.20645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19095**	**.20217**	**9.6215**	**17.748**	**.26808**	**49.989**	**.87880**	**1.9185**	**115.11**
Stddev	.00156	.00151	.0401	.023	.00068	.029	.00122	.0009	.44
%RSD	.81638	.74817	.41625	.13000	.25542	.05768	.13916	.04688	.38066
#1	.19205	.20110	9.6499	17.764	.26856	50.009	.87794	1.9191	114.80
#2	.18985	.20324	9.5932	17.731	.26760	49.969	.87967	1.9179	115.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2185**	**.20245**	F **198.3**	**.20326**	**.21559**	**13.628**	**.20130**	**1.2886**	**.19597**
Stddev	.0004	.00057	.1	.00241	.01094	.079	.00058	.0005	.00013
%RSD	.03565	.28086	.0606	1.1863	5.0767	.57950	.28821	.03922	.06788
#1	1.2182	.20205	198.4	.20155	.22333	13.572	.20089	1.2882	.19606
#2	1.2188	.20286	198.2	.20496	.20785	13.684	.20171	1.2889	.19588
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20437**	**.20257**	**.20191**
Stddev	.00586	.00077	.00024
%RSD	2.8674	.37927	.11645
#1	.20022	.20311	.20174
#2	.20851	.20203	.20208
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2067.3**	**1780.8**	**35041.**	**3930.3**
Stddev	.6	.1	159.	11.5
%RSD	.02807	.00798	.45459	.29276
#1	2066.9	1780.7	34928.	3938.4
#2	2067.8	1780.9	35154.	3922.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64676-E-2-A Acquired: 8/1/2014 17:43:07 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.09235**	**-.00758**	**.27459**	**.08313**	**.00004**	**180.99**	**.00047**	**.00208**
Stddev	.00047	.00694	.00277	.00056	.00014	.00000	.53	.00006	.00018
%RSD	328.01	7.5118	36.528	.20317	.17039	2.3113	.29212	13.609	8.4947
#1	.00019	.08744	-.00563	.27498	.08323	.00004	180.61	.00043	.00221
#2	-.00048	.09725	-.00954	.27420	.08303	.00004	181.36	.00052	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**.00207**	**.03828**	**8.4347**	**.06638**	**43.683**	**.39916**	**2.0133**	**108.96**
Stddev	.00001	.00007	.00138	.0449	.00033	.069	.00109	.0036	.04
%RSD	1.0789	3.3623	3.6148	.53244	.49472	.15730	.27352	.17810	.03436
#1	.00110	.00202	.03730	8.4665	.06615	43.732	.39993	2.0107	108.94
#2	.00111	.00212	.03925	8.4029	.06662	43.635	.39839	2.0158	108.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.75508**	**.00120**	F **201.7**	**-.00144**	**.00027**	**3.5871**	**-.00039**	**1.1961**	**.00233**
Stddev	.00184	.00082	.3	.00090	.00516	.0237	.00014	.0048	.00102
%RSD	.24410	68.593	.1346	62.777	1918.1	.66129	37.283	.39951	43.895
#1	.75638	.00062	201.9	-.00080	-.00338	3.5704	-.00049	1.1995	.00161
#2	.75377	.00178	201.5	-.00208	.00392	3.6039	-.00028	1.1928	.00305
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00111**	F **-.00536**	**.00428**
Stddev	.00539	.00029	.00045
%RSD	486.33	5.3472	10.427
#1	.00492	-.00556	.00459
#2	-.00270	-.00515	.00396
Check ?	Chk Pass	Chk Fail	Chk Pass
High Limit		45.000	
Low Limit		-.00500	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2093.0**	**1771.4**	**34919.**	**3914.8**
Stddev	2.2	.8	90.	3.9
%RSD	.10614	.04301	.25910	.09862
#1	2094.5	1772.0	34855.	3917.5
#2	2091.4	1770.9	34983.	3912.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64676-E-3-A Acquired: 8/1/2014 17:45:50 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.08234**	**-.00993**	**.26982**	**.07222**	**-.00002**	**194.57**	**.00042**	**.00247**
Stddev	.00086	.00466	.00057	.00153	.00044	.00007	.44	.00010	.00013
%RSD	120.05	5.6597	5.7559	.56811	.61442	387.48	.22367	23.912	5.3938
#1	-.00011	.07905	-.00953	.27090	.07253	-.00007	194.26	.00035	.00238
#2	-.00133	.08564	-.01033	.26873	.07190	.00003	194.88	.00049	.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.00250**	**.04792**	**8.6035**	**.06196**	**46.627**	**.49022**	**2.1340**	**104.44**
Stddev	.00061	.00089	.00041	.0191	.00122	.019	.00121	.0051	.33
%RSD	32.127	35.502	.86150	.22234	1.9691	.04035	.24673	.24050	.31230
#1	.00234	.00188	.04763	8.5900	.06110	46.640	.48936	2.1376	104.21
#2	.00147	.00313	.04821	8.6170	.06282	46.614	.49108	2.1304	104.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.77811**	**.00209**	F **209.8**	**-.00245**	**-.00094**	**4.8527**	**-.00037**	**1.2421**	**.00214**
Stddev	.00148	.00104	.2	.00140	.00050	.0491	.00018	.0045	.00016
%RSD	.19056	49.778	.0769	57.143	53.014	1.0129	48.905	.36310	7.5939
#1	.77706	.00136	209.9	-.00344	-.00059	4.8874	-.00024	1.2390	.00203
#2	.77916	.00283	209.6	-.00146	-.00129	4.8179	-.00050	1.2453	.00226
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00245**	F **-.00619**	**.00352**
Stddev	.00090	.00023	.00009
%RSD	36.622	3.7554	2.5366
#1	-.00309	-.00635	.00346
#2	-.00182	-.00602	.00358
Check ?	Chk Pass	Chk Fail	Chk Pass
High Limit		45.000	
Low Limit		-.00500	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2084.2**	**1765.8**	**34749.**	**3895.0**
Stddev	.8	.3	156.	6.7
%RSD	.03993	.01601	.45034	.17257
#1	2083.6	1765.6	34638.	3899.7
#2	2084.8	1766.0	34860.	3890.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 17:48:36 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50657**	**25.627**	**.50572**	**.49562**	**.50674**	**.49741**	**25.042**	**.50774**	**.50625**	**.49605**	**.49082**	**24.687**	**24.859**	**.49728**
Stddev	.00463	.191	.00109	.00111	.00067	.00074	.115	.00030	.00012	.00667	.00313	.083	.087	.00012
%RSD	.91334	.74537	.21583	.22377	.13151	.14849	.45996	.05879	.02290	1.3450	.63797	.33714	.34859	.02389
#1	.50984	25.762	.50649	.49484	.50627	.49689	25.123	.50753	.50634	.50077	.48861	24.746	24.921	.49720
#2	.50330	25.492	.50495	.49641	.50721	.49793	24.960	.50796	.50617	.49133	.49303	24.628	24.798	.49737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.590**	**.50972**	**.51124**	**24.926**	**.49938**	**.51027**	**25.04**	**.50604**	**.50645**	**24.847**	**.51546**	**.51034**	**.50545**	**.50315**
Stddev	.140	.00209	.00021	.082	.00181	.00372	.03	.00042	.00878	.052	.00079	.00030	.00208	.00027
%RSD	.54834	.40979	.04128	.32937	.36334	.72909	.1080	.08239	1.7345	.20836	.15236	.05882	.41243	.05358
#1	25.690	.51119	.51109	24.984	.49810	.50764	25.02	.50575	.51266	24.884	.51602	.51056	.50692	.50334
#2	25.491	.50824	.51139	24.868	.50066	.51290	25.06	.50634	.50023	24.811	.51491	.51013	.50397	.50296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50706**	**.50302**
Stddev	.00212	.00331
%RSD	.41878	.65713
#1	.50856	.50536
#2	.50556	.50069
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2255.8**	**1902.7**	**36971.**	**3954.5**
Stddev	7.2	3.3	192.	15.7
%RSD	.32132	.17118	.51903	.39808
#1	2250.7	1900.4	36835.	3943.4
#2	2261.0	1905.0	37107.	3965.7

Sample Name: CCB Acquired: 8/1/2014 17:51:20 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00325**	**-.00122**	**.00089**	**-.00003**	**.00007**	**.00517**	**.00024**	**.00010**	**.00028**	**.00023**	**-.00472**
Stddev	.00030	.00666	.00003	.00028	.00001	.00001	.00426	.00001	.00002	.00023	.00036	.00694
%RSD	104.69	205.01	2.6431	32.075	42.438	10.540	82.503	3.3513	18.523	81.587	161.09	146.88
#1	-.00007	-.00796	-.00125	.00068	-.00002	.00007	.00215	.00024	.00009	.00045	-.00003	.00018
#2	-.00050	.00146	-.00120	.00109	-.00003	.00006	.00818	.00023	.00012	.00012	.00048	-.00963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01860**	**-.00094**	**-.00034**	**.00013**	**.00062**	**-.02460**	**-.00062**	**-.00002**	**.0233**	**.00020**	**-.00136**	**.01291**
Stddev	.00100	.00050	.00032	.00004	.00001	.00026	.00003	.00132	.0072	.00079	.00464	.00118
%RSD	5.3623	52.916	94.586	30.102	.84529	1.0721	5.3351	6525.0	30.96	398.73	341.80	9.1604
#1	-.01789	-.00059	-.00057	.00010	.00062	-.02441	-.00065	-.00095	.0284	.00076	.00192	.01207
#2	-.01930	-.00130	-.00011	.00015	.00063	-.02478	-.00060	.00091	.0182	-.00036	-.00464	.01375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00010**	**-.00014**	**.00050**	**.00032**	**.00073**
Stddev	.00032	.00011	.00028	.00306	.00001	.00098
%RSD	253.16	112.49	205.75	616.94	2.0617	134.75
#1	-.00036	.00017	.00006	.00266	.00033	.00003
#2	.00010	.00002	-.00034	-.00167	.00032	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2520.8**	**1955.0**	**38242.**	**3976.7**
Stddev	2.6	5.7	9.	12.2
%RSD	.10460	.28997	.02475	.30717
#1	2522.6	1959.0	38249.	3985.4
#2	2518.9	1951.0	38235.	3968.1

Sample Name: CCVL-2222402 Acquired: 8/1/2014 17:54:12 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00586**	**.21127**	**.01434**	**.02015**	**.00230**	**.00202**	**.50444**	**.00205**	**.00403**	**.00422**	**.00894**	**.04707**
Stddev	.00021	.00166	.00088	.00022	.00001	.00004	.00116	.00000	.00003	.00014	.00042	.00055
%RSD	3.5897	.78692	6.1110	1.0710	.58163	1.8242	.23043	.04613	.72423	3.3742	4.6527	1.1677
#1	.00571	.21010	.01496	.02030	.00229	.00199	.50527	.00205	.00405	.00412	.00923	.04746
#2	.00601	.21245	.01372	.02000	.00231	.00204	.50362	.00205	.00401	.00432	.00864	.04668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48692**	**.02881**	**.20823**	**.00339**	**.01023**	**.95004**	**.00905**	**.01071**	**.2263**	**.01992**	**.02279**	**.50572**
Stddev	.00029	.00017	.00686	.00005	.00003	.00857	.00077	.00213	.0032	.00099	.00409	.01001
%RSD	.05998	.60389	3.2922	1.6098	.33275	.90180	8.4805	19.908	1.396	4.9762	17.957	1.9785
#1	.48712	.02869	.20338	.00343	.01026	.94398	.00960	.00920	.2241	.01922	.01989	.49865
#2	.48671	.02893	.21308	.00335	.01021	.95610	.00851	.01222	.2286	.02062	.02568	.51280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00985**	**.00524**	**.00468**	**.02275**	**.00530**	**.01080**
Stddev	.00005	.00005	.00011	.00394	.00024	.00047
%RSD	.49315	.99236	2.3685	17.335	4.4658	4.3836
#1	.00981	.00527	.00460	.01996	.00547	.01046
#2	.00988	.00520	.00476	.02554	.00513	.01113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2505.6**	**1959.8**	**38394.**	**4005.1**
Stddev	1.2	.4	33.	18.0
%RSD	.04679	.01892	.08505	.44889
#1	2506.4	1960.1	38417.	4017.8
#2	2504.7	1959.6	38371.	3992.4

Sample Name: 480-64676-E-4-A Acquired: 8/1/2014 17:57:03 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.10811**	W **-.01070**	**.28181**	**.07161**	**.00004**	**191.92**	**.00048**	**.00284**
Stddev	.00017	.02455	.00177	.00123	.00048	.00006	.43	.00006	.00002
%RSD	19.266	22.707	16.567	.43799	.66410	142.27	.22414	12.195	.80050
#1	-.00074	.09075	-.01195	.28094	.07195	-.00000	192.22	.00044	.00286
#2	-.00098	.12546	-.00944	.28269	.07128	.00008	191.61	.00052	.00283
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			36.000						
Low Limit			-.01000						

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**.00262**	**.03870**	**8.3484**	**.05930**	**45.352**	**.42304**	**2.1013**	**101.78**
Stddev	.00009	.00068	.00284	.0363	.00066	.218	.00242	.0028	.21
%RSD	4.8429	26.088	7.3331	.43457	1.1058	.48146	.57312	.13224	.20731
#1	.00172	.00213	.04071	8.3741	.05977	45.506	.42475	2.0993	101.93
#2	.00185	.00310	.03669	8.3228	.05884	45.197	.42132	2.1033	101.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.84067**	**.00165**	F **205.1**	**-.00247**	**.00443**	**4.8152**	**-.00028**	**1.2307**	**.00203**
Stddev	.00322	.00121	.0	.00036	.00955	.0414	.00002	.0008	.00005
%RSD	.38345	73.494	.0042	14.428	215.51	.86006	5.8609	.06926	2.5380
#1	.84295	.00251	205.1	-.00222	.01119	4.7859	-.00030	1.2313	.00207
#2	.83839	.00079	205.1	-.00272	-.00232	4.8445	-.00027	1.2300	.00199
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00012**	F **-.00534**	**.00346**
Stddev	.00544	.00015	.00078
%RSD	4531.8	2.8949	22.642
#1	.00373	-.00545	.00401
#2	-.00397	-.00523	.00291
Check ?	Chk Pass	Chk Fail	Chk Pass
High Limit		45.000	
Low Limit		-.00500	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2089.0**	**1769.1**	**35009.**	**3939.8**
Stddev	4.7	4.9	143.	2.9
%RSD	.22285	.27851	.40729	.07346
#1	2092.3	1772.6	34909.	3941.9
#2	2085.7	1765.6	35110.	3937.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 17:59:47 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00737**	**-.00234**	**.00024**	**.00015**	**.00006**	**.00770**	**.00016**	**.00001**
Stddev	.00091	.01030	.00095	.00056	.00000	.00005	.00226	.00010	.00004
%RSD	570.77	139.68	40.669	236.71	2.8666	77.143	29.340	58.706	745.25
#1	.00048	-.01466	-.00301	.00063	.00015	.00010	.00930	.00010	.00003
#2	-.00080	-.00009	-.00167	-.00016	.00014	.00003	.00610	.00023	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00068**	**-.00651**	**.01728**	**-.00030**	**-.00063**	**.00006**	**.00059**	**-.03020**
Stddev	.00025	.00036	.00817	.00743	.00036	.00386	.00001	.00011	.00139
%RSD	69.122	52.567	125.55	42.995	118.45	613.59	16.382	18.289	4.5991
#1	.00018	.00042	-.01228	.02254	-.00055	.00210	.00007	.00051	-.03119
#2	.00053	.00093	-.00073	.01203	-.00005	-.00336	.00005	.00066	-.02922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00170**	**.0217**	**.00014**	**.00222**	**.00819**	**.00002**	**.00012**	**-.00050**
Stddev	.00041	.00176	.0004	.00098	.00477	.00169	.00010	.00009	.00005
%RSD	80.518	103.31	1.896	704.67	214.33	20.663	441.13	69.803	9.4115
#1	-.00080	.00046	.0214	.00083	.00559	.00699	-.00005	.00006	-.00047
#2	-.00022	.00294	.0220	-.00055	-.00115	.00938	.00010	.00018	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00065**	**.00033**	**.00077**
Stddev	.00258	.00000	.00040
%RSD	397.09	1.1958	51.374
#1	.00117	.00033	.00049
#2	-.00247	.00032	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2519.4**	**1946.1**	**38278.**	**3975.7**
Stddev	6.0	.4	41.	1.9
%RSD	.23917	.02281	.10789	.04698
#1	2515.2	1946.4	38308.	3974.4
#2	2523.7	1945.8	38249.	3977.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: MB 480-195593/1-A Acquired: 8/1/2014 18:02:39 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.01881**	**-.00250**	**.00368**	**.00021**	**.00006**	**.04320**	**.00013**	**-.00001**
Stddev	.00055	.02378	.00035	.00010	.00001	.00006	.00148	.00011	.00005
%RSD	335.24	126.43	13.998	2.8128	2.9792	90.196	3.4165	87.297	407.27
#1	-.00055	.00199	-.00275	.00361	.00020	.00002	.04215	.00005	.00002
#2	.00022	.03562	-.00225	.00375	.00021	.00010	.04424	.00021	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00015**	**-.00032**	**.00555**	**-.00102**	**.00150**	**.00009**	**.00001**	**-.03629**
Stddev	.00018	.00039	.00261	.00489	.00004	.00020	.00008	.00005	.00572
%RSD	189.65	259.19	807.47	88.109	4.3418	13.151	88.908	627.85	15.767
#1	.00022	.00012	.00152	.00209	-.00105	.00136	.00015	.00005	-.03224
#2	-.00003	-.00042	-.00217	.00901	-.00099	.00164	.00003	-.00003	-.04034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.00006**	F **.0176**	**.00106**	**.00329**	**.01173**	**-.00019**	**.00031**	**-.00001**
Stddev	.00050	.00056	.0032	.00003	.00323	.02996	.00029	.00005	.00016
%RSD	79.649	993.84	18.48	2.8955	98.233	255.40	154.97	16.002	2919.4
#1	-.00098	.00034	.0199	.00104	.00101	-.00946	-.00039	.00034	-.00012
#2	-.00027	-.00046	.0153	.00108	.00558	.03292	.00002	.00027	.00011
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00153**	**.00005**	**.00159**
Stddev	.00474	.00021	.00004
%RSD	309.10	376.58	2.3776
#1	-.00182	-.00009	.00156
#2	.00489	.00020	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2535.0**	**1952.3**	**39015.**	**4092.4**
Stddev	4.3	1.7	61.	17.7
%RSD	.16823	.08803	.15662	.43211
#1	2538.1	1953.5	39059.	4079.9
#2	2532.0	1951.1	38972.	4104.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195593/2-A Acquired: 8/1/2014 18:05:31 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04958**	**9.9500**	**.19688**	**.19818**	**.20294**	**.19071**	**9.3146**	**.19525**	**.19106**
Stddev	.00024	.0352	.00209	.00002	.00054	.00055	.0006	.00008	.00007
%RSD	.48289	.35386	1.0604	.01122	.26836	.28985	.00671	.03982	.03448
#1	.04941	9.9251	.19540	.19816	.20332	.19110	9.3150	.19520	.19101
#2	.04975	9.9749	.19835	.19819	.20255	.19032	9.3141	.19531	.19111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18814**	**.19141**	**9.4284**	**9.3241**	**.19022**	**10.040**	**.19454**	**.19544**	**9.4808**
Stddev	.00086	.00042	.0110	.0166	.00029	.005	.00038	.00012	.0453
%RSD	.45622	.22144	.11616	.17811	.15389	.05405	.19764	.06168	.47745
#1	.18874	.19171	9.4362	9.3124	.19001	10.044	.19426	.19535	9.4487
#2	.18753	.19111	9.4207	9.3359	.19042	10.036	.19481	.19552	9.5128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18576**	**.19125**	**9.638**	**.19482**	**.19085**	**9.4587**	**.18535**	**.19291**	**.18790**
Stddev	.00018	.00022	.013	.00022	.00869	.0726	.00022	.00017	.00007
%RSD	.09721	.11418	.1383	.11296	4.5532	.76792	.11950	.08792	.03559
#1	.18588	.19140	9.648	.19497	.19699	9.5101	.18519	.19279	.18785
#2	.18563	.19109	9.629	.19466	.18470	9.4073	.18550	.19303	.18795
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20191**	**.19610**	**.18923**
Stddev	.00139	.00066	.00066
%RSD	.68911	.33871	.34694
#1	.20290	.19657	.18877
#2	.20093	.19563	.18970
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2380.0**	**1920.9**	**38160.**	**4086.8**
Stddev	1.8	1.4	14.	.8
%RSD	.07748	.07306	.03797	.01879
#1	2378.7	1919.9	38149.	4086.3
#2	2381.3	1921.9	38170.	4087.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64615-A-1-A Acquired: 8/1/2014 18:08:13 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00749**	**.00167**	**.79828**	**.04913**	**-.00000**	**159.13**	**.00021**	**.00112**
Stddev	.00069	.00240	.00100	.00097	.00018	.00019	.02	.00008	.00012
%RSD	210.19	32.070	59.851	.12120	.36628	5207.7	.01099	36.223	11.057
#1	.00016	.00919	.00097	.79897	.04900	.00013	159.14	.00026	.00121
#2	-.00082	.00579	.00238	.79760	.04926	-.00014	159.12	.00015	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**.00230**	**.65088**	**1.8577**	**.00728**	**5.3289**	**.03258**	**.01666**	**131.87**
Stddev	.00048	.00112	.00009	.0231	.00015	.0004	.00001	.00008	.28
%RSD	34.860	48.503	.01332	1.2419	2.1247	.00783	.02806	.45807	.21442
#1	.00171	.00309	.65082	1.8414	.00717	5.3292	.03258	.01660	132.07
#2	.00104	.00151	.65094	1.8740	.00738	5.3286	.03257	.01671	131.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.00066**	F **89.50**	**.00042**	**.00431**	**2.8744**	**.00028**	**.26803**	**.00051**
Stddev	.00005	.00037	.02	.00069	.00257	.0169	.00008	.00067	.00003
%RSD	2.2993	56.980	.0219	164.87	59.599	.58913	30.215	.24977	6.7097
#1	.00235	.00039	89.49	.00091	.00249	2.8864	.00034	.26850	.00048
#2	.00227	.00092	89.51	-.00007	.00613	2.8624	.00022	.26755	.00053
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00100**	**.00063**	**.00462**
Stddev	.00335	.00020	.00060
%RSD	335.53	31.154	13.062
#1	-.00137	.00077	.00420
#2	.00337	.00049	.00505
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2117.8**	**1777.5**	**35235.**	**4003.2**
Stddev	5.0	4.2	99.	4.3
%RSD	.23631	.23619	.28078	.10785
#1	2121.3	1780.5	35305.	4006.3
#2	2114.3	1774.5	35165.	4000.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64615-A-1-A SD@5 Acquired: 8/1/2014 18:10:59 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.03727**	**-.00099**	**.17318**	**.01138**	**.00010**	**35.155**	**.00020**	**.00022**
Stddev	.00057	.03189	.00056	.00085	.00001	.00006	.202	.00009	.00006
%RSD	100.35	85.564	56.857	.48858	.09784	65.121	.57463	46.306	25.927
#1	.00017	.05982	-.00059	.17258	.01138	.00014	35.012	.00027	.00018
#2	.00098	.01472	-.00139	.17378	.01139	.00005	35.298	.00014	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00118**	**.14652**	**.40091**	**.00115**	**1.1714**	**.00736**	**.00354**	**28.056**
Stddev	.00003	.00070	.00172	.02453	.00008	.0011	.00002	.00034	.001
%RSD	3.3482	59.296	1.1755	6.1192	7.2201	.09595	.30537	9.6146	.00434
#1	.00087	.00068	.14530	.41826	.00110	1.1706	.00734	.00330	28.055
#2	.00091	.00167	.14774	.38357	.00121	1.1722	.00737	.00378	28.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00018**	F **18.60**	**.00074**	**.00403**	**.63218**	**.00024**	**.05966**	**.00006**
Stddev	.00045	.00081	.01	.00133	.00065	.02180	.00007	.00018	.00012
%RSD	263.59	464.97	.0474	180.07	16.097	3.4491	29.086	.29551	200.27
#1	-.00015	.00040	18.61	-.00020	.00357	.64760	.00019	.05979	-.00002
#2	.00049	-.00075	18.60	.00168	.00449	.61676	.00029	.05954	.00014
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00071**	**.00024**	**.00177**
Stddev	.00137	.00011	.00010
%RSD	193.88	44.888	5.4301
#1	.00167	.00032	.00170
#2	-.00026	.00016	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2330.9**	**1870.2**	**36915.**	**3998.9**
Stddev	1.8	.5	83.	23.6
%RSD	.07751	.02635	.22378	.59043
#1	2332.2	1869.9	36856.	4015.6
#2	2329.6	1870.6	36973.	3982.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64615-A-1-A PDS Acquired: 8/1/2014 18:13:48 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05150**	**10.652**	**.22644**	**1.0413**	**.25757**	**.21079**	**175.98**	**.22247**	**.21921**
Stddev	.00050	.070	.00361	.0004	.00064	.00003	.19	.00013	.00078
%RSD	.97819	.65375	1.5955	.03876	.24804	.01591	.11020	.05790	.35621
#1	.05114	10.603	.22900	1.0410	.25711	.21081	175.84	.22238	.21976
#2	.05185	10.702	.22389	1.0415	.25802	.21077	176.12	.22257	.21866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21000**	**.21667**	**10.889**	**12.424**	**.21723**	**16.205**	**.24195**	**.23098**	**147.61**
Stddev	.00353	.00138	.023	.003	.00174	.061	.00071	.00016	.23
%RSD	1.6829	.63589	.20702	.02069	.80070	.37742	.29497	.06873	.15472
#1	.20750	.21765	10.905	12.422	.21600	16.162	.24144	.23109	147.77
#2	.21250	.21570	10.873	12.426	.21846	16.249	.24245	.23086	147.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21322**	**.21652**	F **92.62**	**.21959**	**.22033**	**13.242**	**.20949**	**.48197**	**.20601**
Stddev	.00051	.00015	.07	.00016	.00204	.068	.00036	.00013	.00033
%RSD	.23811	.06735	.0710	.07192	.92702	.51390	.17042	.02710	.15991
#1	.21358	.21641	92.58	.21947	.21888	13.193	.20974	.48188	.20577
#2	.21286	.21662	92.67	.21970	.22177	13.290	.20924	.48207	.20624
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21932**	**.22020**	**.21085**
Stddev	.00889	.00032	.00183
%RSD	4.0546	.14318	.86734
#1	.22561	.21998	.20956
#2	.21303	.22042	.21214
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2075.4**	**1784.5**	**35391.**	**3975.9**
Stddev	2.9	4.5	168.	24.7
%RSD	.13770	.25194	.47460	.62237
#1	2077.4	1787.7	35510.	3993.4
#2	2073.4	1781.4	35272.	3958.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64615-A-1-B MS Acquired: 8/1/2014 18:16:29 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04883**	**9.8263**	**.20718**	**1.0520**	**.24508**	**.18778**	**180.61**	**.19937**	**.19610**
Stddev	.00016	.1006	.00182	.0015	.00022	.00098	.28	.00060	.00005
%RSD	.33156	1.0242	.87784	.14327	.09059	.52021	.15649	.30074	.02548
#1	.04894	9.8974	.20589	1.0509	.24493	.18847	180.81	.19895	.19607
#2	.04871	9.7551	.20847	1.0530	.24524	.18709	180.41	.19980	.19614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18440**	**.19669**	**9.8397**	**11.754**	**.20282**	**15.318**	**.22281**	**.21080**	**151.78**
Stddev	.00028	.00046	.0201	.029	.00109	.005	.00053	.00012	.00
%RSD	.15369	.23493	.20468	.24634	.53551	.03018	.23750	.05774	.00309
#1	.18460	.19637	9.8540	11.734	.20359	15.314	.22318	.21089	151.77
#2	.18420	.19702	9.8255	11.775	.20206	15.321	.22244	.21071	151.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19079**	**.19541**	F **105.9**	**.19824**	**.20471**	**12.578**	**.19042**	**.47634**	**.18731**
Stddev	.00014	.00191	.1	.00200	.00557	.055	.00108	.00196	.00075
%RSD	.07330	.97696	.0753	1.0100	2.7219	.43960	.56689	.41167	.39880
#1	.19089	.19406	105.9	.19682	.20865	12.617	.18966	.47773	.18784
#2	.19070	.19676	106.0	.19965	.20077	12.539	.19119	.47496	.18678
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19375**	**.19619**	**.18911**
Stddev	.00051	.00092	.00036
%RSD	.26257	.47086	.19235
#1	.19339	.19684	.18937
#2	.19411	.19553	.18885
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2070.5**	**1779.6**	**35116.**	**3951.8**
Stddev	4.3	4.4	11.	1.1
%RSD	.20778	.24584	.03261	.02849
#1	2073.5	1782.7	35124.	3951.0
#2	2067.4	1776.5	35108.	3952.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64615-A-1-C MSD Acquired: 8/1/2014 18:19:11 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04835**	**9.6978**	**.20029**	**1.0219**	**.23751**	**.18350**	**175.03**	**.19354**	**.18971**
Stddev	.00036	.0691	.00385	.0051	.00079	.00077	2.22	.00078	.00009
%RSD	.74310	.71296	1.9208	.50010	.33349	.42018	1.2657	.40058	.04941
#1	.04810	9.7467	.20301	1.0255	.23695	.18404	176.60	.19408	.18977
#2	.04861	9.6489	.19757	1.0182	.23807	.18295	173.47	.19299	.18964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17929**	**.19457**	**9.5842**	**11.504**	**.19900**	**14.820**	**.21648**	**.20466**	**147.05**
Stddev	.00049	.00283	.0523	.031	.00079	.055	.00136	.00113	.72
%RSD	.27069	1.4540	.54526	.27278	.39942	.37027	.63039	.54994	.48780
#1	.17895	.19657	9.6212	11.526	.19956	14.782	.21551	.20545	147.55
#2	.17963	.19257	9.5473	11.482	.19844	14.859	.21744	.20386	146.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18420**	**.18826**	F **102.7**	**.19113**	**.19972**	**12.163**	**.18282**	**.46498**	**.18124**
Stddev	.00062	.00218	.2	.00174	.00194	.028	.00008	.00037	.00071
%RSD	.33844	1.1567	.2432	.90942	.96954	.23010	.04165	.08046	.39345
#1	.18376	.18672	102.9	.19236	.20109	12.183	.18288	.46524	.18073
#2	.18465	.18980	102.6	.18990	.19835	12.143	.18277	.46471	.18174
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19296**	**.18907**	**.18457**
Stddev	.00377	.00058	.00132
%RSD	1.9546	.30906	.71787
#1	.19029	.18866	.18363
#2	.19562	.18949	.18551
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2079.8**	**1783.8**	**35284.**	**3949.1**
Stddev	.1	4.3	127.	37.5
%RSD	.00508	.24103	.36018	.94911
#1	2079.9	1780.7	35374.	3922.6
#2	2079.7	1786.8	35194.	3975.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 18:21:55 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50568**	**25.263**	**.50596**	**.49840**	**.50453**	**.49514**	**25.003**	**.50794**	**.50643**	**.49808**	**.48682**	**24.520**	**24.741**	**.49246**
Stddev	.00028	.030	.00089	.00142	.00001	.00010	.062	.00223	.00045	.00244	.00252	.006	.026	.00089
%RSD	.05626	.11711	.17500	.28561	.00169	.01982	.24765	.43857	.08841	.49081	.51787	.02491	.10665	.17977
#1	.50588	25.284	.50659	.49740	.50454	.49507	25.047	.50636	.50612	.49981	.48504	24.524	24.760	.49183
#2	.50548	25.242	.50534	.49941	.50452	.49521	24.959	.50951	.50675	.49635	.48861	24.515	24.723	.49308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.478**	**.50997**	**.51141**	**24.765**	**.49903**	**.50782**	**25.01**	**.50593**	**.50127**	**24.994**	**.51523**	**.50790**	**.50527**	**.50044**
Stddev	.014	.00010	.00327	.034	.00072	.00310	.04	.00073	.00242	.048	.00224	.00033	.00103	.00322
%RSD	.05345	.01938	.63871	.13669	.14419	.60987	.1446	.14492	.48215	.19019	.43502	.06496	.20330	.64327
#1	25.487	.51003	.50910	24.741	.49852	.50563	24.98	.50542	.49956	24.960	.51365	.50813	.50600	.49816
#2	25.468	.50990	.51372	24.789	.49954	.51001	25.03	.50645	.50298	25.028	.51682	.50767	.50454	.50271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50677**	**.50357**
Stddev	.00209	.00043
%RSD	.41254	.08627
#1	.50825	.50388
#2	.50530	.50326
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2254.3**	**1900.3**	**36924.**	**3970.8**
Stddev	9.2	7.1	99.	13.1
%RSD	.40718	.37124	.26731	.33004
#1	2260.8	1905.3	36854.	3961.6
#2	2247.8	1895.3	36994.	3980.1

Sample Name: CCB Acquired: 8/1/2014 18:24:38 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00770**	**-.00173**	**.00148**	**-.00001**	**.00000**	**.00377**	**.00009**	**-.00001**	**.00020**	**.00049**	**-.00647**
Stddev	.00012	.00698	.00020	.00015	.00002	.00009	.00616	.00006	.00001	.00047	.00033	.00434
%RSD	25.428	90.667	11.594	10.384	118.92	2344.5	163.17	66.381	97.800	236.24	67.017	67.127
#1	-.00054	.00276	-.00187	.00159	-.00000	-.00006	.00813	.00014	-.00000	.00054	.00026	-.00954
#2	-.00038	.01264	-.00159	.00138	-.00003	.00006	-.00058	.00005	-.00002	-.00013	.00073	-.00340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02373**	**-.00095**	**.00369**	**.00012**	**.00029**	**-.02397**	**-.00066**	**-.00064**	**.0176**	**-.00003**	**-.00312**	**.01347**
Stddev	.01347	.00018	.00113	.00005	.00006	.00416	.00040	.00015	.0061	.00072	.00291	.01049
%RSD	56.756	18.851	30.712	39.242	20.936	17.338	59.616	23.827	34.51	2117.4	93.459	77.870
#1	.03325	-.00108	.00289	.00008	.00033	-.02103	-.00038	-.00075	.0220	-.00054	-.00106	.02088
#2	.01421	-.00083	.00449	.00015	.00024	-.02691	-.00094	-.00053	.0133	.00048	-.00518	.00605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00001**	**-.00053**	**.00213**	**.00002**	**.00123**
Stddev	.00028	.00014	.00010	.00166	.00001	.00037
%RSD	227.95	1041.2	19.475	78.040	46.218	30.351
#1	.00032	.00011	-.00045	.00095	.00002	.00149
#2	-.00007	-.00009	-.00060	.00331	.00003	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2527.4**	**1952.9**	**38543.**	**3970.9**
Stddev	2.3	2.9	17.	9.9
%RSD	.09128	.14919	.04335	.24826
#1	2525.7	1955.0	38531.	3977.9
#2	2529.0	1950.8	38554.	3963.9

Sample Name: CCVL-2222402 Acquired: 8/1/2014 18:27:32 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00590**	**.20940**	**.01476**	**.02043**	**.00230**	**.00209**	**.50462**	**.00218**	**.00401**	**.00417**	**.00892**	**.04192**
Stddev	.00015	.01301	.00380	.00049	.00001	.00004	.00544	.00005	.00001	.00010	.00072	.00542
%RSD	2.4780	6.2106	25.712	2.4042	.39393	1.9098	1.0783	2.2025	.30067	2.3573	8.0709	12.937
#1	.00580	.21860	.01208	.02078	.00229	.00206	.50846	.00221	.00400	.00410	.00841	.04575
#2	.00600	.20021	.01745	.02008	.00230	.00212	.50077	.00214	.00401	.00424	.00943	.03808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46455**	**.02835**	**.20723**	**.00342**	**.01062**	**.94541**	**.00936**	**.01069**	**.2213**	**.01926**	**.02299**	**.50031**
Stddev	.00110	.00099	.00104	.00004	.00014	.00038	.00026	.00014	.0008	.00012	.00551	.02647
%RSD	.23640	3.4920	.50309	1.1089	1.3354	.04013	2.7464	1.3270	.3573	.62263	23.975	5.2899
#1	.46377	.02905	.20796	.00339	.01052	.94515	.00954	.01059	.2207	.01934	.02689	.48159
#2	.46533	.02765	.20649	.00345	.01073	.94568	.00918	.01079	.2219	.01917	.01909	.51902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.00514**	**.00451**	**.02451**	**.00509**	**.01047**
Stddev	.00040	.00006	.00004	.00318	.00036	.00015
%RSD	4.2701	1.2436	.94091	12.961	6.9905	1.4395
#1	.00969	.00510	.00448	.02226	.00535	.01057
#2	.00912	.00519	.00454	.02676	.00484	.01036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2519.7**	**1962.8**	**38542.**	**3990.1**
Stddev	5.0	.0	212.	2.1
%RSD	.19988	.00189	.54877	.05198
#1	2523.3	1962.8	38392.	3988.6
#2	2516.2	1962.7	38692.	3991.6

Sample Name: 480-64554-E-1-A Acquired: 8/1/2014 18:30:22 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**.31946**	**.00098**	**.03317**	**.02287**	**.00005**	**43.279**	**.00020**	**.00033**
Stddev	.00034	.00531	.00020	.00019	.00005	.00006	.019	.00002	.00005
%RSD	34.863	1.6617	20.442	.58468	.22808	108.06	.04377	9.3099	13.850
#1	-.00075	.31571	.00084	.03330	.02283	.00001	43.266	.00019	.00036
#2	-.00123	.32322	.00112	.03303	.02290	.00009	43.293	.00022	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00141**	**.31092**	**3.6237**	**.00034**	**8.2244**	**.05099**	**.00091**	**6.5360**
Stddev	.00007	.00118	.00686	.0158	.00010	.0120	.00007	.00015	.0180
%RSD	7.2751	83.660	2.2052	.43459	29.062	.14536	.13874	16.709	.27499
#1	.00091	.00224	.31576	3.6348	.00027	8.2329	.05104	.00102	6.5233
#2	.00101	.00057	.30607	3.6126	.00041	8.2160	.05094	.00080	6.5487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00021**	**5.958**	**.00016**	**.00329**	**1.3632**	**-.00040**	**.10829**	**.00719**
Stddev	.00019	.00237	.008	.00025	.00352	.0100	.00008	.00035	.00260
%RSD	139.90	1150.6	.1383	159.00	107.20	.72986	18.815	.32403	36.139
#1	-.00000	-.00147	5.964	-.00002	.00578	1.3702	-.00045	.10854	.00903
#2	-.00027	.00188	5.952	.00034	.00080	1.3562	-.00035	.10804	.00536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00222**	**.00171**	**.00307**
Stddev	.00200	.00007	.00058
%RSD	89.937	3.8199	19.010
#1	.00364	.00176	.00348
#2	.00081	.00166	.00266
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2366.9**	**1899.2**	**37589.**	**4034.2**
Stddev	9.6	1.5	108.	1.1
%RSD	.40501	.08092	.28683	.02719
#1	2373.7	1900.3	37513.	4034.9
#2	2360.1	1898.1	37665.	4033.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64554-E-2-A Acquired: 8/1/2014 18:33:10 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.14709**	**.00039**	**.03479**	**.01728**	**.00010**	**33.649**	**.00018**	**.00017**
Stddev	.00012	.02896	.00193	.00033	.00003	.00004	.059	.00009	.00007
%RSD	38.995	19.692	490.79	.96294	.19284	40.669	.17389	46.716	39.353
#1	-.00040	.16757	-.00097	.03502	.01731	.00013	33.690	.00024	.00013
#2	-.00023	.12661	.00176	.03455	.01726	.00007	33.607	.00012	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00241**	**.18459**	**3.3118**	**-.00034**	**7.9893**	**.03976**	**.00101**	**8.7760**
Stddev	.00015	.00077	.00464	.0123	.00035	.0049	.00015	.00016	.0064
%RSD	21.393	31.935	2.5125	.37177	101.58	.06085	.37594	15.819	.07251
#1	.00079	.00295	.18131	3.3205	-.00059	7.9927	.03986	.00089	8.7715
#2	.00058	.00187	.18787	3.3031	-.00010	7.9858	.03965	.00112	8.7805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00055**	**8.151**	**-.00034**	**.00189**	**1.2855**	**-.00012**	**.10394**	**.00222**
Stddev	.00018	.00107	.004	.00072	.00619	.0206	.00045	.00017	.00017
%RSD	55.491	196.99	.0509	207.78	328.07	1.6025	366.67	.16719	7.7474
#1	.00044	-.00130	8.154	-.00085	-.00249	1.3000	.00020	.10406	.00234
#2	.00019	.00021	8.148	.00016	.00626	1.2709	-.00044	.10381	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00136**	**.00149**	**.00282**
Stddev	.00539	.00009	.00057
%RSD	394.90	6.1981	20.064
#1	.00517	.00156	.00242
#2	-.00244	.00143	.00322
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2378.8**	**1893.9**	**37621.**	**4006.5**
Stddev	1.8	1.0	77.	1.7
%RSD	.07649	.05269	.20561	.04175
#1	2377.5	1893.2	37566.	4007.7
#2	2380.1	1894.6	37676.	4005.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64552-J-1-A Acquired: 8/1/2014 18:35:58 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.09162**	**.33817**	**2.6403**	**.26864**	**-.00002**	**156.00**	**.00083**	**.00671**
Stddev	.00090	.05132	.00311	.0035	.00116	.00010	.32	.00002	.00002
%RSD	96.169	56.013	.92051	.13328	.43032	531.17	.20802	2.2205	.24511
#1	-.00030	.05533	.34037	2.6379	.26782	-.00009	156.23	.00082	.00670
#2	-.00157	.12791	.33597	2.6428	.26946	.00005	155.77	.00085	.00672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00840**	**.00536**	**3.7995**	**139.71**	**.04511**	**143.10**	**.23912**	**.00144**	**473.52**
Stddev	.00041	.00011	.0073	.33	.00112	.62	.00082	.00035	.13
%RSD	4.9212	2.1410	.19336	.23545	2.4890	.43090	.34500	24.345	.02849
#1	.00811	.00528	3.8047	139.47	.04432	142.66	.23854	.00119	473.42
#2	.00870	.00544	3.7943	139.94	.04591	143.53	.23970	.00169	473.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04765**	**.00155**	F **13.01**	**.01156**	**.00848**	**10.562**	**.00207**	**.53831**	**.00524**
Stddev	.00070	.00087	.01	.00175	.00223	.010	.00074	.00199	.00023
%RSD	1.4731	56.304	.1037	15.183	26.360	.09129	35.541	.36915	4.4464
#1	.04715	.00216	13.00	.01280	.01006	10.568	.00260	.53690	.00507
#2	.04814	.00093	13.02	.01032	.00690	10.555	.00155	.53971	.00540
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00032**	**.00213**	**.01021**
Stddev	.00096	.00049	.00092
%RSD	302.44	23.158	8.9682
#1	-.00099	.00248	.00956
#2	.00036	.00178	.01086
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1887.5**	**1672.4**	**33064.**	**3890.1**
Stddev	10.6	5.1	156.	14.9
%RSD	.56299	.30242	.47303	.38336
#1	1895.0	1676.0	33174.	3879.5
#2	1879.9	1668.9	32953.	3900.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64557-A-3-A Acquired: 8/1/2014 18:38:50 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.12646**	**-.00072**	**.03125**	**.01348**	**.00004**	**19.299**	**.00012**	**.00029**
Stddev	.00007	.01417	.00390	.00033	.00003	.00009	.005	.00001	.00001
%RSD	44.515	11.208	537.84	1.0454	.24200	213.16	.02613	6.3321	3.1787
#1	-.00010	.13649	-.00348	.03148	.01346	.00011	19.296	.00012	.00030
#2	-.00020	.11644	.00203	.03102	.01351	-.00002	19.303	.00013	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.00911**	**.82460**	**2.2550**	**.00127**	**3.6276**	**.03714**	**.00188**	**28.147**
Stddev	.00038	.00028	.01256	.0208	.00018	.0010	.00009	.00007	.082
%RSD	18.339	3.0315	1.5233	.92393	14.235	.02836	.25501	3.6952	.29085
#1	.00236	.00892	.83348	2.2403	.00114	3.6269	.03708	.00193	28.205
#2	.00182	.00931	.81572	2.2697	.00140	3.6284	.03721	.00183	28.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00121**	**5.711**	**.00022**	**.00148**	**9.4953**	**-.00006**	**.05870**	**.00367**
Stddev	.00040	.00003	.024	.00029	.00612	.0784	.00005	.00018	.00066
%RSD	62.656	2.5502	.4152	131.30	414.47	.82576	82.567	.30997	18.081
#1	.00036	.00123	5.728	.00002	.00580	9.4399	-.00009	.05883	.00320
#2	.00092	.00119	5.694	.00043	-.00285	9.5508	-.00002	.05857	.00414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00233**	**.00169**	**.04853**
Stddev	.00016	.00001	.00030
%RSD	7.0572	.47683	.61545
#1	.00244	.00169	.04832
#2	.00221	.00168	.04874
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2370.1**	**1905.3**	**37695.**	**4020.2**
Stddev	.3	1.3	180.	11.7
%RSD	.01250	.06877	.47758	.28986
#1	2369.9	1904.3	37822.	4011.9
#2	2370.3	1906.2	37568.	4028.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64568-C-1-A Acquired: 8/1/2014 18:41:38 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.00314**	**.01046**	**.24561**	**.57160**	**.00013**	**219.98**	**.00037**	**.00109**
Stddev	.00075	.00305	.00517	.00047	.00450	.00001	.83	.00009	.00010
%RSD	53.430	97.080	49.414	.19135	.78796	8.2705	.37573	23.036	9.3772
#1	-.00087	.00098	.00681	.24528	.56842	.00014	220.57	.00043	.00116
#2	-.00193	.00529	.01412	.24595	.57479	.00013	219.40	.00031	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00204**	**12.855**	**11.887**	**.02607**	**59.161**	**3.0167**	**.00332**	**124.73**
Stddev	.00038	.00170	.053	.076	.00028	.006	.0022	.00019	.06
%RSD	26.352	83.478	.41559	.64116	1.0655	.01053	.07364	5.6415	.04985
#1	.00171	.00083	12.818	11.833	.02627	59.156	3.0151	.00346	124.68
#2	.00117	.00324	12.893	11.940	.02588	59.165	3.0182	.00319	124.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00504**	**.00067**	F **28.96**	**-.00110**	**.00072**	**19.846**	**.00020**	**1.1338**	**.00071**
Stddev	.00059	.00027	.06	.00168	.00351	.031	.00050	.0011	.00020
%RSD	11.779	40.831	.1966	152.75	485.64	.15507	245.67	.09501	28.729
#1	.00462	.00048	28.92	-.00229	-.00176	19.868	.00056	1.1330	.00086
#2	.00546	.00087	29.00	.00009	.00321	19.825	-.00015	1.1345	.00057
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00473**	**.00072**	**.00345**
Stddev	.00269	.00065	.00105
%RSD	56.958	90.178	30.499
#1	.00663	.00119	.00270
#2	.00282	.00026	.00419
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2049.1**	**1782.7**	**34908.**	**3858.0**
Stddev	3.3	6.6	9.	6.8
%RSD	.15876	.36793	.02462	.17641
#1	2051.4	1787.3	34914.	3853.2
#2	2046.8	1778.0	34902.	3862.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64568-C-2-A Acquired: 8/1/2014 18:44:29 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00151**	**.01711**	**1.3667**	**1.1509**	**.00012**	**167.08**	**.00037**	**.01002**
Stddev	.00060	.00844	.00165	.0003	.0017	.00002	.51	.00001	.00010
%RSD	48.402	557.30	9.6296	.02422	.14986	14.779	.30500	2.1260	1.0047
#1	-.00167	-.00445	.01828	1.3669	1.1496	.00013	167.44	.00038	.01009
#2	-.00082	.00748	.01595	1.3664	1.1521	.00011	166.72	.00037	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00958**	**.00169**	**11.742**	**49.271**	**.06191**	**48.873**	**1.6722**	**.00309**	**345.23**
Stddev	.00070	.00006	.058	.080	.00163	.076	.0001	.00007	.36
%RSD	7.2833	3.6838	.49746	.16196	2.6368	.15581	.00490	2.2267	.10526
#1	.01008	.00165	11.784	49.215	.06307	48.819	1.6722	.00304	344.97
#2	.00909	.00174	11.701	49.328	.06076	48.927	1.6721	.00314	345.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03431**	**.00290**	F **26.43**	**-.00091**	**-.00017**	**17.921**	**.00007**	**1.2082**	**.00254**
Stddev	.00040	.00045	.01	.00057	.00199	.073	.00170	.0004	.00005
%RSD	1.1666	15.492	.0422	62.468	1147.2	.40557	2598.3	.03761	2.0609
#1	.03403	.00322	26.42	-.00051	-.00158	17.973	-.00114	1.2078	.00258
#2	.03459	.00258	26.43	-.00132	.00123	17.870	.00127	1.2085	.00250
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00233**	**.00193**	**.00342**
Stddev	.00079	.00012	.00113
%RSD	33.717	6.1344	33.061
#1	-.00289	.00202	.00262
#2	-.00177	.00185	.00422
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1970.5**	**1740.3**	**33884.**	**3847.0**
Stddev	2.5	1.0	29.	19.1
%RSD	.12478	.05514	.08590	.49773
#1	1972.3	1741.0	33863.	3833.5
#2	1968.8	1739.7	33904.	3860.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64568-C-3-A Acquired: 8/1/2014 18:47:25 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00109**	**-.00045**	**.00821**	**.47344**	**.16035**	**.00010**	**123.20**	**.00052**	**.00332**
Stddev	.00018	.00185	.00155	.00201	.00050	.00005	.22	.00002	.00034
%RSD	16.311	414.33	18.831	.42393	.31428	48.738	.17860	4.2866	10.309
#1	-.00097	.00086	.00930	.47202	.16071	.00007	123.04	.00050	.00307
#2	-.00122	-.00175	.00712	.47486	.16000	.00014	123.35	.00053	.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00272**	**.00270**	**6.6558**	**60.368**	**.20924**	**49.224**	**1.9214**	**.00290**	**790.15**
Stddev	.00025	.00008	.0379	.094	.00058	.002	.0021	.00021	2.54
%RSD	9.0214	2.7983	.56929	.15625	.27814	.00364	.11011	7.1403	.32162
#1	.00290	.00275	6.6290	60.302	.20965	49.225	1.9199	.00276	788.36
#2	.00255	.00265	6.6826	60.435	.20883	49.222	1.9229	.00305	791.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01250**	**.00241**	F **183.3**	**-.00246**	**.00526**	**16.215**	**.00034**	**1.8727**	**.00075**
Stddev	.00077	.00090	.3	.00186	.00283	.040	.00017	.0019	.00053
%RSD	6.1492	37.374	.1675	75.858	53.765	.24643	51.168	.10388	70.287
#1	.01304	.00178	183.0	-.00378	.00326	16.243	.00046	1.8713	.00112
#2	.01195	.00305	183.5	-.00114	.00726	16.187	.00022	1.8741	.00038
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00312**	**.00071**	**.00396**
Stddev	.00037	.00005	.00014
%RSD	11.862	7.6066	3.4221
#1	.00286	.00067	.00405
#2	.00338	.00075	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1887.3**	**1716.5**	**32491.**	**3789.2**
Stddev	1.6	5.6	142.	6.0
%RSD	.08655	.32649	.43617	.15756
#1	1888.4	1720.4	32390.	3793.4
#2	1886.1	1712.5	32591.	3785.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64568-C-4-A Acquired: 8/1/2014 18:50:16 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.03864**	**.00154**	**.16844**	**.23573**	**-.00000**	**125.89**	**.00045**	**.00140**
Stddev	.00049	.00636	.00048	.00106	.00049	.00011	.03	.00001	.00017
%RSD	160.38	16.465	31.362	.62821	.20845	2773.8	.02722	1.6711	12.204
#1	-.00065	.04314	.00120	.16769	.23539	.00007	125.92	.00045	.00128
#2	.00004	.03414	.00188	.16919	.23608	-.00008	125.87	.00044	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.00336**	**.71303**	**19.873**	**.01942**	**59.511**	**.85556**	**.00126**	**102.79**
Stddev	.00049	.00048	.00057	.038	.00038	.131	.00270	.00003	.15
%RSD	34.992	14.350	.07964	.19364	1.9389	.21936	.31539	2.5030	.14761
#1	.00106	.00302	.71263	19.845	.01968	59.419	.85365	.00128	102.68
#2	.00175	.00370	.71343	19.900	.01915	59.603	.85747	.00124	102.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00962**	**.00200**	F **66.92**	**-.00143**	**-.00042**	**10.531**	**-.00086**	**.69537**	**.00118**
Stddev	.00033	.00135	.10	.00026	.00197	.052	.00002	.00181	.00012
%RSD	3.3843	67.336	.1456	18.096	473.05	.48927	2.5997	.26025	9.9165
#1	.00939	.00105	66.85	-.00125	-.00181	10.568	-.00084	.69409	.00127
#2	.00985	.00295	66.99	-.00161	.00098	10.495	-.00087	.69665	.00110
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00086**	**-.00009**	**.01286**
Stddev	.00106	.00015	.00155
%RSD	122.95	169.79	12.075
#1	.00011	-.00019	.01396
#2	.00161	.00002	.01176
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2116.7**	**1800.5**	**35223.**	**3868.1**
Stddev	3.7	7.7	22.	.4
%RSD	.17283	.42792	.06346	.01033
#1	2119.3	1805.9	35207.	3867.8
#2	2114.2	1795.0	35239.	3868.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64583-C-1-A Acquired: 8/1/2014 18:53:03 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**2.4057**	**-.00105**	**.10284**	**.03932**	**.00016**	**34.306**	**.00048**	**.00239**
Stddev	.00034	.0140	.00004	.00033	.00004	.00005	.387	.00018	.00008
%RSD	44.608	.57983	3.4188	.31931	.10890	28.363	1.1293	37.296	3.2323
#1	-.00100	2.4156	-.00108	.10261	.03935	.00019	34.580	.00060	.00234
#2	-.00052	2.3958	-.00103	.10307	.03929	.00013	34.032	.00035	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00508**	**.02168**	**4.0147**	**5.4516**	**.00653**	**2.8049**	**.12372**	**.00360**	**214.65**
Stddev	.00015	.00017	.0182	.0223	.00021	.0042	.00048	.00032	.83
%RSD	2.9475	.80429	.45393	.40917	3.2426	.14809	.38767	8.9893	.38599
#1	.00497	.02180	4.0276	5.4673	.00668	2.8078	.12406	.00383	215.24
#2	.00518	.02156	4.0018	5.4358	.00638	2.8020	.12338	.00337	214.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.01198**	F **8.939**	**-.00074**	**.00069**	**9.4303**	**.00056**	**.27287**	**.08458**
Stddev	.00098	.00223	.018	.00080	.00439	.0269	.00022	.00031	.00067
%RSD	24.763	18.622	.2022	108.73	635.62	.28481	39.543	.11369	.78934
#1	.00328	.01041	8.926	-.00131	-.00242	9.4493	.00072	.27308	.08505
#2	.00467	.01356	8.952	-.00017	.00380	9.4113	.00041	.27265	.08411
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00079**	**.01580**	**.32976**
Stddev	.00220	.00009	.00037
%RSD	277.57	.58908	.11237
#1	.00235	.01574	.33002
#2	-.00076	.01587	.32950
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2145.0**	**1852.7**	**35698.**	**3930.6**
Stddev	2.5	3.1	85.	25.8
%RSD	.11600	.16555	.23814	.65729
#1	2146.8	1854.9	35638.	3912.3
#2	2143.3	1850.5	35758.	3948.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 18:55:58 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50568**	**25.631**	**.50893**	**.49693**	**.50152**	**.49512**	**25.126**	**.51005**	**.51058**	**.50572**	**.48851**	**24.615**	**24.958**	**.49681**
Stddev	.00072	.047	.00014	.00131	.00275	.00190	.091	.00214	.00042	.00156	.00115	.083	.055	.00210
%RSD	.14326	.18364	.02817	.26297	.54819	.38368	.36254	.42046	.08188	.30770	.23523	.33571	.22149	.42204
#1	.50517	25.665	.50883	.49601	.49958	.49378	25.191	.50853	.51088	.50462	.48932	24.556	24.919	.49532
#2	.50619	25.598	.50903	.49786	.50347	.49647	25.062	.51157	.51029	.50682	.48770	24.673	24.997	.49829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.606**	**.51125**	**.51125**	**25.070**	**.50388**	**.51452**	**25.03**	**.50786**	**.50277**	**24.946**	**.52038**	**.51122**	**.50841**	**.50523**
Stddev	.090	.00306	.00239	.041	.00411	.00005	.05	.00026	.00208	.052	.00005	.00178	.00058	.00307
%RSD	.35159	.59756	.46818	.16492	.81640	.00881	.2037	.05121	.41449	.20760	.00869	.34764	.11472	.60669
#1	25.542	.50909	.50956	25.041	.50679	.51455	24.99	.50768	.50129	24.909	.52041	.50996	.50800	.50306
#2	25.670	.51341	.51294	25.099	.50097	.51449	25.06	.50804	.50424	24.983	.52034	.51248	.50883	.50740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50874**	**.51046**
Stddev	.00219	.00328
%RSD	.43036	.64168
#1	.50719	.50815
#2	.51029	.51278
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2251.4**	**1906.6**	**36709.**	**3898.8**
Stddev	.9	4.7	14.	2.4
%RSD	.03867	.24846	.03706	.06061
#1	2250.8	1909.9	36719.	3900.5
#2	2252.0	1903.2	36699.	3897.1

Sample Name: CCB Acquired: 8/1/2014 18:58:42 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.01685**	**-.00042**	**.00096**	**.00000**	**.00006**	**.00743**	**.00018**	**.00014**	**.00019**	**.00019**	**.00056**
Stddev	.00045	.00926	.00296	.00035	.00001	.00010	.00562	.00005	.00007	.00009	.00054	.00001
%RSD	144.63	54.937	711.06	36.356	403.73	165.91	75.568	26.945	52.106	47.979	278.24	1.4008
#1	.00001	-.01031	-.00251	.00121	.00001	.00013	.01140	.00021	.00009	.00025	.00058	.00056
#2	-.00062	-.02340	.00168	.00071	-.00000	-.00001	.00346	.00014	.00019	.00013	-.00019	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04461**	**-.00033**	**.00306**	**.00007**	**.00025**	**.00729**	**-.00056**	**-.00048**	**.0146**	**-.00005**	**.00250**	**.02203**
Stddev	.00362	.00002	.00112	.00015	.00020	.00005	.00007	.00041	.0009	.00099	.00455	.00733
%RSD	8.1223	7.4899	36.605	222.66	79.750	.66396	13.022	85.980	6.301	1863.5	182.24	33.296
#1	.04717	-.00035	.00227	.00017	.00011	.00725	-.00061	-.00019	.0153	.00065	.00571	.02721
#2	.04205	-.00031	.00385	-.00004	.00039	.00732	-.00051	-.00076	.0140	-.00075	-.00072	.01684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00011**	**-.00010**	**.00189**	**.00031**	**.00054**
Stddev	.00114	.00004	.00001	.00179	.00002	.00053
%RSD	1500.3	37.070	6.8505	94.496	5.4990	98.176
#1	.00088	.00008	-.00009	.00063	.00032	.00092
#2	-.00073	.00014	-.00010	.00315	.00030	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2522.1**	**1962.3**	**38227.**	**3898.5**
Stddev	3.9	2.7	133.	4.1
%RSD	.15280	.13639	.34877	.10580
#1	2524.8	1964.2	38321.	3895.6
#2	2519.4	1960.4	38133.	3901.4

Sample Name: 480-64583-E-2-A Acquired: 8/1/2014 19:01:35 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.31639**	**.00153**	**.11004**	**.02926**	**.00008**	**54.650**	**.00022**	**.00090**
Stddev	.00077	.01511	.00270	.00032	.00004	.00006	.372	.00000	.00029
%RSD	225.95	4.7760	176.03	.29203	.12300	68.929	.68052	.18117	32.660
#1	-.00088	.32707	.00344	.10982	.02929	.00012	54.913	.00022	.00110
#2	.00020	.30570	-.00038	.11027	.02924	.00004	54.387	.00022	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**.01403**	**.68735**	**7.3558**	**.00948**	**3.7463**	**.15908**	**.00343**	**30.270**
Stddev	.00004	.00123	.02287	.0289	.00126	.0372	.00094	.00000	.037
%RSD	1.7427	8.7336	3.3266	.39240	13.305	.99154	.59170	.11281	.12146
#1	.00246	.01490	.70351	7.3762	.00859	3.7726	.15975	.00342	30.296
#2	.00240	.01316	.67118	7.3354	.01037	3.7201	.15842	.00343	30.244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00338**	**.00555**	F **25.76**	**.00055**	**.00444**	**3.8687**	**.00006**	**.20980**	**.01290**
Stddev	.00045	.00036	.03	.00099	.00095	.0113	.00027	.00090	.00004
%RSD	13.157	6.4788	.1226	179.10	21.498	.29090	493.04	.43080	.33451
#1	.00307	.00581	25.78	.00125	.00377	3.8766	.00025	.21044	.01287
#2	.00370	.00530	25.74	-.00015	.00512	3.8607	-.00014	.20916	.01293
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00224**	**.00481**	**.03810**
Stddev	.00046	.00020	.00020
%RSD	20.503	4.1745	.51970
#1	-.00191	.00467	.03824
#2	-.00256	.00496	.03796
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2301.4**	**1869.1**	**37041.**	**3987.4**
Stddev	2.5	2.7	78.	31.9
%RSD	.10903	.14538	.20957	.79985
#1	2303.2	1871.0	36986.	3964.8
#2	2299.6	1867.1	37096.	4009.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64616-A-1-A Acquired: 8/1/2014 19:04:22 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.03742**	**-.00115**	**.91876**	**.04993**	**.00008**	**184.41**	**.00021**	**.00135**
Stddev	.00009	.02142	.00156	.00221	.00009	.00001	.50	.00013	.00014
%RSD	10.842	57.247	135.57	.24012	.17081	11.061	.27006	62.792	10.170
#1	-.00094	.05257	-.00225	.91720	.04999	.00008	184.06	.00030	.00125
#2	-.00081	.02227	-.00005	.92032	.04987	.00007	184.77	.00012	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00347**	**1.1720**	**1.8907**	**.00599**	**7.2690**	**.04718**	**.01252**	**86.406**
Stddev	.00017	.00077	.0013	.0472	.00083	.0054	.00017	.00026	.204
%RSD	12.461	22.081	.11198	2.4959	13.926	.07457	.35549	2.1061	.23583
#1	.00124	.00293	1.1711	1.8573	.00659	7.2652	.04729	.01234	86.262
#2	.00148	.00401	1.1730	1.9241	.00540	7.2728	.04706	.01271	86.550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00299**	**.00173**	F **89.22**	**-.00013**	**.00618**	**2.7116**	**.00021**	**.28182**	**.00152**
Stddev	.00035	.00142	.25	.00038	.00025	.0177	.00017	.00164	.00015
%RSD	11.632	82.359	.2778	287.80	4.1089	.65383	79.034	.58066	9.8535
#1	.00324	.00273	89.05	.00014	.00600	2.6990	.00009	.28066	.00162
#2	.00275	.00072	89.40	-.00040	.00636	2.7241	.00033	.28298	.00141
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00593**	**.00062**	**.00360**
Stddev	.00195	.00001	.00042
%RSD	32.916	1.4907	11.734
#1	.00455	.00062	.00389
#2	.00731	.00063	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2133.5**	**1787.0**	**35309.**	**3941.7**
Stddev	3.9	5.9	11.	17.0
%RSD	.18261	.33240	.03095	.43051
#1	2136.2	1791.2	35316.	3953.7
#2	2130.7	1782.8	35301.	3929.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64616-A-1-B MS Acquired: 8/1/2014 19:07:08 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04973**	**9.9494**	**.20594**	**1.1230**	**.24476**	**.19051**	**195.73**	**.20054**	**.19703**
Stddev	.00008	.0094	.00180	.0003	.00013	.00070	.15	.00015	.00013
%RSD	.16889	.09477	.87632	.02563	.05366	.36643	.07504	.07596	.06669
#1	.04967	9.9561	.20721	1.1228	.24467	.19100	195.84	.20043	.19712
#2	.04979	9.9427	.20466	1.1232	.24485	.19001	195.63	.20065	.19694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18875**	**.19614**	**10.407**	**11.686**	**.20396**	**16.980**	**.23566**	**.20691**	**96.522**
Stddev	.00253	.00007	.037	.001	.00261	.060	.00180	.00167	.193
%RSD	1.3379	.03398	.35777	.01254	1.2800	.35053	.76458	.80523	.20037
#1	.18696	.19609	10.434	11.687	.20581	16.938	.23439	.20809	96.659
#2	.19053	.19619	10.381	11.685	.20212	17.022	.23694	.20573	96.386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19194**	**.19676**	F **99.33**	**.20018**	**.20839**	**12.309**	**.19126**	**.47285**	**.18964**
Stddev	.00062	.00110	.09	.00117	.00897	.047	.00045	.00011	.00018
%RSD	.32220	.55861	.0867	.58445	4.3043	.38584	.23691	.02340	.09680
#1	.19238	.19754	99.39	.19935	.20204	12.276	.19158	.47277	.18951
#2	.19151	.19598	99.27	.20100	.21473	12.343	.19094	.47293	.18977
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19032**	**.19633**	**.18885**
Stddev	.00127	.00120	.00192
%RSD	.66907	.60979	1.0186
#1	.18942	.19549	.18749
#2	.19122	.19718	.19021
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2095.5**	**1788.5**	**35322.**	**3920.3**
Stddev	2.2	.2	195.	1.3
%RSD	.10517	.01006	.55312	.03435
#1	2093.9	1788.6	35460.	3921.2
#2	2097.0	1788.3	35184.	3919.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64616-A-1-C MSD Acquired: 8/1/2014 19:09:50 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05019**	**9.9590**	**.20419**	**1.1283**	**.24614**	**.18964**	**197.24**	**.20039**	**.19714**
Stddev	.00028	.0392	.00618	.0019	.00075	.00158	.76	.00074	.00100
%RSD	.54803	.39341	3.0264	.16923	.30403	.83215	.38637	.37105	.50755
#1	.05000	9.9313	.20856	1.1296	.24561	.18852	196.71	.20091	.19643
#2	.05039	9.9867	.19982	1.1269	.24667	.19075	197.78	.19986	.19784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18781**	**.19722**	**10.412**	**11.659**	**.20198**	**17.084**	**.23759**	**.20674**	**97.147**
Stddev	.00190	.00191	.054	.032	.00001	.082	.00200	.00046	.442
%RSD	1.0100	.96783	.51541	.27788	.00532	.47977	.84051	.22085	.45454
#1	.18647	.19857	10.374	11.636	.20198	17.026	.23617	.20706	96.835
#2	.18915	.19587	10.450	11.682	.20199	17.142	.23900	.20642	97.459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19168**	**.19696**	F **99.96**	**.20062**	**.20239**	**12.303**	**.19074**	**.47508**	**.18978**
Stddev	.00051	.00194	.17	.00070	.00845	.044	.00020	.00231	.00064
%RSD	.26597	.98514	.1716	.35111	4.1763	.35795	.10543	.48649	.33624
#1	.19204	.19833	100.1	.20012	.20836	12.272	.19088	.47345	.18933
#2	.19132	.19559	99.84	.20112	.19641	12.334	.19060	.47672	.19023
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19478**	**.19792**	**.18993**
Stddev	.00004	.00145	.00296
%RSD	.01953	.73372	1.5569
#1	.19475	.19690	.18784
#2	.19480	.19895	.19202
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2094.6**	**1786.0**	**35396.**	**3944.8**
Stddev	1.0	4.0	260.	18.8
%RSD	.04927	.22296	.73347	.47676
#1	2095.3	1783.1	35580.	3958.1
#2	2093.9	1788.8	35213.	3931.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64588-B-1-A Acquired: 8/1/2014 19:12:32 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.00800**	**-.00013**	**.38916**	**.05973**	**.00009**	**112.89**	**.00027**	**-.00005**
Stddev	.00067	.00029	.00054	.00050	.00021	.00016	.10	.00002	.00003
%RSD	77.830	3.6413	406.98	.12765	.35081	183.67	.09293	6.6411	48.637
#1	-.00133	.00779	-.00051	.38881	.05988	.00020	112.81	.00028	-.00003
#2	-.00039	.00821	.00025	.38951	.05959	-.00003	112.96	.00026	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.00096**	**.19474**	**4.2727**	**.07674**	**37.150**	**.10221**	**.00069**	**64.194**
Stddev	.00009	.00048	.00441	.0136	.00017	.023	.00039	.00014	.244
%RSD	6.6220	50.413	2.2630	.31820	.22064	.06183	.37998	20.339	.37983
#1	.00145	.00062	.19786	4.2823	.07662	37.166	.10248	.00079	64.021
#2	.00132	.00130	.19163	4.2631	.07686	37.133	.10193	.00059	64.366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00069**	F **33.59**	**-.00021**	**.00169**	**6.4388**	**-.00040**	**1.4116**	**-.00004**
Stddev	.00033	.00036	.06	.00194	.00190	.0185	.00074	.0001	.00013
%RSD	74.590	52.440	.1647	932.10	112.05	.28795	183.78	.01018	374.93
#1	.00021	.00094	33.55	-.00158	.00035	6.4519	-.00092	1.4117	.00006
#2	.00067	.00043	33.63	.00116	.00303	6.4257	.00012	1.4115	-.00013
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00442**	**.00007**	**.00127**
Stddev	.00315	.00004	.00022
%RSD	71.319	56.662	17.042
#1	.00219	.00009	.00112
#2	.00665	.00004	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2179.7**	**1827.5**	**35941.**	**3914.9**
Stddev	1.4	1.9	14.	10.6
%RSD	.06522	.10236	.04029	.26978
#1	2180.7	1828.9	35931.	3922.4
#2	2178.7	1826.2	35951.	3907.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64588-B-2-A Acquired: 8/1/2014 19:15:18 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.01424**	**.00067**	**.34356**	**.06520**	**.00006**	**123.36**	**.00029**	**.00004**
Stddev	.00035	.02541	.00145	.00123	.00035	.00011	.83	.00009	.00016
%RSD	77.286	178.48	216.13	.35663	.54401	200.98	.67009	31.639	428.94
#1	-.00021	-.03220	-.00035	.34442	.06495	.00013	122.78	.00023	.00015
#2	-.00070	.00373	.00169	.34269	.06545	-.00002	123.95	.00036	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00164**	**.00148**	**.49496**	**3.7442**	**.06836**	**33.082**	**.26807**	**.00029**	**56.156**
Stddev	.00013	.00057	.00258	.0063	.00055	.174	.00096	.00061	.256
%RSD	8.0657	38.348	.52188	.16965	.81019	.52545	.35627	209.37	.45519
#1	.00155	.00108	.49314	3.7397	.06875	32.959	.26740	-.00014	55.976
#2	.00173	.00188	.49679	3.7487	.06796	33.204	.26875	.00072	56.337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00126**	F **30.09**	**.00086**	**.00216**	**5.8811**	**-.00066**	**1.3570**	**.00054**
Stddev	.00002	.00112	.08	.00037	.00103	.1006	.00014	.0021	.00009
%RSD	3.5463	89.560	.2667	43.143	47.759	1.7106	21.505	.15500	16.822
#1	.00045	.00046	30.15	.00060	.00289	5.8099	-.00077	1.3555	.00061
#2	.00043	.00205	30.04	.00112	.00143	5.9522	-.00056	1.3585	.00048
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00276**	**.00020**	**.00504**
Stddev	.00208	.00018	.00021
%RSD	75.343	87.019	4.1141
#1	.00424	.00008	.00519
#2	.00129	.00033	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2194.8**	**1842.0**	**36048.**	**3963.2**
Stddev	3.7	.2	279.	28.8
%RSD	.16707	.01081	.77377	.72610
#1	2197.3	1842.2	36245.	3983.6
#2	2192.2	1841.9	35850.	3942.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64597-D-1-A Acquired: 8/1/2014 19:18:05 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.04334**	**.00080**	**.03655**	**.02297**	**.00011**	**31.807**	**.00008**	**.00002**
Stddev	.00012	.03072	.00365	.00010	.00006	.00001	.011	.00000	.00002
%RSD	31.209	70.877	456.34	.28553	.24218	11.675	.03417	5.4753	102.87
#1	-.00048	.06507	.00338	.03662	.02301	.00010	31.799	.00008	.00003
#2	-.00030	.02162	-.00178	.03648	.02293	.00012	31.814	.00009	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**.00403**	**.07092**	**1.8259**	**.00590**	**8.2340**	**.00190**	**.02859**	**13.985**
Stddev	.00049	.00011	.00057	.0188	.00049	.0110	.00009	.00003	.014
%RSD	50.176	2.7152	.79828	1.0309	8.2423	.13401	4.8801	.12036	.09668
#1	.00063	.00395	.07052	1.8126	.00555	8.2262	.00197	.02861	13.995
#2	.00133	.00410	.07132	1.8392	.00624	8.2418	.00184	.02856	13.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01335**	**.00080**	**8.121**	**.00216**	**.00056**	**.96814**	**.00016**	**.16266**	**.00009**
Stddev	.00067	.00062	.004	.00161	.00225	.00335	.00043	.00048	.00030
%RSD	4.9881	77.806	.0529	74.399	402.43	.34594	272.85	.29540	323.48
#1	.01382	.00124	8.118	.00102	-.00103	.96577	.00046	.16232	.00030
#2	.01288	.00036	8.124	.00330	.00215	.97051	-.00015	.16300	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00256**	**.00038**	**.00277**
Stddev	.00252	.00004	.00018
%RSD	98.373	10.017	6.6248
#1	.00078	.00041	.00264
#2	.00434	.00035	.00290
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2370.3**	**1904.0**	**37173.**	**3963.4**
Stddev	6.6	5.6	35.	10.0
%RSD	.28016	.29475	.09333	.25106
#1	2375.0	1908.0	37149.	3956.3
#2	2365.7	1900.1	37198.	3970.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64597-A-2-A Acquired: 8/1/2014 19:20:52 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.06564**	**-.00233**	**.02573**	**.02344**	**.00004**	**32.788**	**.00027**	**.00007**
Stddev	.00029	.03229	.00055	.00036	.00002	.00001	.199	.00003	.00003
%RSD	540.82	49.189	23.758	1.4029	.06803	23.555	.60755	10.249	39.460
#1	-.00015	.08847	-.00194	.02598	.02343	.00003	32.647	.00029	.00005
#2	.00026	.04281	-.00273	.02547	.02345	.00004	32.929	.00025	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00299**	**.07395**	**1.5624**	**.00169**	**9.0033**	**.00561**	**.00142**	**11.373**
Stddev	.00025	.00062	.00535	.0137	.00004	.0255	.00003	.00023	.017
%RSD	19.814	20.594	7.2325	.87938	2.5070	.28300	.58644	16.502	.14705
#1	.00146	.00343	.07773	1.5526	.00166	8.9853	.00559	.00159	11.385
#2	.00110	.00256	.07017	1.5721	.00172	9.0213	.00563	.00126	11.361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00004**	**7.351**	**.00054**	**-.00031**	**.34709**	**.00010**	**.16892**	**.00056**
Stddev	.00022	.00132	.004	.00197	.00456	.01523	.00109	.00091	.00041
%RSD	34.994	3248.1	.0553	365.89	1493.0	4.3867	1141.2	.53817	72.819
#1	.00047	-.00089	7.348	.00194	-.00353	.35786	-.00068	.16956	.00085
#2	.00078	.00097	7.354	-.00086	.00292	.33632	.00087	.16827	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00169**	**.00065**	**.00340**
Stddev	.00311	.00015	.00110
%RSD	183.97	22.609	32.278
#1	-.00051	.00054	.00262
#2	.00388	.00075	.00417
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2364.2**	**1902.2**	**37297.**	**3959.9**
Stddev	1.5	2.6	22.	8.7
%RSD	.06327	.13420	.05951	.21986
#1	2363.1	1904.0	37313.	3966.1
#2	2365.3	1900.4	37282.	3953.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64622-B-3-A Acquired: 8/1/2014 19:23:40 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.00214**	**.00159**	**.02218**	**.00567**	**.00000**	**36.074**	**.00012**	**.00018**
Stddev	.00032	.00700	.00397	.00001	.00001	.00017	.055	.00001	.00006
%RSD	48.151	327.40	250.05	.04743	.12771	26488.	.15276	5.7873	33.580
#1	-.00044	.00281	-.00122	.02219	.00566	-.00012	36.113	.00012	.00023
#2	-.00090	-.00709	.00440	.02218	.00567	.00012	36.035	.00013	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.01226**	**.11495**	**3.1763**	**.00223**	**2.2310**	**.00173**	**.00014**	**21.944**
Stddev	.00026	.00077	.00112	.0264	.00002	.0007	.00001	.00007	.065
%RSD	47.759	6.2844	.97409	.83235	.93825	.02946	.54064	51.448	.29414
#1	.00074	.01280	.11415	3.1950	.00224	2.2306	.00172	.00009	21.990
#2	.00036	.01171	.11574	3.1576	.00221	2.2315	.00174	.00019	21.899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00218**	**5.400**	**-.00220**	**-.00121**	**5.0915**	**-.00027**	**.41730**	**-.00004**
Stddev	.00061	.00059	.009	.00129	.00257	.0059	.00034	.00082	.00015
%RSD	126.30	27.040	.1677	58.379	212.57	.11589	126.20	.19550	370.02
#1	.00005	.00259	5.406	-.00311	.00061	5.0873	-.00003	.41672	-.00015
#2	.00091	.00176	5.394	-.00129	-.00302	5.0957	-.00051	.41787	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00026**	**.00033**	**.01325**
Stddev	.00169	.00040	.00066
%RSD	643.01	119.79	4.9605
#1	-.00093	.00062	.01278
#2	.00146	.00005	.01371
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2355.1**	**1901.9**	**37387.**	**3923.4**
Stddev	3.9	1.5	28.	22.9
%RSD	.16477	.07936	.07403	.58296
#1	2352.4	1900.8	37367.	3907.2
#2	2357.9	1902.9	37406.	3939.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64566-D-1-A Acquired: 8/1/2014 19:26:29 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.20710**	**.24604**	F **17.026**	**1.4192**	**.00006**	**65.978**	**.00061**	**.05736**
Stddev	.00151	.00341	.00504	.004	.0007	.00010	.088	.00009	.00008
%RSD	359.59	1.6458	2.0492	.02188	.05196	171.94	.13356	14.618	.13582
#1	.00149	.20469	.24248	17.028	1.4197	-.00001	65.916	.00054	.05731
#2	-.00065	.20951	.24961	17.023	1.4186	.00013	66.040	.00067	.05742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				14.000					
Low Limit				-.02000					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.31507**	**.05208**	**6.2313**	**514.10**	**.26265**	**101.35**	**.24873**	**.03950**	**1944.2**
Stddev	.00030	.00116	.0050	2.42	.00120	.03	.00076	.00001	1.1
%RSD	.09659	2.2263	.08034	.47080	.45646	.03081	.30471	.03564	.05704
#1	.31485	.05290	6.2348	515.81	.26349	101.38	.24926	.03951	1945.0
#2	.31528	.05126	6.2277	512.39	.26180	101.33	.24819	.03949	1943.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42783**	**.00716**	F **32.85**	**.00238**	**.00786**	**16.570**	**.03107**	**1.1420**	**.11980**
Stddev	.00034	.00080	.05	.00132	.00598	.047	.00067	.0013	.00001
%RSD	.07877	11.188	.1524	55.441	76.159	.28508	2.1443	.10932	.00931
#1	.42760	.00772	32.89	.00332	.01209	16.537	.03154	1.1429	.11981
#2	.42807	.00659	32.82	.00145	.00363	16.604	.03059	1.1411	.11980
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00297**	**.09796**	**.06499**
Stddev	.00489	.00004	.00211
%RSD	164.58	.04457	3.2518
#1	-.00643	.09799	.06648
#2	.00049	.09793	.06350
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1696.7**	**1613.6**	**30385.**	**3732.0**
Stddev	3.0	3.4	25.	.7
%RSD	.17520	.21279	.08162	.01824
#1	1698.8	1616.0	30403.	3732.5
#2	1694.6	1611.2	30368.	3731.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 19:29:27 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50496**	**25.637**	**.50551**	**.51418**	**.50424**	**.49294**	**24.640**	**.51010**	**.50917**	**.49760**	**.48666**	**24.362**	**25.389**	**.50484**
Stddev	.00181	.094	.00030	.00309	.00141	.00192	.207	.00061	.00174	.00182	.00056	.054	.083	.00003
%RSD	.35893	.36528	.05990	.60190	.27910	.39032	.84124	.11864	.34217	.36504	.11491	.21989	.32539	.00587
#1	.50368	25.703	.50530	.51636	.50325	.49158	24.493	.50967	.50793	.49631	.48627	24.324	25.331	.50486
#2	.50624	25.571	.50573	.51199	.50524	.49430	24.786	.51053	.51040	.49888	.48706	24.400	25.448	.50482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.450**	**.50642**	**.51182**	**25.330**	**.50089**	**.51243**	**24.98**	**.50418**	**.50288**	**26.603**	**.51840**	**.51411**	**.50477**	**.50627**
Stddev	.042	.00079	.00058	.012	.00333	.00462	.01	.00109	.00183	.578	.00065	.00153	.00001	.00062
%RSD	.16658	.15585	.11378	.04542	.66462	.90201	.0566	.21655	.36298	2.1733	.12536	.29676	.00164	.12328
#1	25.420	.50586	.51141	25.322	.49853	.50916	24.99	.50495	.50417	27.011	.51794	.51303	.50477	.50583
#2	25.480	.50697	.51223	25.338	.50324	.51570	24.97	.50340	.50159	26.194	.51886	.51519	.50478	.50672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50440**	**.49787**
Stddev	.00027	.00547
%RSD	.05392	1.0992
#1	.50421	.49400
#2	.50459	.50174
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2250.5**	**1903.1**	**37036.**	**3983.0**
Stddev	.3	4.0	42.	29.1
%RSD	.01478	.21067	.11265	.73026
#1	2250.3	1900.3	37066.	4003.6
#2	2250.7	1906.0	37007.	3962.5

Sample Name: CCB Acquired: 8/1/2014 19:32:10 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.01167**	**.00029**	**.01039**	**-.00002**	**.00004**	**.00210**	**.00021**	**-.00002**	**-.00007**	**.00014**	**-.00325**
Stddev	.00058	.00563	.00144	.00047	.00001	.00008	.00599	.00005	.00008	.00020	.00028	.00280
%RSD	86.046	48.252	501.00	4.5453	27.647	177.48	284.61	23.410	331.42	279.96	202.54	86.166
#1	-.00027	.00769	-.00073	.01072	-.00002	.00010	.00634	.00017	-.00008	.00007	-.00006	-.00524
#2	-.00109	.01565	.00130	.01005	-.00001	-.00001	-.00213	.00024	.00003	-.00021	.00033	-.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24414**	**-.00013**	**-.00055**	**.00010**	**.00014**	**.07479**	**-.00050**	**-.00048**	**.0096**	**-.00076**	**.00003**	**.07464**
Stddev	.00619	.00024	.00023	.00004	.00027	.00388	.00026	.00039	.0063	.00098	.00307	.01605
%RSD	2.5352	189.06	41.156	36.625	189.62	5.1842	53.219	82.652	65.34	128.81	9269.5	21.505
#1	.24852	.00004	-.00039	.00013	-.00005	.07205	-.00031	-.00020	.0140	-.00007	-.00214	.06329
#2	.23976	-.00029	-.00072	.00007	.00033	.07753	-.00068	-.00075	.0052	-.00145	.00220	.08599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00012**	**-.00008**	**.00041**	**.00030**	**.00113**
Stddev	.00027	.00011	.00002	.00073	.00005	.00053
%RSD	52.609	91.728	21.439	180.82	17.961	46.499
#1	.00032	.00020	-.00006	.00093	.00027	.00150
#2	.00070	.00004	-.00009	-.00011	.00034	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2520.0**	**1964.3**	**38073.**	**3896.6**
Stddev	.5	2.2	150.	32.1
%RSD	.02079	.10947	.39503	.82416
#1	2519.7	1965.8	38180.	3873.9
#2	2520.4	1962.8	37967.	3919.3

Sample Name: CCVL-2222402 Acquired: 8/1/2014 19:35:03 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00625**	**.24718**	**.01349**	W **.02677**	**.00234**	**.00211**	**.50681**	**.00209**	**.00396**	**.00426**	**.00906**
Stddev	.00032	.02087	.00121	.00075	.00001	.00001	.00257	.00001	.00017	.00003	.00007
%RSD	5.1826	8.4420	8.9890	2.8025	.33781	.61606	.50714	.61540	4.2361	.66030	.81624
#1	.00602	.23242	.01435	.02730	.00234	.00210	.50863	.00209	.00408	.00428	.00911
#2	.00647	.26194	.01263	.02624	.00233	.00212	.50500	.00210	.00384	.00424	.00901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.02000							
Range				30.000%							

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05104**	**.62792**	**.02783**	**.20803**	**.00349**	**.01038**	**1.0148**	**.00955**	**.01024**	**.2146**	**.02083**
Stddev	.00126	.03075	.00048	.00377	.00002	.00011	.0002	.00005	.00104	.0038	.00094
%RSD	2.4608	4.8972	1.7171	1.8125	.48243	1.0500	.02221	.48073	10.172	1.779	4.4955
#1	.05193	.60617	.02817	.20536	.00348	.01030	1.0147	.00958	.01097	.2173	.02017
#2	.05015	.64966	.02749	.21069	.00350	.01045	1.0150	.00952	.00950	.2119	.02150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02074**	**.52118**	**.01004**	**.00521**	**.00468**	**.02082**	**.00548**	**.01130**
Stddev	.00235	.00593	.00038	.00021	.00023	.00070	.00000	.00001
%RSD	11.314	1.1386	3.8160	4.0616	4.9608	3.3391	.07249	.11146
#1	.02240	.52537	.01031	.00506	.00452	.02131	.00548	.01130
#2	.01908	.51698	.00977	.00536	.00485	.02033	.00549	.01129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2513.0**	**1972.0**	**38440.**	**3924.7**
Stddev	.6	1.1	69.	8.6
%RSD	.02555	.05741	.18071	.21890
#1	2512.6	1971.2	38489.	3930.8
#2	2513.5	1972.8	38391.	3918.7

Sample Name: MB 480-195523/1-B Acquired: 8/1/2014 19:37:54 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.01771**	**-.00060**	**.00821**	**.00016**	**.00015**	**.05172**	**.00012**	**.00004**
Stddev	.00063	.00283	.00029	.00041	.00000	.00005	.00122	.00007	.00005
%RSD	338.25	15.996	48.306	5.0101	2.8860	34.773	2.3586	55.991	106.12
#1	.00026	.01972	-.00081	.00792	.00017	.00019	.05258	.00017	.00001
#2	-.00063	.01571	-.00040	.00850	.00016	.00011	.05086	.00007	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00026**	**-.00370**	**.11390**	**-.00010**	**.00308**	**.00012**	**.00013**	**.10236**
Stddev	.00043	.00101	.00614	.00007	.00025	.00671	.00006	.00009	.00297
%RSD	34.617	394.46	166.22	.06460	249.98	218.04	47.316	71.299	2.8999
#1	.00093	.00097	-.00804	.11395	-.00028	-.00167	.00008	.00019	.10026
#2	.00154	-.00046	.00065	.11385	.00008	.00782	.00016	.00006	.10446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.00029**	F **.0246**	**-.00008**	**.00240**	**.03009**	**-.00028**	**.00037**	**-.00061**
Stddev	.00020	.00066	.0028	.00038	.00237	.01069	.00003	.00005	.00014
%RSD	28.757	230.53	11.57	453.07	98.830	35.533	10.596	12.768	23.416
#1	-.00054	-.00018	.0226	-.00035	.00072	.03765	-.00030	.00040	-.00071
#2	-.00082	.00075	.0266	.00018	.00407	.02253	-.00026	.00033	-.00051
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00098**	**.00029**	**.00211**
Stddev	.00375	.00007	.00023
%RSD	382.59	24.790	11.100
#1	-.00167	.00024	.00228
#2	.00363	.00034	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2534.2**	**1966.5**	**38695.**	**4014.7**
Stddev	7.8	10.5	158.	10.5
%RSD	.30753	.53577	.40776	.26052
#1	2539.7	1974.0	38583.	4007.3
#2	2528.7	1959.1	38807.	4022.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195523/2-B Acquired: 8/1/2014 19:40:46 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05124**	**10.537**	**.20745**	**.20880**	**.21276**	**.20243**	**9.9839**	**.20529**	**.20390**
Stddev	.00043	.021	.00193	.00040	.00016	.00133	.0418	.00001	.00018
%RSD	.84897	.19492	.93223	.19289	.07321	.65858	.41855	.00608	.08615
#1	.05154	10.551	.20608	.20852	.21265	.20337	10.013	.20528	.20402
#2	.05093	10.522	.20882	.20909	.21287	.20149	9.9544	.20530	.20377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20267**	**.19951**	**10.003**	**9.9921**	**.19911**	**10.531**	**.20574**	**.20575**	**10.118**
Stddev	.00092	.00105	.027	.0236	.00158	.009	.00085	.00094	.015
%RSD	.45257	.52816	.27011	.23605	.79512	.08399	.41215	.45622	.14494
#1	.20332	.20025	10.022	10.009	.19799	10.538	.20634	.20509	10.108
#2	.20202	.19876	9.9839	9.9755	.20023	10.525	.20514	.20642	10.129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19600**	**.20469**	**10.04**	**.20218**	**.20350**	**10.030**	**.19766**	**.20398**	**.19959**
Stddev	.00025	.00165	.03	.00113	.00071	.011	.00092	.00080	.00125
%RSD	.12723	.80721	.2578	.55707	.34743	.11016	.46725	.39041	.62560
#1	.19618	.20352	10.03	.20298	.20300	10.022	.19700	.20454	.20047
#2	.19582	.20586	10.06	.20139	.20400	10.038	.19831	.20342	.19870
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21134**	**.20856**	**.20224**
Stddev	.00141	.00061	.00071
%RSD	.66914	.29023	.35146
#1	.21234	.20899	.20274
#2	.21034	.20814	.20174
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2369.6**	**1932.2**	**37826.**	**3981.0**
Stddev	3.5	.4	9.	3.7
%RSD	.14625	.02029	.02301	.09406
#1	2372.1	1932.5	37833.	3978.4
#2	2367.2	1931.9	37820.	3983.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-1-B Acquired: 8/1/2014 19:43:29 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.08765**	**-.00144**	**.02084**	**.27899**	**.00022**	**25.400**	**.00023**	**.00048**
Stddev	.00039	.02654	.00016	.00011	.00051	.00006	.061	.00006	.00014
%RSD	44.942	30.281	10.900	.54226	.18268	27.037	.24141	28.249	30.172
#1	-.00115	.10641	-.00132	.02092	.27863	.00018	25.357	.00028	.00058
#2	-.00059	.06888	-.00155	.02076	.27935	.00027	25.443	.00018	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.00102**	**.02122**	**1.3518**	**.00180**	**6.7785**	**.10111**	**.00014**	**43.087**
Stddev	.00067	.00077	.00699	.0132	.00059	.0097	.00011	.00002	.057
%RSD	34.832	75.760	32.926	.97525	33.037	.14288	.10814	11.722	.13245
#1	.00238	.00156	.01628	1.3611	.00222	6.7717	.10103	.00012	43.128
#2	.00144	.00047	.02617	1.3424	.00138	6.7854	.10119	.00015	43.047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00441**	**.00056**	**8.011**	**.00131**	**.00093**	**5.1072**	**-.00061**	**.10604**	**.00010**
Stddev	.00058	.00140	.013	.00089	.00252	.0171	.00050	.00044	.00019
%RSD	13.049	251.54	.1645	68.016	270.79	.33431	81.576	.41955	193.35
#1	.00482	.00155	8.002	.00068	.00272	5.0951	-.00026	.10572	-.00004
#2	.00401	-.00043	8.020	.00194	-.00085	5.1193	-.00096	.10635	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00245**	**.00006**	**.04335**
Stddev	.00042	.00037	.00038
%RSD	17.287	677.69	.87104
#1	.00215	.00032	.04362
#2	.00274	-.00021	.04309
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2328.8**	**1902.9**	**37032.**	**3927.7**
Stddev	2.2	2.5	19.	1.5
%RSD	.09604	.13271	.05004	.03878
#1	2330.4	1904.7	37019.	3928.8
#2	2327.2	1901.1	37045.	3926.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-1-B SD@5 Acquired: 8/1/2014 19:46:16 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.02568**	**.00128**	**.00905**	**.05569**	**.00010**	**5.0888**	**.00021**	**.00000**
Stddev	.00028	.02275	.00167	.00019	.00008	.00001	.0403	.00010	.00012
%RSD	69.820	88.606	130.39	2.0770	.14310	5.8154	.79300	45.985	2458.6
#1	-.00020	.04177	.00246	.00919	.05575	.00010	5.1174	.00028	-.00008
#2	-.00060	.00959	.00010	.00892	.05563	.00010	5.0603	.00014	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00017**	**.00381**	**.31890**	**-.00003**	**1.3293**	**.02022**	**-.00003**	**8.3950**
Stddev	.00038	.00060	.00290	.02496	.00042	.0069	.00018	.00021	.0221
%RSD	81.768	348.73	76.122	7.8282	1569.3	.51603	.86718	703.53	.26272
#1	.00072	-.00025	.00586	.33655	.00027	1.3342	.02034	-.00018	8.3795
#2	.00019	.00059	.00176	.30125	-.00032	1.3245	.02009	.00012	8.4106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00028**	**1.535**	**.00002**	**.00156**	**.99699**	**-.00040**	**.02146**	**-.00034**
Stddev	.00030	.00041	.009	.00041	.00608	.00021	.00010	.00005	.00022
%RSD	80.007	147.67	.6056	1727.5	389.67	.02155	23.774	.24299	65.708
#1	.00059	.00001	1.542	-.00026	.00586	.99684	-.00047	.02142	-.00018
#2	.00016	-.00057	1.529	.00031	-.00274	.99714	-.00033	.02149	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00026**	**.00045**	**.00835**
Stddev	.00101	.00036	.00068
%RSD	389.56	80.132	8.1334
#1	-.00097	.00070	.00883
#2	.00045	.00019	.00787
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2456.3**	**1939.4**	**37773.**	**3895.6**
Stddev	1.5	2.7	90.	4.7
%RSD	.06293	.13727	.23846	.12177
#1	2455.2	1937.5	37709.	3892.2
#2	2457.4	1941.3	37836.	3898.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-1-B PDS Acquired: 8/1/2014 19:49:06 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04819**	**10.404**	**.21443**	**.21834**	**.45001**	**.20961**	**34.619**	**.21385**	**.21478**
Stddev	.00028	.028	.00230	.00177	.00063	.00005	.099	.00036	.00009
%RSD	.58416	.26885	1.0748	.80908	.13973	.02286	.28601	.17050	.04084
#1	.04799	10.384	.21606	.21958	.44956	.20964	34.549	.21411	.21484
#2	.04839	10.423	.21280	.21709	.45045	.20957	34.689	.21359	.21471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21500**	**.20427**	**10.227**	**11.188**	**.19980**	**17.217**	**.30452**	**.21190**	**52.499**
Stddev	.00079	.00257	.015	.031	.00055	.022	.00029	.00024	.138
%RSD	.36913	1.2602	.15112	.27774	.27405	.12726	.09392	.11438	.26337
#1	.21556	.20609	10.216	11.166	.19941	17.201	.30432	.21207	52.401
#2	.21443	.20245	10.238	11.210	.20018	17.232	.30472	.21172	52.596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21076**	**.20965**	**7.798**	**.20929**	**.21131**	**15.035**	**.20415**	**.30343**	**.20491**
Stddev	.00005	.00178	.017	.00286	.00171	.025	.00034	.00034	.00022
%RSD	.02474	.85078	.2188	1.3655	.80826	.16849	.16543	.11293	.10514
#1	.21080	.21091	7.810	.21131	.21011	15.053	.20391	.30319	.20507
#2	.21073	.20838	7.786	.20727	.21252	15.018	.20439	.30367	.20476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21427**	**.21633**	**.24911**
Stddev	.00416	.00055	.00257
%RSD	1.9421	.25380	1.0326
#1	.21721	.21671	.24729
#2	.21133	.21594	.25093
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2252.8**	**1899.8**	**37145.**	**3947.1**
Stddev	3.1	.6	28.	20.5
%RSD	.13576	.03056	.07649	.51951
#1	2255.0	1899.4	37165.	3961.6
#2	2250.6	1900.2	37125.	3932.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-1-C MS Acquired: 8/1/2014 19:51:54 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05198**	**10.549**	**.20904**	**.22127**	**.47248**	**.20524**	**35.360**	**.20576**	**.20713**
Stddev	.00032	.034	.00148	.00095	.00001	.00047	.170	.00012	.00024
%RSD	.61614	.32366	.70578	.42858	.00299	.23092	.47946	.05930	.11469
#1	.05221	10.574	.20799	.22194	.47249	.20491	35.240	.20585	.20696
#2	.05176	10.525	.21008	.22060	.47247	.20558	35.480	.20568	.20729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20006**	**.20147**	**10.011**	**11.423**	**.20439**	**17.178**	**.30369**	**.20536**	**54.599**
Stddev	.00241	.00110	.017	.010	.00105	.009	.00014	.00052	.044
%RSD	1.2065	.54524	.16492	.08895	.51227	.05011	.04483	.25411	.08083
#1	.19835	.20224	9.9998	11.430	.20513	17.172	.30379	.20573	54.568
#2	.20176	.20069	10.023	11.415	.20365	17.184	.30360	.20500	54.630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20454**	**.20702**	F **18.28**	**.20282**	**.20685**	**15.237**	**.20167**	**.31032**	**.20039**
Stddev	.00020	.00402	.01	.00089	.00455	.009	.00077	.00017	.00132
%RSD	.09919	1.9437	.0374	.43826	2.2003	.05663	.37947	.05527	.65896
#1	.20440	.20417	18.29	.20345	.21006	15.231	.20113	.31020	.19946
#2	.20468	.20987	18.28	.20219	.20363	15.243	.20221	.31044	.20133
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20798**	**.21059**	**.24337**
Stddev	.00485	.00097	.00184
%RSD	2.3325	.46067	.75651
#1	.20455	.20990	.24207
#2	.21141	.21127	.24467
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2261.3**	**1902.4**	**37086.**	**3950.5**
Stddev	4.5	1.3	143.	16.2
%RSD	.19728	.06915	.38577	.41070
#1	2264.4	1903.4	37187.	3962.0
#2	2258.1	1901.5	36985.	3939.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-1-D MSD Acquired: 8/1/2014 19:54:42 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05040**	**10.054**	**.20171**	**.21492**	**.45401**	**.19773**	**34.044**	**.20046**	**.20119**
Stddev	.00108	.067	.00343	.00041	.00521	.00081	.013	.00022	.00039
%RSD	2.1343	.66905	1.6999	.18850	1.1480	.41161	.03680	.10799	.19566
#1	.04964	10.101	.20414	.21463	.45032	.19715	34.035	.20031	.20091
#2	.05116	10.006	.19929	.21520	.45769	.19830	34.053	.20062	.20147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19419**	**.19696**	**9.7376**	**10.909**	**.19512**	**16.652**	**.29679**	**.19943**	**52.011**
Stddev	.00101	.00128	.0720	.087	.00011	.067	.00132	.00025	.154
%RSD	.52000	.65081	.73904	.80210	.05461	.40257	.44414	.12485	.29525
#1	.19347	.19787	9.6867	10.847	.19504	16.605	.29586	.19961	51.902
#2	.19490	.19606	9.7885	10.971	.19519	16.699	.29772	.19926	52.119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19869**	**.19819**	F **17.65**	**.19949**	**.19762**	**14.752**	**.19617**	**.29574**	**.19488**
Stddev	.00069	.00008	.02	.00042	.00076	.014	.00026	.00066	.00087
%RSD	.34502	.04101	.1377	.21127	.38568	.09541	.13273	.22447	.44623
#1	.19918	.19825	17.67	.19920	.19816	14.742	.19635	.29527	.19427
#2	.19821	.19813	17.63	.19979	.19708	14.762	.19598	.29620	.19550
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20528**	**.20727**	**.23899**
Stddev	.00060	.00103	.00050
%RSD	.29231	.49819	.20796
#1	.20571	.20654	.23934
#2	.20486	.20800	.23864
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2269.8**	**1907.5**	**37148.**	**3963.6**
Stddev	1.7	1.3	96.	2.2
%RSD	.07494	.07023	.25763	.05491
#1	2271.0	1908.5	37216.	3965.1
#2	2268.6	1906.6	37080.	3962.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-3-B Acquired: 8/1/2014 19:57:30 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.00324**	**2.3551**	**.00012**	**.00907**	**.02381**	**.00459**	**121.78**	**.01070**	**.06940**
Stddev	.00006	.0348	.00079	.00015	.00008	.00001	.19	.00004	.00008
%RSD	1.8798	1.4789	650.59	1.6092	.33225	.28935	.15830	.36886	.11759
#1	-.00328	2.3304	-.00044	.00918	.02386	.00460	121.65	.01073	.06946
#2	-.00320	2.3797	.00068	.00897	.02375	.00458	121.92	.01067	.06935
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000								
Low Limit	-.00300								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00299**	**.00587**	**.03188**	**3.2635**	**.02665**	**33.224**	**21.707**	**.00006**	**202.84**
Stddev	.00005	.00012	.00072	.0032	.00084	.045	.031	.00003	.72
%RSD	1.8263	2.0664	2.2607	.09972	3.1493	.13502	.14102	54.844	.35315
#1	.00303	.00596	.03137	3.2658	.02605	33.256	21.728	.00009	203.34
#2	.00295	.00579	.03239	3.2612	.02724	33.193	21.685	.00004	202.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16080**	**.01228**	F **302.0**	**-.00025**	**.00943**	**5.5346**	**.00001**	**.11963**	**-.00014**
Stddev	.00047	.00042	.4	.00185	.00343	.0455	.00057	.00064	.00025
%RSD	.29222	3.4021	.1309	735.86	36.426	.82281	4890.8	.53138	173.96
#1	.16046	.01198	301.7	-.00156	.00700	5.5668	.00042	.12008	-.00032
#2	.16113	.01257	302.3	.00105	.01185	5.5024	-.00039	.11918	.00003
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.01888**	**.00092**	**.22423**
Stddev	.00360	.00020	.00109
%RSD	19.074	21.835	.48614
#1	.01633	.00106	.22500
#2	.02143	.00078	.22345
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2051.2**	**2126.8**	**41298.**	**4643.6**
Stddev	5.7	4.4	24.	1.4
%RSD	.27810	.20619	.05846	.03021
#1	2055.2	2129.9	41281.	4644.6
#2	2047.1	2123.7	41315.	4642.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-4-B Acquired: 8/1/2014 20:00:28 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00201**	**.03707**	**.00294**	**.01209**	**.01924**	**.00005**	**68.160**	**.00038**	**.01770**
Stddev	.00020	.00972	.00214	.00086	.00003	.00009	.223	.00002	.00004
%RSD	10.188	26.224	72.630	7.1384	.14272	185.04	.32654	5.2608	.21546
#1	-.00215	.04394	.00143	.01148	.01922	-.00002	68.002	.00040	.01773
#2	-.00186	.03019	.00445	.01270	.01926	.00011	68.317	.00037	.01768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00379**	**.00060**	**1.4280**	**2.0444**	**.00385**	**16.602**	**13.555**	**.00065**	**87.300**
Stddev	.00030	.00125	.0072	.0281	.00064	.013	.011	.00006	.114
%RSD	8.0465	208.87	.50731	1.3750	16.631	.08083	.08115	9.2119	.13109
#1	.00357	.00148	1.4229	2.0643	.00340	16.592	13.563	.00069	87.381
#2	.00400	-.00028	1.4332	2.0246	.00430	16.611	13.547	.00060	87.219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02562**	**.04064**	F **118.5**	**-.00126**	**.00228**	**5.1553**	**-.00032**	**.08539**	**.00016**
Stddev	.00074	.00078	.1	.00024	.00095	.0220	.00066	.00018	.00015
%RSD	2.8803	1.9241	.0745	19.220	41.546	.42704	204.65	.20792	99.489
#1	.02614	.04120	118.5	-.00143	.00295	5.1709	-.00079	.08527	.00027
#2	.02510	.04009	118.6	-.00109	.00161	5.1397	.00014	.08552	.00005
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00962**	**.00098**	**.02128**
Stddev	.00260	.00019	.00019
%RSD	27.016	18.811	.89696
#1	.01146	.00085	.02142
#2	.00778	.00111	.02115
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2214.1**	**1839.3**	**35905.**	**3924.3**
Stddev	.6	3.1	29.	3.8
%RSD	.02841	.17068	.08124	.09794
#1	2214.5	1841.5	35884.	3927.0
#2	2213.7	1837.0	35925.	3921.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 20:03:22 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50320**	**25.711**	**.50351**	**.49322**	**.50307**	**.49768**	**25.076**	**.50747**	**.50814**	**.50394**	**.48657**	**24.643**	**25.118**	**.50058**
Stddev	.00067	.012	.00165	.00232	.00013	.00108	.061	.00049	.00013	.00024	.00171	.003	.060	.00030
%RSD	.13397	.04856	.32853	.46958	.02535	.21610	.24472	.09736	.02478	.04796	.35090	.01143	.23954	.05988
#1	.50272	25.703	.50468	.49158	.50316	.49844	25.033	.50712	.50823	.50377	.48777	24.645	25.161	.50079
#2	.50368	25.720	.50234	.49486	.50298	.49692	25.120	.50782	.50805	.50411	.48536	24.641	25.075	.50036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.449**	**.50833**	**.51040**	**25.189**	**.50052**	**.51037**	**24.94**	**.50088**	**.49974**	**24.805**	**.51715**	**.51426**	**.50715**	**.50377**
Stddev	.017	.00000	.00100	.034	.00057	.00068	.04	.00216	.00549	.145	.00156	.00021	.00006	.00541
%RSD	.06517	.00088	.19552	.13458	.11384	.13315	.1765	.43093	1.0985	.58337	.30185	.04151	.01192	1.0731
#1	25.437	.50834	.50970	25.213	.50012	.50989	24.91	.49935	.49585	24.703	.51826	.51441	.50710	.49995
#2	25.460	.50833	.51111	25.165	.50092	.51085	24.97	.50240	.50362	24.908	.51605	.51411	.50719	.50759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50415**	**.50855**
Stddev	.00050	.00120
%RSD	.10016	.23604
#1	.50379	.50940
#2	.50451	.50770
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2265.4**	**1917.1**	**37143.**	**3912.8**
Stddev	1.5	3.3	71.	2.6
%RSD	.06555	.17337	.18998	.06575
#1	2266.5	1919.5	37193.	3910.9
#2	2264.4	1914.8	37093.	3914.6

Sample Name: CCB Acquired: 8/1/2014 20:06:06 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00751**	**-.00044**	**.00153**	**-.00002**	**.00003**	**-.00166**	**.00012**	**.00003**	**.00044**	**-.00009**	**-.00069**
Stddev	.00040	.01851	.00323	.00041	.00000	.00002	.00101	.00003	.00018	.00041	.00095	.00093
%RSD	90.145	246.56	738.38	26.979	5.4837	47.880	60.922	25.966	622.44	93.101	1022.9	134.81
#1	-.00073	-.00558	-.00272	.00182	-.00002	.00004	-.00095	.00014	-.00010	.00015	-.00076	-.00003
#2	-.00016	.02059	.00185	.00124	-.00002	.00002	-.00238	.00010	.00016	.00073	.00058	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05443**	**-.00052**	**-.00388**	**.00025**	**.00021**	**-.00649**	**-.00040**	**.00049**	**.0136**	**.00053**	**-.00121**	**.01229**
Stddev	.00333	.00051	.00403	.00001	.00028	.00358	.00002	.00043	.0063	.00030	.00213	.01285
%RSD	6.1224	98.495	103.79	4.0081	137.93	55.120	4.7918	87.881	46.25	56.333	176.10	104.54
#1	.05208	-.00016	-.00103	.00025	.00001	-.00903	-.00041	.00080	.0180	.00032	.00030	.00321
#2	.05679	-.00088	-.00673	.00026	.00041	-.00396	-.00039	.00019	.0091	.00074	-.00272	.02138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00007**	**-.00043**	**.00085**	**.00001**	**.00055**
Stddev	.00011	.00005	.00002	.00023	.00010	.00006
%RSD	46.443	70.662	5.7168	27.069	926.39	10.594
#1	-.00031	.00003	-.00041	.00069	.00008	.00051
#2	-.00016	.00010	-.00045	.00101	-.00006	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2535.6**	**1968.7**	**38563.**	**3924.3**
Stddev	1.6	2.5	41.	17.1
%RSD	.06464	.12682	.10535	.43515
#1	2534.4	1967.0	38534.	3912.2
#2	2536.7	1970.5	38591.	3936.4

Sample Name: CCVL-2222402 Acquired: 8/1/2014 20:08:59 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00593**	**.19924**	**.01310**	**.02047**	**.00224**	**.00196**	**.50401**	**.00218**	**.00406**	**.00391**	**.00855**	**.04658**
Stddev	.00050	.01788	.00154	.00001	.00001	.00005	.00821	.00008	.00010	.00017	.00043	.00110
%RSD	8.3603	8.9764	11.755	.06521	.59496	2.8042	1.6284	3.6717	2.3684	4.3362	5.0213	2.3586
#1	.00629	.18660	.01201	.02048	.00225	.00200	.49821	.00213	.00413	.00379	.00825	.04736
#2	.00558	.21189	.01419	.02046	.00223	.00192	.50982	.00224	.00399	.00403	.00886	.04581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51728**	**.02809**	**.21384**	**.00362**	**.01031**	**.95732**	**.00879**	**.00980**	**.2185**	**.02068**	**.02790**	**.49834**
Stddev	.00389	.00053	.00689	.00003	.00008	.00289	.00049	.00020	.0002	.00007	.00532	.00845
%RSD	.75294	1.8822	3.2216	.78037	.74100	.30199	5.5495	1.9901	.0784	.32419	19.077	1.6948
#1	.51453	.02772	.21871	.00360	.01026	.95528	.00845	.00994	.2186	.02072	.03167	.50431
#2	.52004	.02846	.20897	.00364	.01037	.95936	.00914	.00966	.2184	.02063	.02414	.49237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00922**	**.00518**	**.00447**	**.02148**	**.00519**	**.01049**
Stddev	.00048	.00010	.00036	.00003	.00002	.00076
%RSD	5.1853	2.0087	8.0198	.15476	.42202	7.2616
#1	.00889	.00510	.00422	.02146	.00518	.01103
#2	.00956	.00525	.00472	.02150	.00521	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2520.0**	**1971.7**	**38730.**	**3969.0**
Stddev	1.4	.4	154.	31.9
%RSD	.05750	.02108	.39835	.80276
#1	2521.0	1972.0	38621.	3991.5
#2	2518.9	1971.4	38839.	3946.4

Sample Name: 480-64436-A-5-B Acquired: 8/1/2014 20:11:50 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00229**	**.02899**	**-.00055**	**.00908**	**.02506**	**.00018**	**46.961**	**.00056**	**.01832**
Stddev	.00046	.00364	.00021	.00015	.00003	.00004	.056	.00000	.00016
%RSD	19.972	12.569	37.865	1.6728	.13545	20.425	.11913	.86967	.88614
#1	-.00261	.03156	-.00040	.00897	.02504	.00016	47.000	.00057	.01844
#2	-.00196	.02641	-.00070	.00918	.02508	.00021	46.921	.00056	.01821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00303**	**.00103**	**.00712**	**1.9887**	**.00596**	**13.041**	**13.974**	**-.00016**	**70.988**
Stddev	.00003	.00029	.00072	.0214	.00119	.001	.040	.00026	.287
%RSD	.96217	28.325	10.140	1.0757	20.037	.00928	.28887	161.34	.40484
#1	.00301	.00124	.00661	2.0038	.00511	13.041	13.946	.00002	71.191
#2	.00305	.00083	.00763	1.9735	.00680	13.042	14.003	-.00034	70.785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02448**	**.00180**	F **84.79**	**-.00042**	**.00124**	**5.1721**	**-.00037**	**.07273**	**.00014**
Stddev	.00043	.00036	.11	.00037	.00356	.0334	.00036	.00011	.00029
%RSD	1.7499	19.882	.1254	89.450	287.10	.64632	98.473	.15734	207.72
#1	.02478	.00205	84.87	-.00068	.00375	5.1958	-.00063	.07281	.00034
#2	.02418	.00154	84.72	-.00015	-.00128	5.1485	-.00011	.07265	-.00006
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.01084**	**.00071**	**.00951**
Stddev	.00229	.00012	.00054
%RSD	21.138	17.359	5.6905
#1	.01246	.00063	.00912
#2	.00922	.00080	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2260.3**	**1864.0**	**36327.**	**3902.8**
Stddev	4.6	2.3	102.	1.6
%RSD	.20212	.12264	.28181	.04206
#1	2263.5	1865.6	36399.	3901.6
#2	2257.1	1862.4	36254.	3904.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-6-B Acquired: 8/1/2014 20:14:43 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00831**	**.07900**	**.00413**	**.00960**	**.01277**	**.00005**	**199.33**	**.00436**	**.18250**
Stddev	.00026	.00074	.00337	.00025	.00002	.00004	1.30	.00008	.00029
%RSD	3.0932	.93829	81.562	2.5937	.12149	70.688	.65049	1.8116	.15793
#1	-.00849	.07953	.00175	.00977	.01278	.00008	198.42	.00431	.18229
#2	-.00813	.07848	.00651	.00942	.01276	.00003	200.25	.00442	.18270
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000								
Low Limit	-.00600								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00557**	**.00189**	**.00244**	**2.9465**	**.01349**	**57.132**	F **71.570**	**-.00034**	**370.16**
Stddev	.00045	.00016	.00569	.0205	.00093	.055	.153	.00032	.88
%RSD	8.0446	8.7173	233.60	.69435	6.9255	.09563	.21349	93.626	.23883
#1	.00589	.00201	.00646	2.9320	.01283	57.093	71.462	-.00056	369.53
#2	.00525	.00177	-.00159	2.9609	.01415	57.170	71.678	-.00011	370.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							44.000		
Low Limit							-.00300		

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17169**	**.01039**	F **497.7**	**-.00172**	**.02801**	**5.9665**	**-.00103**	**.13471**	**.00066**
Stddev	.00067	.00039	.9	.00268	.00276	.0252	.00049	.00025	.00007
%RSD	.38865	3.7209	.1869	156.36	9.8707	.42264	47.868	.18807	9.9645
#1	.17216	.01011	498.4	.00018	.02996	5.9487	-.00068	.13453	.00071
#2	.17122	.01066	497.1	-.00361	.02605	5.9844	-.00138	.13488	.00062
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.04510**	**.00326**	**.04665**
Stddev	.00266	.00010	.00099
%RSD	5.8919	3.2140	2.1281
#1	.04698	.00333	.04594
#2	.04323	.00318	.04735
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1981.8**	**1769.0**	**34297.**	**3834.9**
Stddev	1.0	1.7	1.	16.9
%RSD	.04900	.09369	.00410	.43967
#1	1982.5	1767.8	34298.	3846.8
#2	1981.1	1770.2	34296.	3822.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-7-B Acquired: 8/1/2014 20:17:40 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00111**	**.09480**	**-.00057**	**.01003**	**.03933**	**.00041**	**18.961**	**.00134**	**.03369**
Stddev	.00057	.01152	.00082	.00031	.00001	.00002	.044	.00006	.00014
%RSD	51.210	12.157	143.16	3.0584	.02035	6.0001	.23405	4.4679	.41500
#1	-.00151	.08665	.00001	.01025	.03932	.00043	18.992	.00138	.03379
#2	-.00071	.10295	-.00115	.00982	.03933	.00040	18.929	.00129	.03359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.00458**	**.02156**	**1.8143**	**.00139**	**3.5472**	**10.143**	**.00012**	**79.198**
Stddev	.00037	.00040	.00096	.0328	.00032	.0049	.021	.00012	.284
%RSD	16.959	8.7949	4.4330	1.8084	23.079	.13826	.21110	100.33	.35899
#1	.00246	.00430	.02088	1.8375	.00117	3.5507	10.128	.00003	79.399
#2	.00194	.00487	.02224	1.7911	.00162	3.5438	10.158	.00020	78.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02942**	**.00226**	F **61.62**	**.00026**	**.00703**	**2.9665**	**.00047**	**.04416**	**-.00007**
Stddev	.00098	.00169	.09	.00084	.00539	.0019	.00010	.00013	.00043
%RSD	3.3209	74.933	.1451	330.89	76.678	.06234	20.309	.28546	617.44
#1	.03011	.00345	61.68	.00085	.00322	2.9678	.00040	.04425	-.00037
#2	.02873	.00106	61.55	-.00034	.01084	2.9652	.00054	.04407	.00023
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00936**	**.00082**	**.04704**
Stddev	.00250	.00046	.00019
%RSD	26.723	56.930	.40080
#1	.01113	.00114	.04691
#2	.00759	.00049	.04718
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2292.0**	**1886.0**	**36836.**	**3964.1**
Stddev	1.8	.6	40.	3.2
%RSD	.07849	.03265	.10850	.07947
#1	2293.3	1886.5	36808.	3961.9
#2	2290.7	1885.6	36864.	3966.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-8-B Acquired: 8/1/2014 20:20:32 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.00302**	**.04642**	**.00652**	**.02301**	**.03121**	**.00013**	**110.46**	**.00043**	**.00641**
Stddev	.00020	.00852	.00068	.00033	.00018	.00005	.25	.00001	.00005
%RSD	6.7612	18.351	10.418	1.4148	.58467	43.327	.22403	2.2268	.71326
#1	-.00287	.05244	.00604	.02324	.03134	.00009	110.63	.00044	.00638
#2	-.00316	.04039	.00700	.02278	.03108	.00016	110.28	.00043	.00644
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000								
Low Limit	-.00300								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00304**	**.00041**	**2.4143**	**1.9885**	**.01010**	**28.000**	**19.592**	**.00010**	**181.35**
Stddev	.00016	.00023	.0067	.0104	.00035	.158	.001	.00026	.33
%RSD	5.2178	54.748	.27606	.52109	3.5111	.56464	.00312	271.37	.17948
#1	.00293	.00057	2.4190	1.9811	.00985	28.112	19.592	-.00009	181.12
#2	.00315	.00025	2.4096	1.9958	.01036	27.888	19.593	.00028	181.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01191**	**.03317**	F **108.3**	**-.00191**	**.00648**	**4.4958**	**-.00012**	**.17101**	**.00003**
Stddev	.00034	.00007	.1	.00044	.00236	.0120	.00024	.00035	.00005
%RSD	2.8220	.21714	.0941	23.116	36.344	.26707	203.81	.20720	148.73
#1	.01215	.03312	108.3	-.00160	.00815	4.5042	.00005	.17076	.00007
#2	.01167	.03322	108.4	-.00223	.00482	4.4873	-.00029	.17126	-.00000
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.01136**	**.00086**	**.05937**
Stddev	.00451	.00005	.00059
%RSD	39.680	5.5238	.99609
#1	.00818	.00082	.05895
#2	.01455	.00089	.05978
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2105.4**	**1799.0**	**35260.**	**3875.3**
Stddev	2.8	3.0	97.	9.0
%RSD	.13260	.16772	.27542	.23282
#1	2107.4	1801.1	35192.	3869.0
#2	2103.4	1796.9	35329.	3881.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-9-B Acquired: 8/1/2014 20:23:25 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00167**	**.03549**	**.00504**	**.01643**	**.23677**	**-.00000**	**103.52**	**.00013**	**.00275**
Stddev	.00008	.02432	.00181	.00028	.00085	.00008	.31	.00011	.00008
%RSD	4.5085	68.519	35.915	1.6820	.36060	8061.4	.29665	85.679	2.9786
#1	-.00172	.01830	.00631	.01662	.23737	.00006	103.73	.00005	.00281
#2	-.00162	.05269	.00376	.01623	.23616	-.00006	103.30	.00021	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**.00076**	**6.7377**	**2.0120**	**.02312**	**38.283**	**9.6104**	**-.00020**	**67.518**
Stddev	.00038	.00001	.0593	.0088	.00048	.045	.0481	.00041	.447
%RSD	10.885	1.6832	.88043	.43843	2.0728	.11881	.50032	206.86	.66202
#1	.00380	.00075	6.7796	2.0058	.02278	38.315	9.5764	.00009	67.834
#2	.00326	.00077	6.6957	2.0182	.02346	38.251	9.6444	-.00049	67.202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00543**	**.00149**	F **33.53**	**-.00260**	**.00221**	**6.0618**	**-.00039**	**.33041**	**.00013**
Stddev	.00016	.00230	.02	.00108	.00107	.0856	.00017	.00096	.00008
%RSD	2.9781	153.98	.0500	41.515	48.514	1.4126	43.349	.29131	59.324
#1	.00555	-.00013	33.54	-.00184	.00145	6.1224	-.00051	.33109	.00008
#2	.00532	.00312	33.52	-.00337	.00297	6.0013	-.00027	.32973	.00019
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00836**	**.00063**	**.00825**
Stddev	.00168	.00005	.00043
%RSD	20.104	8.3469	5.2554
#1	.00955	.00067	.00856
#2	.00717	.00060	.00794
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2177.6**	**1831.3**	**35935.**	**3884.2**
Stddev	3.3	1.4	28.	15.2
%RSD	.15197	.07528	.07824	.39210
#1	2180.0	1830.4	35915.	3873.4
#2	2175.3	1832.3	35955.	3894.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-10-B Acquired: 8/1/2014 20:26:16 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.00322**	**.04817**	**.00597**	**.06493**	**1.5713**	**.00022**	**226.86**	**.00046**	**.04657**
Stddev	.00035	.03230	.00287	.00032	.0046	.00021	.35	.00009	.00012
%RSD	10.854	67.068	47.988	.48904	.29198	94.369	.15466	19.899	.24946
#1	-.00297	.07101	.00800	.06471	1.5746	.00037	227.11	.00052	.04665
#2	-.00347	.02532	.00394	.06515	1.5681	.00007	226.61	.00039	.04649
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000								
Low Limit	-.00300								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00300**	**.00153**	**6.1629**	**3.8073**	**.02327**	**54.760**	**19.173**	**-.00040**	**335.70**
Stddev	.00070	.00153	.0316	.0115	.00023	.230	.137	.00011	.16
%RSD	23.258	100.12	.51254	.30126	.99161	.41986	.71430	27.571	.04805
#1	.00251	.00262	6.1852	3.8154	.02343	54.598	19.077	-.00033	335.58
#2	.00349	.00045	6.1405	3.7991	.02310	54.923	19.270	-.00048	335.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06179**	**.00477**	**1.330**	**-.00073**	**.01459**	**4.3867**	**-.00030**	**.81277**	**.00044**
Stddev	.00067	.00165	.007	.00201	.00022	.0552	.00023	.00384	.00043
%RSD	1.0782	34.611	.5399	274.17	1.4992	1.2579	74.912	.47251	97.834
#1	.06226	.00360	1.336	-.00215	.01443	4.3477	-.00046	.81549	.00075
#2	.06132	.00594	1.325	.00069	.01474	4.4257	-.00014	.81005	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.01151**	**.00100**	**.00342**
Stddev	.00127	.00012	.00010
%RSD	11.028	11.831	3.0286
#1	.01241	.00109	.00335
#2	.01061	.00092	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1970.8**	**1743.5**	**33786.**	**3832.8**
Stddev	.4	2.5	184.	5.7
%RSD	.01901	.14358	.54380	.14973
#1	1971.1	1745.2	33916.	3828.7
#2	1970.6	1741.7	33656.	3836.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-11-B Acquired: 8/1/2014 20:29:20 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00207**	**.20643**	**.00145**	**.02515**	**.03645**	**.00052**	**125.46**	**.00170**	**.02258**
Stddev	.00010	.01842	.00217	.00037	.00011	.00010	.15	.00008	.00002
%RSD	4.7425	8.9250	150.03	1.4786	.30065	18.761	.11733	4.7395	.09379
#1	-.00200	.21946	-.00009	.02489	.03637	.00059	125.36	.00165	.02256
#2	-.00214	.19340	.00299	.02541	.03653	.00045	125.57	.00176	.02259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00331**	**.01147**	**.01877**	**4.6010**	**.02236**	**19.301**	**11.404**	**.00017**	**152.26**
Stddev	.00027	.00059	.00407	.0132	.00006	.073	.065	.00043	.72
%RSD	8.2852	5.1464	21.703	.28677	.27782	.37847	.57062	257.68	.47215
#1	.00350	.01105	.01589	4.5917	.02240	19.249	11.358	-.00014	151.75
#2	.00312	.01189	.02165	4.6103	.02231	19.352	11.450	.00047	152.76
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07646**	**.00298**	F **214.7**	**.00019**	**.00325**	**15.859**	**-.00008**	**.22572**	**.00011**
Stddev	.00154	.00049	.2	.00255	.00447	.051	.00009	.00001	.00015
%RSD	2.0151	16.454	.1022	1320.1	137.64	.32364	105.77	.00339	140.61
#1	.07537	.00333	214.6	-.00161	.00009	15.823	-.00015	.22573	.00000
#2	.07755	.00263	214.9	.00200	.00641	15.896	-.00002	.22571	.00021
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.01242**	**.00077**	**.41375**
Stddev	.00419	.00034	.00052
%RSD	33.695	44.204	.12536
#1	.01538	.00053	.41338
#2	.00946	.00101	.41412
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2118.0**	**1820.0**	**35536.**	**3893.7**
Stddev	2.5	2.1	80.	4.9
%RSD	.11955	.11513	.22543	.12649
#1	2119.8	1821.5	35592.	3897.2
#2	2116.2	1818.5	35479.	3890.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64436-A-12-B Acquired: 8/1/2014 20:32:12 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**.03109**	**.00274**	**.05015**	**.28629**	**.00008**	**85.371**	**.00031**	**.00994**
Stddev	.00086	.01590	.00230	.00015	.00051	.00004	.246	.00011	.00012
%RSD	53.986	51.158	84.183	.29479	.17672	46.326	.28841	33.689	1.2257
#1	-.00098	.04233	.00436	.05005	.28665	.00010	85.545	.00024	.01003
#2	-.00219	.01984	.00111	.05026	.28593	.00005	85.197	.00039	.00986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00286**	**.00116**	**3.1740**	**3.7609**	**.00566**	**16.624**	**12.250**	**.00095**	**89.610**
Stddev	.00008	.00027	.0184	.0233	.00062	.001	.013	.00022	.458
%RSD	2.9445	23.070	.57924	.61956	10.963	.00724	.10736	23.095	.51075
#1	.00280	.00135	3.1610	3.7444	.00610	16.624	12.259	.00110	89.934
#2	.00292	.00097	3.1870	3.7774	.00522	16.623	12.240	.00079	89.286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00756**	**.00260**	**1.928**	**-.00102**	**.00574**	**3.9355**	**.00007**	**.34943**	**.00012**
Stddev	.00032	.00009	.002	.00048	.00505	.0332	.00004	.00174	.00032
%RSD	4.2444	3.4547	.0828	47.523	87.935	.84400	57.735	.49908	268.40
#1	.00733	.00266	1.927	-.00136	.00931	3.9120	.00010	.35066	-.00011
#2	.00779	.00254	1.930	-.00068	.00217	3.9590	.00004	.34820	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00839**	**.00048**	**.01004**
Stddev	.00525	.00002	.00022
%RSD	62.554	3.4987	2.2394
#1	.01210	.00047	.00988
#2	.00468	.00050	.01020
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2180.9**	**1833.7**	**36092.**	**3905.2**
Stddev	.9	2.2	67.	11.0
%RSD	.04132	.12002	.18682	.28138
#1	2181.5	1835.3	36140.	3897.4
#2	2180.3	1832.2	36044.	3913.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64389-F-1-B Acquired: 8/1/2014 20:35:05 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00151**	**-.00284**	**.00562**	**.00108**	**.00003**	**1.1779**	**.00013**	**.00002**
Stddev	.00006	.03381	.00152	.00037	.00002	.00000	.0066	.00005	.00008
%RSD	35.108	2237.6	53.543	6.5937	1.6590	10.192	.55577	39.624	390.84
#1	-.00021	-.02239	-.00176	.00588	.00109	.00003	1.1825	.00009	.00008
#2	-.00013	.02541	-.00392	.00535	.00107	.00003	1.1733	.00016	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.00043**	**.00031**	**.09041**	**-.00033**	**.29456**	**.00202**	**.00013**	**.92965**
Stddev	.00028	.00056	.00573	.00139	.00149	.00016	.00002	.00009	.00866
%RSD	14.515	131.30	1872.5	1.5330	452.54	.05277	1.1524	69.676	.93184
#1	.00213	.00003	-.00375	.09139	.00072	.29445	.00201	.00007	.92352
#2	.00173	.00083	.00436	.08943	-.00138	.29467	.00204	.00020	.93577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00009**	**.3390**	**.00097**	**.00372**	**.04693**	**.00017**	**.00588**	**-.00014**
Stddev	.00003	.00128	.0046	.00011	.00338	.00728	.00030	.00020	.00000
%RSD	7.4322	1439.4	1.367	11.479	91.027	15.513	184.69	3.4532	2.0194
#1	-.00033	.00099	.3357	.00105	.00132	.05207	.00038	.00603	-.00014
#2	-.00036	-.00082	.3423	.00089	.00611	.04178	-.00005	.00574	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00201**	**.00031**	**.00629**
Stddev	.00108	.00002	.00019
%RSD	53.917	6.4226	3.0614
#1	.00277	.00029	.00616
#2	.00124	.00032	.00643
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2522.4**	**1963.7**	**38660.**	**3977.2**
Stddev	3.9	.8	233.	16.8
%RSD	.15527	.04130	.60141	.42255
#1	2519.6	1964.2	38496.	3965.3
#2	2525.2	1963.1	38825.	3989.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 20:37:57 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50748**	**25.121**	**.50035**	**.48975**	**.50842**	**.49516**	**25.207**	**.50378**	**.50581**	**.49771**	**.48361**	**24.565**	**24.809**	**.49223**
Stddev	.00053	.078	.00171	.00134	.00196	.00139	.064	.00027	.00020	.00154	.00077	.008	.046	.00168
%RSD	.10519	.30932	.34107	.27289	.38587	.28014	.25429	.05396	.03936	.30861	.15896	.03196	.18736	.34068
#1	.50711	25.176	.49914	.49070	.50703	.49614	25.253	.50359	.50567	.49663	.48307	24.570	24.842	.49104
#2	.50786	25.066	.50155	.48881	.50980	.49418	25.162	.50397	.50595	.49880	.48416	24.559	24.776	.49341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.651**	**.51358**	**.50664**	**24.694**	**.50156**	**.50835**	**24.85**	**.50310**	**.50700**	**24.918**	**.51144**	**.50679**	**.50674**	**.50146**
Stddev	.031	.00022	.00244	.009	.00166	.00086	.00	.00035	.00860	.088	.00304	.00052	.00164	.00361
%RSD	.12155	.04225	.48147	.03500	.33003	.16830	.0192	.06936	1.6969	.35213	.59498	.10310	.32333	.71958
#1	25.673	.51342	.50492	24.687	.50273	.50895	24.86	.50335	.51308	24.980	.50929	.50716	.50558	.50402
#2	25.629	.51373	.50837	24.700	.50039	.50774	24.85	.50286	.50092	24.856	.51359	.50642	.50790	.49891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50930**	**.51355**
Stddev	.00080	.00141
%RSD	.15744	.27496
#1	.50873	.51255
#2	.50987	.51455
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2277.1**	**1926.0**	**37135.**	**3933.1**
Stddev	5.0	3.7	100.	18.8
%RSD	.22107	.19236	.26840	.47907
#1	2280.7	1928.6	37205.	3919.7
#2	2273.6	1923.4	37064.	3946.4

Sample Name: CCB Acquired: 8/1/2014 20:40:40 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00329**	**-.00110**	**.00071**	**.00002**	**-.00001**	**.00149**	**.00011**	**.00012**	**.00041**	**-.00018**	**-.00280**
Stddev	.00000	.01217	.00078	.00019	.00001	.00016	.00439	.00006	.00004	.00065	.00064	.00201
%RSD	.52388	369.55	70.876	26.284	84.659	1555.4	295.62	56.719	33.561	159.25	345.77	71.780
#1	-.00024	.01190	-.00164	.00084	.00003	-.00012	.00459	.00007	.00009	.00086	-.00063	-.00423
#2	-.00024	-.00531	-.00055	.00058	.00001	.00010	-.00162	.00015	.00015	-.00005	.00027	-.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03091**	**-.00113**	**.00138**	**.00088**	**.00027**	**-.00416**	**-.00033**	**.00171**	**.0137**	**.00078**	**.00054**	**.01691**
Stddev	.00705	.00064	.00449	.00002	.00008	.00289	.00028	.00088	.0057	.00177	.00675	.00836
%RSD	22.794	57.098	324.85	1.8819	30.524	69.606	87.110	51.771	41.37	227.18	1240.9	49.450
#1	.02593	-.00158	-.00179	.00089	.00021	-.00620	-.00053	.00233	.0097	.00203	.00532	.02282
#2	.03590	-.00067	.00456	.00087	.00033	-.00211	-.00012	.00108	.0177	-.00047	-.00423	.01100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00010**	**-.00035**	**.00225**	**.00021**	**.00118**
Stddev	.00021	.00002	.00013	.00420	.00018	.00008
%RSD	147.99	23.230	38.154	186.29	82.538	7.0273
#1	-.00001	.00009	-.00044	.00522	.00034	.00112
#2	.00029	.00012	-.00025	-.00071	.00009	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2537.0**	**1972.8**	**38460.**	**3933.7**
Stddev	1.8	5.7	104.	31.8
%RSD	.07004	.29123	.27073	.80785
#1	2535.8	1976.9	38386.	3956.2
#2	2538.3	1968.8	38533.	3911.3

Sample Name: CCVL-2222402 Acquired: 8/1/2014 20:43:33 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	**.17902**	**.01240**	**.02018**	**.00230**	**.00213**	**.50977**	**.00220**	**.00406**	**.00470**	**.00938**
Stddev	.00021	.01814	.00137	.00022	.00003	.00020	.00454	.00001	.00015	.00021	.00049
%RSD	3.7631	10.133	11.039	1.0875	1.2412	9.3534	.89135	.23428	3.6156	4.3930	5.2503
#1	.00535	.19184	.01337	.02034	.00228	.00199	.50655	.00220	.00396	.00485	.00973
#2	.00564	.16619	.01144	.02003	.00232	.00228	.51298	.00220	.00416	.00456	.00903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04794**	**.52145**	**.02808**	**.21006**	W **.00419**	**.01023**	**.96363**	**.00884**	**.01019**	**.2188**	**.02145**
Stddev	.00446	.01259	.00152	.00382	.00004	.00015	.00560	.00003	.00144	.0041	.00103
%RSD	9.2949	2.4152	5.3977	1.8190	.98372	1.4273	.58162	.34810	14.129	1.893	4.7846
#1	.04479	.51255	.02915	.20736	.00421	.01013	.96759	.00882	.00917	.2159	.02217
#2	.05109	.53036	.02701	.21277	.00416	.01034	.95967	.00886	.01120	.2217	.02072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					.00300						
Range					30.000%						

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02538**	**.49594**	**.00965**	**.00517**	**.00460**	**.02146**	**.00505**	**.01088**
Stddev	.00330	.00972	.00015	.00002	.00006	.00027	.00025	.00092
%RSD	13.016	1.9606	1.5865	.34862	1.4030	1.2629	4.9767	8.4153
#1	.02771	.48906	.00976	.00518	.00465	.02165	.00487	.01023
#2	.02304	.50281	.00954	.00516	.00456	.02127	.00523	.01152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2518.9**	**1973.3**	**38515.**	**3951.2**
Stddev	2.4	1.3	110.	13.6
%RSD	.09443	.06369	.28635	.34509
#1	2517.2	1972.4	38593.	3960.9
#2	2520.6	1974.2	38437.	3941.6

Sample Name: 480-64031-F-1-B Acquired: 8/1/2014 20:46:24 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00171**	**.07869**	**.00075**	**.68785**	**.40601**	**.00009**	**350.08**	**.00072**	**.00156**
Stddev	.00059	.00021	.00017	.00032	.00002	.00009	.66	.00014	.00006
%RSD	34.522	.27073	22.833	.04627	.00389	97.506	.18864	19.681	3.9145
#1	-.00213	.07854	.00063	.68807	.40602	.00016	350.55	.00082	.00160
#2	-.00129	.07884	.00087	.68762	.40599	.00003	349.61	.00062	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**.00166**	**.01003**	**182.55**	**.26623**	**225.19**	**3.1260**	**.00253**	**2126.0**
Stddev	.00085	.00002	.00268	.01	.00076	.12	.0061	.00025	6.7
%RSD	33.829	1.1708	26.741	.00528	.28728	.05172	.19640	9.7095	.31555
#1	.00192	.00168	.00814	182.55	.26569	225.11	3.1217	.00236	2130.7
#2	.00312	.00165	.01193	182.56	.26677	225.27	3.1303	.00270	2121.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**.00363**	F **14.19**	**-.00164**	**.00395**	**11.126**	**.00044**	**3.7892**	**.00147**
Stddev	.00079	.00032	.02	.00020	.00833	.042	.00071	.0007	.00082
%RSD	37.342	8.7491	.1592	11.998	211.02	.37394	163.65	.01844	55.650
#1	.00268	.00341	14.17	-.00151	.00983	11.155	-.00007	3.7897	.00204
#2	.00156	.00386	14.21	-.00178	-.00194	11.097	.00094	3.7887	.00089
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00299**	**-.00033**	**.00078**
Stddev	.00824	.00022	.00065
%RSD	275.76	65.412	83.392
#1	-.00881	-.00018	.00032
#2	.00284	-.00049	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1625.1**	**1551.4**	**29835.**	**3675.0**
Stddev	2.2	3.2	20.	6.4
%RSD	.13819	.20808	.06674	.17499
#1	1626.6	1553.7	29821.	3670.5
#2	1623.5	1549.1	29849.	3679.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64380-G-1-E Acquired: 8/1/2014 20:49:15 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.23244**	**.00090**	**.03067**	**.04481**	**.00004**	**74.010**	**.00013**	**.00006**
Stddev	.00103	.01286	.00435	.00033	.00001	.00018	.338	.00003	.00005
%RSD	377.30	5.5336	480.95	1.0907	.02160	429.22	.45724	22.093	82.482
#1	-.00100	.24153	-.00217	.03091	.04482	.00017	74.249	.00011	.00003
#2	.00046	.22334	.00398	.03044	.04481	-.00009	73.771	.00015	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**.00133**	**.42333**	**2.1728**	**.00569**	**30.771**	**.02348**	**.00071**	**16.271**
Stddev	.00001	.00043	.00368	.0034	.00031	.016	.00028	.00010	.010
%RSD	.82898	32.784	.86813	.15534	5.5180	.05333	1.2020	14.155	.05886
#1	.00142	.00102	.42073	2.1752	.00591	30.760	.02328	.00064	16.278
#2	.00140	.00163	.42593	2.1704	.00546	30.783	.02368	.00078	16.264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00234**	F **12.70**	**.00090**	**.00225**	**5.8524**	**.00022**	**.15749**	**.00550**
Stddev	.00061	.00119	.04	.00014	.00422	.0257	.00038	.00056	.00120
%RSD	145.11	50.820	.3143	15.839	187.24	.43874	171.68	.35464	21.749
#1	.00085	.00318	12.67	.00100	-.00073	5.8706	-.00005	.15710	.00634
#2	-.00001	.00150	12.73	.00080	.00524	5.8343	.00050	.15789	.00465
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00040**	**.00085**	**.00263**
Stddev	.00376	.00033	.00023
%RSD	939.06	38.688	8.7721
#1	-.00226	.00109	.00247
#2	.00306	.00062	.00279
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2274.4**	**1869.2**	**36947.**	**3956.7**
Stddev	4.3	7.3	94.	17.5
%RSD	.18922	.39227	.25400	.44234
#1	2277.4	1874.4	37013.	3944.3
#2	2271.3	1864.0	36880.	3969.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64380-G-2-C Acquired: 8/1/2014 20:52:01 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00363**	**.00513**	**.16593**	**.24706**	**.00012**	**159.55**	**.00092**	**.00380**
Stddev	.00083	.02175	.00116	.00062	.00186	.00021	.20	.00009	.00005
%RSD	92.378	599.18	22.588	.37257	.75226	176.30	.12717	9.7038	1.4197
#1	-.00031	-.01175	.00431	.16637	.24837	-.00003	159.70	.00086	.00376
#2	-.00149	.01901	.00595	.16550	.24574	.00026	159.41	.00099	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**.00272**	**10.404**	**5.9375**	**.02404**	**55.911**	**.39409**	**.00086**	**85.909**
Stddev	.00000	.00012	.070	.0138	.00063	.339	.00259	.00037	.153
%RSD	.06725	4.3620	.67196	.23198	2.6072	.60720	.65619	43.017	.17818
#1	.00117	.00280	10.453	5.9473	.02359	56.151	.39592	.00112	86.017
#2	.00117	.00264	10.354	5.9278	.02448	55.671	.39226	.00060	85.800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00834**	**.00427**	F **59.08**	**.00010**	**-.00033**	**13.210**	**.00018**	**.28407**	**.00044**
Stddev	.00063	.00061	.10	.00020	.00276	.028	.00053	.00017	.00037
%RSD	7.5241	14.312	.1642	188.40	836.43	.21278	300.69	.06002	85.287
#1	.00879	.00470	59.02	.00024	-.00228	13.230	-.00020	.28395	.00017
#2	.00790	.00384	59.15	-.00003	.00162	13.190	.00056	.28419	.00070
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00060**	**.00018**	**.00982**
Stddev	.00184	.00007	.00044
%RSD	304.07	37.832	4.4322
#1	-.00190	.00013	.01013
#2	.00069	.00023	.00952
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2114.2**	**1793.5**	**35254.**	**3859.1**
Stddev	.5	.8	142.	11.5
%RSD	.02292	.04424	.40353	.29750
#1	2113.9	1793.0	35153.	3851.0
#2	2114.6	1794.1	35354.	3867.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64380-G-3-C Acquired: 8/1/2014 20:54:48 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.23311**	**-.00198**	**.06985**	**.12743**	**.00001**	**130.84**	**.00043**	**.00321**
Stddev	.00075	.00371	.00084	.00046	.00016	.00009	.11	.00010	.00007
%RSD	101.09	1.5934	42.318	.66091	.12813	736.83	.08648	22.731	2.0277
#1	-.00126	.23573	-.00257	.06952	.12755	-.00005	130.76	.00036	.00317
#2	-.00021	.23048	-.00139	.07018	.12732	.00007	130.92	.00049	.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00346**	**.23099**	**2.4386**	**.00786**	**41.888**	**.39268**	**.00041**	**31.090**
Stddev	.00029	.00072	.00253	.0131	.00036	.035	.00020	.00006	.155
%RSD	26.979	20.892	1.0952	.53586	4.5709	.08444	.05186	14.845	.49871
#1	.00086	.00295	.22920	2.4478	.00761	41.863	.39254	.00037	31.199
#2	.00126	.00397	.23278	2.4293	.00812	41.913	.39282	.00045	30.980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01064**	**.00212**	F **16.75**	**-.00090**	**.00011**	**10.473**	**-.00104**	**.20623**	**.00697**
Stddev	.00000	.00032	.02	.00035	.00302	.026	.00062	.00096	.00012
%RSD	.02018	14.973	.1318	38.644	2805.1	.24809	59.256	.46622	1.7623
#1	.01064	.00235	16.73	-.00065	-.00203	10.455	-.00148	.20691	.00705
#2	.01064	.00190	16.77	-.00114	.00225	10.491	-.00060	.20555	.00688
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00429**	**.00072**	**.00314**
Stddev	.00054	.00023	.00016
%RSD	12.635	32.207	4.9347
#1	.00467	.00088	.00325
#2	.00391	.00055	.00303
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2188.0**	**1839.6**	**36107.**	**3873.0**
Stddev	2.6	3.0	92.	6.4
%RSD	.11865	.16552	.25505	.16444
#1	2186.2	1841.8	36172.	3877.5
#2	2189.9	1837.5	36042.	3868.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 20:57:35 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00492**	**-.00003**	**.00021**	**.00012**	**.00005**	**.00910**	**.00012**	**-.00001**
Stddev	.00030	.01561	.00303	.00014	.00001	.00001	.00091	.00015	.00009
%RSD	625.80	317.56	10601.	66.914	8.9291	12.852	10.012	122.87	1037.7
#1	.00026	-.01596	-.00217	.00011	.00011	.00006	.00846	.00023	.00005
#2	-.00017	.00612	.00212	.00031	.00012	.00005	.00974	.00002	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00027**	**-.00064**	**.05137**	**.00094**	**.00043**	**.00096**	**-.00020**	**.06154**
Stddev	.00009	.00044	.00201	.05521	.00012	.00340	.00003	.00011	.00415
%RSD	39.160	159.66	312.54	107.47	13.016	788.67	2.7566	56.273	6.7434
#1	.00028	.00058	-.00206	.01233	.00085	.00284	.00094	-.00012	.06448
#2	.00016	-.00004	.00078	.09041	.00103	-.00197	.00098	-.00028	.05861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00008**	**.0106**	**.00062**	**-.00243**	**-.00124**	**-.00014**	**.00009**	**-.00011**
Stddev	.00010	.00033	.0004	.00133	.00076	.01762	.00082	.00013	.00012
%RSD	35.000	415.65	3.745	214.43	31.177	1418.9	578.16	142.04	105.87
#1	-.00021	-.00015	.0109	.00157	-.00297	-.01370	-.00072	-.00000	-.00019
#2	-.00036	.00031	.0103	-.00032	-.00189	.01122	.00044	.00018	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00288**	**.00002**	**.00054**
Stddev	.00029	.00017	.00033
%RSD	10.159	711.43	60.964
#1	.00308	.00015	.00077
#2	.00267	-.00010	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2526.4**	**1968.6**	**38428.**	**3912.1**
Stddev	3.1	2.4	69.	24.7
%RSD	.12289	.12132	.17869	.63248
#1	2528.6	1970.3	38476.	3929.6
#2	2524.2	1966.9	38379.	3894.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: MB 480-195878/1-A Acquired: 8/1/2014 21:00:26 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.00153**	**-.00171**	**.00402**	**.00006**	**.00009**	**.05380**	**.00011**	**.00004**
Stddev	.00108	.01378	.00009	.00075	.00002	.00014	.00136	.00002	.00012
%RSD	172.92	903.27	5.2069	18.672	34.299	154.08	2.5196	20.266	297.92
#1	.00014	-.00822	-.00165	.00349	.00008	.00018	.05476	.00012	-.00005
#2	-.00138	.01127	-.00177	.00455	.00005	-.00001	.05285	.00009	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00030**	**.00339**	**.04665**	**.00048**	**.00061**	**.00091**	**.00022**	**.04238**
Stddev	.00005	.00087	.00203	.02054	.00029	.00112	.00011	.00028	.00299
%RSD	19.288	288.34	59.770	44.034	59.649	182.84	12.517	127.91	7.0614
#1	.00024	-.00031	.00196	.03213	.00028	.00140	.00099	.00002	.04026
#2	.00032	.00092	.00483	.06118	.00068	-.00018	.00083	.00041	.04449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00002**	F **.0100**	**-.00065**	**-.00185**	**.01134**	**.00001**	**.00029**	**-.00018**
Stddev	.00015	.00212	.0013	.00081	.00329	.01492	.00028	.00006	.00030
%RSD	100.70	13973.	13.39	125.44	177.92	131.59	2927.0	19.090	167.56
#1	-.00025	-.00152	.0109	-.00122	.00048	.02189	.00021	.00033	.00003
#2	-.00004	.00149	.0090	-.00007	-.00418	.00079	-.00019	.00025	-.00039
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00237**	**-.00005**	**.00093**
Stddev	.00389	.00043	.00067
%RSD	164.67	810.16	71.821
#1	.00039	.00025	.00140
#2	-.00512	-.00036	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2541.7**	**1972.7**	**38903.**	**3992.9**
Stddev	1.3	2.8	95.	2.7
%RSD	.05132	.14316	.24494	.06670
#1	2542.6	1974.7	38971.	3991.0
#2	2540.7	1970.7	38836.	3994.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCS 480-195878/2-A Acquired: 8/1/2014 21:03:18 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05175**	**10.641**	**.20452**	**.20811**	**.21403**	**.20520**	**10.104**	**.20779**	**.20648**
Stddev	.00038	.003	.00029	.00094	.00117	.00038	.018	.00007	.00060
%RSD	.73342	.02471	.13976	.45092	.54878	.18329	.18145	.03344	.28980
#1	.05148	10.639	.20473	.20745	.21320	.20493	10.091	.20784	.20690
#2	.05202	10.642	.20432	.20877	.21487	.20546	10.117	.20774	.20606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20359**	**.20142**	**10.134**	**10.157**	**.20316**	**10.738**	**.20980**	**.20756**	**10.201**
Stddev	.00150	.00114	.034	.045	.00076	.027	.00001	.00029	.015
%RSD	.73857	.56358	.33258	.44369	.37481	.24757	.00680	.14137	.14739
#1	.20465	.20062	10.110	10.125	.20262	10.719	.20979	.20777	10.211
#2	.20253	.20223	10.158	10.188	.20370	10.757	.20981	.20736	10.190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19860**	**.20872**	**10.18**	**.20470**	**.20289**	**10.170**	**.20155**	**.20735**	**.20182**
Stddev	.00076	.00025	.00	.00103	.00272	.065	.00058	.00020	.00041
%RSD	.38263	.11827	.0417	.50219	1.3404	.63945	.28627	.09627	.20321
#1	.19914	.20889	10.18	.20397	.20097	10.124	.20114	.20721	.20153
#2	.19807	.20854	10.17	.20543	.20481	10.216	.20196	.20750	.20211
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21114**	**.21145**	**.20453**
Stddev	.00267	.00036	.00230
%RSD	1.2637	.17078	1.1227
#1	.21303	.21120	.20616
#2	.20926	.21171	.20291
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2373.9**	**1943.5**	**38113.**	**3966.6**
Stddev	3.5	5.0	87.	5.9
%RSD	.14608	.25528	.22749	.14784
#1	2376.3	1947.0	38174.	3970.7
#2	2371.4	1940.0	38051.	3962.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64648-C-1-A Acquired: 8/1/2014 21:06:01 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**11.808**	**.01111**	**.09779**	**.37181**	**.00080**	**138.78**	**.00437**	**.02221**
Stddev	.00096	.072	.00113	.00031	.00027	.00008	.35	.00007	.00005
%RSD	83.686	.61102	10.209	.31693	.07334	10.272	.25382	1.5769	.20311
#1	-.00047	11.757	.01031	.09800	.37201	.00085	139.03	.00442	.02218
#2	-.00182	11.859	.01191	.09757	.37162	.00074	138.54	.00432	.02224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01769**	**.04377**	**28.954**	**4.8122**	**.04035**	**21.608**	**1.8771**	**.00415**	**51.533**
Stddev	.00051	.00136	.015	.0164	.00004	.121	.0047	.00020	.014
%RSD	2.8881	3.1168	.05094	.34168	.10434	.55877	.24910	4.9091	.02696
#1	.01806	.04473	28.964	4.8238	.04038	21.523	1.8738	.00429	51.543
#2	.01733	.04280	28.943	4.8006	.04032	21.694	1.8804	.00400	51.524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03518**	**.03818**	F **12.43**	**.00026**	**.00301**	**20.353**	**.00343**	**1.4147**	**.15643**
Stddev	.00004	.00172	.04	.00007	.00422	.178	.00021	.0019	.00305
%RSD	.10914	4.5101	.3606	25.010	140.34	.87698	6.2312	.13748	1.9511
#1	.03516	.03697	12.46	.00031	.00599	20.479	.00359	1.4161	.15427
#2	.03521	.03940	12.40	.00022	.00002	20.227	.00328	1.4133	.15859
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00291**	**.02085**	**.22774**
Stddev	.00437	.00010	.00175
%RSD	150.10	.46865	.76980
#1	-.00601	.02078	.22650
#2	.00018	.02091	.22898
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2164.9**	**1897.2**	**36970.**	**3988.3**
Stddev	2.6	3.5	123.	.7
%RSD	.11808	.18625	.33385	.01694
#1	2166.7	1894.7	37058.	3987.8
#2	2163.1	1899.7	36883.	3988.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64648-C-2-A Acquired: 8/1/2014 21:08:46 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00198**	**2.7662**	**.04877**	**.05727**	**.09422**	**.00022**	**58.483**	**.00080**	**.00607**
Stddev	.00038	.0034	.00008	.00016	.00007	.00004	.292	.00002	.00011
%RSD	19.387	.12214	.15684	.28459	.07588	17.272	.50003	2.8236	1.8317
#1	-.00225	2.7686	.04882	.05739	.09427	.00025	58.276	.00078	.00599
#2	-.00171	2.7638	.04872	.05715	.09417	.00019	58.689	.00081	.00615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00534**	**.01240**	**15.360**	**6.8206**	**.00814**	**7.5086**	**11.795**	**.00175**	**7.3556**
Stddev	.00035	.00021	.017	.0218	.00008	.0314	.040	.00013	.0131
%RSD	6.6401	1.6831	.11193	.32003	.95056	.41880	.34148	7.5705	.17744
#1	.00509	.01225	15.347	6.8360	.00809	7.5308	11.824	.00165	7.3463
#2	.00560	.01255	15.372	6.8052	.00820	7.4863	11.767	.00184	7.3648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00495**	**.00966**	**1.318**	**-.00102**	**.00779**	**10.096**	**.00017**	**.29295**	**.05236**
Stddev	.00035	.00067	.005	.00022	.00175	.074	.00073	.00054	.00135
%RSD	7.0972	6.9255	.3456	21.501	22.471	.73171	417.02	.18340	2.5869
#1	.00470	.00919	1.321	-.00086	.00903	10.148	-.00034	.29333	.05141
#2	.00519	.01014	1.314	-.00117	.00655	10.043	.00069	.29257	.05332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00873**	**.00552**	**.03373**
Stddev	.00060	.00027	.00040
%RSD	6.8543	4.9081	1.1745
#1	.00830	.00571	.03401
#2	.00915	.00533	.03345
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2311.2**	**1930.2**	**37717.**	**3983.8**
Stddev	.6	.9	116.	15.6
%RSD	.02755	.04814	.30825	.39108
#1	2310.8	1930.8	37634.	3994.8
#2	2311.7	1929.5	37799.	3972.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 21:11:39 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50834**	**25.483**	**.50218**	**.49063**	**.50111**	**.49232**	**25.059**	**.50852**	**.50982**	**.50759**	**.47755**	**24.488**	**24.960**	**.49485**
Stddev	.00014	.107	.00108	.00001	.00130	.00143	.025	.00024	.00055	.00133	.00182	.034	.003	.00087
%RSD	.02809	.41941	.21518	.00294	.25980	.28971	.09788	.04750	.10734	.26170	.38083	.13875	.01174	.17508
#1	.50844	25.407	.50294	.49062	.50203	.49333	25.076	.50869	.51020	.50853	.47884	24.513	24.962	.49423
#2	.50824	25.558	.50141	.49064	.50019	.49131	25.041	.50835	.50943	.50665	.47627	24.464	24.958	.49546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.633**	**.51078**	**.51044**	**25.051**	**.49960**	**.51298**	**24.76**	**.50142**	**.49573**	**24.828**	**.51696**	**.51106**	**.51001**	**.50805**
Stddev	.039	.00116	.00125	.029	.00024	.00201	.01	.00139	.00080	.002	.00020	.00022	.00133	.00022
%RSD	.15044	.22676	.24493	.11707	.04825	.39116	.0405	.27811	.16189	.00609	.03779	.04331	.26008	.04363
#1	25.605	.50997	.50956	25.031	.49977	.51156	24.77	.50241	.49630	24.827	.51710	.51121	.50907	.50821
#2	25.660	.51160	.51133	25.072	.49943	.51440	24.76	.50044	.49516	24.829	.51682	.51090	.51095	.50789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50702**	**.51199**
Stddev	.00084	.00127
%RSD	.16569	.24869
#1	.50642	.51109
#2	.50761	.51289
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2267.5**	**1922.7**	**36903.**	**3914.4**
Stddev	1.0	2.1	21.	5.2
%RSD	.04282	.11082	.05665	.13359
#1	2266.8	1921.2	36888.	3910.7
#2	2268.1	1924.2	36917.	3918.1

Sample Name: CCB Acquired: 8/1/2014 21:14:23 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00453**	**-.00137**	**.00031**	**.00002**	**.00001**	**.00248**	**.00010**	**.00004**	**.00018**	**.00034**	**-.00306**
Stddev	.00003	.00955	.00176	.00014	.00000	.00005	.00072	.00011	.00013	.00008	.00017	.00071
%RSD	8.3971	211.08	128.69	44.647	8.6915	415.81	29.020	116.06	300.81	45.826	50.729	23.091
#1	-.00035	-.01128	-.00012	.00021	.00002	-.00002	.00197	.00002	.00014	.00012	.00046	-.00256
#2	-.00040	.00223	-.00261	.00041	.00002	.00004	.00299	.00018	-.00005	.00024	.00022	-.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03347**	**-.00069**	**-.00552**	**.00069**	**-.00007**	**.00558**	**-.00069**	**.00057**	**.0091**	**-.00005**	**-.00267**	**-.00648**
Stddev	.03792	.00023	.00414	.00001	.00004	.00234	.00048	.00046	.0031	.00083	.00082	.00025
%RSD	113.29	32.869	74.906	1.3371	51.319	41.969	69.347	80.061	33.94	1713.6	30.869	3.8085
#1	.00666	-.00053	-.00260	.00069	-.00004	.00724	-.00035	.00089	.0113	.00054	-.00209	-.00630
#2	.06028	-.00085	-.00845	.00070	-.00009	.00393	-.00102	.00025	.0070	-.00064	-.00326	-.00665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00020**	**-.00030**	**.00084**	**.00007**	**.00060**
Stddev	.00019	.00003	.00011	.00279	.00032	.00065
%RSD	129.21	14.217	37.240	333.61	486.33	108.88
#1	-.00029	.00022	-.00038	-.00113	-.00016	.00014
#2	-.00001	.00018	-.00022	.00280	.00029	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2523.4**	**1969.9**	**38237.**	**3918.6**
Stddev	.4	5.3	30.	3.3
%RSD	.01507	.27083	.07837	.08511
#1	2523.1	1966.2	38259.	3916.2
#2	2523.6	1973.7	38216.	3921.0

Sample Name: CCVL-2222402 Acquired: 8/1/2014 21:17:15 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.19275**	**.01250**	**.01993**	**.00215**	**.00210**	**.50920**	**.00218**	**.00410**	**.00446**	**.00883**
Stddev	.00022	.00373	.00168	.00001	.00001	.00008	.00379	.00011	.00001	.00021	.00093
%RSD	4.2303	1.9374	13.409	.04659	.54413	3.9415	.74490	4.8439	.25813	4.7242	10.502
#1	.00531	.19011	.01369	.01994	.00215	.00216	.50652	.00210	.00409	.00461	.00948
#2	.00500	.19539	.01131	.01992	.00216	.00204	.51188	.00225	.00410	.00431	.00817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04393**	**.50032**	**.02927**	**.20945**	W **.00396**	**.01055**	**.98175**	**.00929**	**.01019**	**.2158**	**.01994**
Stddev	.00621	.00199	.00127	.00265	.00012	.00015	.00344	.00003	.00124	.0033	.00172
%RSD	14.133	.39790	4.3382	1.2648	3.0974	1.4365	.35039	.35702	12.182	1.521	8.6396
#1	.03954	.50173	.02837	.20758	.00405	.01044	.97932	.00926	.00931	.2135	.01873
#2	.04832	.49891	.03016	.21133	.00387	.01066	.98418	.00931	.01107	.2181	.02116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					.00300						
Range					30.000%						

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02298**	**.48260**	**.00886**	**.00520**	**.00481**	**.02053**	**.00536**	**.01063**
Stddev	.00351	.01095	.00099	.00011	.00003	.00110	.00000	.00020
%RSD	15.283	2.2686	11.184	2.1267	.72700	5.3530	.02621	1.8861
#1	.02050	.47486	.00816	.00528	.00478	.01975	.00536	.01077
#2	.02546	.49034	.00956	.00512	.00483	.02131	.00536	.01049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2513.7**	**1976.7**	**38579.**	**3924.5**
Stddev	7.6	3.8	126.	7.4
%RSD	.30284	.19418	.32548	.18979
#1	2519.1	1979.4	38491.	3919.2
#2	2508.3	1973.9	38668.	3929.8

Sample Name: 480-64648-C-2-A Acquired: 8/1/2014 21:20:06 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.55912**	**.00846**	**.01305**	**.01939**	**.00012**	**11.923**	**.00035**	**.00120**
Stddev	.00043	.00289	.00328	.00034	.00002	.00005	.061	.00007	.00017
%RSD	120.88	.51684	38.766	2.6259	.09928	42.470	.51166	19.270	14.342
#1	-.00066	.55707	.01078	.01280	.01937	.00009	11.879	.00030	.00132
#2	-.00005	.56116	.00614	.01329	.01940	.00016	11.966	.00040	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00310**	**3.0619**	**1.3498**	**.00193**	**1.4904**	**2.5182**	**.00038**	**1.4109**
Stddev	.00005	.00048	.0115	.0018	.00026	.0022	.0078	.00021	.0052
%RSD	6.0897	15.416	.37436	.13201	13.646	.14890	.31042	55.566	.36871
#1	.00085	.00343	3.0538	1.3511	.00212	1.4920	2.5127	.00023	1.4072
#2	.00078	.00276	3.0700	1.3486	.00175	1.4888	2.5237	.00052	1.4146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00209**	**.2526**	**.00075**	**-.00069**	**2.0771**	**.00009**	**.05841**	**.01070**
Stddev	.00023	.00008	.0000	.00030	.00429	.0023	.00034	.00021	.00013
%RSD	34.194	3.6933	.0135	39.633	619.76	.11073	373.49	.36086	1.2464
#1	.00052	.00214	.2526	.00096	.00234	2.0755	-.00015	.05826	.01079
#2	.00085	.00203	.2526	.00054	-.00372	2.0788	.00033	.05856	.01060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00481**	**.00142**	**.00789**
Stddev	.00132	.00030	.00041
%RSD	27.436	20.827	5.2514
#1	.00388	.00163	.00819
#2	.00575	.00121	.00760
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2452.3**	**1958.5**	**38150.**	**3948.6**
Stddev	2.0	1.4	64.	19.3
%RSD	.08271	.06968	.16663	.48814
#1	2453.7	1959.4	38105.	3962.2
#2	2450.9	1957.5	38195.	3935.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64648-C-2-A Acquired: 8/1/2014 21:22:54 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04694**	**12.707**	**.25846**	**.25372**	**.29378**	**.20763**	**67.861**	**.21155**	**.22028**
Stddev	.00011	.004	.00130	.00068	.00093	.00081	.175	.00038	.00020
%RSD	.24175	.03430	.50368	.26731	.31675	.39094	.25860	.18025	.08989
#1	.04702	12.704	.25754	.25324	.29443	.20705	67.737	.21128	.22014
#2	.04686	12.710	.25938	.25420	.29312	.20820	67.985	.21182	.22042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21107**	**.21041**	**24.980**	**16.321**	**.20180**	**18.000**	**11.654**	**.20898**	**16.819**
Stddev	.00019	.00036	.019	.008	.00191	.066	.076	.00059	.028
%RSD	.08976	.17025	.07437	.04981	.94799	.36839	.64953	.28136	.16900
#1	.21120	.21016	24.967	16.315	.20045	18.047	11.708	.20856	16.799
#2	.21093	.21066	24.993	16.326	.20315	17.953	11.601	.20939	16.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20958**	**.22367**	**1.287**	**.20796**	**.21240**	**19.929**	**.20605**	**.47718**	**.25100**
Stddev	.00031	.00102	.003	.00072	.00182	.016	.00102	.00076	.00281
%RSD	.14872	.45629	.2602	.34665	.85601	.07950	.49539	.16011	1.1200
#1	.20936	.22295	1.290	.20745	.21369	19.940	.20533	.47664	.24902
#2	.20980	.22439	1.285	.20847	.21111	19.918	.20678	.47772	.25299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.22555**	**.22128**	**.23615**
Stddev	.00092	.00110	.00102
%RSD	.40675	.49539	.43399
#1	.22619	.22206	.23542
#2	.22490	.22051	.23687
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2251.1**	**1925.5**	**37491.**	**3987.6**
Stddev	2.0	1.4	107.	7.4
%RSD	.08697	.07371	.28417	.18550
#1	2252.5	1926.5	37416.	3992.8
#2	2249.8	1924.5	37566.	3982.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64648-C-2-B MS Acquired: 8/1/2014 21:25:41 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05019**	**11.672**	**.25292**	**.26624**	**.29849**	**.20334**	**69.360**	**.20698**	**.21217**
Stddev	.00087	.059	.00363	.00025	.00001	.00119	.254	.00056	.00046
%RSD	1.7247	.50406	1.4336	.09203	.00395	.58633	.36561	.27162	.21587
#1	.05080	11.713	.25548	.26607	.29848	.20249	69.180	.20658	.21249
#2	.04957	11.630	.25035	.26642	.29850	.20418	69.539	.20738	.21185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20388**	**.20299**	**24.010**	**17.959**	**.20882**	**17.652**	**11.894**	**.20652**	**18.083**
Stddev	.00080	.00116	.097	.023	.00102	.068	.063	.00054	.059
%RSD	.39209	.57080	.40321	.12798	.49021	.38527	.53267	.26210	.32760
#1	.20445	.20217	23.941	17.943	.20810	17.700	11.939	.20614	18.041
#2	.20332	.20381	24.078	17.976	.20955	17.604	11.849	.20690	18.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20299**	**.21218**	F **11.54**	**.20152**	**.20752**	**17.668**	**.20360**	**.49206**	**.21703**
Stddev	.00015	.00288	.00	.00228	.00426	.026	.00033	.00159	.00191
%RSD	.07298	1.3574	.0283	1.1310	2.0515	.14555	.16320	.32238	.87965
#1	.20310	.21422	11.54	.20314	.21053	17.686	.20337	.49094	.21838
#2	.20289	.21015	11.54	.19991	.20451	17.650	.20384	.49318	.21568
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.22324**	**.21065**	**.21066**
Stddev	.00066	.00005	.00262
%RSD	.29640	.02456	1.2428
#1	.22371	.21061	.21251
#2	.22277	.21068	.20881
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2242.1**	**1907.1**	**37305.**	**3968.6**
Stddev	1.7	2.6	28.	12.4
%RSD	.07665	.13576	.07390	.31356
#1	2243.3	1909.0	37286.	3977.4
#2	2240.9	1905.3	37325.	3959.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64648-C-2-C MSD Acquired: 8/1/2014 21:28:28 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05104**	**11.624**	**.25475**	**.26866**	**.30070**	**.20398**	**69.354**	**.20789**	**.21303**
Stddev	.00088	.000	.00124	.00015	.00026	.00006	.099	.00048	.00006
%RSD	1.7210	.00060	.48662	.05744	.08692	.02859	.14276	.23004	.02716
#1	.05042	11.624	.25563	.26856	.30052	.20394	69.284	.20822	.21307
#2	.05166	11.624	.25387	.26877	.30089	.20403	69.424	.20755	.21299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20461**	**.20478**	**24.003**	**17.937**	**.20794**	**17.725**	**11.932**	**.20779**	**18.069**
Stddev	.00015	.00033	.067	.035	.00092	.013	.071	.00073	.034
%RSD	.07449	.16293	.27797	.19600	.44392	.07432	.59553	.35214	.19024
#1	.20472	.20501	23.955	17.912	.20728	17.716	11.882	.20831	18.044
#2	.20450	.20454	24.050	17.961	.20859	17.735	11.983	.20727	18.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20447**	**.21331**	F **11.61**	**.20253**	**.21141**	**17.671**	**.20420**	**.49022**	**.21922**
Stddev	.00031	.00005	.00	.00097	.00494	.092	.00060	.00060	.00130
%RSD	.15150	.02475	.0283	.47712	2.3366	.52119	.29178	.12168	.59144
#1	.20468	.21328	11.61	.20185	.21490	17.606	.20378	.49065	.21830
#2	.20425	.21335	11.61	.20321	.20791	17.736	.20462	.48980	.22013
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21817**	**.21350**	**.21119**
Stddev	.00132	.00059	.00038
%RSD	.60707	.27454	.17823
#1	.21910	.21392	.21145
#2	.21723	.21309	.21092
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2246.7**	**1908.3**	**37333.**	**3978.0**
Stddev	1.2	.9	73.	11.4
%RSD	.05183	.04796	.19683	.28749
#1	2247.6	1907.7	37385.	3986.1
#2	2245.9	1909.0	37281.	3970.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64648-C-3-A Acquired: 8/1/2014 21:31:15 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**5.8010**	**.00077**	**.10427**	**.05103**	**.00028**	**151.15**	**.00026**	**.00169**
Stddev	.00007	.0067	.00247	.00014	.00007	.00003	1.09	.00000	.00018
%RSD	11.507	.11588	320.32	.13639	.13830	10.853	.71849	1.6261	10.707
#1	-.00059	5.7963	.00252	.10417	.05098	.00026	151.91	.00026	.00156
#2	-.00070	5.8058	-.00097	.10437	.05108	.00030	150.38	.00026	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00694**	**.00790**	**4.8335**	**3.1620**	**.02790**	**19.731**	**.19111**	**.00064**	**14.990**
Stddev	.00048	.00102	.0570	.0217	.00008	.078	.00128	.00030	.023
%RSD	6.9589	12.932	1.1782	.68785	.29092	.39730	.67075	46.585	.15238
#1	.00659	.00862	4.8738	3.1774	.02784	19.786	.19201	.00043	15.006
#2	.00728	.00718	4.7932	3.1466	.02796	19.676	.19020	.00085	14.974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**.00609**	F **28.87**	**-.00102**	**.00462**	**16.816**	**.00038**	**1.0508**	**.08215**
Stddev	.00044	.00085	.06	.00086	.00141	.012	.00002	.0007	.00664
%RSD	10.397	13.934	.2188	84.876	30.616	.07115	5.0286	.06635	8.0832
#1	.00388	.00549	28.83	-.00162	.00362	16.824	.00039	1.0513	.07746
#2	.00450	.00669	28.92	-.00041	.00562	16.808	.00036	1.0503	.08685
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00093**	**.00847**	**.01517**
Stddev	.00017	.00016	.00062
%RSD	18.075	1.9337	4.0848
#1	-.00105	.00858	.01561
#2	-.00081	.00835	.01473
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2207.8**	**1869.5**	**36622.**	**3966.1**
Stddev	5.4	8.5	126.	30.0
%RSD	.24505	.45319	.34420	.75676
#1	2211.6	1875.5	36533.	3944.9
#2	2203.9	1863.5	36712.	3987.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64646-E-1-B Acquired: 8/1/2014 21:34:01 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**.48849**	**.15078**	**.22512**	**.25486**	**.00009**	**92.256**	**.00040**	**.00020**
Stddev	.00041	.03984	.00168	.00096	.00067	.00004	.116	.00017	.00003
%RSD	27.918	8.1554	1.1143	.42679	.26205	40.287	.12539	42.287	15.042
#1	-.00117	.51666	.15197	.22444	.25533	.00006	92.338	.00028	.00018
#2	-.00174	.46032	.14960	.22580	.25439	.00011	92.175	.00052	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.00247**	**4.1846**	**2.3836**	**.02301**	**46.300**	**.05787**	**.07865**	**116.78**
Stddev	.00000	.00122	.0096	.0083	.00006	.002	.00006	.00014	.29
%RSD	.26912	49.372	.22903	.34773	.26241	.00426	.10002	.18186	.24936
#1	.00169	.00161	4.1914	2.3895	.02305	46.302	.05783	.07876	116.99
#2	.00168	.00333	4.1779	2.3778	.02297	46.299	.05791	.07855	116.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00318**	**.3245**	**-.00140**	**.00387**	**5.8911**	**-.00030**	**.82056**	**.01584**
Stddev	.00036	.00191	.0041	.00046	.00363	.0212	.00025	.00162	.00402
%RSD	120.70	60.123	1.248	32.636	93.893	.36048	84.030	.19695	25.343
#1	.00055	.00183	.3274	-.00108	.00644	5.9061	-.00048	.82170	.01868
#2	.00004	.00453	.3216	-.00172	.00130	5.8761	-.00012	.81941	.01300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00228**	**.00096**	**.00297**
Stddev	.00201	.00044	.00075
%RSD	87.915	45.337	25.380
#1	.00086	.00065	.00350
#2	.00370	.00127	.00244
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2131.0**	**1817.1**	**35399.**	**3896.3**
Stddev	3.9	5.2	40.	9.5
%RSD	.18329	.28396	.11307	.24373
#1	2133.8	1820.7	35370.	3889.6
#2	2128.3	1813.4	35427.	3903.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64646-E-2-B Acquired: 8/1/2014 21:36:49 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.01927**	**.00843**	**.05452**	**.09139**	**.00002**	**139.03**	**.00028**	**.00052**
Stddev	.00005	.02050	.00068	.00033	.00023	.00001	.23	.00004	.00002
%RSD	6.9823	106.40	8.0410	.61256	.25112	32.703	.16527	13.505	2.9679
#1	-.00074	.00477	.00890	.05476	.09155	.00002	139.19	.00025	.00051
#2	-.00082	.03377	.00795	.05429	.09123	.00002	138.87	.00030	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.00167**	**4.7440**	**1.8084**	**.01114**	**96.710**	**1.7270**	**.00021**	**38.481**
Stddev	.00048	.00039	.0246	.0382	.00144	.584	.0148	.00029	.065
%RSD	34.397	23.076	.51802	2.1109	12.904	.60344	.85663	136.94	.16824
#1	.00106	.00140	4.7614	1.7814	.01012	97.123	1.7375	.00001	38.527
#2	.00174	.00195	4.7266	1.8354	.01216	96.297	1.7165	.00042	38.435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.00449**	F **68.89**	**-.00133**	**.00622**	**6.3833**	**-.00046**	**.35372**	**.00047**
Stddev	.00073	.00016	.10	.00051	.00254	.0154	.00042	.00047	.00050
%RSD	73.195	3.5921	.1420	37.954	40.751	.24064	90.879	.13393	105.87
#1	.00151	.00461	68.96	-.00098	.00802	6.3724	-.00076	.35338	.00012
#2	.00048	.00438	68.82	-.00169	.00443	6.3942	-.00017	.35405	.00082
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00404**	**.00005**	**.00528**
Stddev	.00331	.00002	.00070
%RSD	81.973	38.651	13.217
#1	.00170	.00006	.00577
#2	.00638	.00003	.00479
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2134.8**	**1801.8**	**35416.**	**3875.6**
Stddev	2.5	3.0	221.	1.2
%RSD	.11545	.16904	.62512	.03046
#1	2133.0	1799.7	35259.	3876.4
#2	2136.5	1804.0	35572.	3874.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64646-E-3-B Acquired: 8/1/2014 21:39:36 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.07168**	**.01791**	**.18143**	**.15733**	**.00004**	**52.149**	**.00026**	**.00057**
Stddev	.00104	.02275	.00381	.00013	.00058	.00017	.173	.00010	.00018
%RSD	132.50	31.735	21.245	.07111	.37089	425.78	.33133	36.390	31.594
#1	-.00005	.05559	.02060	.18152	.15775	.00016	52.271	.00033	.00044
#2	-.00152	.08776	.01522	.18134	.15692	-.00008	52.026	.00019	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**.00134**	**2.2215**	**2.8148**	**.02219**	**31.052**	**.06441**	**.07897**	**178.78**
Stddev	.00046	.00085	.0094	.0299	.00016	.148	.00036	.00007	.43
%RSD	32.435	62.939	.42437	1.0638	.70124	.47810	.55921	.09121	.23876
#1	.00173	.00075	2.2148	2.8360	.02208	31.157	.06467	.07892	178.48
#2	.00109	.00194	2.2281	2.7937	.02230	30.947	.06416	.07902	179.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00005**	**.2487**	**-.00001**	**.00008**	**6.5742**	**-.00015**	**.51142**	**.00177**
Stddev	.00063	.00030	.0057	.00182	.00487	.0117	.00039	.00083	.00053
%RSD	437.46	611.27	2.294	26273.	6204.6	.17722	251.42	.16320	29.619
#1	-.00030	.00026	.2527	-.00129	-.00337	6.5824	.00012	.51083	.00140
#2	.00059	-.00016	.2446	.00128	.00353	6.5660	-.00043	.51201	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00054**	**.00009**	**.00220**
Stddev	.00029	.00027	.00120
%RSD	54.446	313.46	54.677
#1	.00075	-.00010	.00305
#2	.00033	.00028	.00135
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2138.5**	**1833.9**	**35359.**	**3937.9**
Stddev	1.2	1.7	161.	9.0
%RSD	.05713	.09181	.45588	.22945
#1	2137.6	1832.7	35245.	3944.3
#2	2139.4	1835.1	35473.	3931.5
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64646-E-4-B Acquired: 8/1/2014 21:42:24 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.06163**	**.00412**	**.15048**	**.06317**	**.00007**	**170.93**	**.00027**	**.00004**
Stddev	.00100	.00592	.00099	.00061	.00020	.00006	.50	.00009	.00007
%RSD	93.176	9.6030	23.948	.40847	.32047	78.680	.29382	34.370	169.28
#1	-.00178	.06582	.00482	.15092	.06331	.00003	170.57	.00021	.00009
#2	-.00037	.05745	.00342	.15005	.06303	.00012	171.28	.00034	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.00159**	**.02928**	**5.5175**	**.01806**	**38.327**	**.02062**	**.01555**	**37.212**
Stddev	.00036	.00145	.00050	.0156	.00036	.166	.00015	.00001	.181
%RSD	29.744	91.126	1.6966	.28267	2.0191	.43329	.71811	.05532	.48750
#1	.00096	.00057	.02893	5.5065	.01832	38.444	.02072	.01556	37.084
#2	.00148	.00262	.02963	5.5285	.01780	38.210	.02051	.01555	37.340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00311**	F **147.9**	**-.00164**	**.00020**	**13.461**	**-.00045**	**.50516**	**.00005**
Stddev	.00047	.00181	.0	.00040	.00052	.012	.00003	.00243	.00040
%RSD	50.773	58.016	.0045	24.636	262.75	.08920	5.9500	.48124	796.05
#1	.00060	.00184	147.9	-.00193	.00056	13.470	-.00047	.50344	-.00023
#2	.00127	.00439	147.9	-.00136	-.00017	13.453	-.00043	.50688	.00033
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00128**	**.00076**	**.00191**
Stddev	.00194	.00014	.00005
%RSD	151.44	17.965	2.6539
#1	-.00266	.00066	.00195
#2	.00009	.00086	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2161.4**	**1810.8**	**35659.**	**3899.6**
Stddev	2.7	2.6	78.	34.4
%RSD	.12396	.14289	.21910	.88335
#1	2163.3	1812.7	35604.	3923.9
#2	2159.5	1809.0	35715.	3875.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 21:45:12 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50872**	**25.655**	**.50920**	**.49369**	**.49832**	**.49334**	**25.181**	**.51137**	**.51279**	**.50643**	**.47285**	**24.507**	**25.170**	**.49768**
Stddev	.00069	.017	.00184	.00231	.00061	.00102	.193	.00023	.00006	.00366	.00418	.022	.098	.00215
%RSD	.13488	.06430	.36090	.46793	.12290	.20625	.76795	.04427	.01121	.72364	.88418	.08837	.38744	.43161
#1	.50823	25.643	.50790	.49205	.49875	.49406	25.044	.51121	.51283	.50903	.47581	24.491	25.239	.49920
#2	.50920	25.666	.51050	.49532	.49789	.49262	25.318	.51153	.51274	.50384	.46990	24.522	25.101	.49616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.657**	**.50955**	**.51433**	**25.299**	**.49991**	**.51807**	**24.86**	**.50144**	**.49690**	**24.889**	**.51931**	**.51567**	**.51081**	**.50722**
Stddev	.050	.00003	.00081	.066	.00118	.00291	.03	.00273	.00213	.077	.00117	.00336	.00183	.00062
%RSD	.19410	.00584	.15668	.26112	.23564	.56110	.1222	.54465	.42855	.30931	.22574	.65100	.35738	.12147
#1	25.692	.50957	.51376	25.346	.50074	.52013	24.84	.49951	.49540	24.834	.51848	.51805	.51210	.50766
#2	25.622	.50953	.51490	25.252	.49908	.51602	24.88	.50337	.49841	24.943	.52014	.51330	.50952	.50679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50739**	**.50859**
Stddev	.00051	.00158
%RSD	.10142	.31022
#1	.50703	.50748
#2	.50776	.50971
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2260.7**	**1917.1**	**37020.**	**3911.0**
Stddev	.8	2.0	52.	29.2
%RSD	.03441	.10269	.14159	.74717
#1	2261.2	1918.5	36983.	3931.6
#2	2260.1	1915.7	37057.	3890.3

Sample Name: CCB Acquired: 8/1/2014 21:47:56 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.01043**	**.00053**	**.00110**	**-.00000**	**.00008**	**.00527**	**.00017**	**.00010**	**.00028**	**.00006**	**-.00167**
Stddev	.00017	.03211	.00333	.00042	.00001	.00012	.00014	.00002	.00001	.00025	.00015	.00479
%RSD	25.697	307.74	630.63	38.596	333.71	155.37	2.7419	11.005	5.0532	89.347	229.61	286.43
#1	-.00053	-.03314	.00288	.00080	-.00001	-.00001	.00537	.00016	.00010	.00046	-.00004	.00171
#2	-.00077	.01227	-.00183	.00140	.00000	.00017	.00517	.00018	.00010	.00010	.00017	-.00506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02383**	**-.00006**	**-.00106**	**.00061**	**.00035**	**.00042**	**-.00034**	**-.00036**	**.0123**	**.00112**	**.00035**	**.00420**
Stddev	.00543	.00059	.00207	.00010	.00015	.00238	.00007	.00110	.0002	.00269	.00144	.00773
%RSD	22.794	968.16	194.80	16.808	42.943	571.46	22.005	306.18	1.729	241.15	413.83	183.91
#1	.02768	-.00048	.00040	.00068	.00024	-.00127	-.00039	.00042	.0121	-.00079	.00137	-.00126
#2	.01999	.00036	-.00253	.00054	.00045	.00210	-.00029	-.00113	.0124	.00302	-.00067	.00966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00014**	**-.00013**	**.00094**	**.00031**	**.00072**
Stddev	.00032	.00003	.00000	.00427	.00027	.00048
%RSD	688.63	19.950	3.6417	453.79	86.888	67.687
#1	.00027	.00016	-.00014	.00396	.00050	.00106
#2	-.00018	.00012	-.00013	-.00208	.00012	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2523.3**	**1963.8**	**38409.**	**3925.5**
Stddev	1.7	1.5	109.	7.8
%RSD	.06634	.07687	.28299	.19815
#1	2524.5	1964.8	38486.	3920.0
#2	2522.1	1962.7	38332.	3931.0

Sample Name: CCVL-2222402 Acquired: 8/1/2014 21:50:50 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00537**	**.19851**	**.01177**	**.01966**	**.00216**	**.00207**	**.50161**	**.00223**	**.00417**	**.00443**	**.00838**
Stddev	.00057	.00122	.00311	.00017	.00001	.00002	.00229	.00011	.00001	.00000	.00056
%RSD	10.542	.61259	26.426	.86685	.25637	1.0152	.45735	4.9456	.15523	.00551	6.7360
#1	.00497	.19937	.00957	.01954	.00216	.00209	.50324	.00215	.00417	.00443	.00878
#2	.00577	.19765	.01397	.01978	.00215	.00206	.49999	.00231	.00418	.00443	.00799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04851**	**.50451**	**.02747**	**.21022**	W **.00390**	**.01044**	**.97273**	**.00919**	**.01125**	**.2135**	**.01827**
Stddev	.00277	.05030	.00011	.00466	.00005	.00004	.00792	.00005	.00189	.0010	.00125
%RSD	5.7030	9.9706	.40097	2.2172	1.3622	.39719	.81433	.54709	16.842	.4753	6.8221
#1	.05046	.54008	.02755	.21351	.00394	.01041	.96713	.00922	.01259	.2142	.01739
#2	.04655	.46894	.02739	.20692	.00387	.01047	.97834	.00915	.00991	.2128	.01915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					.00300						
Range					30.000%						

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02427**	**.47836**	**.00934**	**.00523**	**.00469**	**.02042**	**.00536**	**.01119**
Stddev	.00154	.00255	.00046	.00008	.00009	.00005	.00003	.00098
%RSD	6.3275	.53261	4.9542	1.5646	1.9225	.25581	.46957	8.8001
#1	.02318	.48016	.00967	.00517	.00462	.02045	.00534	.01050
#2	.02535	.47656	.00902	.00529	.00475	.02038	.00537	.01189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2517.0**	**1976.4**	**38634.**	**3935.7**
Stddev	1.0	1.9	70.	10.3
%RSD	.03899	.09450	.18136	.26141
#1	2517.7	1977.7	38585.	3928.5
#2	2516.3	1975.0	38684.	3943.0

Sample Name: 480-64646-E-5-B Acquired: 8/1/2014 21:53:40 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**.03546**	**.02512**	**.18023**	**.68468**	**.00004**	**107.73**	**.00042**	**.00114**
Stddev	.00067	.01695	.00095	.00052	.00178	.00007	.64	.00003	.00012
%RSD	72.207	47.818	3.7649	.28910	.25974	160.57	.59515	8.2597	10.725
#1	-.00045	.04744	.02445	.17986	.68594	.00009	108.19	.00039	.00105
#2	-.00139	.02347	.02579	.18060	.68342	-.00001	107.28	.00044	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.00217**	**2.6508**	**6.0826**	**.05285**	**62.398**	**.37351**	**.03983**	**318.56**
Stddev	.00008	.00024	.0039	.0371	.00017	.129	.00024	.00014	.20
%RSD	4.1404	10.881	.14818	.60946	.31507	.20742	.06294	.35041	.06248
#1	.00191	.00234	2.6536	6.0564	.05273	62.307	.37334	.03974	318.42
#2	.00203	.00201	2.6480	6.1088	.05297	62.490	.37367	.03993	318.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00259**	**.00196**	**.4247**	**-.00115**	**-.00437**	**3.0550**	**-.00097**	**2.4533**	**.00041**
Stddev	.00108	.00189	.0043	.00068	.00042	.0467	.00113	.0027	.00016
%RSD	41.557	96.649	1.021	59.015	9.6350	1.5298	116.71	.11211	39.857
#1	.00183	.00329	.4278	-.00163	-.00467	3.0881	-.00176	2.4514	.00029
#2	.00335	.00062	.4216	-.00067	-.00408	3.0220	-.00017	2.4553	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00189**	**-.00014**	**.00150**
Stddev	.00799	.00019	.00033
%RSD	422.08	137.48	22.007
#1	-.00376	-.00027	.00173
#2	.00754	-.00000	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2017.6**	**1771.1**	**34224.**	**3890.3**
Stddev	.4	.1	223.	6.4
%RSD	.01932	.00833	.65142	.16359
#1	2017.3	1771.0	34382.	3885.8
#2	2017.9	1771.2	34067.	3894.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64643-D-1-A Acquired: 8/1/2014 21:56:40 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**3.9536**	**.00226**	**.01416**	**.02805**	**.00026**	**26.136**	**.00024**	**.00232**
Stddev	.00026	.0535	.00202	.00024	.00023	.00008	.081	.00002	.00008
%RSD	92.187	1.3538	89.259	1.7235	.82389	29.018	.31181	6.7958	3.3908
#1	-.00046	3.9158	.00369	.01433	.02789	.00021	26.078	.00026	.00238
#2	-.00010	3.9915	.00083	.01399	.02821	.00031	26.193	.00023	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.00664**	**4.1493**	**1.1124**	**.00404**	**2.9459**	**.19012**	**.00078**	**.15679**
Stddev	.00008	.00032	.0136	.0055	.00032	.0218	.00124	.00019	.00509
%RSD	1.8236	4.8663	.32794	.49486	7.9803	.74005	.65130	24.954	3.2486
#1	.00429	.00641	4.1397	1.1162	.00427	2.9305	.18925	.00092	.16040
#2	.00441	.00687	4.1589	1.1085	.00381	2.9613	.19100	.00064	.15319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00498**	**.00480**	**1.155**	**.00139**	**.00030**	**5.7692**	**-.00009**	**.06014**	**.05440**
Stddev	.00028	.00055	.005	.00002	.00163	.0884	.00027	.00061	.00236
%RSD	5.5905	11.431	.4631	1.4753	548.03	1.5323	292.65	1.0158	4.3330
#1	.00478	.00442	1.158	.00138	-.00085	5.8317	-.00028	.05971	.05273
#2	.00518	.00519	1.151	.00140	.00145	5.7067	.00010	.06057	.05606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00109**	**.00668**	**.01716**
Stddev	.00275	.00025	.00003
%RSD	251.91	3.6920	.16926
#1	-.00085	.00650	.01718
#2	.00304	.00685	.01714
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2422.0**	**1956.8**	**38380.**	**4011.0**
Stddev	4.8	3.5	326.	14.2
%RSD	.19659	.17929	.84943	.35349
#1	2425.4	1954.3	38611.	4021.0
#2	2418.6	1959.2	38150.	4000.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64647-G-2-A Acquired: 8/1/2014 21:59:29 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.04656**	**-.00158**	**.00424**	**.00016**	**.00016**	**.09502**	**.00023**	**.00001**
Stddev	.00065	.00124	.00343	.00028	.00001	.00007	.00213	.00001	.00018
%RSD	571.65	2.6671	216.92	6.6217	5.6581	46.403	2.2371	6.0349	1250.1
#1	.00035	.04568	.00084	.00404	.00016	.00011	.09352	.00022	.00014
#2	-.00058	.04744	-.00401	.00444	.00015	.00021	.09653	.00024	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00029**	**.00421**	**-.00872**	**-.00033**	**.00261**	**.00052**	**.00016**	**.04008**
Stddev	.00021	.00084	.00066	.01632	.00019	.00315	.00000	.00010	.00544
%RSD	49.539	293.19	15.621	187.16	58.651	120.90	.45742	62.051	13.575
#1	.00057	-.00031	.00374	-.02026	-.00019	.00038	.00052	.00023	.03623
#2	.00027	.00088	.00467	.00282	-.00047	.00484	.00052	.00009	.04393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00182**	**.0227**	**.00000**	**-.00219**	**.01749**	**-.00081**	**.00048**	**.00022**
Stddev	.00043	.00166	.0023	.00086	.00218	.00706	.00026	.00005	.00007
%RSD	51.895	91.224	10.32	54060.	99.760	40.330	32.837	9.4259	31.939
#1	-.00113	.00065	.0211	-.00061	-.00064	.02248	-.00062	.00045	.00027
#2	-.00052	.00299	.0244	.00061	-.00373	.01251	-.00099	.00052	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00335**	**.00020**	**.00258**
Stddev	.00024	.00035	.00022
%RSD	7.1309	172.98	8.4774
#1	.00318	-.00005	.00274
#2	.00352	.00045	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2531.9**	**1984.8**	**38633.**	**3932.0**
Stddev	.2	.9	23.	10.1
%RSD	.00830	.04754	.05906	.25731
#1	2531.7	1984.1	38617.	3939.1
#2	2532.0	1985.4	38649.	3924.8
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64647-G-3-A Acquired: 8/1/2014 22:02:21 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.03483**	**-.00148**	**.01680**	**.05522**	**.00001**	**12.498**	**.00015**	**.00109**
Stddev	.00084	.01234	.00235	.00019	.00022	.00008	.004	.00006	.00004
%RSD	760.08	35.428	158.80	1.1157	.40393	866.91	.02858	38.596	3.3328
#1	.00048	.04355	.00018	.01693	.05538	.00007	12.500	.00011	.00111
#2	-.00070	.02610	-.00314	.01667	.05506	-.00005	12.495	.00019	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00101**	**2.5678**	**1.4969**	**.00516**	**1.3888**	**.45708**	**.00004**	**8.5689**
Stddev	.00032	.00057	.0104	.0001	.00013	.0088	.00274	.00011	.0054
%RSD	65.127	56.605	.40462	.00435	2.4317	.63211	.60010	270.93	.06253
#1	.00026	.00061	2.5751	1.4970	.00507	1.3950	.45902	-.00004	8.5651
#2	.00071	.00141	2.5604	1.4969	.00525	1.3826	.45514	.00012	8.5727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00068**	**2.664**	**-.00097**	**-.00172**	**8.8778**	**.00032**	**.06153**	**.00011**
Stddev	.00091	.00028	.005	.00073	.00312	.0293	.00013	.00023	.00012
%RSD	156.11	41.742	.1963	75.054	181.53	.32966	41.509	.37385	108.10
#1	-.00006	.00048	2.661	-.00045	.00049	8.8985	.00022	.06169	.00003
#2	.00122	.00088	2.668	-.00148	-.00392	8.8571	.00041	.06137	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00283**	**.00025**	**.01191**
Stddev	.00199	.00007	.00029
%RSD	70.216	28.072	2.4685
#1	.00142	.00020	.01170
#2	.00424	.00030	.01211
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2446.1**	**1954.1**	**37909.**	**3890.4**
Stddev	6.4	3.7	254.	3.3
%RSD	.26035	.19137	.67061	.08395
#1	2450.6	1956.8	37729.	3892.7
#2	2441.6	1951.5	38088.	3888.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64647-G-4-A Acquired: 8/1/2014 22:05:09 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.13529**	**.00436**	**.68536**	**.10946**	**.00043**	**38.846**	**.00025**	**.00247**
Stddev	.00051	.03302	.00073	.00009	.00041	.00003	.199	.00003	.00012
%RSD	65.080	24.404	16.691	.01362	.37718	6.7777	.51354	11.519	4.6509
#1	-.00043	.15864	.00487	.68529	.10975	.00045	38.705	.00027	.00255
#2	-.00115	.11195	.00384	.68542	.10917	.00041	38.987	.00023	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00172**	**22.920**	**7.5970**	**.00578**	**10.128**	**.19142**	**-.00045**	**40.133**
Stddev	.00043	.00060	.037	.0026	.00102	.004	.00061	.00026	.234
%RSD	44.608	34.825	.16356	.03354	17.666	.04268	.31634	58.234	.58307
#1	.00066	.00215	22.947	7.5952	.00650	10.131	.19185	-.00063	40.299
#2	.00126	.00130	22.894	7.5988	.00506	10.125	.19099	-.00026	39.968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.00333**	F **17.12**	**.00141**	**-.00252**	**9.3040**	**.00016**	**.26948**	**-.00001**
Stddev	.00055	.00192	.03	.00099	.00464	.0407	.00007	.00054	.00009
%RSD	26.490	57.699	.1933	70.402	183.97	.43740	45.948	.20019	725.43
#1	.00168	.00469	17.14	.00211	.00076	9.2752	.00011	.26986	.00005
#2	.00246	.00197	17.10	.00071	-.00580	9.3327	.00021	.26909	-.00007
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00055**	**.00109**	**.00497**
Stddev	.00064	.00050	.00133
%RSD	115.89	45.496	26.751
#1	.00010	.00144	.00591
#2	.00100	.00074	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2287.1**	**1912.6**	**36987.**	**3901.2**
Stddev	4.5	2.9	66.	9.9
%RSD	.19886	.15041	.17818	.25347
#1	2290.3	1914.7	37034.	3908.2
#2	2283.9	1910.6	36941.	3894.3
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64647-G-5-A Acquired: 8/1/2014 22:07:55 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.78810**	**-.00002**	**.03477**	**.01482**	**.00005**	**8.1426**	**.00016**	**.00050**
Stddev	.00032	.00858	.00040	.00032	.00005	.00003	.0163	.00007	.00005
%RSD	30.247	1.0881	2500.9	.93235	.35963	52.308	.20044	45.652	10.652
#1	-.00083	.78204	.00027	.03500	.01478	.00007	8.1311	.00021	.00054
#2	-.00129	.79416	-.00030	.03454	.01486	.00003	8.1541	.00011	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00192**	**4.7373**	**3.2265**	**.00171**	**1.5043**	**.03081**	**.00030**	**1.0694**
Stddev	.00008	.00041	.0126	.0137	.00020	.0120	.00007	.00038	.0037
%RSD	20.474	21.443	.26662	.42386	11.970	.79550	.21109	128.97	.35000
#1	.00034	.00163	4.7284	3.2168	.00156	1.4959	.03077	.00003	1.0720
#2	.00046	.00221	4.7462	3.2362	.00185	1.5128	.03086	.00057	1.0667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00191**	**4.072**	**.00262**	**-.00267**	**1.6237**	**.00040**	**.04138**	**.01675**
Stddev	.00049	.00082	.020	.00024	.00488	.0359	.00001	.00008	.00026
%RSD	57.885	43.232	.4781	9.1650	182.59	2.2136	2.4176	.18297	1.5409
#1	.00050	.00249	4.059	.00245	-.00613	1.5983	.00039	.04143	.01694
#2	.00118	.00132	4.086	.00279	.00078	1.6491	.00040	.04133	.01657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00038**	**.00108**	**.01358**
Stddev	.00008	.00016	.00194
%RSD	21.708	14.668	14.284
#1	.00044	.00097	.01495
#2	.00033	.00119	.01221
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2473.3**	**1969.7**	**38230.**	**3915.8**
Stddev	8.7	5.7	164.	9.7
%RSD	.35304	.29130	.42861	.24739
#1	2479.4	1973.8	38346.	3922.6
#2	2467.1	1965.7	38114.	3908.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64647-G-6-A Acquired: 8/1/2014 22:10:45 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.47841**	**-.00178**	**.01663**	**.05079**	**.00009**	**3.6099**	**.00014**	**.00003**
Stddev	.00098	.03263	.00057	.00034	.00044	.00006	.0229	.00002	.00000
%RSD	270.98	6.8209	31.813	2.0290	.86054	61.459	.63365	14.341	5.5279
#1	.00033	.50148	-.00138	.01687	.05049	.00013	3.6261	.00016	.00003
#2	-.00106	.45533	-.00218	.01639	.05110	.00005	3.5937	.00013	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00103**	**10.903**	**2.4725**	**.02112**	**1.1217**	**.05570**	**.00008**	**6.2656**
Stddev	.00035	.00064	.015	.0023	.00168	.0146	.00033	.00009	.0269
%RSD	36.371	62.196	.13678	.09361	7.9501	1.3008	.59468	116.62	.42968
#1	.00072	.00148	10.914	2.4741	.02230	1.1113	.05547	.00014	6.2847
#2	.00122	.00058	10.893	2.4709	.01993	1.1320	.05593	.00001	6.2466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00302**	**.1963**	**-.00107**	**.00070**	**20.323**	**.00090**	**.03408**	**.01178**
Stddev	.00047	.00103	.0049	.00021	.00654	.108	.00088	.00004	.00146
%RSD	151.46	34.121	2.490	19.733	936.22	.52907	98.400	.10648	12.350
#1	.00002	.00229	.1997	-.00122	.00532	20.399	.00027	.03406	.01281
#2	-.00064	.00374	.1928	-.00092	-.00392	20.247	.00153	.03411	.01075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00004**	**.00116**	**.01766**
Stddev	.00013	.00019	.00055
%RSD	353.12	16.277	3.1410
#1	-.00006	.00130	.01805
#2	.00013	.00103	.01727
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2453.5**	**1965.6**	**38171.**	**3924.0**
Stddev	6.9	5.7	365.	19.6
%RSD	.28120	.29009	.95662	.49903
#1	2458.3	1969.6	38430.	3910.2
#2	2448.6	1961.5	37913.	3937.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64647-G-7-A Acquired: 8/1/2014 22:13:33 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.21723**	**-.00266**	**.02268**	**.32318**	**.00080**	**2.3359**	**.00025**	**.00449**
Stddev	.00029	.00286	.00128	.00004	.00072	.00005	.0196	.00005	.00011
%RSD	214.19	1.3184	48.112	.16746	.22255	5.6128	.83862	18.913	2.5214
#1	-.00034	.21521	-.00356	.02270	.32267	.00083	2.3220	.00022	.00441
#2	.00007	.21926	-.00175	.02265	.32369	.00077	2.3497	.00029	.00457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00132**	**6.9724**	**2.2404**	**.00662**	**3.1878**	**.11907**	**-.00019**	**30.873**
Stddev	.00005	.00088	.0451	.0101	.00044	.0244	.00022	.00019	.015
%RSD	7.1389	66.508	.64712	.45031	6.6383	.76639	.18362	98.378	.04987
#1	.00065	.00195	6.9405	2.2333	.00693	3.1705	.11892	-.00033	30.862
#2	.00072	.00070	7.0043	2.2475	.00631	3.2050	.11923	-.00006	30.884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00725**	**.00181**	**.2859**	**.00228**	**.00283**	**7.3988**	**.00042**	**.03678**	**-.00014**
Stddev	.00036	.00103	.0013	.00013	.00364	.0621	.00031	.00006	.00041
%RSD	4.9652	56.974	.4419	5.4836	128.54	.83919	72.734	.17244	293.04
#1	.00699	.00254	.2850	.00219	.00541	7.3549	.00064	.03673	-.00043
#2	.00750	.00108	.2868	.00237	.00026	7.4427	.00021	.03682	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00234**	**.00017**	**.02058**
Stddev	.00129	.00020	.00055
%RSD	55.138	120.11	2.6759
#1	.00143	.00031	.02019
#2	.00326	.00003	.02097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2373.2**	**1936.1**	**37348.**	**3936.6**
Stddev	2.1	1.1	2.	20.8
%RSD	.08820	.05755	.00606	.52870
#1	2374.7	1935.3	37349.	3951.3
#2	2371.8	1936.9	37346.	3921.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64370-C-2-B Acquired: 8/1/2014 22:16:22 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**2.5865**	**.00218**	**.03525**	**.05251**	**.00015**	**22.092**	**.00034**	**.00117**
Stddev	.00007	.0332	.00355	.00021	.00022	.00015	.105	.00002	.00014
%RSD	21.641	1.2829	162.99	.58974	.42157	95.262	.47511	7.0096	12.157
#1	-.00036	2.5630	-.00033	.03510	.05235	.00026	22.166	.00033	.00127
#2	-.00027	2.6100	.00469	.03540	.05267	.00005	22.018	.00036	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00331**	**.00332**	**2.8176**	**3.0183**	**.00426**	**5.3414**	**.08352**	**.00002**	**15.533**
Stddev	.00043	.00080	.0285	.0339	.00055	.0189	.00025	.00032	.055
%RSD	12.847	23.961	1.0120	1.1228	12.991	.35374	.29370	1804.2	.35095
#1	.00301	.00389	2.8378	3.0423	.00387	5.3281	.08369	-.00021	15.571
#2	.00361	.00276	2.7974	2.9944	.00465	5.3548	.08334	.00025	15.494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**.00370**	**4.836**	**-.00086**	**.00050**	**5.8251**	**-.00024**	**.05745**	**.03318**
Stddev	.00002	.00004	.024	.00093	.00062	.0558	.00040	.00026	.00163
%RSD	.78864	1.1951	.4970	107.94	125.08	.95749	170.04	.45109	4.9039
#1	.00234	.00373	4.819	-.00020	.00094	5.8646	-.00052	.05727	.03433
#2	.00232	.00367	4.853	-.00151	.00006	5.7857	.00005	.05764	.03203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00002**	**.00439**	**.01550**
Stddev	.00327	.00004	.00013
%RSD	14372.	.80580	.85264
#1	.00234	.00442	.01541
#2	-.00229	.00437	.01559
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2376.9**	**1943.3**	**37567.**	**3907.4**
Stddev	1.2	1.0	213.	3.8
%RSD	.04981	.05300	.56574	.09610
#1	2377.7	1944.0	37717.	3904.8
#2	2376.0	1942.6	37417.	3910.1
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 22:19:11 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50884**	**25.940**	**.50201**	**.48940**	**.49679**	**.49390**	**25.324**	**.51035**	**.51388**	**.52048**	**.47389**	**24.562**	**25.231**	**.50159**
Stddev	.00286	.058	.00321	.00104	.00132	.00012	.207	.00009	.00087	.00007	.00345	.030	.023	.00319
%RSD	.56261	.22381	.64018	.21247	.26554	.02388	.81632	.01688	.17008	.01409	.72895	.12273	.09303	.63630
#1	.51086	25.899	.49974	.49013	.49586	.49398	25.470	.51041	.51450	.52042	.47145	24.583	25.247	.49934
#2	.50681	25.981	.50428	.48866	.49772	.49381	25.177	.51029	.51327	.52053	.47634	24.541	25.214	.50385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.708**	**.51150**	**.51180**	**25.496**	**.49985**	**.51727**	**24.73**	**.49976**	**.49775**	**24.983**	**.52128**	**.51715**	**.51434**	**.50660**
Stddev	.089	.00194	.00042	.016	.00011	.00170	.02	.00315	.00249	.035	.00007	.00059	.00127	.00251
%RSD	.34535	.37909	.08252	.06122	.02134	.32951	.0908	.63064	.49939	.13852	.01409	.11374	.24642	.49483
#1	25.770	.51288	.51150	25.485	.49977	.51847	24.72	.49753	.49599	24.959	.52133	.51756	.51344	.50837
#2	25.645	.51013	.51209	25.507	.49992	.51606	24.75	.50199	.49951	25.007	.52122	.51673	.51523	.50482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50887**	**.52105**
Stddev	.00250	.00443
%RSD	.49138	.85074
#1	.51064	.52419
#2	.50711	.51792
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2261.2**	**1927.6**	**36682.**	**3845.1**
Stddev	3.1	.5	137.	26.7
%RSD	.13514	.02625	.37399	.69457
#1	2259.1	1927.2	36585.	3826.2
#2	2263.4	1927.9	36779.	3864.0

Sample Name: CCB Acquired: 8/1/2014 22:21:55 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00348**	**-.00407**	**.00086**	**-.00001**	**.00011**	**-.00447**	**.00024**	**.00007**	**.00061**	**-.00010**	**-.00569**
Stddev	.00051	.00073	.00178	.00014	.00000	.00020	.00119	.00004	.00001	.00001	.00113	.00190
%RSD	101.62	20.919	43.638	15.967	45.239	182.56	26.576	16.506	9.1980	1.3602	1112.4	33.400
#1	-.00014	-.00297	-.00281	.00095	-.00000	.00026	-.00363	.00027	.00007	.00060	.00070	-.00435
#2	-.00086	-.00400	-.00533	.00076	-.00001	-.00003	-.00531	.00021	.00008	.00061	-.00090	-.00704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01005**	**-.00067**	**-.00058**	**.00010**	**.00008**	**-.02977**	**-.00101**	**.00099**	**.0005**	**.00028**	**-.00192**	**.01454**
Stddev	.03673	.00020	.00122	.00007	.00007	.00342	.00019	.00070	.0005	.00103	.00161	.00406
%RSD	365.54	30.416	210.69	67.218	81.317	11.476	18.502	71.032	106.2	361.10	83.819	27.943
#1	-.01592	-.00053	-.00144	.00005	.00013	-.03218	-.00088	.00049	.0001	-.00044	-.00078	.01166
#2	.03602	-.00081	.00028	.00015	.00003	-.02735	-.00115	.00148	.0009	.00101	-.00306	.01741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00003**	**-.00013**	**.00210**	**.00017**	**.00044**
Stddev	.00010	.00003	.00036	.00072	.00009	.00019
%RSD	116.33	88.250	285.48	34.449	53.234	42.172
#1	.00002	.00006	-.00038	.00159	.00023	.00031
#2	.00016	.00001	.00013	.00261	.00010	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2520.4**	**1974.3**	**38386.**	**3870.4**
Stddev	5.9	2.4	191.	4.6
%RSD	.23437	.12394	.49668	.11906
#1	2524.6	1976.0	38251.	3867.1
#2	2516.3	1972.6	38520.	3873.6

Sample Name: CCVL-2222402 Acquired: 8/1/2014 22:24:49 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.24046**	**.01417**	**.01965**	**.00227**	**.00202**	**.50007**	**.00211**	**.00401**	**.00422**	**.00853**	**.04648**
Stddev	.00007	.03270	.00010	.00015	.00001	.00006	.00912	.00009	.00020	.00020	.00043	.00179
%RSD	1.3081	13.601	.70566	.73797	.39982	3.0812	1.8238	4.2060	5.1074	4.8394	5.0880	3.8505
#1	.00519	.26358	.01410	.01955	.00227	.00198	.50652	.00204	.00386	.00408	.00883	.04774
#2	.00529	.21733	.01424	.01975	.00226	.00207	.49362	.00217	.00415	.00437	.00822	.04521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49601**	**.02769**	**.20751**	**.00344**	**.01035**	**.95296**	**.00921**	**.00995**	**.2075**	**.01941**	**.01770**	**.51215**
Stddev	.00242	.00042	.00488	.00002	.00006	.00261	.00055	.00041	.0038	.00008	.00043	.00064
%RSD	.48738	1.5041	2.3521	.52314	.54069	.27404	5.9552	4.0790	1.824	.41430	2.4366	.12550
#1	.49772	.02799	.21096	.00345	.01032	.95480	.00882	.01023	.2101	.01935	.01740	.51169
#2	.49430	.02740	.20406	.00342	.01039	.95111	.00960	.00966	.2048	.01946	.01801	.51260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00945**	**.00523**	**.00444**	**.01977**	**.00527**	**.01033**
Stddev	.00012	.00002	.00002	.00067	.00037	.00052
%RSD	1.2973	.36743	.41646	3.4100	6.9617	5.0707
#1	.00954	.00525	.00443	.02025	.00501	.00996
#2	.00937	.00522	.00446	.01929	.00552	.01070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2519.3**	**1990.5**	**38325.**	**3869.0**
Stddev	.2	1.7	155.	20.9
%RSD	.00930	.08574	.40440	.54098
#1	2519.1	1989.3	38216.	3854.2
#2	2519.4	1991.7	38435.	3883.8

Sample Name: 480-64233-A-7-B Acquired: 8/1/2014 22:27:39 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.04418**	**-.00025**	**.00453**	**.00373**	**.00004**	**.11124**	**.00017**	**-.00007**
Stddev	.00033	.01059	.00459	.00018	.00001	.00002	.00190	.00000	.00005
%RSD	54.332	23.971	1823.5	3.8719	.19242	46.482	1.7055	1.6977	66.547
#1	-.00085	.05167	.00299	.00466	.00373	.00005	.10990	.00017	-.00010
#2	-.00038	.03669	-.00349	.00441	.00374	.00003	.11259	.00017	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00086**	**.00900**	**.01404**	**-.00013**	**.00624**	**.00044**	**.00004**	**.40080**
Stddev	.00030	.00048	.00410	.01992	.00001	.00055	.00004	.00003	.00648
%RSD	38.258	55.804	45.545	141.89	4.0224	8.8126	8.5496	94.134	1.6168
#1	.00100	.00120	.00610	.02812	-.00013	.00586	.00041	.00001	.39622
#2	.00057	.00052	.01189	-.00005	-.00014	.00663	.00046	.00006	.40538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00036**	**.0133**	**.00093**	**.00066**	**.01945**	**.00194**	**.00062**	**-.00051**
Stddev	.00004	.00050	.0016	.00115	.00010	.01205	.00006	.00009	.00004
%RSD	7.4692	137.68	12.14	123.55	15.062	61.953	3.0077	15.151	8.2961
#1	-.00048	.00001	.0122	.00175	.00059	.01093	.00199	.00069	-.00048
#2	-.00053	.00071	.0145	.00012	.00073	.02797	.00190	.00055	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00029**	**.00018**	**.00076**
Stddev	.00167	.00030	.00042
%RSD	577.30	167.41	55.211
#1	-.00089	-.00003	.00047
#2	.00147	.00039	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2518.3**	**1969.3**	**38549.**	**3912.8**
Stddev	2.8	2.7	183.	4.8
%RSD	.11304	.13574	.47444	.12289
#1	2516.3	1967.4	38678.	3916.2
#2	2520.3	1971.2	38420.	3909.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64247-A-8-A Acquired: 8/1/2014 22:30:30 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.06829**	**.00532**	**.15194**	**.02100**	**.00010**	**30.186**	**.00052**	**.00028**
Stddev	.00058	.01580	.00220	.00039	.00003	.00007	.201	.00007	.00010
%RSD	94.528	23.142	41.357	.25842	.15678	73.771	.66545	12.954	35.820
#1	-.00020	.05712	.00376	.15166	.02102	.00005	30.044	.00057	.00035
#2	-.00102	.07947	.00687	.15222	.02097	.00015	30.328	.00048	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**.00450**	**.07737**	**15.367**	**.00653**	**95.107**	**.00658**	**.00648**	**291.12**
Stddev	.00013	.00098	.00194	.023	.00076	.184	.00013	.00008	.40
%RSD	10.453	21.808	2.5101	.15240	11.630	.19341	1.9425	1.3036	.13786
#1	.00114	.00381	.07875	15.351	.00707	95.237	.00667	.00642	290.83
#2	.00132	.00519	.07600	15.384	.00600	94.977	.00649	.00654	291.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00133**	F **88.55**	**.00044**	**.04487**	**2.7370**	**-.00004**	**.15954**	**.00087**
Stddev	.00056	.00144	.08	.00122	.00322	.0081	.00046	.00068	.00027
%RSD	500.69	107.99	.0941	278.44	7.1805	.29492	1034.3	.42554	31.548
#1	.00051	.00235	88.49	.00130	.04259	2.7313	-.00037	.15906	.00106
#2	-.00028	.00032	88.61	-.00042	.04715	2.7427	.00028	.16002	.00067
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00173**	**.00051**	**.00152**
Stddev	.00491	.00005	.00018
%RSD	283.91	9.1348	11.964
#1	-.00520	.00048	.00165
#2	.00174	.00054	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2079.7**	**1804.3**	**34419.**	**3811.3**
Stddev	2.2	1.7	4.	22.7
%RSD	.10340	.09363	.01126	.59652
#1	2078.2	1805.5	34416.	3827.4
#2	2081.2	1803.1	34422.	3795.2
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-64628-B-1-B Acquired: 8/1/2014 22:33:24 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**.04492**	**.00180**	**.04576**	**.13462**	**-.00000**	**88.318**	**.00029**	**.00132**
Stddev	.00038	.01157	.00018	.00032	.00079	.00000	.215	.00007	.00003
%RSD	43.087	25.764	9.9630	.69414	.58808	87.628	.24380	25.501	2.6111
#1	-.00061	.03674	.00168	.04599	.13406	-.00000	88.166	.00034	.00134
#2	-.00114	.05310	.00193	.04554	.13518	-.00000	88.471	.00024	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**.00325**	**.10804**	**5.5877**	**.00355**	**8.3485**	**.38266**	**.00054**	**51.366**
Stddev	.00002	.00036	.00119	.0235	.00100	.0244	.00125	.00025	.008
%RSD	1.5911	11.181	1.1041	.42089	28.260	.29270	.32671	46.753	.01512
#1	.00121	.00351	.10719	5.5711	.00284	8.3312	.38178	.00072	51.361
#2	.00118	.00299	.10888	5.6043	.00426	8.3658	.38355	.00036	51.372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01585**	**.00327**	F **29.07**	**.00070**	**.00249**	**9.1659**	**.00005**	**.34398**	**.00006**
Stddev	.00029	.00134	.04	.00130	.00121	.0748	.00012	.00077	.00002
%RSD	1.8331	41.018	.1267	185.66	48.517	.81575	253.77	.22328	36.131
#1	.01564	.00232	29.10	-.00022	.00334	9.1130	-.00004	.34344	.00005
#2	.01606	.00422	29.04	.00162	.00163	9.2188	.00013	.34452	.00008
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			8.700						
Low Limit			-.2000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00072**	**.00058**	**.03029**
Stddev	.00019	.00025	.00080
%RSD	27.043	44.001	2.6350
#1	-.00086	.00040	.02973
#2	-.00058	.00076	.03086
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2240.6**	**1860.3**	**36086.**	**3894.3**
Stddev	5.2	1.4	242.	20.2
%RSD	.22986	.07761	.67075	.51946
#1	2244.2	1859.3	36257.	3908.6
#2	2237.0	1861.4	35914.	3880.0
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 22:36:11 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.01914**	**-.00136**	**-.00007**	**.00021**	**.00005**	**-.00552**	**.00016**	**.00013**
Stddev	.00028	.00505	.00147	.00027	.00002	.00008	.00427	.00002	.00017
%RSD	36.901	26.365	107.47	370.82	7.9213	166.76	77.273	12.144	127.84
#1	-.00057	-.01557	-.00240	.00012	.00022	-.00001	-.00251	.00014	.00001
#2	-.00097	-.02271	-.00033	-.00026	.00020	.00011	-.00854	.00017	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00013**	**-.00435**	**.01174**	**-.00047**	**.00114**	**.00012**	**.00000**	**-.00538**
Stddev	.00078	.00033	.00470	.00019	.00007	.00829	.00000	.00003	.00496
%RSD	467.82	254.26	108.18	1.5877	14.795	725.02	3.0147	842.59	92.127
#1	.00072	.00010	-.00767	.01161	-.00043	-.00472	.00012	-.00002	-.00888
#2	-.00039	-.00037	-.00102	.01187	-.00052	.00701	.00012	.00002	-.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.00012**	**.0036**	**.00007**	**.00009**	**.01006**	**-.00048**	**-.00001**	**-.00042**
Stddev	.00045	.00170	.0013	.00274	.00172	.01496	.00041	.00000	.00032
%RSD	62.128	1458.3	35.19	3664.1	1859.3	148.80	83.894	24.046	76.919
#1	-.00104	.00109	.0027	-.00186	-.00112	-.00052	-.00020	-.00001	-.00019
#2	-.00040	-.00132	.0044	.00201	.00131	.02064	-.00077	-.00001	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00048**	**-.00003**	**.00046**
Stddev	.00333	.00020	.00067
%RSD	690.07	642.64	144.43
#1	-.00284	.00011	-.00001
#2	.00187	-.00017	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2521.9**	**1974.9**	**38082.**	**3874.5**
Stddev	4.3	4.0	126.	16.1
%RSD	.17040	.20454	.33188	.41626
#1	2525.0	1977.8	37992.	3863.1
#2	2518.9	1972.1	38171.	3885.9
Check ?	None	None	None	None
Value				
Range				

Sample Name: LCSSRM 480-195490/2- Acquired: 8/1/2014 22:39:03 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39447**	**77.119**	**1.4309**	**1.1402**	**1.8490**	**.63648**	**68.775**	**1.0444**	**1.3363**
Stddev	.00183	.104	.0021	.0001	.0004	.00018	.212	.0043	.0033
%RSD	.46306	.13434	.14657	.01358	.01964	.02837	.30774	.41186	.24493
#1	.39318	77.046	1.4294	1.1403	1.8493	.63636	68.925	1.0475	1.3386
#2	.39577	77.193	1.4324	1.1401	1.8487	.63661	68.625	1.0414	1.3340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1740**	**.87262**	**132.95**	**26.278**	**.07448**	**33.056**	**4.5110**	**.49529**	**2.7435**
Stddev	.0060	.00365	.03	.070	.00083	.052	.0289	.00132	.0010
%RSD	.50943	.41856	.02417	.26495	1.1199	.15615	.64025	.26683	.03451
#1	1.1698	.87004	132.97	26.228	.07507	33.020	4.4906	.49623	2.7428
#2	1.1782	.87520	132.92	26.327	.07389	33.093	4.5315	.49436	2.7442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.72881**	**1.2492**	**1.379**	**.99303**	**1.8296**	**16.345**	**1.3371**	**.62529**	**3.6066**
Stddev	.00001	.0013	.002	.00656	.0030	.008	.0010	.00072	.0104
%RSD	.00138	.10305	.1726	.66037	.16449	.04817	.07822	.11548	.28856
#1	.72880	1.2501	1.377	.99767	1.8275	16.351	1.3378	.62478	3.5992
#2	.72882	1.2483	1.380	.98840	1.8317	16.340	1.3364	.62580	3.6139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**1.5233**	**.71805**	**2.4033**
Stddev	.0028	.00648	.0304
%RSD	.18385	.90286	1.2660
#1	1.5253	.71347	2.3818
#2	1.5213	.72264	2.4248
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2155.3**	**2088.0**	**39811.**	**4240.2**
Stddev	3.8	4.2	151.	4.5
%RSD	.17590	.19908	.37922	.10693
#1	2152.7	2085.0	39918.	4237.0
#2	2158.0	2090.9	39704.	4243.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 8/1/2014 22:41:44 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.01047**	**-.00056**	**.00400**	**.00015**	**-.00007**	**.00608**	**.00101**	**-.00070**
Stddev	.00027	.00235	.00041	.00035	.00001	.00001	.00072	.00012	.00002
%RSD	67.311	22.408	73.902	8.8223	7.1564	17.324	11.919	11.421	3.0868
#1	-.00059	.01213	-.00085	.00425	.00016	-.00008	.00659	.00109	-.00068
#2	-.00021	.00881	-.00027	.00375	.00014	-.00007	.00557	.00093	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00013**	**-.00191**	**.05551**	**-.00079**	**-.00046**	**.00020**	**.00125**	**-.03023**
Stddev	.00103	.00073	.00024	.01003	.00016	.00423	.00007	.00012	.00279
%RSD	261.93	580.68	12.560	18.065	20.834	927.11	35.625	9.4657	9.2452
#1	-.00033	-.00039	-.00174	.06260	-.00067	-.00345	.00015	.00117	-.03221
#2	.00112	.00064	-.00208	.04842	-.00090	.00254	.00026	.00134	-.02825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00251**	**.00276**	**.0098**	**.00351**	**.00180**	**.12772**	**.00047**	**.00000**	**.00001**
Stddev	.00005	.00084	.0014	.00105	.00283	.00696	.00024	.00013	.00000
%RSD	1.8457	30.557	13.97	29.819	157.14	5.4489	52.353	9619.5	15.768
#1	-.00248	.00336	.0107	.00277	.00380	.13264	.00029	-.00009	.00001
#2	-.00255	.00216	.0088	.00425	-.00020	.12280	.00064	.00009	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01340**	**.00024**	**-.00018**
Stddev	.00156	.00002	.00000
%RSD	11.616	8.4599	.28107
#1	-.01450	.00022	-.00018
#2	-.01230	.00025	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2383.6**	**1731.0**	**34879.**	**3646.6**
Stddev	31.1	20.3	245.	36.8
%RSD	1.3067	1.1733	.70335	1.0101
#1	2361.6	1716.7	34705.	3620.6
#2	2405.6	1745.4	35052.	3672.7
Check ?	None	None	None	None
Value				
Range				

Sample Name: ICSA-2204542 Acquired: 8/1/2014 22:44:37 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	F **521.48**	**-.00211**	**.00174**	**.00016**	**.00005**	F **485.94**	W **.00109**	**-.00070**	**.00087**	**.00753**
Stddev	.00000	2.24	.00034	.00125	.00002	.00002	4.57	.00002	.00019	.00078	.00043
%RSD	.11908	.42981	15.947	71.934	14.247	34.682	.93975	1.5344	27.910	89.417	5.7091
#1	-.00104	523.07	-.00235	.00263	.00018	.00007	489.17	.00108	-.00056	.00032	.00784
#2	-.00105	519.90	-.00187	.00086	.00014	.00004	482.72	.00110	-.00083	.00143	.00723
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Warn	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000					.50000	.00100			
Low Limit		-.20000					-.50000	-.00100			

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **188.47**	**.03366**	**.00832**	F **513.32**	F **.00390**	**-.00319**	**-.00133**	**.00700**	**-.00071**	**-.0420**	**-.01090**
Stddev	1.48	.00897	.00066	3.48	.00002	.00023	.00143	.00166	.00073	.0029	.00086
%RSD	.78606	26.649	7.9512	.67851	.44723	7.2850	107.89	23.668	103.75	6.938	7.8863
#1	189.52	.04000	.00879	515.79	.00391	-.00336	-.00234	.00817	-.00122	-.0400	-.01030
#2	187.42	.02731	.00786	510.86	.00389	-.00303	-.00032	.00583	-.00019	-.0441	-.01151
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.05000			.20000	.00300						
Low Limit	-.05000			-.20000	-.00300						

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.02347**	**-.00196**	F **.01429**	**.00165**	**-.01540**	**-.00092**	**.00191**
Stddev	.01143	.00799	.00219	.00006	.00036	.00473	.00000	.00027
%RSD	986.99	34.061	112.06	.45262	21.900	30.692	.10129	13.990
#1	-.00692	.01782	-.00351	.01425	.00190	-.01874	-.00092	.00172
#2	.00924	.02912	-.00041	.01434	.00139	-.01206	-.00092	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.00500				
Low Limit				-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1868.7**	**1803.6**	**34198.**	**3827.3**
Stddev	16.9	15.9	9.	20.7
%RSD	.90341	.88122	.02755	.54105
#1	1880.6	1814.8	34191.	3812.7
#2	1856.7	1792.3	34204.	3842.0

Sample Name: ICSAB-2222403 Acquired: 8/1/2014 22:47:31 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .22191	F 509.67	F .09871	.00768	F .47374	F .47277	F 466.51	F 1.0336	F .51888	F .49530	F .51433	F 91.363
Stddev	.00083	.91	.00951	.00002	.00043	.00096	1.41	.0006	.00044	.00045	.00138	.492
%RSD	.37568	.17761	9.6364	.29565	.09074	.20344	.30178	.05744	.08467	.09004	.26805	.53802
#1	.22132	509.03	.10544	.00767	.47404	.47209	467.50	1.0332	.51919	.49498	.51336	91.016
#2	.22249	510.31	.09199	.00770	.47343	.47345	465.51	1.0340	.51857	.49562	.51531	91.711
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.00600	.20000	.01500		.00200	.00200	.50000	.00200	.00400	.00400	.01000	.05000
Low Limit	-.00600	-.20000	-.01500		-.00200	-.00200	-.50000	-.00200	-.00400	-.00400	-.01000	-.05000

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00114	F .52867	F 496.10	F .47774	-.00042	.11354	F .97795	F .05208	F .6329	F .59544	F .05779	F 1.0181
Stddev	.00728	.00159	.43	.00059	.00017	.00132	.00511	.00086	.0105	.00530	.00873	.0161
%RSD	638.34	.30144	.08746	.12404	41.310	1.1646	.52300	1.6434	1.665	.89090	15.110	1.5781
#1	.00629	.52980	495.80	.47816	-.00030	.11447	.98157	.05148	.6254	.59169	.06396	1.0068
#2	-.00401	.52755	496.41	.47732	-.00054	.11260	.97433	.05269	.6403	.59919	.05162	1.0295
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		.03000	.20000	.00300			.01000	.01000	.2000	.02000	.02500	.50000
Low Limit		-.03000	-.20000	-.00300			-.01000	-.01000	-.2000	-.02000	-.02500	-.50000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00210	F .50688	.00257	F .08575	F .50103	F .94202
Stddev	.00048	.00104	.00000	.00641	.00137	.00717
%RSD	22.950	.20512	.06030	7.4780	.27332	.76094
#1	-.00244	.50614	.00257	.08122	.50007	.93696
#2	-.00176	.50761	.00257	.09029	.50200	.94709
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		.00500		.02000	.00500	.01000
Low Limit		-.00500		-.02000	-.00500	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1837.9	1766.6	33122.	3756.4
Stddev	3.4	4.3	116.	3.5
%RSD	.18373	.24547	.34915	.09257
#1	1840.3	1769.7	33204.	3754.0
#2	1835.5	1763.5	33040.	3758.9

Sample Name: BLANK Acquired: 8/1/2014 22:50:23 Type: Unk
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00054**	**-.00067**	**-.00013**	**.00011**	**.00009**	**.00929**	**.00006**	**-.00001**
Stddev	.00048	.00913	.00147	.00009	.00003	.00009	.00042	.00000	.00007
%RSD	147.98	1699.7	220.87	73.104	27.633	97.475	4.5287	7.0291	674.52
#1	-.00067	-.00592	-.00171	-.00006	.00009	.00015	.00959	.00006	.00004
#2	.00002	.00699	.00037	-.00020	.00013	.00003	.00899	.00005	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00029**	**.00599**	**.02488**	**-.00078**	**.00627**	**.00013**	**.00005**	**.01799**
Stddev	.00006	.00000	.00011	.01896	.00087	.00270	.00002	.00020	.00441
%RSD	20.522	.85413	1.7784	76.197	110.94	43.048	13.123	398.03	24.502
#1	.00026	-.00029	.00591	.01147	-.00139	.00818	.00012	.00019	.01488
#2	.00034	-.00029	.00607	.03829	-.00017	.00436	.00015	-.00009	.02111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.00132**	**.0000**	**.00225**	**.00136**	**.00362**	**.00033**	**.00004**	**-.00030**
Stddev	.00010	.00042	.0030	.00061	.00102	.01307	.00029	.00016	.00027
%RSD	18.661	32.003	6353.	27.007	75.061	360.74	86.689	408.14	91.057
#1	-.00047	-.00162	.0022	.00182	.00064	-.00562	.00013	-.00008	-.00049
#2	-.00061	-.00102	-.0021	.00268	.00209	.01286	.00053	.00015	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00279**	**.00014**	**.00070**
Stddev	.00076	.00031	.00085
%RSD	27.174	225.28	121.60
#1	.00225	-.00008	.00130
#2	.00332	.00036	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2545.5**	**1992.9**	**38296.**	**3875.4**
Stddev	4.0	1.2	63.	22.6
%RSD	.15903	.06084	.16466	.58387
#1	2548.4	1993.8	38341.	3891.4
#2	2542.7	1992.1	38252.	3859.4
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV Acquired: 8/1/2014 22:53:17 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50862**	**25.720**	**.50152**	**.48817**	**.49946**	**.49650**	**25.440**	**.50929**	**.51453**	**.51244**	**.47378**	**24.521**	**25.366**	**.49687**
Stddev	.00070	.084	.00073	.00033	.00503	.00321	.147	.00079	.00013	.00208	.00402	.111	.107	.00076
%RSD	.13809	.32824	.14556	.06717	1.0065	.64672	.57594	.15494	.02554	.40602	.84922	.45337	.42353	.15239
#1	.50813	25.660	.50101	.48840	.50301	.49877	25.543	.50873	.51462	.51097	.47663	24.600	25.442	.49741
#2	.50912	25.779	.50204	.48794	.49590	.49423	25.336	.50985	.51444	.51391	.47094	24.443	25.290	.49634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.732**	**.51178**	**.51019**	**25.362**	**.50289**	**.52053**	**24.78**	**.50106**	**.49949**	**25.030**	**.52071**	**.51723**	**.51153**	**.50731**
Stddev	.061	.00218	.00069	.016	.00182	.00125	.05	.00145	.00058	.188	.00105	.00092	.00135	.00102
%RSD	.23644	.42527	.13606	.06190	.36226	.23931	.1993	.28903	.11608	.74943	.20189	.17833	.26395	.20017
#1	25.689	.51024	.50970	25.373	.50418	.52141	24.74	.50004	.49908	25.163	.51997	.51788	.51058	.50660
#2	25.775	.51332	.51068	25.351	.50160	.51964	24.81	.50209	.49990	24.897	.52145	.51658	.51248	.50803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50868**	**.51955**
Stddev	.00122	.00427
%RSD	.23960	.82181
#1	.50781	.51653
#2	.50954	.52257
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2279.2**	**1942.9**	**37243.**	**3866.9**
Stddev	.2	1.8	78.	.7
%RSD	.00909	.09452	.20972	.01907
#1	2279.3	1944.2	37298.	3866.4
#2	2279.0	1941.6	37188.	3867.5

Sample Name: CCB Acquired: 8/1/2014 22:56:01 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.01502**	**.00109**	**.00021**	**.00001**	**.00007**	**.00855**	**.00005**	**.00014**	**.00004**	**-.00015**	**.00448**
Stddev	.00010	.00020	.00269	.00018	.00000	.00018	.00622	.00000	.00005	.00014	.00101	.00339
%RSD	19.634	1.3118	247.95	84.583	17.381	275.82	72.741	.33951	36.919	341.35	679.57	75.667
#1	-.00057	-.01488	-.00082	.00009	.00001	-.00006	.00415	.00005	.00011	.00014	.00056	.00688
#2	-.00043	-.01516	.00299	.00034	.00001	.00020	.01294	.00005	.00018	-.00006	-.00086	.00208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01800**	**.00005**	**.00779**	**.00013**	**.00009**	**-.01587**	**-.00025**	**-.00006**	**.0008**	**.00055**	**-.00099**	**.02221**
Stddev	.01229	.00208	.00383	.00002	.00015	.00261	.00000	.00004	.0020	.00033	.00055	.01148
%RSD	68.280	4350.9	49.213	15.731	165.64	16.437	1.7853	63.766	250.0	60.658	55.246	51.677
#1	.00931	-.00142	.00508	.00015	-.00002	-.01402	-.00025	-.00009	-.0006	.00079	-.00060	.03032
#2	.02669	.00152	.01050	.00012	.00020	-.01771	-.00025	-.00004	.0022	.00031	-.00137	.01409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00005**	**-.00018**	**.00074**	**.00025**	**.00041**
Stddev	.00016	.00002	.00021	.00175	.00022	.00013
%RSD	267.97	49.596	116.60	236.47	91.131	32.422
#1	.00017	.00006	-.00032	-.00050	.00009	.00031
#2	-.00005	.00003	-.00003	.00198	.00040	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2537.4**	**1987.0**	**38294.**	**3906.7**
Stddev	7.0	.3	91.	4.9
%RSD	.27461	.01475	.23637	.12610
#1	2532.4	1986.8	38230.	3903.2
#2	2542.3	1987.2	38358.	3910.2

Sample Name: CCVL-2222402 Acquired: 8/1/2014 22:58:54 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00538**	**.21169**	**.01246**	**.01973**	**.00227**	**.00221**	**.50903**	**.00215**	**.00412**	**.00449**	**.00912**	**.05022**
Stddev	.00044	.01119	.00021	.00003	.00000	.00015	.00595	.00003	.00017	.00018	.00003	.00185
%RSD	8.1268	5.2862	1.6951	.16668	.09373	6.8093	1.1693	1.1673	4.1799	3.9754	.29666	3.6924
#1	.00507	.20378	.01231	.01976	.00226	.00231	.51323	.00217	.00400	.00436	.00914	.04891
#2	.00569	.21960	.01261	.01971	.00227	.00210	.50482	.00213	.00424	.00461	.00911	.05153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49073**	**.02836**	**.22184**	**.00347**	**.01048**	**.95228**	**.00904**	**.01113**	**.2062**	**.02081**	**.02413**	**.51092**
Stddev	.03928	.00022	.00103	.00002	.00023	.00685	.00005	.00298	.0001	.00077	.00642	.00982
%RSD	8.0049	.78179	.46222	.58190	2.1588	.71901	.53687	26.771	.0305	3.6805	26.588	1.9216
#1	.51851	.02852	.22257	.00348	.01032	.95712	.00907	.01324	.2063	.02135	.02867	.50398
#2	.46296	.02820	.22112	.00346	.01064	.94744	.00900	.00902	.2062	.02027	.01960	.51786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00925**	**.00512**	**.00466**	**.01863**	**.00521**	**.01113**
Stddev	.00048	.00010	.00013	.00312	.00005	.00056
%RSD	5.1665	1.9285	2.8619	16.728	.96942	5.0647
#1	.00959	.00505	.00475	.02083	.00517	.01153
#2	.00891	.00519	.00456	.01643	.00525	.01074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2527.2**	**1993.5**	**38486.**	**3915.6**
Stddev	.2	2.8	64.	2.1
%RSD	.00977	.13921	.16527	.05388
#1	2527.3	1995.4	38441.	3917.1
#2	2527.0	1991.5	38531.	3914.1

Sample Name: CCV Acquired: 8/1/2014 23:01:47 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50729**	**25.693**	**.50257**	**.49242**	**.50219**	**.49552**	**25.371**	**.51191**	**.51463**	**.51160**	**.48219**	**24.601**	**25.204**	**.49637**
Stddev	.00082	.152	.00170	.00019	.00038	.00068	.022	.00005	.00017	.00480	.00339	.002	.059	.00155
%RSD	.16188	.59352	.33768	.03823	.07540	.13687	.08812	.01030	.03350	.93762	.70394	.00891	.23286	.31281
#1	.50671	25.585	.50137	.49255	.50192	.49600	25.355	.51195	.51475	.50821	.48459	24.603	25.246	.49527
#2	.50787	25.801	.50377	.49229	.50246	.49504	25.386	.51187	.51451	.51499	.47979	24.600	25.163	.49747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.714**	**.51096**	**.51242**	**25.239**	**.50346**	**.51743**	**24.87**	**.50100**	**.49971**	**25.087**	**.52332**	**.51481**	**.51182**	**.51184**
Stddev	.130	.00178	.00074	.110	.00250	.00151	.02	.00092	.00303	.070	.00075	.00013	.00226	.00244
%RSD	.50477	.34781	.14365	.43756	.49573	.29225	.0866	.18378	.60697	.27777	.14330	.02508	.44156	.47636
#1	25.623	.50971	.51190	25.161	.50523	.51850	24.89	.50035	.50185	25.038	.52279	.51472	.51022	.51011
#2	25.806	.51222	.51294	25.317	.50170	.51636	24.86	.50166	.49757	25.136	.52385	.51490	.51342	.51356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50651**	**.51787**
Stddev	.00137	.00193
%RSD	.27092	.37211
#1	.50554	.51651
#2	.50748	.51923
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2272.4**	**1934.4**	**37190.**	**3871.4**
Stddev	3.2	2.9	217.	4.9
%RSD	.14251	.15087	.58273	.12737
#1	2274.7	1936.5	37344.	3867.9
#2	2270.1	1932.4	37037.	3874.9

Sample Name: CCB Acquired: 8/1/2014 23:04:31 Type: QC
Method: ICAP 1 MARCH 2014(v74) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00374**	**-.00206**	**.00082**	**-.00001**	**.00002**	**.00692**	**.00013**	**-.00007**	**.00005**	**.00015**	**.00543**
Stddev	.00030	.02881	.00048	.00034	.00002	.00003	.00181	.00004	.00009	.00015	.00028	.00010
%RSD	65.274	769.57	23.212	40.779	354.18	142.75	26.164	33.712	124.06	312.14	183.05	1.8047
#1	-.00066	.01663	-.00172	.00058	-.00002	.00004	.00819	.00010	-.00001	.00016	-.00004	.00550
#2	-.00024	-.02412	-.00239	.00106	.00001	-.00000	.00564	.00016	-.00013	-.00006	.00035	.00536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**-.00014**	**.00822**	**.00008**	**.00016**	**-.02799**	**-.00064**	**-.00022**	**-.0002**	**.00093**	**.00012**	**.00618**
Stddev	.00679	.00021	.00731	.00001	.00019	.00302	.00002	.00006	.0070	.00201	.00280	.02688
%RSD	328.56	150.60	88.955	9.3407	121.54	10.778	3.5438	27.004	3742.	215.99	2246.6	434.88
#1	-.00274	.00001	.01338	.00009	.00029	-.02586	-.00062	-.00018	.0048	-.00049	.00210	-.01283
#2	.00687	-.00029	.00305	.00008	.00002	-.03013	-.00065	-.00027	-.0051	.00236	-.00185	.02519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00001**	**-.00040**	**.00199**	**.00033**	**.00053**
Stddev	.00042	.00009	.00004	.00056	.00034	.00000
%RSD	839.43	1015.7	10.533	27.967	104.68	.62135
#1	-.00035	-.00007	-.00037	.00160	.00057	.00053
#2	.00025	.00005	-.00043	.00239	.00008	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2538.0**	**1983.8**	**38468.**	**3886.1**
Stddev	1.4	2.0	48.	20.8
%RSD	.05504	.10213	.12550	.53466
#1	2539.0	1985.2	38434.	3871.4
#2	2537.0	1982.3	38502.	3900.8

Run File: I2080414A Instrument: ICAP2

Analyst: SLB Data Review: SB 8/5/14

Spikes IDs: 1730804(W1), 2182959 (W2), 2146244(Sn), 2146257(Ag), 2146221(Si), 1844338(TCLP)

Pipette IDs: 04-17-14-(1-7,8,10,13,14)
Internal Standard: 2227677

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2080414A	IC-2222437	08/04/14 09:21 AM	Standard
2	I2080414A	IC-2222437	08/04/14 09:29 AM	Standard
3	I2080414A	IC-2222402	08/04/14 09:32 AM	Standard
4	I2080414A	IC-2214250	08/04/14 09:37 AM	Standard
5	I2080414A	IC-2222402	08/04/14 09:39 AM	Standard
6	I2080414A	C-2214250	08/04/14 09:42 AM	Standard
7	I2080414A	IC-2214249	08/04/14 09:45 AM	Standard
8	I2080414A	ICV-2224573	08/04/14 09:48 AM	QC
9	I2080414A	IC-2222437	08/04/14 09:57 AM	Standard
10	I2080414A	IC-2222402	08/04/14 10:00 AM	Standard
11	I2080414A	IC-2214250	08/04/14 10:02 AM	Standard
12	I2080414A	IC-2214249	08/04/14 10:05 AM	Standard
13	I2080414A	ICV-2224573	08/04/14 10:08 AM	QC
14	I2080414A	ICV-2224573	08/04/14 10:15 AM	QC
15	I2080414A	ICB-2222437	08/04/14 10:18 AM	QC
16	I2080414A	ICVL-2222402	08/04/14 10:20 AM	QC
17	I2080414A	CRI-2210843	08/04/14 10:23 AM	QC
18	I2080414A	ICSA-2204542	08/04/14 10:26 AM	QC
19	I2080414A	CRI-2210843	08/04/14 10:32 AM	QC
20	I2080414A	ICSA-2204542	08/04/14 10:35 AM	QC
21	I2080414A	ICSAB-2222403	08/04/14 10:38 AM	QC
22	I2080414A	CCV-2222404	08/04/14 10:41 AM	QC
23	I2080414A	CCB-2222437	08/04/14 10:44 AM	QC
24	I2080414A	CCVL-2222402	08/04/14 11:03 AM	QC
25	I2080414A	MB 480-195815/1-A	08/04/14 11:06 AM	Unknown
26	I2080414A	480-64678-A-2-A	08/04/14 11:09 AM	Unknown
27	I2080414A	480-64678-A-3-A	08/04/14 11:12 AM	Unknown
28	I2080414A	480-64678-A-4-A	08/04/14 11:14 AM	Unknown
29	I2080414A	480-64078-A-2-A@5	08/04/14 11:17 AM	Unknown
30	I2080414A	480-64676-E-2-A@2	08/04/14 11:20 AM	Unknown
31	I2080414A	480-64676-E-3-A@2	08/04/14 11:23 AM	Unknown
32	I2080414A	480-64676-E-4-A@2	08/04/14 11:26 AM	Unknown
33	I2080414A	480-64563-G-2-A	08/04/14 11:28 AM	Unknown
34	I2080414A	CCV	08/04/14 11:31 AM	QC
35	I2080414A	CCB	08/04/14 11:34 AM	QC
36	I2080414A	CCVL-2222402	08/04/14 11:37 AM	QC
37	I2080414A	CCVL-2222402	08/04/14 11:47 AM	QC
38	I2080414A	480-64563-G-2-A@2	08/04/14 11:50 AM	Unknown
39	I2080414A	480-64591-D-1-A	08/04/14 11:53 AM	Unknown
40	I2080414A	480-64591-D-4-A	08/04/14 11:55 AM	Unknown

41	I2080414A	480-64561-E-2-A@5	08/04/14 11:58 AM Unknown
42	I2080414A	480-64551-C-3-A@5	08/04/14 12:01 PM Unknown
43	I2080414A	BLANK	08/04/14 12:04 PM Unknown
44	I2080414A	LCSSRM 480-195490/2-	08/04/14 12:07 PM Unknown
45	I2080414A	480-64500-7RAW	08/04/14 12:10 PM Unknown
46	I2080414A	BLANK	08/04/14 12:13 PM Unknown
47	I2080414A	CCV	08/04/14 12:16 PM QC
48	I2080414A	CCB	08/04/14 12:18 PM QC
49	I2080414A	CCVL-2222402	08/04/14 12:22 PM QC
50	I2080414A	480-64501-3RAW	08/04/14 12:25 PM Unknown
51	I2080414A	480-64502-2RAW	08/04/14 12:28 PM Unknown
52	I2080414A	BLANK	08/04/14 12:30 PM Unknown
53	I2080414A	BLANK	08/04/14 12:33 PM Unknown
54	I2080414A	MB 480-195523/1-C	08/04/14 12:36 PM Unknown
55	I2080414A	LCS 480-195523/2-C	08/04/14 12:39 PM Unknown
56	I2080414A	480-64479-B-1-B	08/04/14 12:42 PM Unknown
57	I2080414A	480-64480-B-1-B	08/04/14 12:45 PM Unknown
58	I2080414A	480-64480-B-2-B	08/04/14 12:48 PM Unknown
59	I2080414A	CCV	08/04/14 12:51 PM QC
60	I2080414A	CCB	08/04/14 12:53 PM QC
61	I2080414A	CCVL-2222402	08/04/14 12:56 PM QC
62	I2080414A	480-64480-B-2-BSD@5	08/04/14 12:59 PM Unknown
63	I2080414A	480-64480-B-2-BPDS	08/04/14 01:02 AM Unknown
64	I2080414A	480-64480-B-2-C MS	08/04/14 01:05 AM Unknown
65	I2080414A	480-64480-B-3-C	08/04/14 01:08 AM Unknown
66	I2080414A	480-64480-B-4-C	08/04/14 01:10 AM Unknown
67	I2080414A	480-64480-B-5-C	08/04/14 01:13 AM Unknown
68	I2080414A	LCSD 480-195523/3-B	08/04/14 01:16 AM Unknown
69	I2080414A	BLANK	08/04/14 01:19 AM Unknown
70	I2080414A	BLANK	08/04/14 01:22 AM Unknown
71	I2080414A	CCV	08/04/14 01:25 AM QC
72	I2080414A	CCB	08/04/14 01:27 AM QC
73	I2080414A	CCVL-2222402	08/04/14 01:30 AM QC
74	I2080414A	MB 480-195700/1-A	08/04/14 01:33 AM Unknown
75	I2080414A	LCSSRM 480-195700/2-	08/04/14 01:36 AM Unknown
76	I2080414A	480-64544-B-1-J	08/04/14 01:39 AM Unknown
77	I2080414A	480-64544-B-1-JSD@5	08/04/14 01:42 AM Unknown
78	I2080414A	480-64544-B-1-JPDS	08/04/14 01:44 AM Unknown
79	I2080414A	480-64544-B-1-K MS	08/04/14 01:47 AM Unknown
80	I2080414A	480-64544-B-1-L MSD	08/04/14 01:50 AM Unknown
81	I2080414A	480-64544-B-2-D	08/04/14 01:53 AM Unknown
82	I2080414A	BLANK	08/04/14 01:55 AM Unknown
83	I2080414A	CCV	08/04/14 01:58 AM QC
84	I2080414A	CCB	08/04/14 02:01 AM QC
85	I2080414A	CCVL-2222402	08/04/14 02:06 AM QC
86	I2080414A	480-64544-B-3-D	08/04/14 02:09 AM Unknown
87	I2080414A	480-64544-B-4-D	08/04/14 02:12 AM Unknown
88	I2080414A	480-64544-B-5-D	08/04/14 02:14 AM Unknown
89	I2080414A	480-64544-B-6-D	08/04/14 02:17 AM Unknown
90	I2080414A	480-64544-B-7-D	08/04/14 02:20 AM Unknown

91	I2080414A	480-64544-B-8-D	08/04/14 02:23 AM Unknown
92	I2080414A	480-64544-B-9-D	08/04/14 02:26 AM Unknown
93	I2080414A	480-64544-B-10-D	08/04/14 02:28 AM Unknown
94	I2080414A	BLANK	08/04/14 02:31 AM Unknown
95	I2080414A	CCV	08/04/14 02:33 AM QC
96	I2080414A	CCB	08/04/14 02:36 AM QC
97	I2080414A	CCVL-2222402	08/04/14 02:38 AM QC
98	I2080414A	480-64544-B-11-D	08/04/14 02:41 AM Unknown
99	I2080414A	480-64529-C-1-B	08/04/14 02:43 AM Unknown
100	I2080414A	480-64529-C-2-B	08/04/14 02:46 AM Unknown
101	I2080414A	480-64529-C-3-A	08/04/14 02:48 AM Unknown
102	I2080414A	480-64529-C-3-B MS	08/04/14 02:50 AM Unknown
103	I2080414A	480-64529-C-3-C MSD	08/04/14 02:53 AM Unknown
104	I2080414A	480-64529-B-4-B	08/04/14 02:55 AM Unknown
105	I2080414A	480-64529-B-5-B	08/04/14 02:57 AM Unknown
106	I2080414A	BLANK	08/04/14 03:00 AM Unknown
107	I2080414A	CCV	08/04/14 03:02 AM QC
108	I2080414A	CCB	08/04/14 03:05 AM QC
109	I2080414A	CCVL-2222402	08/04/14 03:07 AM QC
110	I2080414A	480-64529-C-6-B	08/04/14 03:10 AM Unknown
111	I2080414A	480-64529-C-7-B	08/04/14 03:12 AM Unknown
112	I2080414A	480-64529-C-8-B	08/04/14 03:14 AM Unknown
113	I2080414A	480-64488-1RAW	08/04/14 03:17 AM Unknown
114	I2080414A	480-64488-2RAW	08/04/14 03:19 AM Unknown
115	I2080414A	480-64488-3RAW	08/04/14 03:22 AM Unknown
116	I2080414A	480-64488-4RAW	08/04/14 03:24 AM Unknown
117	I2080414A	480-694488-9RAW	08/04/14 03:27 AM Unknown
118	I2080414A	BLANK	08/04/14 03:29 AM Unknown
119	I2080414A	CCV	08/04/14 03:45 AM QC
120	I2080414A	CCB	08/04/14 03:48 AM QC
121	I2080414A	CCVL-2222402	08/04/14 03:50 AM QC
122	I2080414A	MB 480-196071/1-A	08/04/14 03:53 AM Unknown
123	I2080414A	LCS 480-196071/2-A	08/04/14 03:55 AM Unknown
124	I2080414A	480-64761-E-1-A	08/04/14 03:57 AM Unknown
125	I2080414A	480-64761-E-1-ASD@5	08/04/14 04:00 AM Unknown
126	I2080414A	480-64761-E-1-APDS	08/04/14 04:02 AM Unknown
127	I2080414A	480-64761-E-1-B MS	08/04/14 04:05 AM Unknown
128	I2080414A	480-64761-E-1-C MSD	08/04/14 04:07 AM Unknown
129	I2080414A	480-64761-E-2-A	08/04/14 04:09 AM Unknown
130	I2080414A	BLANK	08/04/14 04:12 AM Unknown
131	I2080414A	CCV	08/04/14 04:14 AM QC
132	I2080414A	CCB	08/04/14 04:16 AM QC
133	I2080414A	CCVL-2222402	08/04/14 04:19 AM QC
134	I2080414A	MB 480-196091/1-A	08/04/14 04:21 AM Unknown
135	I2080414A	LCS 480-196091/2-A	08/04/14 04:24 AM Unknown
136	I2080414A	LCSD 480-196091/3-A	08/04/14 04:26 AM Unknown
137	I2080414A	480-64700-E-1-A	08/04/14 04:28 AM Unknown
138	I2080414A	480-64700-E-1-ASD@5	08/04/14 04:31 AM Unknown
139	I2080414A	480-64700-E-1-APDS	08/04/14 04:33 AM Unknown
140	I2080414A	480-64700-E-1-B MS	08/04/14 04:36 AM Unknown

141	I2080414A	480-64700-E-1-C MSD	08/04/14 04:49 AM Unknown
142	I2080414A	480-64700-E-2-A	08/04/14 04:52 AM Unknown
143	I2080414A	CCV	08/04/14 04:54 AM QC
144	I2080414A	CCB	08/04/14 04:57 AM QC
145	I2080414A	CCVL-2222402	08/04/14 04:59 AM QC
146	I2080414A	480-64638-J-1-A	08/04/14 05:02 AM Unknown
147	I2080414A	480-64699-C-1-A	08/04/14 05:04 AM Unknown
148	I2080414A	480-64699-C-2-A	08/04/14 05:06 AM Unknown
149	I2080414A	480-64785-E-1-A	08/04/14 05:10 AM Unknown
150	I2080414A	480-64785-E-2-A	08/04/14 05:13 AM Unknown
151	I2080414A	BLANK	08/04/14 05:16 AM Unknown
152	I2080414A	MB 480-196092/1-A	08/04/14 05:19 AM Unknown
153	I2080414A	LCS 480-196092/2-A	08/04/14 05:22 AM Unknown
154	I2080414A	480-64773-A-6-A	08/04/14 05:24 AM Unknown
155	I2080414A	CCV	08/04/14 05:27 AM QC
156	I2080414A	CCB	08/04/14 05:30 AM QC
157	I2080414A	CCVL-2222402	08/04/14 05:34 AM QC
158	I2080414A	190-4805-M-3-A	08/04/14 05:37 AM Unknown
159	I2080414A	190-4805-M-3-ASD@5	08/04/14 05:40 AM Unknown
160	I2080414A	190-4805-M-3-APDS	08/04/14 05:42 AM Unknown
161	I2080414A	190-4805-M-3-B MS	08/04/14 05:45 AM Unknown
162	I2080414A	190-4805-M-3-C MSD	08/04/14 05:48 AM Unknown
163	I2080414A	190-4804-B-1-A	08/04/14 05:51 AM Unknown
164	I2080414A	190-4804-B-2-A	08/04/14 05:55 AM Unknown
165	I2080414A	190-4804-B-2-A@5	08/04/14 05:58 AM Unknown
166	I2080414A	190-4783-D-2-A	08/04/14 06:01 AM Unknown
167	I2080414A	CCV	08/04/14 06:04 AM QC
168	I2080414A	CCB	08/04/14 06:06 AM QC
169	I2080414A	CCVL-2222402	08/04/14 06:09 AM QC
170	I2080414A	MB 480-196093/1-A	08/04/14 06:13 AM Unknown
171	I2080414A	LCS 480-196093/2-A	08/04/14 06:16 AM Unknown
172	I2080414A	190-4805-C-1-A	08/04/14 06:19 AM Unknown
173	I2080414A	190-4805-C-1-ASD@5	08/04/14 06:22 AM Unknown
174	I2080414A	190-4805-C-1-APDS	08/04/14 06:24 AM Unknown
175	I2080414A	190-4805-C-1-B MS	08/04/14 06:27 AM Unknown
176	I2080414A	190-4805-C-1-C MSD	08/04/14 06:29 AM Unknown
177	I2080414A	190-4805-C-2-A	08/04/14 06:32 AM Unknown
178	I2080414A	190-4805-C-3-A	08/04/14 06:34 AM Unknown
179	I2080414A	CCV	08/04/14 06:37 AM QC
180	I2080414A	CCB	08/04/14 06:39 AM QC
181	I2080414A	CCVL-2222402	08/04/14 06:42 AM QC
182	I2080414A	190-4805-C-4-A	08/04/14 06:44 AM Unknown
183	I2080414A	190-4805-C-5-A	08/04/14 06:47 AM Unknown
184	I2080414A	190-4797-C-1-A	08/04/14 06:49 AM Unknown
185	I2080414A	190-4797-C-2-A	08/04/14 06:52 AM Unknown
186	I2080414A	190-4797-C-3-A	08/04/14 06:54 AM Unknown
187	I2080414A	190-4797-C-4-A	08/04/14 06:57 AM Unknown
188	I2080414A	190-4797-C-5-A	08/04/14 06:59 AM Unknown
189	I2080414A	190-4783-D-1-A	08/04/14 07:02 AM Unknown
190	I2080414A	190-4783-M-2-A	08/04/14 07:14 AM Unknown

191	I2080414A	CCV	08/04/14 07:17 AM QC
192	I2080414A	CCB	08/04/14 07:19 AM QC
193	I2080414A	CCVL-2222402	08/04/14 07:22 AM QC
194	I2080414A	190-4783-D-3-A	08/04/14 07:24 AM Unknown
195	I2080414A	190-4783-D-4-A	08/04/14 07:27 AM Unknown
196	I2080414A	190-4783-D-5-A	08/04/14 07:29 AM Unknown
197	I2080414A	190-4783-D-6-A	08/04/14 07:32 AM Unknown
198	I2080414A	BLANK	08/04/14 07:35 AM Unknown
199	I2080414A	BLANK	08/04/14 07:38 AM Unknown
200	I2080414A	ICSA-2204542	08/04/14 07:41 AM QC
201	I2080414A	ICSAB-2222403	08/04/14 07:44 AM QC
202	I2080414A	BLANK	08/04/14 07:47 AM Unknown
203	I2080414A	CCV	08/04/14 07:50 AM QC
204	I2080414A	CCB	08/04/14 07:52 AM QC
205	I2080414A	CCVL-2222402	08/04/14 07:56 AM QC
206	I2080414A	CCV	08/04/14 07:59 AM QC
207	I2080414A	CCB	08/04/14 08:02 AM QC
208	I2080414A	CRI-2210843	08/04/14 10:32 AM QC
209	I2080414A	ICSA-2204542	08/04/14 10:35 AM QC
210	I2080414A	ICSAB-2222403	08/04/14 10:38 AM QC
211	I2080414A	CCV-2222404	08/04/14 10:41 AM QC
212	I2080414A	CCB-2222437	08/04/14 10:44 AM QC
213	I2080414A	CRI-2210843	08/04/14 10:32 AM QC
214	I2080414A	ICSA-2204542	08/04/14 10:35 AM QC
215	I2080414A	ICSAB-2222403	08/04/14 10:38 AM QC
216	I2080414A	CCV-2222404	08/04/14 10:41 AM QC
217	I2080414A	CCB-2222437	08/04/14 10:44 AM QC

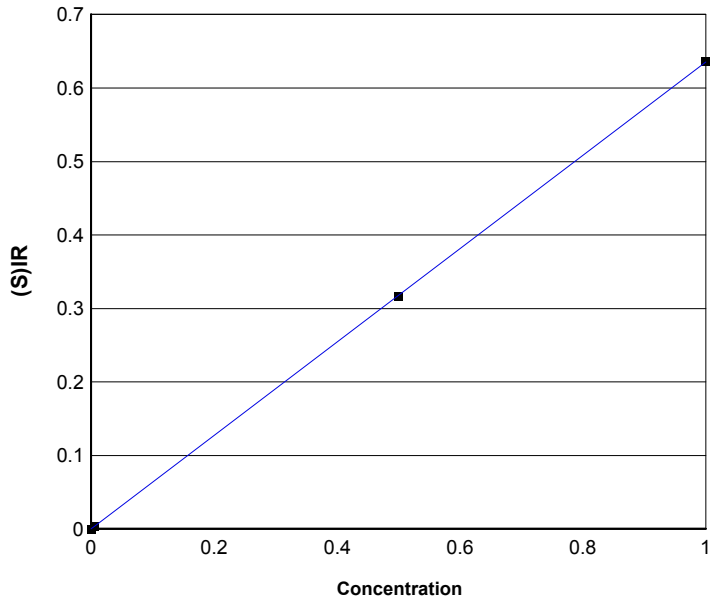
I2080414A

Author: SLB

Published: 8/5/2014 7:55:33AM

Instrument Name: Icap6500 Serial Number: 20094602

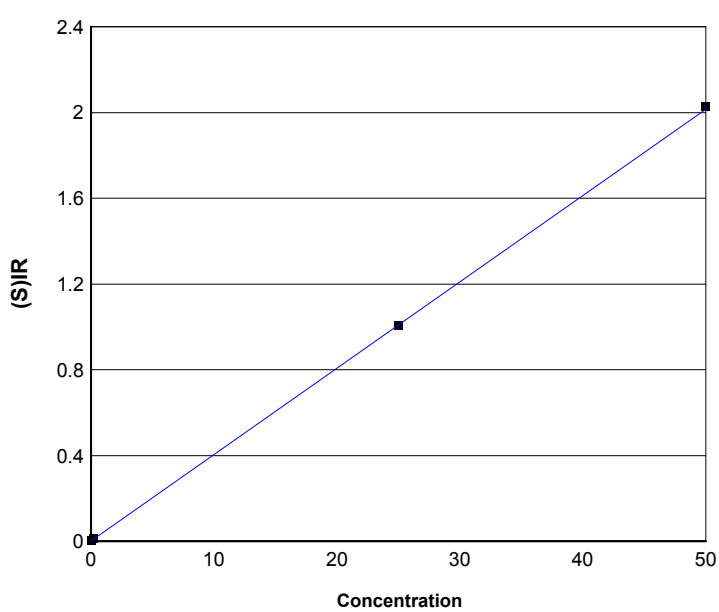
Method Name: ICAP 2 Aug 2014 (2)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.000012137
A1 (Gain):	0.63538
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

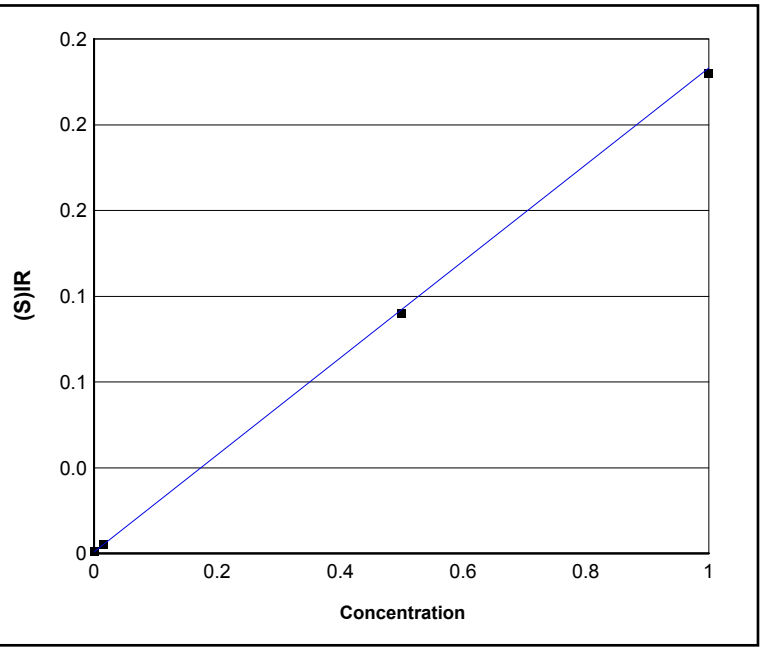
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000004022	0.00000	0.000012392	0.00017839	1
IC-1999327	1.0000	1.0000	0.0029568	0.29568	0.63686	0.0055815	1
IC-1999432	0.0060000	0.0100000	-0.00038918	-6.4864	0.0035765	0.00025505	1
IC-1999330	0.50000	0.50000	-0.0025674	-0.51348	0.31586	0.0021409	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0023299
A1 (Gain):	0.040286
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

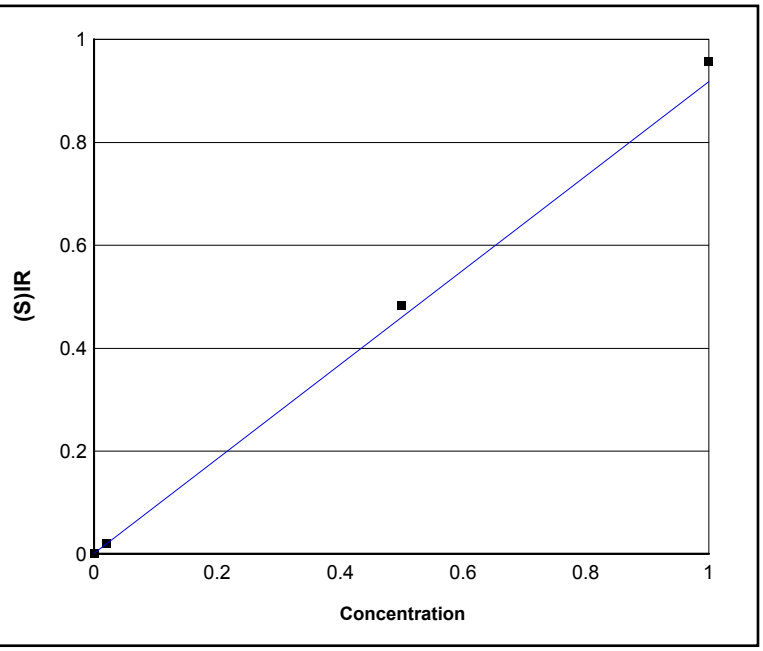
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.000000000	-0.000012183	0.00000	0.0023294	0.00016185	1
IC-1999327	50.000	50.200	0.19529	0.39059	2.0310	0.0036109	1
IC-1999432	0.20000	0.21000	0.013069	6.5346	0.010951	0.00032603	1
IC-1999330	25.000	24.790	-0.20838	-0.83353	1.0044	0.016926	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00083049
A1 (Gain):	0.22570
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

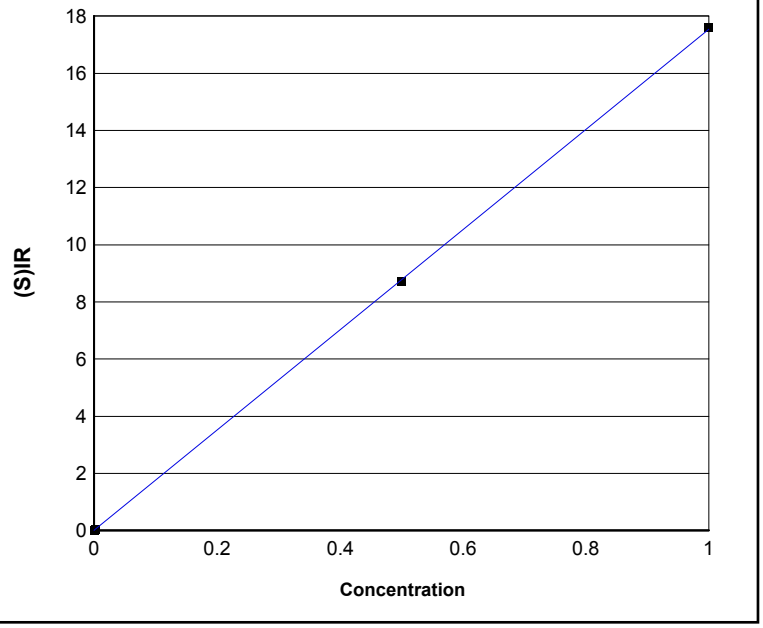
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000005772	0.00000	0.00083062	0.000079045	1
IC-1999327	1.0000	1.0000	0.00089537	0.089537	0.22376	0.0018462	1
IC-1999432	0.015000	0.010000	-0.00058136	-3.8758	0.0040721	0.000036629	1
IC-1999330	0.50000	0.50000	-0.00030847	-0.061694	0.11213	0.00064238	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0013901
A1 (Gain):	0.91668
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

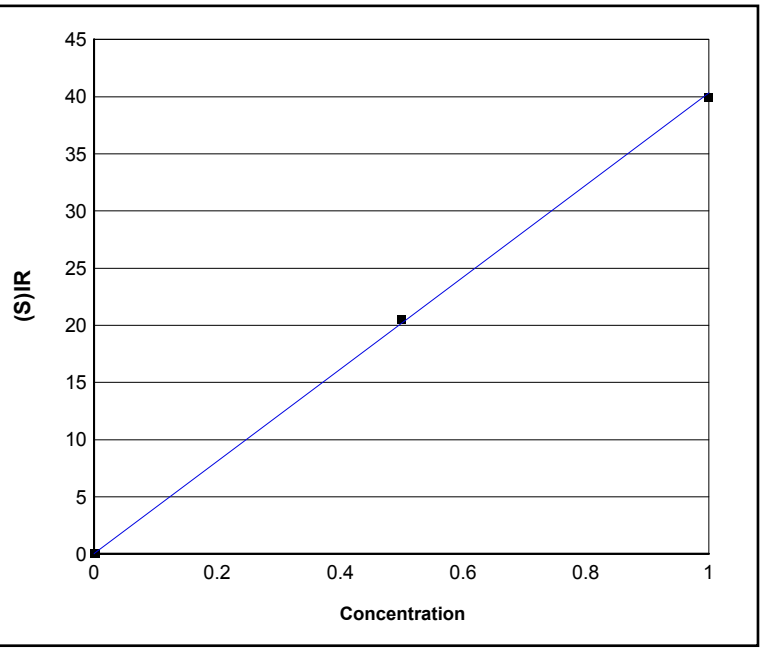
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000004392	0.00000	0.0013905	0.0000043497	1
IC-1999327	1.0000	1.00000	-0.0023481	-0.23481	0.95674	0.0095516	1
IC-1999432	0.020000	0.020000	-0.00050599	-2.5300	0.019668	0.000023334	1
IC-1999330	0.50000	0.50000	0.0028434	0.56867	0.48275	0.0028949	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0099684
A1 (Gain):	17.537
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

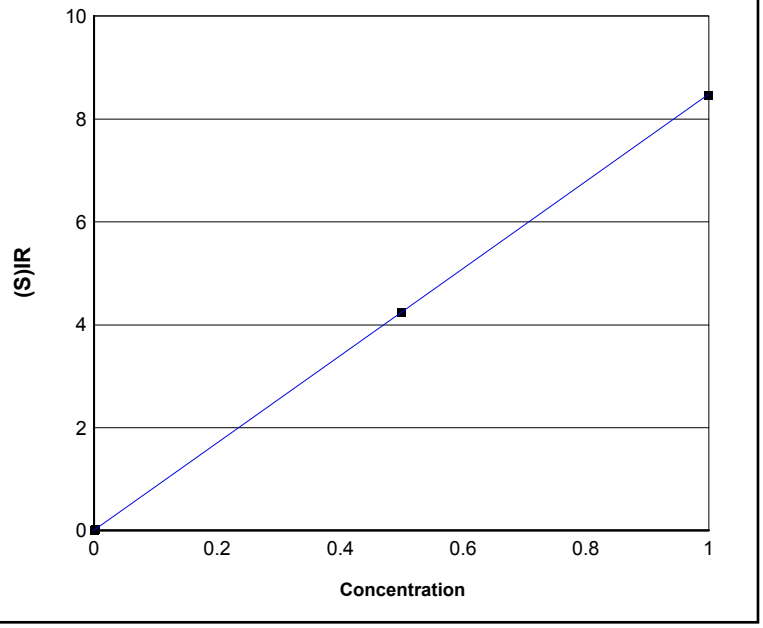
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000000175	0.00000	0.0099687	0.00012203	1
IC-1999327	1.0000	1.0000	0.0040846	0.40846	17.619	0.078617	1
IC-1999432	0.0020000	0.0000000	-0.0000093884	-0.46942	0.044878	0.0011557	1
IC-1999330	0.50000	0.50000	-0.0040752	-0.81505	8.7071	0.11068	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.0053689
A1 (Gain):	40.313
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

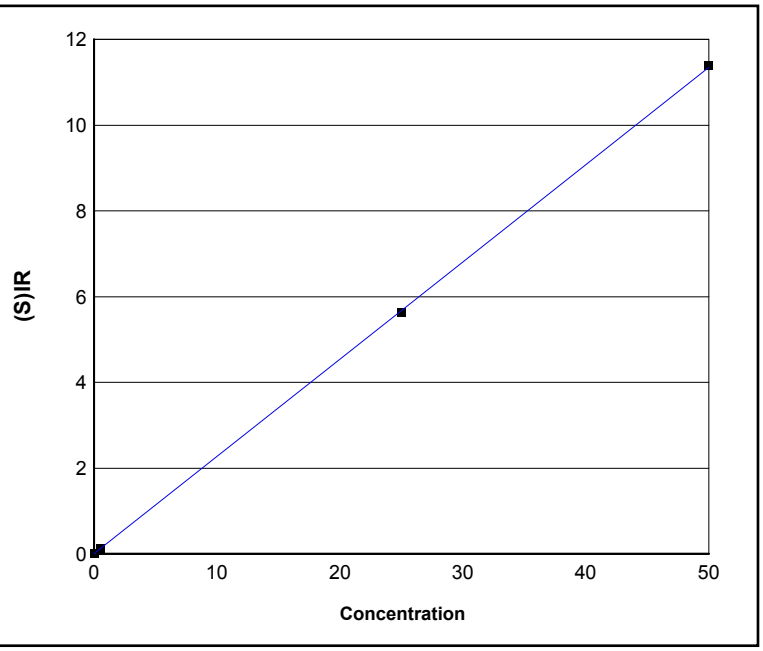
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000001305	0.00000	0.0053637	0.00058501	1
IC-1999327	1.0000	0.99000	-0.0096161	-0.96161	39.934	0.38679	1
IC-1999432	0.0020000	0.0000000	0.00011168	5.5840	0.090536	0.00082354	1
IC-1999330	0.50000	0.51000	0.0095044	1.9009	20.547	0.10516	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0018533
A1 (Gain):	8.4812
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

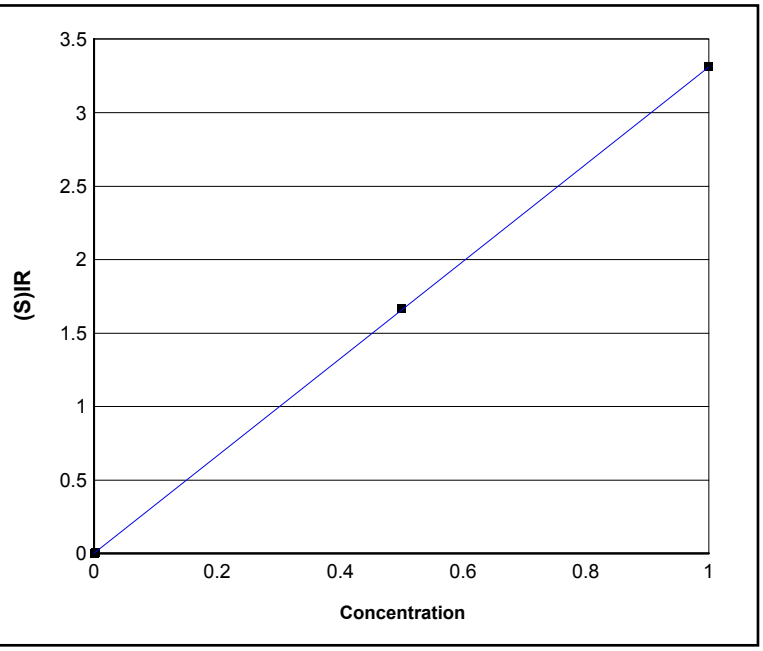
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000000863	0.00000	0.0018526	0.0010145	1
IC-1999327	1.0000	1.00000	-0.0010586	-0.10586	8.4687	0.023261	1
IC-1999432	0.0020000	0.0000000	0.000084566	4.2283	0.019506	0.000017105	1
IC-1999330	0.50000	0.50000	0.00097408	0.19482	4.2480	0.051286	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0067642
A1 (Gain):	0.22693
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

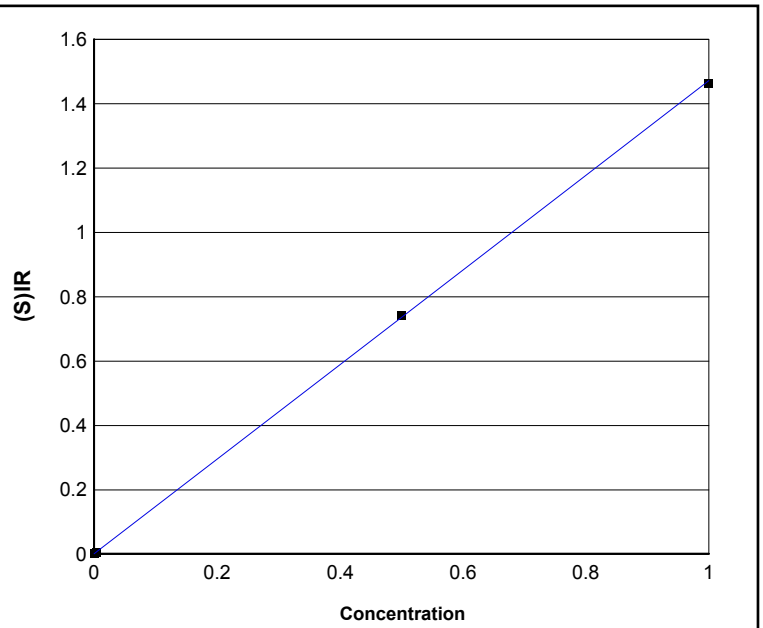
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000091976	0.00000	0.0067663	0.00052179	1
IC-1999327	50.000	50.160	0.15826	0.31651	11.389	0.078223	1
IC-1999432	0.50000	0.49000	-0.0077704	-1.5541	0.11847	0.0015179	1
IC-1999330	25.000	24.850	-0.15049	-0.60195	5.6459	0.058504	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00019463
A1 (Gain):	3.3107
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

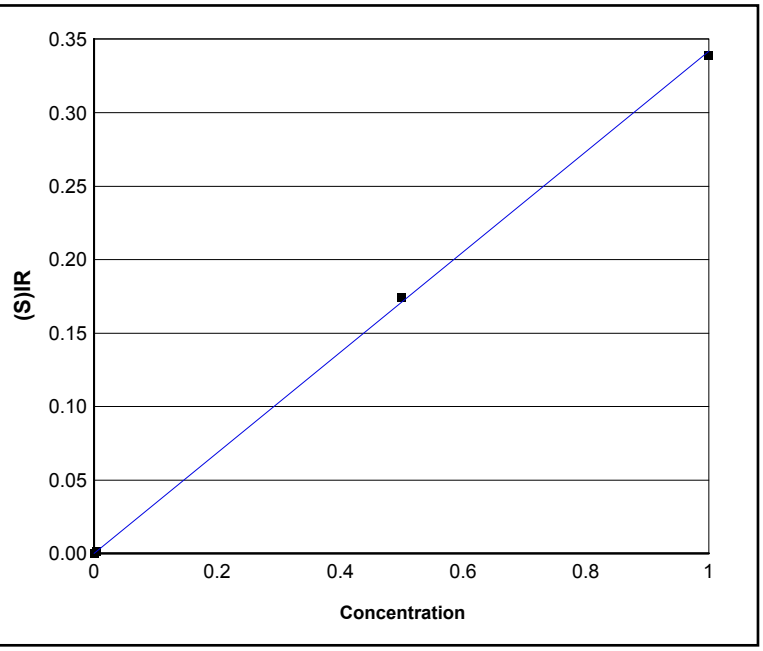
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000001860	0.00000	0.00019401	0.00035093	1
IC-1999327	1.0000	1.00000	-0.0021258	-0.21258	3.3161	0.026394	1
IC-1999432	0.0020000	0.0000000	0.00018245	9.1226	0.0076162	0.00025153	1
IC-1999330	0.50000	0.50000	0.0019386	0.38772	1.6681	0.0069225	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00035882
A1 (Gain):	1.4717
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

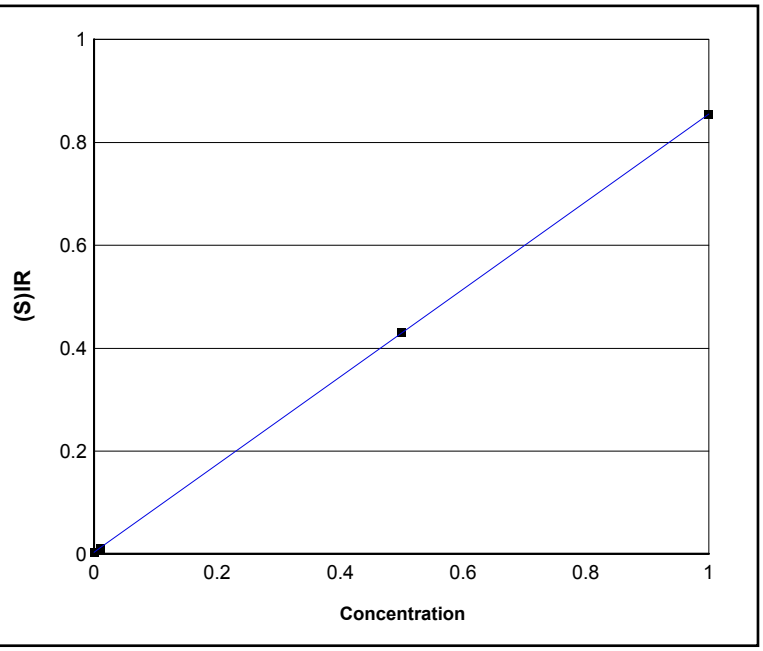
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000000733	0.00000	0.00035893	0.000093931	1
IC-1999327	1.0000	1.00000	-0.0048205	-0.48205	1.4645	0.0037605	1
IC-1999432	0.0040000	0.0000000	-0.000093305	-2.3326	0.0060920	0.00013349	1
IC-1999330	0.50000	0.50000	0.0049135	0.98271	0.74320	0.00012041	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.000024297
A1 (Gain):	0.34183
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

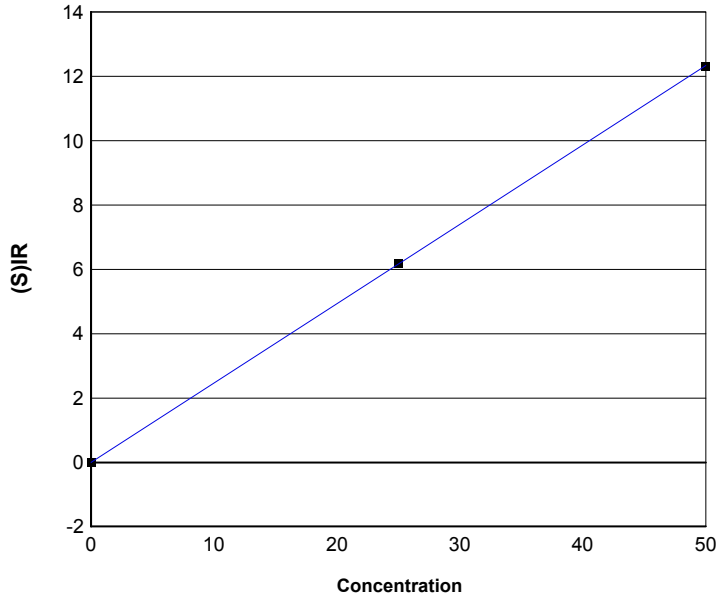
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000004708	0.00000	0.000024136	0.00011577	1
IC-1999327	1.0000	0.99000	-0.0096965	-0.96965	0.33858	0.0019540	1
IC-1999432	0.0040000	0.0000000	0.00043548	10.887	0.0015406	0.00011918	1
IC-1999330	0.50000	0.51000	0.0092611	1.8522	0.17412	0.00087229	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0035665
A1 (Gain):	0.85139
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

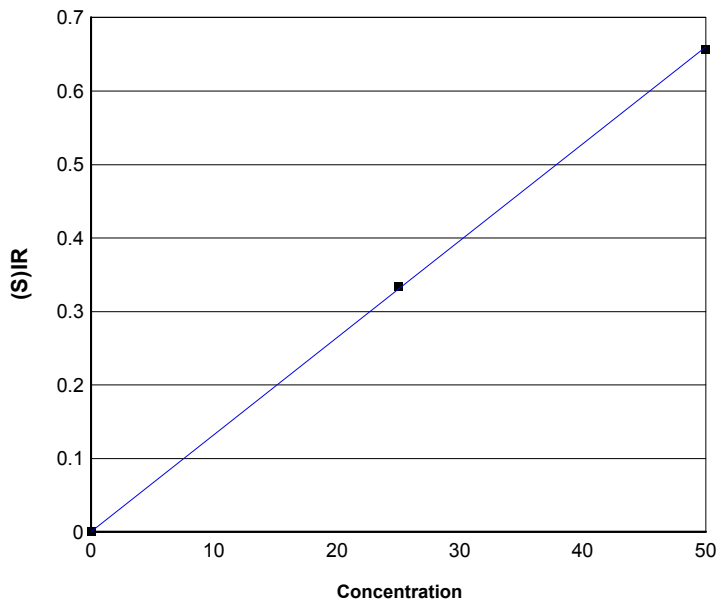
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000013308	0.00000	0.0035676	0.000098404	1
IC-1999327	1.0000	1.00000	-0.00024472	-0.024472	0.85437	0.0017841	1
IC-1999432	0.010000	0.0100000	-0.0013605	-13.605	0.010920	0.00047154	1
IC-1999330	0.50000	0.50000	0.0016055	0.32110	0.43044	0.000020960	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0000093384
A1 (Gain):	0.24681
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

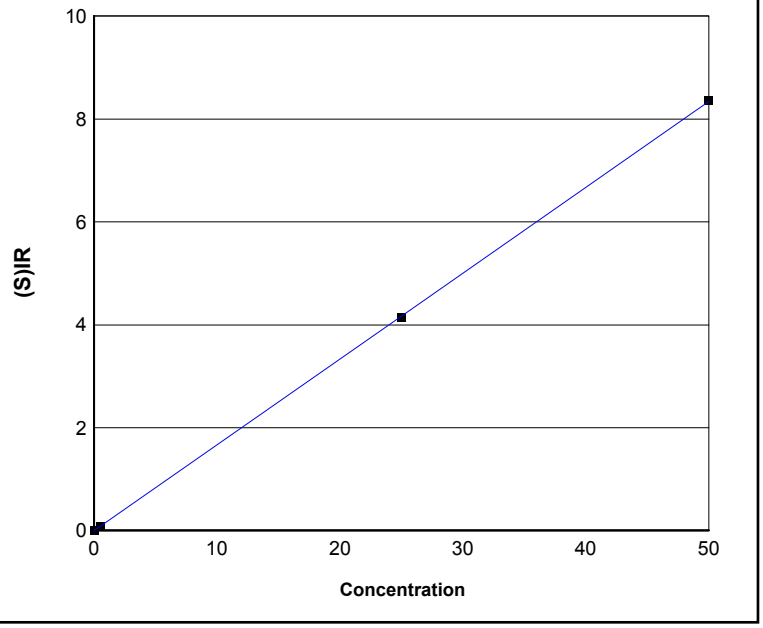
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000018147	0.00000	-0.0000097863	0.000038732	1
IC-1999327	50.000	49.940	-0.060526	-0.12105	12.326	0.074957	1
IC-1999432	0.050000	0.050000	0.0017576	3.5153	0.012765	0.00022909	1
IC-1999330	25.000	25.060	0.058769	0.23507	6.1848	0.070707	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99979
A0 (Offset):	0.00059190
A1 (Gain):	0.013186
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

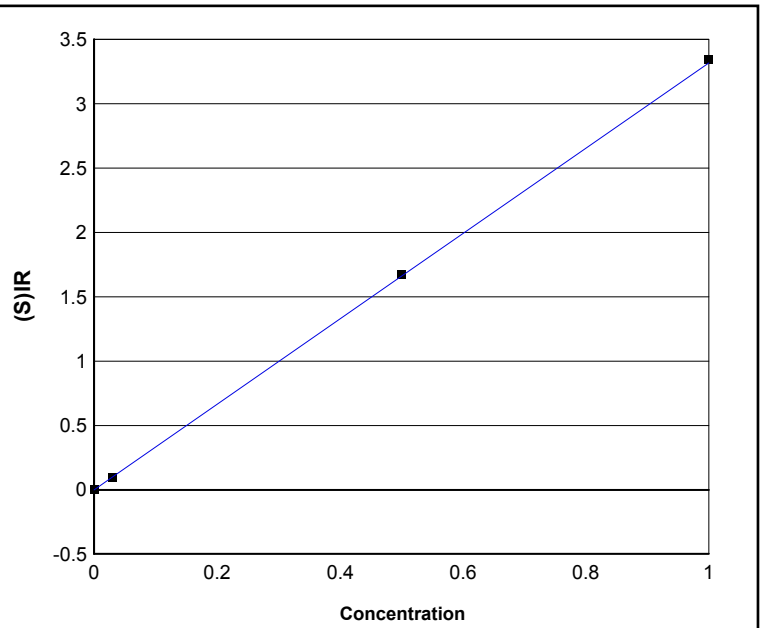
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.000000000	0.000037333	0.00000	0.00059239	0.00045827	1
IC-1999327	50.000	49.790	-0.20662	-0.41324	0.65718	0.0011216	1
IC-1999432	0.050000	0.010000	-0.037614	-75.229	0.00075522	0.00013365	1
IC-1999330	25.000	25.240	0.24423	0.97693	0.33347	0.0026653	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0010348
A1 (Gain):	0.16680
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

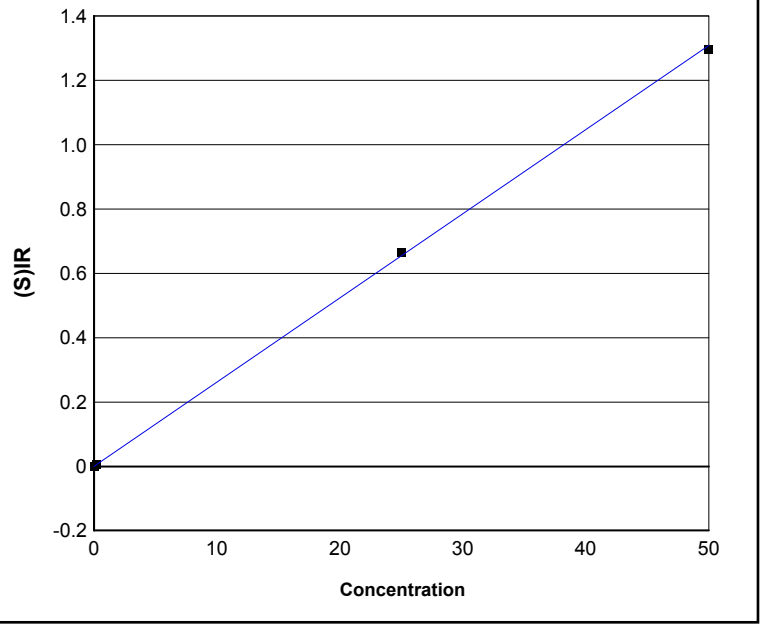
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000078576	0.00000	0.0010335	0.0030464	1
IC-1999327	50.000	50.130	0.13117	0.26235	8.3629	0.020882	1
IC-1999432	0.50000	0.51000	0.0093564	1.8713	0.085995	0.0013310	1
IC-1999330	25.000	24.860	-0.14053	-0.56212	4.1476	0.048043	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00084228
A1 (Gain):	3.3190
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

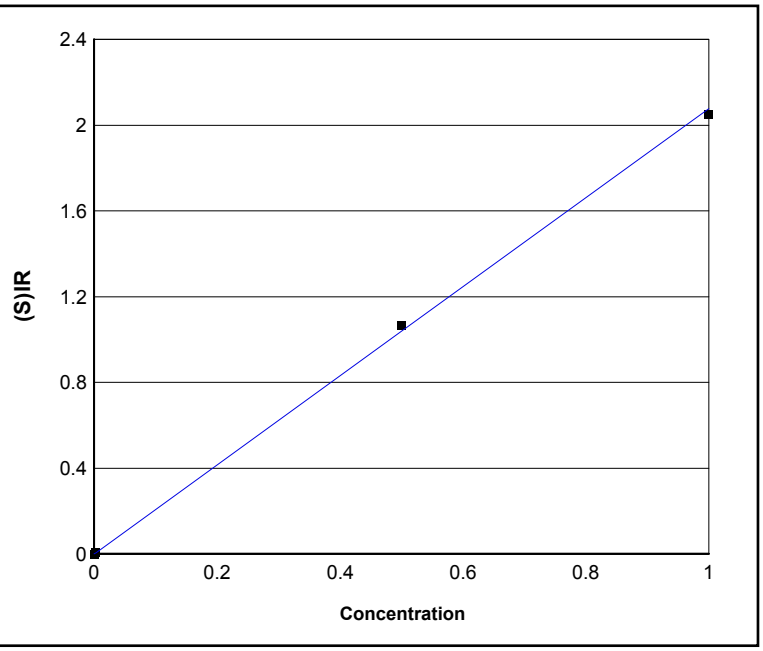
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000010618	0.00000	-0.00083876	0.00068724	1
IC-1999432	0.030000	0.030000	-0.0010974	-3.6579	0.095289	0.0019598	1
IC-1999330	0.50000	0.50000	0.000092798	0.018560	1.6691	0.013742	1
IC-1999327	1.0000	1.0000	0.0010001	0.10001	3.3417	0.0098523	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.000081403
A1 (Gain):	0.026193
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

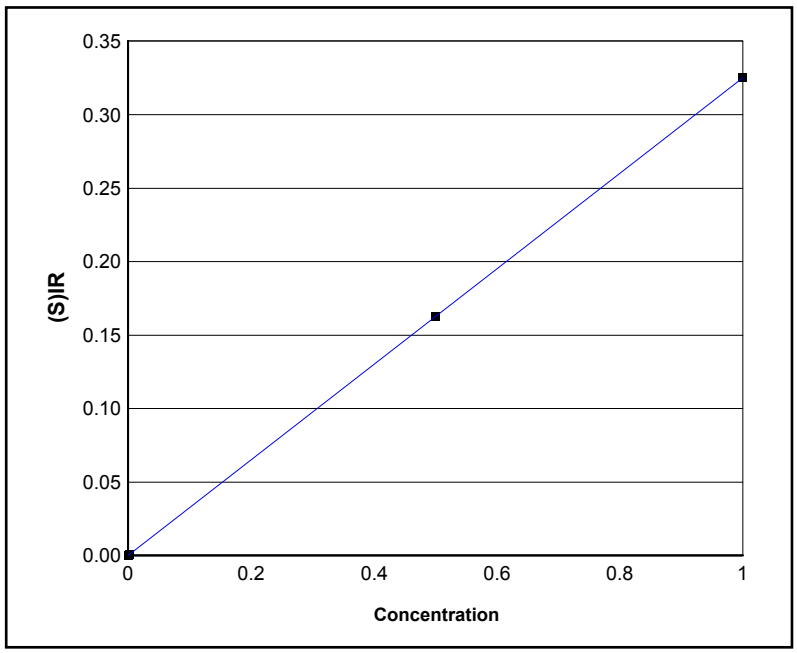
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000004784	0.00000	-0.000081390	0.000049117	1
IC-1999327	50.000	49.590	-0.40920	-0.81840	1.2966	0.0067791	1
IC-1999432	0.20000	0.20000	-0.0021323	-1.0661	0.0050961	0.000050904	1
IC-1999330	25.000	25.410	0.41133	1.6453	0.66438	0.0047481	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.000091402
A1 (Gain):	2.0770
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

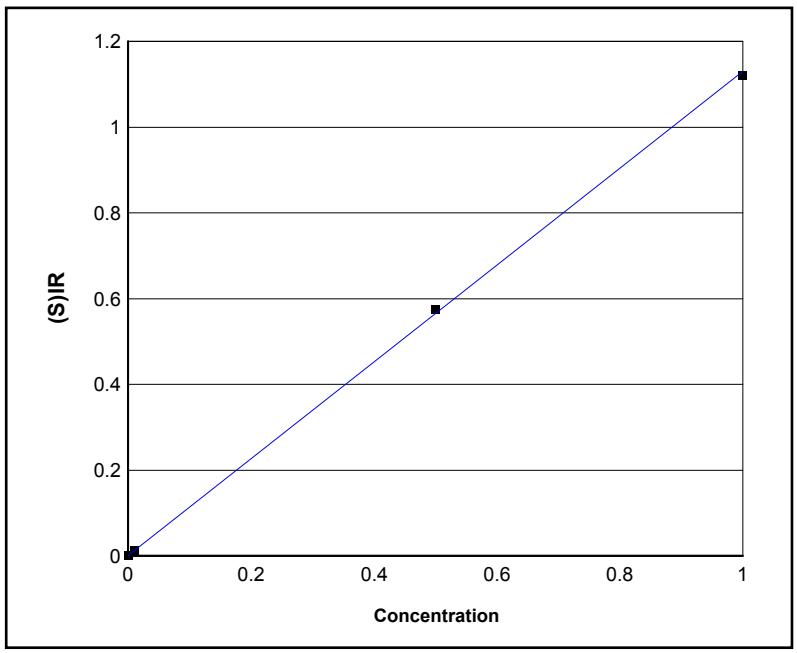
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000003469	0.00000	0.000090681	0.000084004	1
IC-1999327	1.0000	0.99000	-0.013298	-1.3298	2.0493	0.0082783	1
IC-1999432	0.0030000	0.0000000	0.00030887	10.296	0.0069631	0.00012071	1
IC-1999330	0.50000	0.51000	0.012989	2.5978	1.0655	0.0049625	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.000033007
A1 (Gain):	0.32503
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

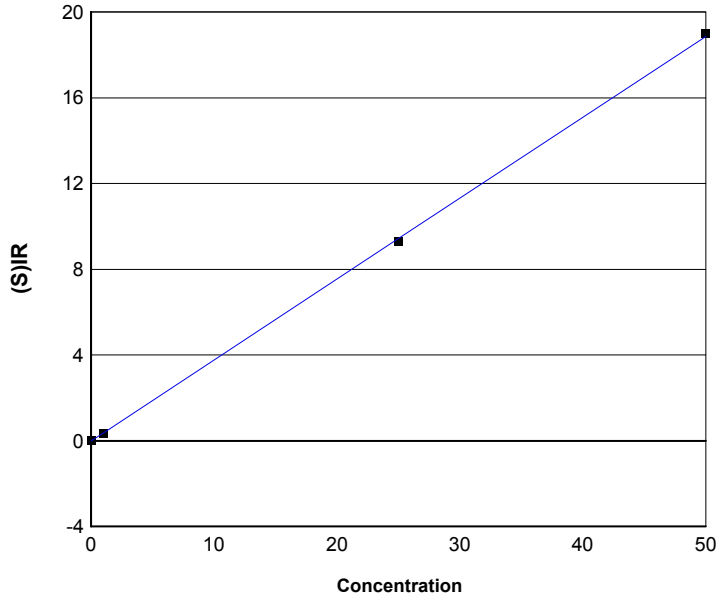
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000001409	0.00000	0.000033053	0.000014506	1
IC-1999327	1.0000	1.00000	-0.000042054	-0.0042054	0.32505	0.0014524	1
IC-1999432	0.0030000	0.0000000	-0.00014187	-4.7289	0.00096199	0.000088794	1
IC-1999330	0.50000	0.50000	0.00018392	0.036784	0.16261	0.00038157	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00036711
A1 (Gain):	1.1306
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

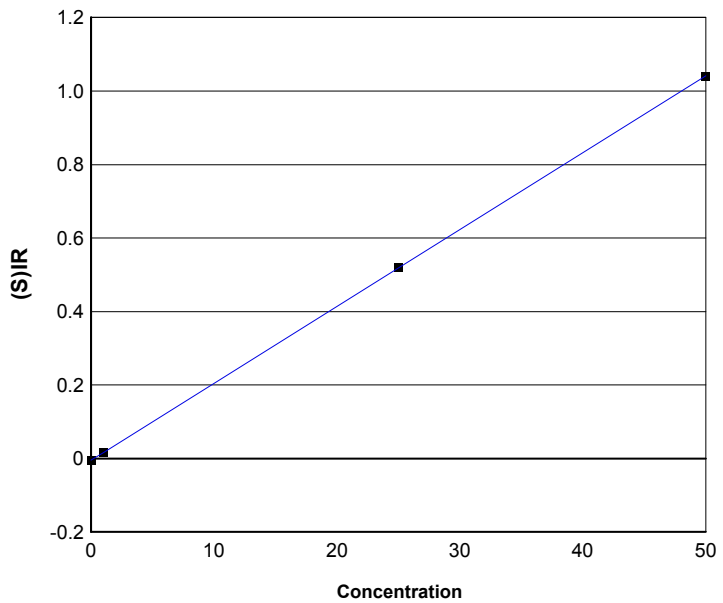
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000002028	0.00000	0.00036688	0.000069738	1
IC-1999327	1.0000	0.99000	-0.0079195	-0.79195	1.1218	0.0092775	1
IC-1999432	0.010000	0.010000	0.00012609	1.2609	0.011815	0.000012162	1
IC-1999330	0.50000	0.51000	0.0077934	1.5587	0.57436	0.00090073	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:12AM
Date of Fit:	8/4/2014 10:08:12AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.0015712
A1 (Gain):	0.37738
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

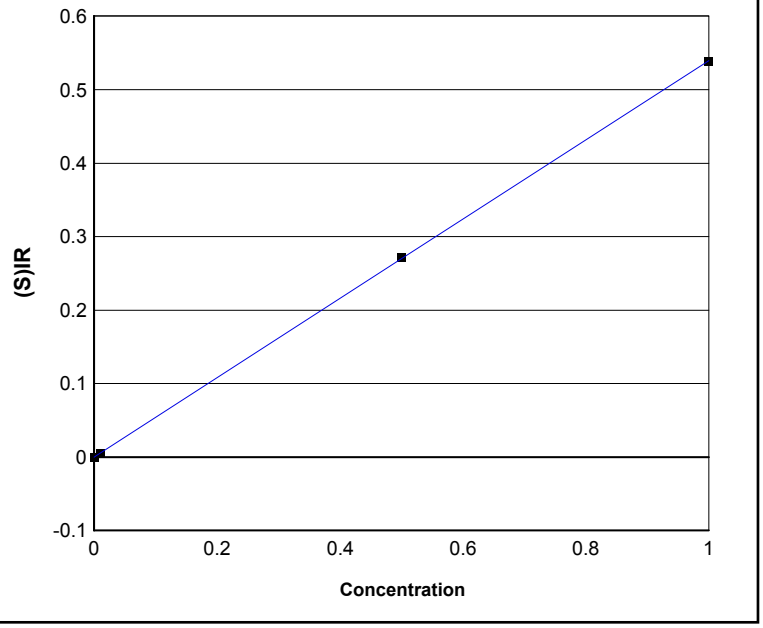
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.000000000	0.000021176	0.00000	-0.0015632	0.00044089	1
IC-1999327	50.000	50.420	0.42097	0.84195	19.026	0.098976	1
IC-1999432	1.0000	0.99000	-0.013288	-1.3288	0.37079	0.0018683	1
IC-1999330	25.000	24.590	-0.40768	-1.6307	9.2790	0.11404	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0047668
A1 (Gain):	0.020913
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

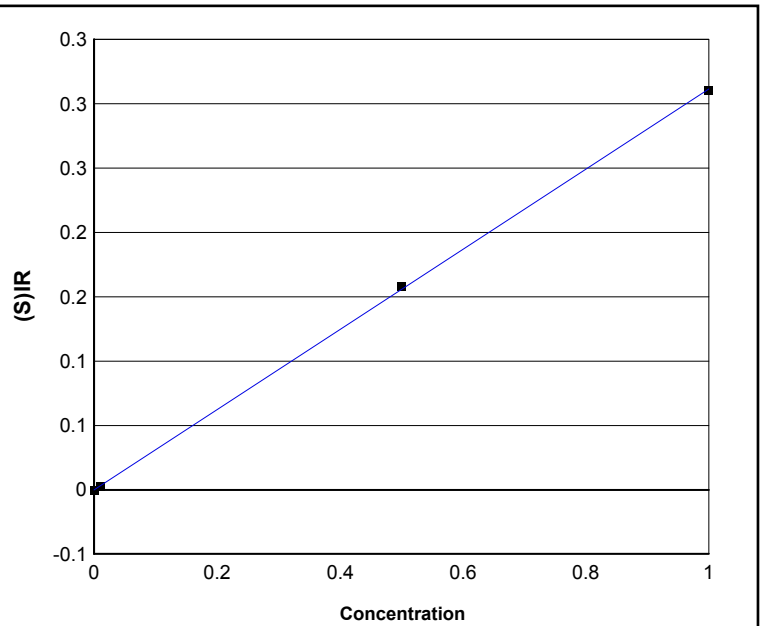
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.000000000	-0.000018894	0.00000	-0.0047672	0.00092873	1
IC-1999327	50.000	49.930	-0.066133	-0.13227	1.0395	0.0038066	1
IC-1999432	1.0000	1.0200	0.018304	1.8304	0.016529	0.00090988	1
IC-1999330	25.000	25.050	0.047830	0.19132	0.51907	0.0054580	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.000027295
A1 (Gain):	0.53978
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

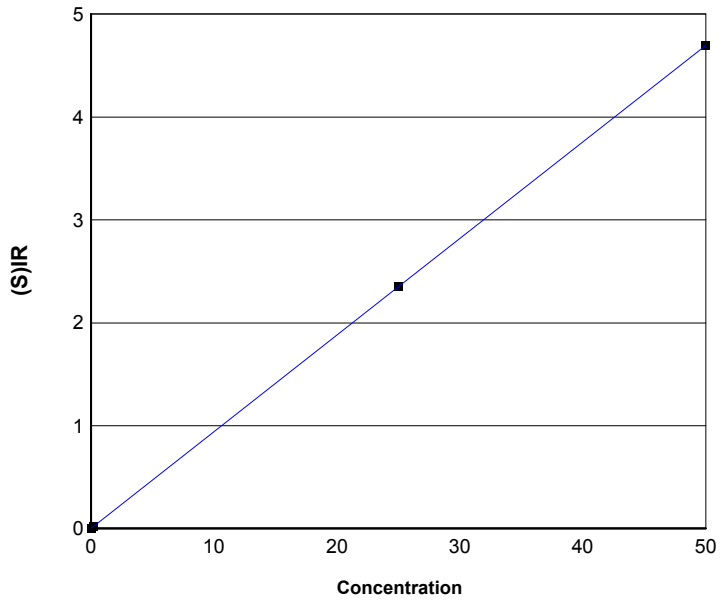
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000007686	0.00000	-0.000026880	0.000075293	1
IC-1999327	1.0000	1.00000	-0.0021913	-0.21913	0.53882	0.00032647	1
IC-1999432	0.010000	0.0100000	-0.00080667	-8.0667	0.0049335	0.00010613	1
IC-1999330	0.50000	0.50000	0.0029973	0.59947	0.27160	0.00026395	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00034795
A1 (Gain):	0.31175
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

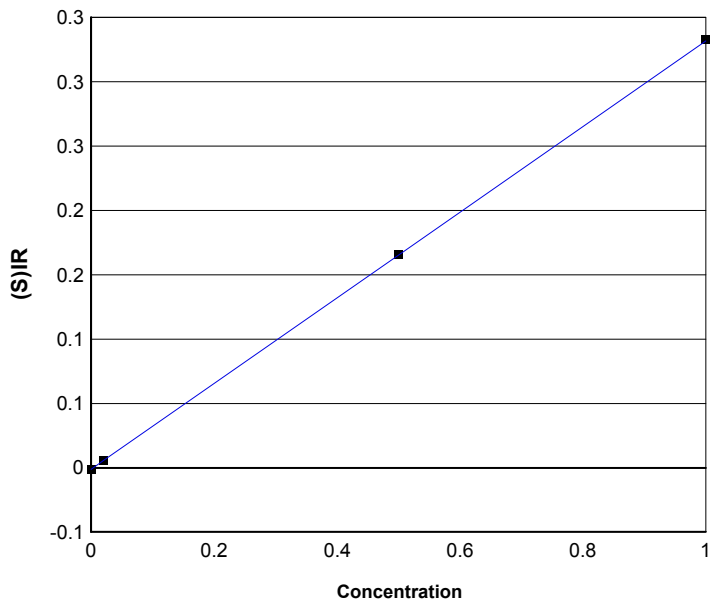
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000000431	0.00000	-0.00034796	0.000077089	1
IC-1999327	1.0000	0.99000	-0.0066278	-0.66278	0.31011	0.00041508	1
IC-1999432	0.010000	0.0100000	-0.000023670	-0.23670	0.0027684	0.00013088	1
IC-1999330	0.50000	0.51000	0.0066515	1.3303	0.15799	0.00029400	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0015966
A1 (Gain):	0.093926
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

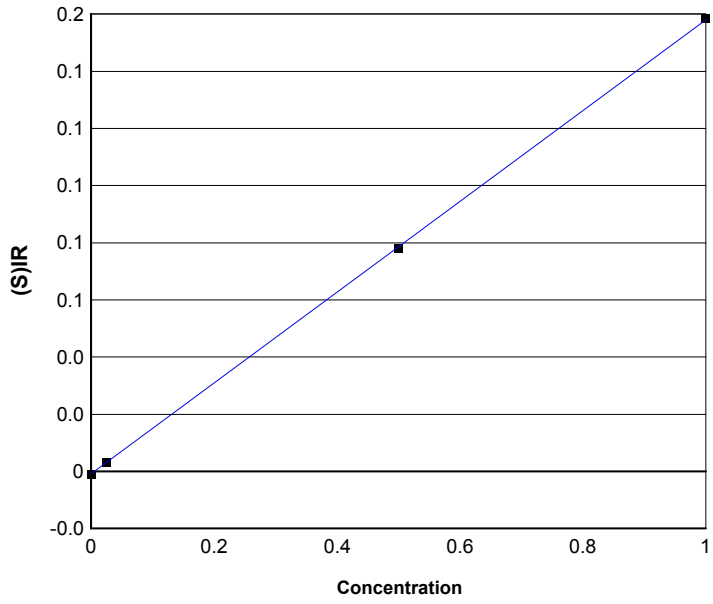
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000067312	0.00000	0.0015959	0.000011419	1
IC-1999432	0.20000	0.21000	0.0067010	3.3505	0.021012	0.000068180	1
IC-1999330	25.000	25.010	0.014242	0.056969	2.3512	0.0093935	1
IC-1999327	50.000	49.980	-0.020943	-0.041886	4.6963	0.038294	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0011877
A1 (Gain):	0.33308
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

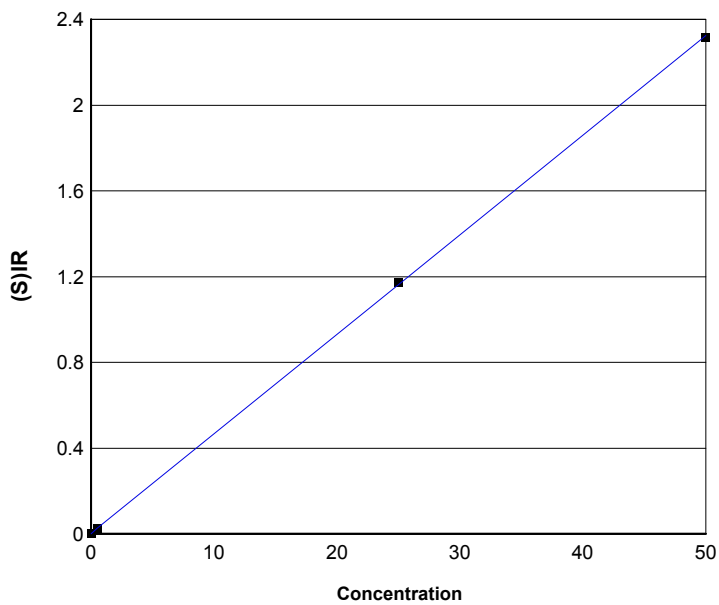
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000005719	0.00000	-0.0011875	0.000095936	1
IC-1999327	1.0000	1.0000	0.0013940	0.13940	0.33301	0.0032880	1
IC-1999432	0.020000	0.020000	-0.00056667	-2.8334	0.0052877	0.000051296	1
IC-1999330	0.50000	0.50000	-0.00082821	-0.16564	0.16540	0.00098814	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00092444
A1 (Gain):	0.15886
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

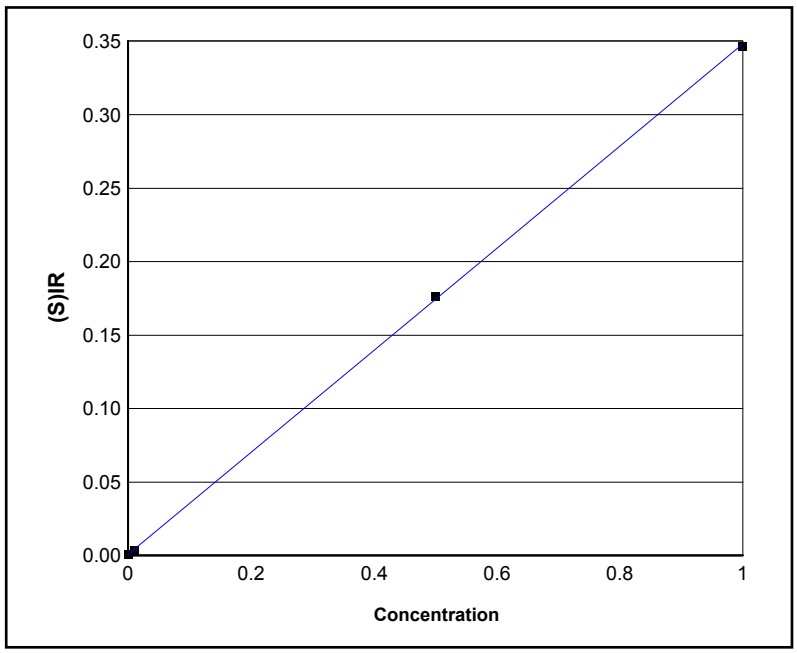
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000005351	0.00000	-0.00092453	0.00061685	1
IC-1999327	1.0000	1.0000	0.0021823	0.21823	0.15836	0.0022021	1
IC-1999432	0.025000	0.030000	0.00062072	2.4829	0.0031470	0.00032709	1
IC-1999330	0.50000	0.50000	-0.0028029	-0.56058	0.078102	0.00027386	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0018665
A1 (Gain):	0.046451
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

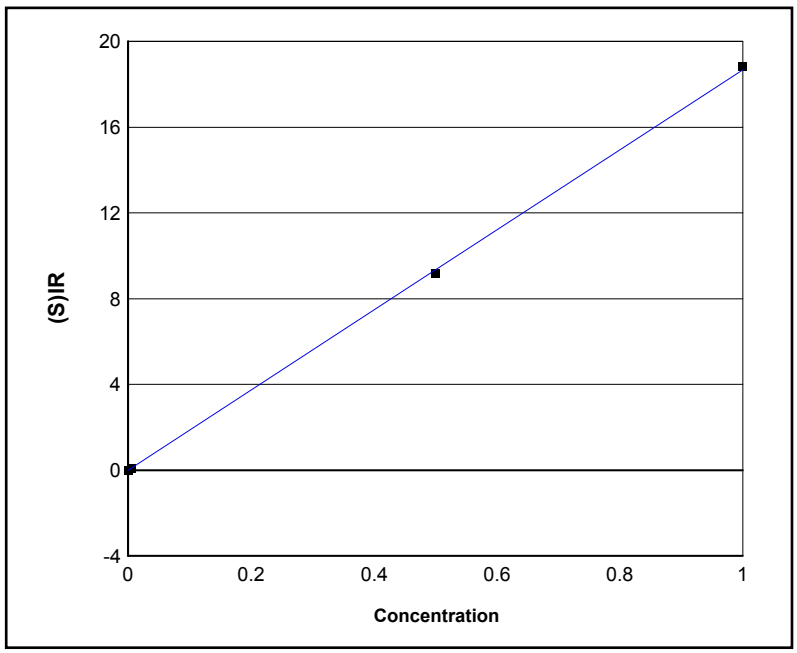
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.000000000	0.000012182	0.00000	0.0018670	0.00070717	1
IC-1999432	0.50000	0.49000	-0.013869	-2.7739	0.024453	0.00026460	1
IC-1999330	25.000	25.150	0.15486	0.61944	1.1708	0.0095739	1
IC-1999327	50.000	49.860	-0.14099	-0.28199	2.3189	0.017066	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00059116
A1 (Gain):	0.34740
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

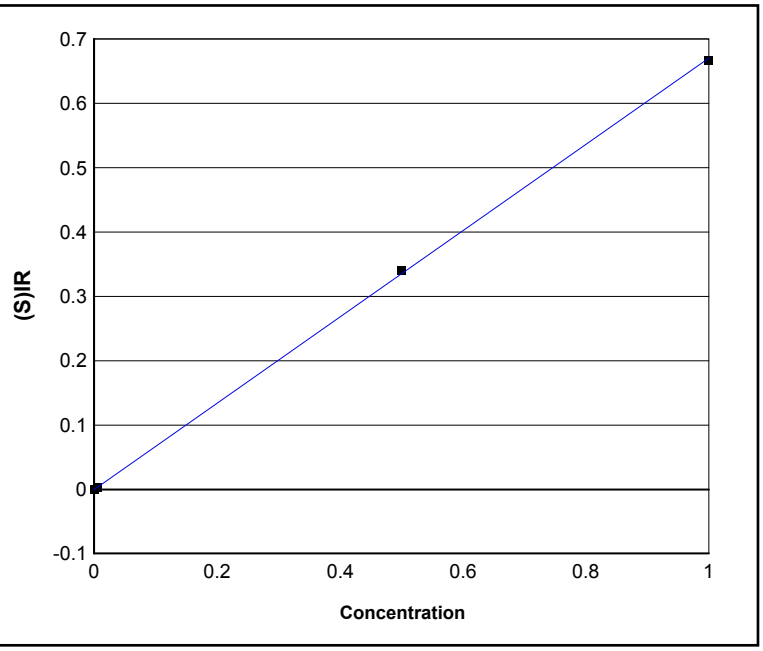
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000004689	0.00000	0.00059132	0.00011459	1
IC-1999327	1.0000	1.00000	-0.0045242	-0.45242	0.34625	0.000068905	1
IC-1999432	0.010000	0.0100000	-0.00052465	-5.2465	0.0038820	0.00012286	1
IC-1999330	0.50000	0.51000	0.0050489	1.0098	0.17596	0.000099706	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00041968
A1 (Gain):	18.690
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

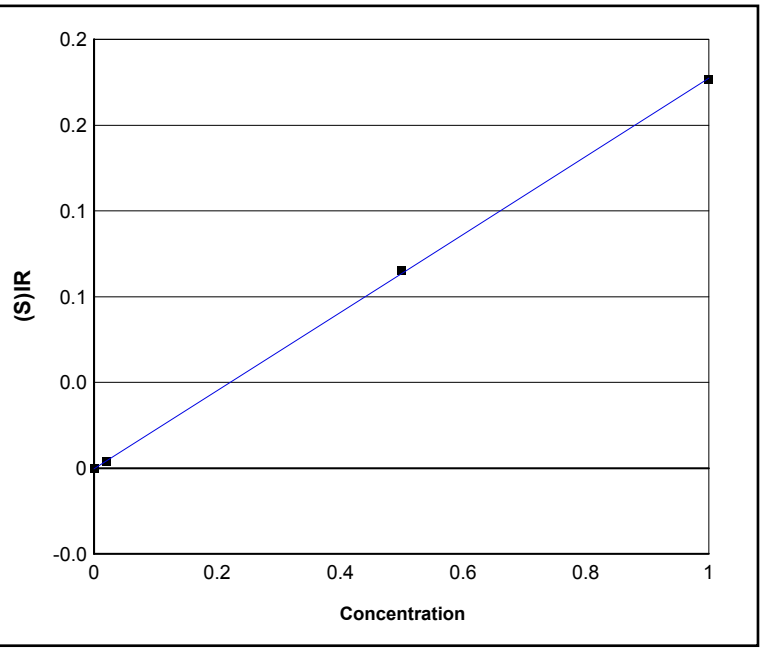
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000000250	0.00000	-0.00042014	0.00047369	1
IC-1999432	0.0050000	0.0100000	0.000063570	1.2714	0.094219	0.000061697	1
IC-1999330	0.50000	0.49000	-0.0076581	-1.5316	9.2015	0.10615	1
IC-1999327	1.0000	1.0100	0.0075945	0.75945	18.832	0.13599	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00034473
A1 (Gain):	0.67063
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

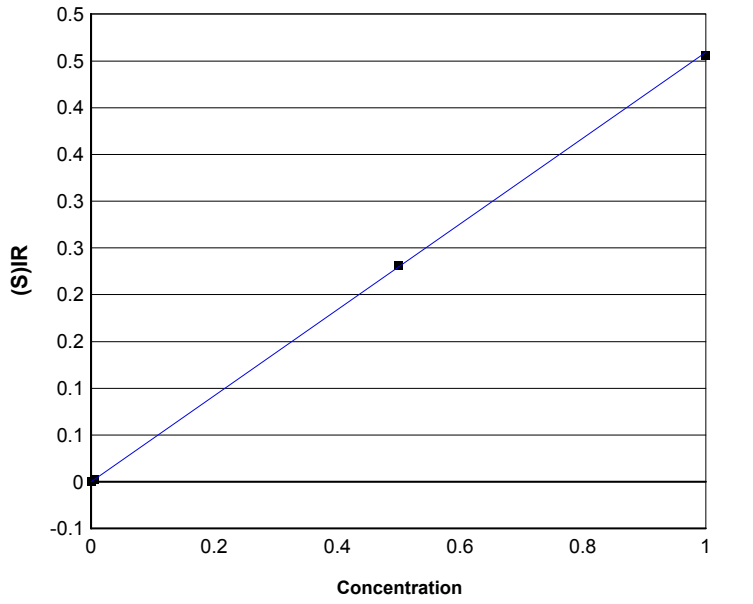
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000003153	0.00000	-0.00034452	0.00013212	1
IC-1999327	1.0000	0.99000	-0.0062882	-0.62882	0.66623	0.0042995	1
IC-1999432	0.0050000	0.0000000	-0.00035029	-7.0057	0.0027741	0.000053525	1
IC-1999330	0.50000	0.51000	0.0066385	1.3277	0.33950	0.0013910	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.00028054
A1 (Gain):	0.18227
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

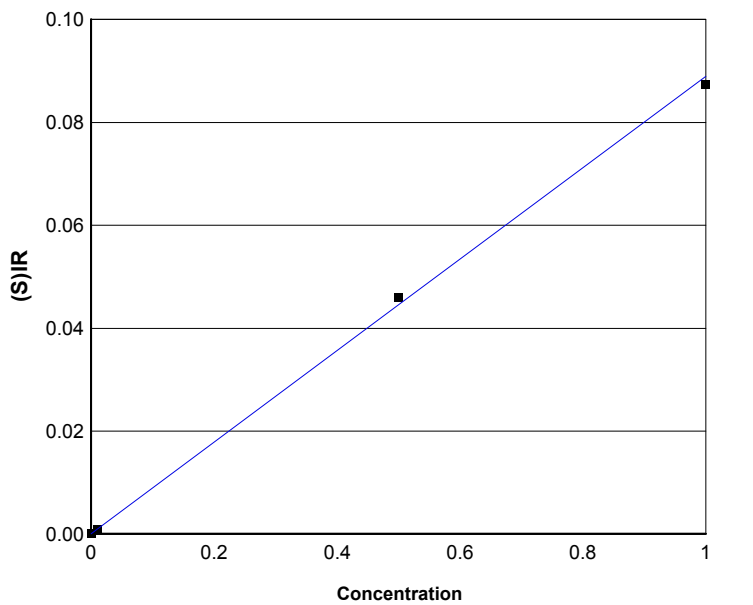
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000010427	0.00000	-0.00028035	0.000048290	1
IC-1999327	1.0000	0.99000	-0.0058576	-0.58576	0.18138	0.00037050	1
IC-1999432	0.020000	0.020000	-0.0012081	-6.0406	0.0031465	0.000026345	1
IC-1999330	0.50000	0.51000	0.0070633	1.4127	0.092370	0.00011533	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00011606
A1 (Gain):	0.45940
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	-0.0000001557	0.00000	-0.00011614	0.00016152	1
IC-1999327	1.0000	0.99000	-0.0055658	-0.55658	0.45553	0.0029400	1
IC-1999432	0.0050000	0.0100000	0.00012912	2.5823	0.0022203	0.00015445	1
IC-1999330	0.50000	0.51000	0.0054375	1.0875	0.23148	0.0014817	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/4/2014 10:08:13AM
Date of Fit:	8/4/2014 10:08:13AM
Type of Fit:	Linear
Correlation:	0.99972
A0 (Offset):	0.000054241
A1 (Gain):	0.088930
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC-2051994	0.00000	0.0000000000	0.0000001143	0.00000	0.000054251	0.000030523	1
IC-1999327	1.0000	0.98000	-0.016360	-1.6360	0.087349	0.00061943	1
IC-1999432	0.010000	0.0100000	-0.00028362	-2.8362	0.00091760	0.000032906	1
IC-1999330	0.50000	0.52000	0.016644	3.3287	0.045909	0.00094608	1

Sample Name: IC-2051994 Acquired: 8/4/2014 9:57:10 Type: Cal
Method: ICAP 2 Aug 2014(v2) Mode: IR Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00001**	**.00233**	**.00083**	**.00139**	**.00997**	**.00536**	**.00185**	**.00677**	**.00019**	**.00036**	**.00002**	**.00357**
Stddev	.00018	.00016	.00008	.00000	.00012	.00059	.00101	.00052	.00035	.00009	.00012	.00010
%RSD	1439.5	6.9483	9.5164	.31282	1.2241	10.907	54.759	7.7116	180.88	26.170	479.64	2.7582
#1	.00014	.00221	.00089	.00139	.00988	.00578	.00114	.00714	.00044	.00029	-.00006	.00350
#2	-.00011	.00244	.00077	.00139	.01006	.00495	.00257	.00640	-.00005	.00043	.00011	.00364

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00001**	**.00059**	**.00103**	**-.00084**	**-.00008**	**.00009**	**.00003**	**.00037**	**-.00156**	**-.00477**	**-.00003**	**-.00035**
Stddev	.00004	.00046	.00305	.00069	.00005	.00008	.00001	.00007	.00044	.00093	.00008	.00008
%RSD	395.78	77.359	294.76	81.935	60.347	92.636	43.886	19.008	28.204	19.482	280.10	22.155
#1	-.00004	.00027	.00319	-.00132	-.00005	.00015	.00004	.00032	-.00187	-.00542	.00003	-.00029
#2	.00002	.00092	-.00112	-.00035	-.00012	.00003	.00002	.00042	-.00125	-.00411	-.00008	-.00040

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00160**	**-.00119**	**-.00092**	**.00187**	**.00059**	**-.00042**	**-.00034**	**-.00028**	**-.00012**	**.00005**
Stddev	.00001	.00010	.00062	.00071	.00011	.00047	.00013	.00005	.00016	.00003
%RSD	.71550	8.0787	66.720	37.877	19.378	112.75	38.349	17.225	139.08	56.263
#1	.00160	-.00112	-.00049	.00237	.00051	-.00009	-.00025	-.00031	.00000	.00003
#2	.00159	-.00126	-.00136	.00137	.00067	-.00076	-.00044	-.00025	-.00023	.00008

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2607.7**	**1819.7**	**17432.**	**3893.3**
Stddev	4.3	2.2	163.	27.7
%RSD	.16428	.11860	.93309	.71069
#1	2604.7	1818.1	17317.	3912.8
#2	2610.8	1821.2	17547.	3873.7

Sample Name: IC-1999432 Acquired: 8/4/2014 10:00:03 Type: Cal
Method: ICAP 2 Aug 2014(v2) Mode: IR Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00358**	**.01095**	**.00407**	**.01967**	**.04488**	**.09054**	**.01951**	**.11847**	**.00762**	**.00609**	**.00154**	**.01092**
Stddev	.00026	.00033	.00004	.00002	.00116	.00082	.00002	.00152	.00025	.00013	.00012	.00047
%RSD	7.1312	2.9771	.89951	.11864	2.5753	.90963	.08769	1.2813	3.3026	2.1912	7.7361	4.3180
#1	.00376	.01072	.00405	.01965	.04406	.08995	.01952	.11954	.00744	.00600	.00162	.01125
#2	.00340	.01118	.00410	.01968	.04570	.09112	.01949	.11739	.00779	.00619	.00146	.01059

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01277**	**.00076**	**.08600**	**.09529**	**.00510**	**.00696**	**.00096**	**.01181**	**.37079**	**.01653**	**.00493**	**.00277**
Stddev	.00023	.00013	.00133	.00196	.00005	.00012	.00009	.00001	.00187	.00091	.00011	.00013
%RSD	1.7946	17.696	1.5478	2.0567	.99888	1.7336	9.2302	.10294	.50388	5.5046	2.1511	4.7275
#1	.01293	.00066	.08505	.09667	.00513	.00705	.00102	.01182	.36947	.01717	.00501	.00268
#2	.01260	.00085	.08694	.09390	.00506	.00688	.00090	.01181	.37211	.01589	.00486	.00286

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.02101**	**.00529**	**.00315**	**.02445**	**.00388**	**.09422**	**.00277**	**.00315**	**.00222**	**.00092**
Stddev	.00007	.00005	.00033	.00026	.00012	.00006	.00005	.00003	.00015	.00003
%RSD	.32448	.97011	10.394	1.0821	3.1647	.06548	1.9294	.83729	6.9562	3.5861
#1	.02106	.00525	.00292	.02464	.00397	.09426	.00281	.00317	.00211	.00094
#2	.02096	.00532	.00338	.02427	.00380	.09418	.00274	.00313	.00233	.00089

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2540.0**	**1763.3**	**17540.**	**3871.5**
Stddev	5.9	3.0	35.	17.1
%RSD	.23149	.16822	.19874	.44187
#1	2544.1	1765.4	17565.	3859.4
#2	2535.8	1761.2	17515.	3883.6

Sample Name: IC-1999330 Acquired: 8/4/2014 10:02:55 Type: Cal
Method: ICAP 2 Aug 2014(v2) Mode: IR Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.31586	1.0044	.11213	.48275	8.7071	20.547	4.2480	5.6459	1.6681	.74320	.17412	.43044
Stddev	.00214	.0169	.00064	.00289	.1107	.105	.0513	.0585	.0069	.00012	.00087	.00002
%RSD	.67778	1.6852	.57291	.59968	1.2712	.51182	1.2073	1.0362	.41499	.01620	.50096	.00487
#1	.31738	1.0163	.11167	.48070	8.7854	20.621	4.2843	5.6872	1.6632	.74312	.17474	.43043
#2	.31435	.99238	.11258	.48480	8.6289	20.472	4.2118	5.6045	1.6730	.74329	.17351	.43046

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.1848	.33347	4.1476	1.6691	.66438	1.0655	.16261	.57436	9.2790	.51907	.27160	.15799
Stddev	.0707	.00267	.0480	.0137	.00475	.0050	.00038	.00090	.1140	.00546	.00026	.00029
%RSD	1.1432	.79925	1.1583	.82331	.71468	.46575	.23466	.15682	1.2290	1.0515	.09718	.18609
#1	6.2348	.33535	4.1816	1.6788	.66773	1.0690	.16288	.57372	9.3596	.52293	.27142	.15819
#2	6.1348	.33159	4.1136	1.6594	.66102	1.0620	.16234	.57499	9.1984	.51521	.27179	.15778

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3512	.16540	.07810	1.1708	.17596	9.2015	.33950	.09237	.23148	.04591
Stddev	.0094	.00099	.00027	.0096	.00010	.1061	.00139	.00012	.00148	.00095
%RSD	.39951	.59742	.35065	.81769	.05666	1.1537	.40972	.12486	.64009	2.0608
#1	2.3446	.16470	.07830	1.1776	.17589	9.2766	.34048	.09229	.23253	.04658
#2	2.3579	.16610	.07791	1.1641	.17603	9.1265	.33852	.09245	.23044	.04524

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2218.9	1681.5	16121.	3715.3
Stddev	10.6	10.2	51.	22.2
%RSD	.47770	.60711	.31630	.59879
#1	2226.4	1688.7	16085.	3699.5
#2	2211.4	1674.3	16157.	3731.0

Sample Name: IC-1999327 Acquired: 8/4/2014 10:05:39 Type: Cal
Method: ICAP 2 Aug 2014(v2) Mode: IR Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.63686	2.0310	.22376	.95674	17.619	39.934	8.4687	11.389	3.3161	1.4645	.33858	.85437
Stddev	.00558	.0036	.00185	.00955	.079	.387	.0233	.078	.0264	.0038	.00195	.00178
%RSD	.87641	.17779	.82506	.99835	.44621	.96856	.27467	.68682	.79594	.25678	.57711	.20882
#1	.63291	2.0285	.22507	.96350	17.563	39.661	8.4523	11.334	3.3348	1.4672	.33720	.85311
#2	.64080	2.0336	.22246	.94999	17.674	40.208	8.4852	11.445	3.2975	1.4618	.33996	.85564

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	12.326	.65718	8.3629	3.3417	1.2966	2.0493	.32505	1.1218	19.026	1.0395	.53882	.31011
Stddev	.075	.00112	.0209	.0098	.0068	.0083	.00145	.0093	.099	.0038	.00033	.00042
%RSD	.60813	.17066	.24969	.29483	.52285	.40396	.44683	.82704	.52021	.36619	.06059	.13385
#1	12.273	.65639	8.3481	3.3348	1.2918	2.0434	.32402	1.1283	18.956	1.0368	.53905	.31040
#2	12.379	.65798	8.3777	3.3487	1.3014	2.0551	.32608	1.1152	19.096	1.0422	.53859	.30981

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.6963	.33301	.15836	2.3189	.34625	18.832	.66623	.18138	.45553	.08735
Stddev	.0383	.00329	.00220	.0171	.00007	.136	.00430	.00037	.00294	.00062
%RSD	.81541	.98736	1.3905	.73598	.01990	.72216	.64536	.20427	.64540	.70915
#1	4.7233	.33533	.15992	2.3068	.34620	18.736	.66319	.18112	.45345	.08691
#2	4.6692	.33068	.15681	2.3310	.34629	18.928	.66927	.18164	.45761	.08779

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2125.0	1651.2	15951.	3724.6
Stddev	10.4	16.3	96.	18.9
%RSD	.49114	.98530	.60184	.50718
#1	2117.6	1639.7	16019.	3737.9
#2	2132.4	1662.7	15883.	3711.2

Sample Name: ICV-2224573 Acquired: 8/4/2014 10:15:22 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36787	18.796	.36308	.36152	.37719	.36775	17.992	.36603	.36861	.36412	.36558	18.323	18.172
Stddev	.00157	.261	.00192	.00219	.00106	.00389	.092	.00008	.00086	.00238	.00136	.144	.187
%RSD	.42558	1.3888	.52967	.60702	.28133	1.0568	.51142	.02182	.23239	.65455	.37193	.78752	1.0269
#1	.36677	18.980	.36444	.36308	.37644	.37050	18.057	.36598	.36801	.36243	.36462	18.425	18.303
#2	.36898	18.611	.36172	.35997	.37794	.36500	17.927	.36609	.36922	.36580	.36654	18.221	18.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37103	18.654	.37239	.37055	18.076	.37040	.37102	18.035	.36539	.36427	18.290	.37706	.36931
Stddev	.00216	.055	.00196	.00179	.199	.00214	.00257	.052	.00355	.00079	.042	.00254	.00256
%RSD	.58175	.29488	.52649	.48403	1.1020	.57722	.69199	.29010	.97133	.21679	.23118	.67313	.69198
#1	.37256	18.616	.37100	.37182	18.217	.36889	.36921	18.072	.36790	.36371	18.320	.37527	.37112
#2	.36951	18.693	.37377	.36928	17.935	.37192	.37284	17.998	.36288	.36483	18.260	.37885	.36750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.36810	.37219	.36652	.37130
Stddev	.00192	.00019	.00297	.00251
%RSD	.52235	.04999	.81036	.67482
#1	.36674	.37232	.36442	.37308
#2	.36946	.37205	.36862	.36953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2311.6	1739.5	16714.	3912.8
Stddev	6.0	11.6	40.	26.2
%RSD	.26042	.66575	.23980	.66932
#1	2307.4	1731.3	16743.	3894.3
#2	2315.9	1747.7	16686.	3931.3

Sample Name: ICB-2222437 Acquired: 8/4/2014 10:18:00 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00294**	**-.00036**	**.00054**	**.00004**	**.00008**	**.00054**	**.00022**	**-.00004**	**.00036**	**-.00017**	**.00381**	**.01193**
Stddev	.00043	.00183	.00016	.00004	.00003	.00003	.00015	.00008	.00002	.00029	.00008	.00260	.01524
%RSD	22454.	62.098	44.444	6.6877	71.737	41.346	27.476	38.475	49.409	80.167	45.898	68.302	127.75
#1	-.00030	.00165	-.00024	.00051	.00006	.00005	.00043	.00028	-.00003	.00057	-.00012	.00197	.02271
#2	.00030	.00423	-.00047	.00056	.00002	.00010	.00064	.00016	-.00006	.00016	-.00023	.00565	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00061**	**.00008**	**.00029**	**.00000**	**-.00013**	**.00051**	**.00277**	**.00047**	**.00308**	**.00297**	**.00033**	**.00000**
Stddev	.00056	.00008	.00006	.00009	.00838	.00024	.00092	.00663	.00029	.00103	.00960	.00022	.00004
%RSD	1927.6	12.676	72.670	32.390	215210.	183.17	182.08	239.58	62.514	33.520	323.88	65.994	1018.3
#1	-.00037	-.00056	.00004	.00022	-.00592	.00004	-.00015	.00746	.00067	.00235	.00976	.00048	.00003
#2	.00043	-.00067	.00012	.00035	.00593	-.00030	.00116	-.00192	.00026	.00382	-.00383	.00018	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00006**	**-.00006**	**.00014**
Stddev	.00025	.00039	.00005	.00051
%RSD	127.16	625.20	71.515	371.17
#1	-.00002	.00022	-.00010	.00050
#2	-.00037	-.00034	-.00003	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2551.9**	**1788.6**	**17395.**	**3918.5**
Stddev	13.2	7.1	110.	57.4
%RSD	.51761	.39651	.63263	1.4644
#1	2561.3	1793.6	17317.	3878.0
#2	2542.6	1783.5	17473.	3959.1

Sample Name: ICVL-2222402 Acquired: 8/4/2014 10:20:54 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00592**	**.20026**	**.01225**	**.02002**	**.00212**	**.00199**	**.49511**	**.00214**	**.00370**	**.00419**	**.00804**	**.05222**	**.49268**
Stddev	.00034	.01408	.00032	.00002	.00002	.00004	.00240	.00013	.00006	.00014	.00028	.00143	.00581
%RSD	5.7096	7.0315	2.6405	.09971	.81544	2.2262	.48456	6.0664	1.5090	3.2403	3.4601	2.7352	1.1788
#1	.00568	.21022	.01202	.02004	.00211	.00202	.49681	.00204	.00366	.00409	.00784	.05323	.48858
#2	.00616	.19030	.01248	.02001	.00213	.00196	.49341	.00223	.00374	.00428	.00824	.05121	.49679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02968**	**.21064**	**.00345**	**.01007**	**.97501**	**.00936**	**.00912**	**.20887**	**.02010**	**.02724**	**.48819**	**.00937**	**.00497**
Stddev	.00063	.00858	.00001	.00005	.00424	.00019	.00140	.00178	.00032	.00020	.01100	.00004	.00004
%RSD	2.1393	4.0740	.37172	.46504	.43492	2.0571	15.396	.85331	1.6101	.73224	2.2541	.39294	.77560
#1	.03013	.20457	.00345	.01004	.97201	.00922	.00813	.20761	.02033	.02709	.48040	.00934	.00494
#2	.02923	.21671	.00346	.01011	.97801	.00950	.01011	.21013	.01987	.02738	.49597	.00940	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00473**	**.01893**	**.00504**	**.01024**
Stddev	.00002	.00065	.00011	.00028
%RSD	.37664	3.4156	2.1667	2.7172
#1	.00472	.01938	.00512	.01005
#2	.00475	.01847	.00497	.01044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2540.9**	**1782.4**	**17378.**	**3889.5**
Stddev	13.8	11.1	103.	2.2
%RSD	.54235	.62414	.59247	.05537
#1	2550.6	1790.2	17451.	3888.0
#2	2531.1	1774.5	17305.	3891.0

Sample Name: CRI-2210843 Acquired: 8/4/2014 10:32:48 Type: QC
Method: ICAP 2 Aug 2014(v4) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00329**	**.21548**	**.00916**	**.01964**	**.00224**	**.00213**	**.53472**	**.00113**	**.00388**	**.00382**	**.00901**	**.05641**	**.51405**
Stddev	.00036	.00446	.00105	.00002	.00004	.00005	.00740	.00001	.00002	.00006	.00014	.00448	.03514
%RSD	10.867	2.0718	11.479	.07722	1.6503	2.1685	1.3834	.70860	.38977	1.4819	1.5344	7.9363	6.8357
#1	.00304	.21864	.00842	.01965	.00227	.00210	.52949	.00113	.00387	.00386	.00911	.05958	.48920
#2	.00354	.21233	.00990	.01963	.00222	.00216	.53995	.00112	.00389	.00378	.00892	.05325	.53890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03079**	**.21997**	**.00357**	**.01020**	**1.0188**	**.00969**	**.00498**	**.19828**	**.01986**	**.01808**	**.51744**	**.00965**	**.00519**
Stddev	.00103	.00033	.00009	.00018	.0066	.00004	.00012	.00069	.00091	.00324	.01769	.00002	.00002
%RSD	3.3327	.14950	2.4938	1.7510	.65167	.41466	2.4585	.34834	4.5577	17.916	3.4183	.20033	.30064
#1	.03006	.22020	.00364	.01033	1.0235	.00966	.00489	.19779	.01922	.02037	.50494	.00966	.00518
#2	.03151	.21974	.00351	.01007	1.0141	.00972	.00507	.19877	.02050	.01579	.52995	.00964	.00521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00505**	**.01998**	**.00515**	**.01335**
Stddev	.00036	.00042	.00021	.00026
%RSD	7.1762	2.0907	4.0307	1.9258
#1	.00531	.02028	.00500	.01317
#2	.00480	.01969	.00529	.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2471.6**	**1745.0**	**16902.**	**3800.6**
Stddev	9.6	6.9	116.	15.8
%RSD	.38862	.39667	.68470	.41582
#1	2464.8	1740.1	16820.	3811.8
#2	2478.4	1749.9	16983.	3789.4

Sample Name: ICSA-2204542 Acquired: 8/4/2014 10:35:41 Type: QC
Method: ICAP 2 Aug 2014(v4) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**512.59**	**-.00431**	**-.00457**	**.00009**	**-.00017**	**455.47**	**-.00211**	**.00123**	**-.00088**	**.00145**	**187.21**	**-.00685**
Stddev	.00027	11.37	.00283	.00016	.00001	.00012	5.61	.00017	.00016	.00037	.00053	2.38	.00869
%RSD	8.7633	2.2182	65.737	3.4606	9.5242	70.669	1.2312	8.0199	13.069	42.388	36.510	1.2737	126.98
#1	.00293	520.63	-.00230	-.00469	.00010	-.00026	459.43	-.00199	.00112	-.00061	.00183	188.89	-.01299
#2	.00332	504.55	-.00631	-.00446	.00009	-.00009	451.50	-.00223	.00134	-.00114	.00108	185.52	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01889**	**516.53**	**.00388**	**-.00315**	**.02711**	**-.00134**	**-.00215**	**-.04930**	**-.03055**	**.00101**	**-.00990**	**.00714**	**.01399**
Stddev	.00004	2.84	.00002	.00014	.00633	.00018	.00208	.00299	.00203	.00243	.00904	.00083	.00019
%RSD	.22416	.55070	.62849	4.4072	23.340	13.694	96.393	6.0722	6.6431	241.89	91.325	11.580	1.3508
#1	-.01892	518.54	.00386	-.00305	.02264	-.00121	-.00069	-.04719	-.02912	-.00071	-.01630	.00655	.01412
#2	-.01886	514.52	.00390	-.00324	.03159	-.00147	-.00362	-.05142	-.03199	.00273	-.00351	.00772	.01385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00134**	**.00525**	**.00477**	**.00024**
Stddev	.00002	.00203	.00007	.00202
%RSD	1.6368	38.669	1.4803	858.00
#1	.00135	.00381	.00482	.00167
#2	.00132	.00669	.00472	-.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1791.2**	**1562.5**	**14454.**	**3720.8**
Stddev	.2	1.9	97.	43.2
%RSD	.01106	.11947	.66776	1.1616
#1	1791.4	1561.2	14386.	3690.2
#2	1791.1	1563.8	14522.	3751.3

Sample Name: ICSAB-2222403 Acquired: 8/4/2014 10:38:35 Type: QC
Method: ICAP 2 Aug 2014(v4) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22964	506.79	.10375	.00114	.48083	.47954	457.38	1.0163	.52087	.47738	.53159	92.195
Stddev	.00131	5.86	.00007	.00059	.00189	.00427	3.40	.0016	.00096	.00142	.00070	1.064
%RSD	.57239	1.1561	.06380	52.143	.39207	.88953	.74264	.15823	.18390	.29790	.13236	1.1539
#1	.23057	510.93	.10380	.00156	.48216	.48256	459.78	1.0152	.52155	.47637	.53110	92.947
#2	.22871	502.64	.10371	.00072	.47949	.47653	454.98	1.0174	.52019	.47838	.53209	91.442
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01947	.48127	499.24	.47547	-.00111	.08875	1.0168	.04885	F .63596	.59383	.04711	1.0089
Stddev	.00210	.00301	.02	.00103	.00053	.00584	.0033	.00048	.00175	.00293	.00378	.0153
%RSD	10.779	.62493	.00354	.21589	48.240	6.5749	.32137	.98335	.27591	.49374	8.0294	1.5116
#1	.01799	.48340	499.25	.47475	-.00148	.08463	1.0191	.04851	.63720	.59175	.04979	1.0197
#2	.02096	.47914	499.23	.47620	-.00073	.09288	1.0145	.04919	.63472	.59590	.04444	.99808
Check ?	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value									.50000			
Range									20.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00584	.48387	.00195	.10606	.50504	.94862
Stddev	.00020	.00556	.00019	.00170	.00060	.00097
%RSD	3.3604	1.1486	9.4988	1.6020	.11808	.10244
#1	.00598	.48780	.00182	.10726	.50546	.94793
#2	.00570	.47994	.00208	.10486	.50462	.94931
Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1774.1	1546.9	14443.	3630.6
Stddev	5.7	9.3	8.	42.5
%RSD	.32019	.59949	.05774	1.1704
#1	1778.1	1553.5	14437.	3600.6
#2	1770.1	1540.4	14449.	3660.7

Sample Name: CCV-2222404 Acquired: 8/4/2014 10:41:27 Type: QC
Method: ICAP 2 Aug 2014(v4) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49403	24.883	.47799	.48208	.48961	.48398	23.593	.48079	.48692	.47686	.47334	24.041	23.648
Stddev	.00024	.040	.00155	.00099	.00331	.00072	.021	.00046	.00236	.00247	.00144	.009	.022
%RSD	.04815	.16185	.32364	.20445	.67584	.14917	.09090	.09632	.48563	.51841	.30475	.03709	.09245
#1	.49386	24.912	.47690	.48278	.48727	.48347	23.608	.48047	.48859	.47512	.47232	24.047	23.663
#2	.49420	24.855	.47908	.48138	.49195	.48449	23.578	.48112	.48525	.47861	.47436	24.034	23.633
Check ?	None	None	None	None	None	None	None	None	None	None	None	None	None
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49085	24.581	.48789	.48938	23.716	.49718	.49402	23.862	.49061	.48940	24.366	.50486	.47885
Stddev	.00188	.041	.00207	.00086	.010	.00003	.00132	.036	.00064	.00114	.247	.00222	.00010
%RSD	.38391	.16807	.42458	.17664	.04371	.00541	.26620	.15079	.13048	.23199	1.0132	.43959	.02118
#1	.48951	24.552	.48643	.48877	23.709	.49716	.49309	23.837	.49106	.48859	24.191	.50329	.47892
#2	.49218	24.611	.48936	.48999	23.723	.49720	.49495	23.888	.49015	.49020	24.540	.50643	.47878
Check ?	None	None	None	None	None	None	None	None	None	None	None	None	None
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.48339	.50326	.48269	.49742
Stddev	.00151	.00434	.00262	.00222
%RSD	.31204	.86311	.54375	.44685
#1	.48232	.50019	.48084	.49585
#2	.48446	.50633	.48455	.49899
Check ?	None	None	None	None
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2281.6	1744.1	16738.	3931.3
Stddev	1.9	.9	33.	17.5
%RSD	.08252	.05073	.19730	.44554
#1	2283.0	1743.5	16762.	3943.6
#2	2280.3	1744.7	16715.	3918.9

Sample Name: CCB-2222437 Acquired: 8/4/2014 10:44:11 Type: QC
Method: ICAP 2 Aug 2014(v4) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01036**	**-.00102**	**.00026**	**.00004**	**.00005**	**.02897**	**.00003**	**-.00011**	**.00009**	**-.00026**	**.01364**	**.01235**
Stddev	.00013	.02717	.00011	.00035	.00002	.00015	.03198	.00008	.00002	.00028	.00019	.01085	.02973
%RSD	457.01	262.32	11.076	135.90	40.191	292.74	110.39	233.44	13.841	326.51	74.457	79.508	240.62
#1	-.00012	.02957	-.00110	.00050	.00005	.00016	.05158	.00009	-.00010	.00029	-.00012	.02131	-.00867
#2	.00006	-.00885	-.00094	.00001	.00003	-.00006	.00636	-.00002	-.00012	-.00011	-.00039	.00597	.03338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00470**	**.00011**	**.00016**	**-.00082**	**-.00036**	**-.00047**	**.00138**	**.00052**	**.00148**	**.01026**	**.00009**	**.00010**
Stddev	.00084	.00406	.00002	.00001	.00857	.00008	.00006	.00054	.00097	.00151	.00009	.00018	.00014
%RSD	176.26	86.470	16.018	7.7400	1039.6	22.139	11.872	39.283	187.68	101.84	.87378	212.82	133.98
#1	.00107	.00757	.00012	.00017	.00524	-.00030	-.00051	.00177	-.00017	.00255	.01032	-.00004	.00020
#2	-.00012	.00183	.00010	.00015	-.00688	-.00041	-.00043	.00100	.00120	.00041	.01020	.00022	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00060**	**-.00014**	**-.00032**
Stddev	.00009	.00057	.00012	.00002
%RSD	28.710	94.602	85.513	7.8536
#1	-.00036	-.00100	-.00022	-.00030
#2	-.00024	-.00020	-.00005	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2565.4**	**1816.6**	**17445.**	**3839.5**
Stddev	14.5	12.9	29.	29.6
%RSD	.56570	.71032	.16685	.77141
#1	2575.7	1825.7	17466.	3818.6
#2	2555.1	1807.5	17425.	3860.4

Sample Name: CCVL-2222402 Acquired: 8/4/2014 11:03:35 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00618**	**.20883**	**.01285**	**.01878**	**.00211**	**.00204**	**.49359**	**.00206**	**.00370**	**.00421**	**.00847**	**.05162**	**.49651**
Stddev	.00030	.00274	.00006	.00032	.00001	.00003	.00373	.00000	.00011	.00004	.00017	.00031	.00781
%RSD	4.8541	1.3106	.50494	1.7046	.37147	1.3688	.75493	.08361	3.0216	.96996	2.0471	.59409	1.5723
#1	.00597	.20690	.01289	.01856	.00211	.00202	.49096	.00206	.00362	.00418	.00835	.05183	.49099
#2	.00639	.21077	.01280	.01901	.00212	.00206	.49623	.00206	.00378	.00424	.00859	.05140	.50203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03017**	**.20839**	**.00337**	**.00990**	**.97877**	**.00974**	**.00930**	**.20421**	**.01901**	**.02610**	**.49842**	**.00948**	**.00497**
Stddev	.00153	.01042	.00005	.00018	.00516	.00008	.00035	.00088	.00046	.00090	.00826	.00018	.00004
%RSD	5.0670	5.0012	1.5009	1.8014	.52718	.81415	3.7277	.42968	2.4270	3.4627	1.6575	1.8506	.73960
#1	.02909	.21576	.00341	.00978	.97512	.00969	.00906	.20359	.01868	.02546	.49258	.00935	.00500
#2	.03125	.20102	.00334	.01003	.98242	.00980	.00955	.20483	.01933	.02674	.50426	.00960	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00472**	**.01973**	**.00510**	**.01027**
Stddev	.00019	.00052	.00018	.00100
%RSD	4.0385	2.6308	3.4412	9.7556
#1	.00485	.02010	.00522	.00956
#2	.00458	.01937	.00498	.01098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2558.1**	**1830.8**	**17338.**	**3769.5**
Stddev	4.5	14.8	68.	59.0
%RSD	.17774	.81090	.39289	1.5657
#1	2561.3	1841.3	17290.	3727.8
#2	2554.9	1820.3	17387.	3811.3

Sample Name: MB 480-195815/1-A Acquired: 8/4/2014 11:06:27 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.03785**	**-.00173**	**-.00021**	**.00171**	**.00000**	**.03518**	**.00004**	**-.00022**
Stddev	.00025	.00715	.00021	.00000	.00001	.0001	.00026	.00006	.00003
%RSD	3123.1	18.880	12.248	2.3257	.42100	1876.5	.74512	151.95	14.041
#1	-.00017	.04290	-.00158	-.00020	.00172	.00003	.03500	.00008	-.00020
#2	.00019	.03280	-.00188	-.00021	.00171	-.00004	.03537	.00000	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00086**	**.00737**	**.00953**	**.00027**	**.00039**	**.00073**	**-.00002**	**.00127**
Stddev	.00001	.00015	.00063	.00846	.00049	.00165	.00007	.00028	.00697
%RSD	1.3046	17.303	8.5408	88.749	180.39	421.96	10.013	1183.1	547.37
#1	.00051	-.00096	.00781	.01552	.00062	-.00078	.00068	-.00022	-.00365
#2	.00050	-.00075	.00692	.00355	-.00007	.00156	.00079	.00017	.00620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00022**	**.00269**	**.00009**	**.00180**	**.09376**	**.00927**	**.00010**	**-.00007**
Stddev	.00025	.00016	.00067	.00000	.00086	.01472	.00028	.00002	.00058
%RSD	492.75	70.447	24.777	1.2433	48.059	15.698	2.9816	22.583	833.43
#1	-.00022	.00011	.00222	.00009	.00241	.08336	.00907	.00009	.00034
#2	.00012	.00034	.00317	.00009	.00119	.10417	.00946	.00012	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00166**	**.00020**	**.00034**
Stddev	.00003	.00044	.00056
%RSD	2.0752	217.13	166.62
#1	-.00164	-.00011	-.00006
#2	-.00169	.00051	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2531.9**	**1775.8**	**17422.**	**3831.8**
Stddev	1.4	5.8	58.	25.1
%RSD	.05384	.32507	.33470	.65561
#1	2530.9	1779.9	17463.	3814.0
#2	2532.8	1771.7	17381.	3849.5

Sample Name: 480-64678-A-2-A Acquired: 8/4/2014 11:09:19 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00534**	**62.759**	**.11182**	**-.01633**	**.70217**	**.00389**	**41.510**	**.00066**	**.89849**
Stddev	.00053	.599	.00059	.00062	.00058	.00006	.419	.00006	.00049
%RSD	10.011	.95502	.52714	3.8051	.08222	1.4659	1.0103	9.5640	.05481
#1	.00572	62.335	.11140	-.01677	.70176	.00393	41.213	.00070	.89883
#2	.00496	63.182	.11224	-.01589	.70258	.00385	41.806	.00061	.89814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.015**	**.68185**	**315.74**	**7.8722**	**.10288**	**23.968**	**3.9462**	**4.6451**	**.54612**
Stddev	.204	.00990	2.89	.0751	.00110	.397	.0710	.0194	.00215
%RSD	1.8495	1.4517	.91507	.95414	1.0662	1.6580	1.7985	.41745	.39343
#1	10.871	.67485	313.69	7.8191	.10211	23.687	3.8960	4.6588	.54460
#2	11.159	.68885	317.78	7.9253	.10366	24.249	3.9964	4.6313	.54764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.1210**	**.27175**	**2.8969**	**.06346**	**.04210**	**32.164**	**.05673**	**.11073**	**1.3819**
Stddev	.0002	.00142	.0093	.00047	.00084	.119	.00024	.00056	.0012
%RSD	.00401	.52233	.32078	.74397	1.9837	.37070	.42592	.50325	.08772
#1	5.1212	.27276	2.9034	.06313	.04269	32.080	.05656	.11034	1.3811
#2	5.1209	.27075	2.8903	.06379	.04151	32.248	.05690	.11113	1.3828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01328**	**1.5994**	**.61621**
Stddev	.00042	.0220	.01231
%RSD	3.1674	1.3729	1.9973
#1	-.01298	1.5838	.60751
#2	-.01358	1.6149	.62492
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2159.4**	**1798.3**	**17269.**	**4202.9**
Stddev	4.9	7.8	167.	34.1
%RSD	.22491	.43357	.96614	.81138
#1	2156.0	1792.8	17387.	4227.0
#2	2162.8	1803.8	17151.	4178.8

Sample Name: 480-64678-A-3-A Acquired: 8/4/2014 11:12:08 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00425**	**93.281**	**.08495**	**.34331**	**.72339**	**.00431**	**27.908**	**.00014**	**.33575**
Stddev	.00007	.058	.00155	.00168	.00083	.00003	.082	.00016	.00271
%RSD	1.6420	.06212	1.8222	.48876	.11446	.68518	.29524	113.02	.80865
#1	.00420	93.240	.08604	.34450	.72280	.00429	27.850	.00025	.33766
#2	.00430	93.322	.08385	.34212	.72397	.00433	27.966	.00003	.33383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.3993**	**.40813**	**241.28**	**7.7498**	**.14557**	**24.648**	**2.2315**	**2.8255**	**.49806**
Stddev	.0352	.00363	.13	.0250	.00092	.289	.0288	.0049	.00191
%RSD	1.0342	.88852	.05510	.32254	.63131	1.1738	1.2914	.17263	.38405
#1	3.3745	.40557	241.37	7.7321	.14622	24.444	2.2111	2.8290	.49671
#2	3.4242	.41070	241.18	7.7675	.14492	24.853	2.2518	2.8221	.49941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.2171**	**.30358**	**2.2228**	**.01025**	**.01535**	**35.946**	**.05200**	**.09058**	**1.4227**
Stddev	.0006	.00337	.0212	.00146	.00181	.137	.00021	.00150	.0281
%RSD	.02524	1.1094	.95310	14.293	11.799	.38053	.40776	1.6512	1.9766
#1	2.2175	.30596	2.2378	.01128	.01407	35.849	.05215	.08952	1.4028
#2	2.2167	.30120	2.2078	.00921	.01663	36.043	.05186	.09164	1.4426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00656**	**.84584**	**.63634**
Stddev	.00089	.01819	.02052
%RSD	13.513	2.1503	3.2245
#1	-.00593	.83298	.62183
#2	-.00718	.85870	.65085
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2078.6**	**1722.1**	**16450.**	**3884.8**
Stddev	5.4	6.1	93.	11.2
%RSD	.26010	.35631	.56662	.28857
#1	2074.8	1717.8	16516.	3892.7
#2	2082.4	1726.5	16384.	3876.9

Sample Name: 480-64678-A-4-A Acquired: 8/4/2014 11:14:54 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**110.11**	**.07083**	**.11396**	**.84872**	**.01638**	**437.05**	**.00076**	**.16037**
Stddev	.00052	.77	.00062	.00091	.00149	.00019	4.11	.00018	.00176
%RSD	17.929	.70123	.87556	.79818	.17607	1.1801	.94106	23.658	1.0961
#1	.00252	109.57	.07039	.11332	.84766	.01624	434.14	.00064	.15913
#2	.00325	110.66	.07126	.11461	.84977	.01651	439.96	.00089	.16161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.7794**	**.43041**	**160.97**	**8.1670**	**.12504**	**115.03**	**6.8610**	**.97266**	**2.4319**
Stddev	.0830	.00247	1.68	.0369	.00033	2.42	.1433	.00437	.0164
%RSD	2.1960	.57314	1.0459	.45154	.26633	2.1067	2.0888	.44952	.67253
#1	3.7207	.42867	159.78	8.1410	.12527	113.32	6.7597	.96957	2.4203
#2	3.8381	.43216	162.17	8.1931	.12480	116.75	6.9624	.97575	2.4435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.2164**	**.21082**	F **15.547**	**.01378**	**.00297**	**97.671**	**.04003**	**.65953**	**1.7961**
Stddev	.0127	.00167	.062	.00008	.00000	.651	.00061	.00107	.0389
%RSD	.39633	.79419	.39953	.59829	.15774	.66685	1.5193	.16188	2.1687
#1	3.2074	.20964	15.503	.01384	.00297	97.210	.03960	.65877	1.7685
#2	3.2254	.21201	15.591	.01372	.00298	98.131	.04046	.66028	1.8236
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00609**	**.31392**	**.44458**
Stddev	.00089	.00563	.01469
%RSD	14.634	1.7948	3.3042
#1	-.00672	.30993	.43419
#2	-.00546	.31790	.45496
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1830.0**	**1756.3**	**16654.**	**4106.7**
Stddev	6.2	6.3	201.	36.9
%RSD	.33705	.35605	1.2058	.89769
#1	1834.4	1760.7	16796.	4132.8
#2	1825.6	1751.8	16512.	4080.7

Sample Name: 480-64078-A-2-A@5 Acquired: 8/4/2014 11:17:47 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**3.0014**	**.00149**	**.37555**	**.03860**	**.00008**	**12.947**	**.03603**	**.00015**
Stddev	.00015	.0234	.00052	.00555	.00075	.00000	.037	.00070	.00005
%RSD	5.5279	.78045	35.181	1.4783	1.9415	5.0849	.28242	1.9379	34.775
#1	.00277	3.0180	.00112	.37947	.03807	.00007	12.921	.03653	.00012
#2	.00256	2.9849	.00186	.37162	.03913	.00008	12.973	.03554	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00970**	**.95849**	**1.3205**	**11.007**	**.00298**	**1.1099**	**.01969**	**.00101**	**7.6628**
Stddev	.00446	.00006	.0079	.020	.00035	.0685	.00429	.00022	.0156
%RSD	45.957	.00630	.59979	.18411	11.624	6.1677	21.798	22.135	.20396
#1	.00655	.95853	1.3261	10.992	.00322	1.0615	.01666	.00085	7.6518
#2	.01285	.95844	1.3149	11.021	.00273	1.1583	.02273	.00117	7.6739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03037**	**.01961**	**1.8444**	**.00034**	**.00439**	**.85693**	**.01336**	**.07008**	**.01709**
Stddev	.00014	.00075	.0407	.00102	.00030	.01376	.00036	.00021	.00116
%RSD	.45127	3.8339	2.2084	298.51	6.9204	1.6055	2.6857	.29882	6.7619
#1	.03046	.01908	1.8732	-.00038	.00418	.84720	.01310	.06993	.01628
#2	.03027	.02014	1.8156	.00106	.00461	.86665	.01361	.07023	.01791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00125**	**.00411**	**.31105**
Stddev	.00140	.00094	.00375
%RSD	111.36	22.909	1.2054
#1	-.00027	.00344	.30839
#2	-.00224	.00478	.31370
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2415.5**	**1772.2**	**17091.**	**3938.3**
Stddev	10.9	18.8	58.	15.0
%RSD	.45265	1.0620	.33712	.38216
#1	2407.8	1758.9	17132.	3948.9
#2	2423.2	1785.5	17050.	3927.6

Sample Name: 480-64676-E-2-A@2 Acquired: 8/4/2014 11:20:36 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.03557**	**-.00343**	**.12024**	**.04056**	**-.00009**	**89.283**	**.00026**	**.00134**
Stddev	.00046	.00371	.00012	.00174	.00020	.00002	.839	.00007	.00025
%RSD	93.162	10.423	3.5775	1.4491	.48414	20.296	.93982	26.417	18.541
#1	.00017	.03295	-.00334	.12147	.04070	-.00010	89.877	.00021	.00116
#2	.00083	.03819	-.00352	.11901	.04043	-.00007	88.690	.00031	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00013**	**.02640**	**4.1129**	**.02817**	**21.754**	**.20720**	**.98648**	**53.585**
Stddev	.00034	.00009	.00308	.0096	.00049	.112	.00267	.00344	.026
%RSD	128.42	66.215	11.676	.23415	1.7564	.51427	1.2874	.34904	.04802
#1	.00050	.00007	.02858	4.1197	.02782	21.833	.20909	.98404	53.603
#2	.00002	.00019	.02422	4.1061	.02852	21.675	.20532	.98891	53.566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.38486**	**.00017**	F **97.250**	**-.00095**	**.00141**	**1.8688**	**.00025**	**.57748**	**.00102**
Stddev	.00365	.00022	.456	.00115	.00073	.0218	.00067	.00596	.00001
%RSD	.94726	126.51	.46904	120.76	51.854	1.1677	262.38	1.0322	.91888
#1	.38744	.00033	96.927	-.00014	.00192	1.8842	-.00022	.58169	.00102
#2	.38228	.00002	97.572	-.00176	.00089	1.8534	.00073	.57326	.00103
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00164**	**.00224**	**.00193**
Stddev	.00080	.00003	.00067
%RSD	48.395	1.4298	34.434
#1	-.00221	.00221	.00240
#2	-.00108	.00226	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2244.7**	**1685.0**	**16283.**	**3890.7**
Stddev	5.4	5.7	44.	18.1
%RSD	.24067	.34099	.26954	.46530
#1	2248.5	1689.0	16252.	3877.9
#2	2240.8	1680.9	16314.	3903.5

Sample Name: 480-64676-E-3-A@2 Acquired: 8/4/2014 11:23:23 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.03662**	**-.00050**	**.11432**	**.03464**	**-.00009**	**96.350**	**.00028**	**.00141**
Stddev	.00015	.00177	.00067	.00174	.00006	.00005	.720	.00002	.00011
%RSD	17.967	4.8309	134.01	1.5252	.18111	51.075	.74698	8.6199	8.0763
#1	.00071	.03787	-.00003	.11309	.03468	-.00012	95.842	.00030	.00133
#2	.00091	.03537	-.00098	.11556	.03459	-.00006	96.859	.00026	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**-.00002**	**.02965**	**4.0995**	**.02472**	**23.100**	**.24827**	**1.0352**	**50.549**
Stddev	.00028	.00032	.00297	.0267	.00031	.070	.00465	.0007	.074
%RSD	46.120	2101.6	9.9998	.65217	1.2595	.30415	1.8728	.06664	.14619
#1	.00041	.00021	.03175	4.0806	.02450	23.149	.25155	1.0347	50.601
#2	.00081	-.00025	.02756	4.1184	.02495	23.050	.24498	1.0356	50.497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39535**	**.00052**	F **99.423**	**-.00062**	**.00175**	**2.4615**	**-.00015**	**.59735**	**.00125**
Stddev	.00321	.00037	.089	.00157	.00018	.0148	.00033	.00229	.00015
%RSD	.81147	71.557	.08996	251.11	10.309	.60017	226.08	.38392	12.020
#1	.39308	.00026	99.360	-.00173	.00187	2.4510	-.00038	.59573	.00136
#2	.39762	.00079	99.486	.00048	.00162	2.4719	.00009	.59897	.00115
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00092**	**.00188**	**.00121**
Stddev	.00015	.00047	.00011
%RSD	16.352	24.890	9.4482
#1	-.00081	.00155	.00113
#2	-.00102	.00221	.00130
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2245.0**	**1691.8**	**16250.**	**3849.9**
Stddev	.7	1.2	6.	30.4
%RSD	.02924	.07015	.03790	.78977
#1	2244.5	1692.7	16255.	3871.4
#2	2245.4	1691.0	16246.	3828.4

Sample Name: 480-64676-E-4-A@2 Acquired: 8/4/2014 11:26:10 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.04208**	**-.00193**	**.12126**	**.03442**	**-.00009**	**96.041**	**.00022**	**.00180**
Stddev	.00006	.00864	.00219	.00121	.00010	.00001	.573	.00018	.00004
%RSD	159.00	20.542	113.50	.99718	.29562	14.058	.59712	82.525	2.0447
#1	-.00008	.04819	-.00038	.12041	.03435	-.00010	96.446	.00009	.00182
#2	.00000	.03597	-.00348	.12212	.03449	-.00008	95.635	.00034	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00020**	**.02475**	**4.0728**	**.02390**	**22.588**	**.21982**	**1.0192**	**49.187**
Stddev	.00042	.00023	.00100	.0060	.00056	.125	.00009	.0021	.027
%RSD	189.71	116.78	4.0580	.14722	2.3474	.55420	.04165	.20388	.05507
#1	.00052	.00003	.02404	4.0770	.02351	22.677	.21976	1.0177	49.168
#2	-.00008	.00036	.02546	4.0685	.02430	22.500	.21988	1.0207	49.206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43259**	**.00015**	F **97.712**	**-.00014**	**.00338**	**2.4695**	**.00061**	**.59018**	**.00140**
Stddev	.00005	.00008	.335	.00049	.00167	.0153	.00046	.00243	.00034
%RSD	.01215	57.337	.34294	346.72	49.367	.61978	75.286	.41149	24.268
#1	.43256	.00009	97.475	-.00049	.00456	2.4804	.00029	.58846	.00163
#2	.43263	.00021	97.949	.00021	.00220	2.4587	.00094	.59189	.00116
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00054**	**.00229**	**.00080**
Stddev	.00093	.00038	.00027
%RSD	172.59	16.617	34.184
#1	-.00120	.00202	.00061
#2	.00012	.00256	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2260.0**	**1706.8**	**16367.**	**3808.3**
Stddev	3.0	8.6	18.	55.3
%RSD	.13202	.50191	.11236	1.4514
#1	2262.1	1712.9	16354.	3769.2
#2	2257.9	1700.8	16380.	3847.4

Sample Name: 480-64563-G-2-A Acquired: 8/4/2014 11:28:57 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**-.12120**	**.01892**	F **82.203**	**.02864**	**-.00093**	**532.67**	**.00076**	**-.00371**
Stddev	.00014	.00192	.00049	.363	.00022	.00006	1.88	.00002	.00008
%RSD	13.754	1.5802	2.5705	.44219	.78255	6.0933	.35310	3.0097	2.0876
#1	.00114	-.12255	.01926	81.946	.02848	-.00089	531.34	.00074	-.00377
#2	.00094	-.11984	.01857	82.460	.02880	-.00097	534.00	.00077	-.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				19.000					
Low Limit				-.02000					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00300**	**.00262**	**228.12**	**1.2516**	**10.685**	**.03236**	F **21.420**	**355.11**
Stddev	.00043	.00031	.00121	1.64	.0106	.034	.00004	.022	3.32
%RSD	737.24	10.329	46.118	.71965	.84683	.32248	.12812	.10157	.93374
#1	-.00025	.00278	.00348	226.96	1.2441	10.661	.03238	21.405	352.77
#2	.00036	.00322	.00177	229.28	1.2591	10.710	.03233	21.436	357.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								9.0000	
Low Limit								-.01000	

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	F **-.01529**	F **707.72**	**-.01607**	**.02664**	**3.4472**	**.00173**	**1.3988**	**.01859**
Stddev	.00014	.00016	1.04	.00027	.00133	.0534	.00039	.0124	.00003
%RSD	3.4065	1.0652	.14659	1.6992	5.0019	1.5502	22.786	.88498	.18559
#1	.00413	-.01518	706.99	-.01588	.02570	3.4094	.00145	1.3900	.01857
#2	.00393	-.01541	708.45	-.01627	.02759	3.4849	.00200	1.4075	.01862
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		107.00	9.0000						
Low Limit		-.01000	-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00098**	**.12219**	**.00240**
Stddev	.00049	.00013	.00043
%RSD	50.022	.10737	18.020
#1	.00063	.12210	.00271
#2	.00132	.12228	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1849.6**	**1521.8**	**14704.**	**3665.7**
Stddev	4.8	8.3	105.	20.4
%RSD	.25788	.54544	.71717	.55691
#1	1853.0	1527.7	14779.	3680.2
#2	1846.2	1515.9	14630.	3651.3

Sample Name: CCV Acquired: 8/4/2014 11:31:58 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50326	25.271	.48060	F .60287	.49275	.49360	23.963	.48386	.49354	.48147	.46884	24.488
Stddev	.00411	.023	.00000	.01555	.00136	.00145	.025	.00182	.00517	.00297	.00080	.010
%RSD	.81719	.09193	.00038	2.5798	.27595	.29387	.10638	.37714	1.0473	.61731	.16997	.04212
#1	.50617	25.287	.48061	.61386	.49371	.49257	23.981	.48257	.48988	.48357	.46940	24.496
#2	.50035	25.254	.48060	.59187	.49179	.49462	23.945	.48515	.49719	.47937	.46827	24.481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.50000								
Range				10.000%								

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.063	.49649	24.660	.48763	.49578	24.168	.50620	.50186	24.100	.49502	.48605	24.861
Stddev	.017	.00163	.178	.00258	.00181	.009	.00270	.00152	.012	.00351	.01067	.078
%RSD	.07055	.32847	.72129	.52864	.36545	.03672	.53396	.30331	.04914	.70970	2.1950	.31442
#1	24.075	.49764	24.786	.48945	.49450	24.162	.50429	.50078	24.092	.49253	.47851	24.916
#2	24.051	.49534	24.534	.48581	.49707	24.175	.50811	.50293	24.109	.49750	.49360	24.805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51227	.48614	.48683	.51399	.48591	.50068
Stddev	.00457	.00075	.00281	.00387	.00261	.00046
%RSD	.89128	.15393	.57767	.75221	.53688	.09275
#1	.50905	.48667	.48881	.51125	.48776	.50101
#2	.51550	.48561	.48484	.51672	.48407	.50035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.6	1749.9	16654.	3865.5
Stddev	7.1	6.9	74.	3.7
%RSD	.31031	.39162	.44392	.09626
#1	2278.6	1754.8	16602.	3862.8
#2	2268.6	1745.1	16706.	3868.1

Sample Name: CCB Acquired: 8/4/2014 11:34:41 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00186**	**-.00295**	F **.05747**	**.00005**	**.00002**	**.01532**	**.00010**	**.00003**	**.00025**	**-.00055**	**.00431**
Stddev	.00019	.00623	.00199	.00477	.00001	.00005	.00549	.00008	.00018	.00019	.00010	.00028
%RSD	49.751	335.77	67.328	8.3069	21.787	242.53	35.852	79.263	695.93	75.107	17.778	6.5642
#1	.00051	-.00626	-.00155	.06085	.00006	.00006	.01144	.00004	.00016	.00012	-.00048	.00451
#2	.00024	.00255	-.00436	.05410	.00004	-.00002	.01921	.00015	-.00010	.00038	-.00062	.00411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.02000								
Low Limit				-.02000								

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03681**	**.00049**	**-.00111**	**.00013**	**.00102**	**.01447**	**-.00032**	**-.00079**	**.02583**	**.00061**	**.00343**	**.01689**
Stddev	.00372	.00006	.00454	.00003	.00001	.00259	.00027	.00006	.00035	.00048	.00118	.01942
%RSD	10.113	13.060	409.96	23.666	1.2279	17.933	85.163	8.1663	1.3467	78.774	34.309	115.01
#1	.03944	.00054	.00210	.00011	.00101	.01263	-.00013	-.00074	.02558	.00095	.00260	.00315
#2	.03418	.00045	-.00432	.00015	.00103	.01630	-.00051	-.00084	.02607	.00027	.00426	.03062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00012**	**-.00047**	**-.00050**	**.00032**	**-.00020**
Stddev	.00058	.00001	.00002	.00059	.00014	.00036
%RSD	469.94	7.9670	4.3273	118.17	43.399	175.52
#1	.00054	.00012	-.00049	-.00091	.00022	.00005
#2	-.00029	.00013	-.00046	-.00008	.00042	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2561.6**	**1821.6**	**17376.**	**3912.4**
Stddev	.9	11.6	165.	3.2
%RSD	.03432	.63901	.95059	.08244
#1	2562.2	1829.8	17492.	3914.7
#2	2561.0	1813.3	17259.	3910.1

Sample Name: CCVL-2222402 Acquired: 8/4/2014 11:37:35 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00641**	**.18989**	**.01361**	F **.05609**	**.00219**	**.00205**	**.49752**	**.00216**	**.00382**	**.00449**	**.00783**	**.05381**
Stddev	.00031	.00664	.00071	.00209	.00001	.00000	.00427	.00001	.00014	.00053	.00020	.00048
%RSD	4.7650	3.4980	5.2364	3.7290	.60357	.11552	.85776	.34779	3.6943	11.831	2.5864	.89245
#1	.00619	.18519	.01411	.05757	.00218	.00205	.49451	.00215	.00372	.00412	.00768	.05415
#2	.00662	.19458	.01310	.05462	.00220	.00204	.50054	.00216	.00392	.00487	.00797	.05347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.02000								
Range				50.000%								

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52176**	**.02949**	**.20645**	**.00335**	**.01030**	**.98314**	**.00951**	**.00972**	**.21715**	**.01836**	**.02810**	**.49251**
Stddev	.00134	.00018	.00947	.00006	.00040	.00035	.00021	.00118	.00225	.00045	.00029	.00682
%RSD	.25704	.61439	4.5861	1.8768	3.8881	.03526	2.2317	12.141	1.0342	2.4498	1.0231	1.3837
#1	.52081	.02936	.21315	.00331	.01002	.98289	.00936	.01056	.21556	.01868	.02790	.48769
#2	.52271	.02962	.19976	.00339	.01059	.98338	.00966	.00889	.21873	.01805	.02830	.49733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00936**	**.00491**	**.00453**	**.01974**	**.00454**	W **.01337**
Stddev	.00023	.00006	.00010	.00013	.00012	.00033
%RSD	2.5030	1.3176	2.1620	.65619	2.6850	2.4468
#1	.00952	.00486	.00446	.01965	.00446	.01360
#2	.00919	.00495	.00460	.01983	.00463	.01314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value						.01000
Range						30.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2570.0**	**1831.3**	**17598.**	**3935.5**
Stddev	11.1	9.6	56.	19.2
%RSD	.43192	.52227	.31794	.48695
#1	2577.8	1838.1	17638.	3922.0
#2	2562.1	1824.6	17559.	3949.1

Sample Name: CCVL-2222402 Acquired: 8/4/2014 11:47:13 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00604**	**.20387**	**.01189**	F **.03646**	**.00206**	**.00201**	**.47486**	**.00207**	**.00358**	**.00393**	**.00763**	**.04986**
Stddev	.00060	.00762	.00086	.00145	.00001	.00001	.00053	.00006	.00010	.00019	.00024	.00036
%RSD	9.9700	3.7374	7.2170	3.9804	.28879	.56136	.11195	2.8348	2.6609	4.7762	3.2040	.72116
#1	.00561	.19849	.01250	.03749	.00206	.00200	.47524	.00211	.00351	.00380	.00780	.05012
#2	.00646	.20926	.01128	.03544	.00207	.00202	.47449	.00203	.00365	.00407	.00746	.04961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.02000								
Range				50.000%								

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48395**	**.02962**	**.19990**	**.00324**	**.01024**	**.96373**	**.00935**	**.00964**	**.21060**	**.02023**	**.02611**	**.49041**
Stddev	.00326	.00057	.00097	.00008	.00009	.00109	.00034	.00158	.00518	.00107	.00006	.00349
%RSD	.67418	1.9268	.48598	2.5104	.85699	.11361	3.6416	16.438	2.4581	5.2745	.23797	.71095
#1	.48626	.02921	.20058	.00330	.01017	.96295	.00959	.01076	.21426	.02098	.02607	.48794
#2	.48164	.03002	.19921	.00318	.01030	.96450	.00911	.00852	.20694	.01947	.02616	.49287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.00483**	**.00460**	**.01966**	**.00536**	**.00878**
Stddev	.00003	.00003	.00048	.00023	.00023	.00068
%RSD	.28746	.69291	10.358	1.1940	4.3084	7.7801
#1	.00912	.00480	.00493	.01949	.00520	.00830
#2	.00908	.00485	.00426	.01983	.00552	.00926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2565.2**	**1815.7**	**17799.**	**4049.6**
Stddev	2.2	.8	82.	11.2
%RSD	.08656	.04372	.45823	.27636
#1	2566.8	1815.1	17857.	4041.7
#2	2563.6	1816.2	17741.	4057.5

Sample Name: 480-64563-G-2-A@2 Acquired: 8/4/2014 11:50:04 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**-.04378**	**.00558**	F **41.384**	**.01478**	**-.00048**	**262.05**	**.00050**	**-.00085**
Stddev	.00043	.00986	.00178	.155	.00008	.00007	4.78	.00003	.00001
%RSD	41.328	22.511	31.934	.37431	.52838	14.886	1.8224	5.3664	1.6928
#1	.00134	-.03681	.00684	41.493	.01473	-.00043	265.43	.00048	-.00086
#2	.00073	-.05075	.00432	41.274	.01484	-.00053	258.68	.00052	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				19.000					
Low Limit				-.02000					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00136**	**.00313**	**109.40**	**.60882**	**5.4868**	**.01718**	F **11.005**	**172.67**
Stddev	.00075	.00015	.00231	.11	.00245	.1326	.00025	.053	.00
%RSD	587.43	11.326	73.877	.10486	.40201	2.4167	1.4524	.47922	.00060
#1	-.00066	.00146	.00477	109.32	.60709	5.3930	.01700	11.043	172.67
#2	.00040	.00125	.00150	109.48	.61055	5.5805	.01736	10.968	172.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								9.0000	
Low Limit								-.01000	

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	**-.00451**	F **364.00**	**-.00859**	**.01313**	**1.7048**	**.00082**	**.68150**	**.00922**
Stddev	.00024	.00063	1.86	.00024	.00289	.0334	.00043	.00176	.00034
%RSD	9.3174	13.937	.51182	2.7838	22.019	1.9612	52.368	.25802	3.7043
#1	.00269	-.00496	365.32	-.00842	.01108	1.7284	.00113	.68025	.00898
#2	.00236	-.00407	362.68	-.00876	.01517	1.6811	.00052	.68274	.00947
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00067**	**.06189**	**.07658**
Stddev	.00039	.00025	.00050
%RSD	57.921	.40899	.65565
#1	.00040	.06172	.07623
#2	.00095	.06207	.07694
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2003.4**	**1596.7**	**15216.**	**3843.4**
Stddev	5.4	6.3	79.	32.4
%RSD	.27108	.39530	.51652	.84172
#1	1999.6	1592.2	15272.	3820.5
#2	2007.3	1601.2	15161.	3866.2

Sample Name: 480-64591-D-1-A Acquired: 8/4/2014 11:53:03 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.72021**	**-.00043**	**.12126**	**.18027**	**.00010**	**31.613**	**.00023**	**-.00001**
Stddev	.00014	.02484	.00022	.00804	.00118	.00004	.751	.00010	.00000
%RSD	33.186	3.4483	51.489	6.6329	.65194	40.244	2.3767	42.258	19.574
#1	.00032	.73777	-.00028	.12695	.18110	.00013	32.145	.00030	-.00001
#2	.00052	.70265	-.00059	.11558	.17944	.00008	31.082	.00016	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00026**	**.36723**	**1.1308**	**.01579**	**22.752**	**.00358**	**.00372**	**8.7094**
Stddev	.00014	.00002	.00330	.0245	.00002	.054	.00006	.00001	.2178
%RSD	15.903	9.3871	.89891	2.1666	.15798	.23943	1.6432	.20159	2.5011
#1	.00081	.00024	.36957	1.1481	.01577	22.791	.00354	.00371	8.8634
#2	.00101	.00027	.36490	1.1135	.01581	22.714	.00363	.00372	8.5554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00403**	**5.3547**	**-.00014**	**.00425**	**9.1585**	**.00012**	**.60835**	**.01890**
Stddev	.00060	.00100	.0197	.00032	.00308	.0655	.00016	.01456	.00001
%RSD	3780.1	24.810	.36864	226.48	72.545	.71482	132.35	2.3929	.04522
#1	-.00044	.00473	5.3686	.00009	.00643	9.2048	.00024	.61864	.01890
#2	.00041	.00332	5.3407	-.00037	.00207	9.1123	.00001	.59806	.01891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00149**	**.00147**	**.00247**
Stddev	.00054	.00009	.00062
%RSD	36.227	6.4507	25.032
#1	-.00187	.00140	.00203
#2	-.00111	.00153	.00290
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2426.6**	**1807.3**	**17401.**	**4042.7**
Stddev	2.7	1.4	32.	83.2
%RSD	.11088	.07920	.18633	2.0575
#1	2428.5	1808.3	17379.	3983.9
#2	2424.7	1806.3	17424.	4101.5

Sample Name: 480-64591-D-4-A Acquired: 8/4/2014 11:55:51 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.08350**	**-.00132**	**.05792**	**.10384**	**-.00001**	**57.278**	**.00018**	**-.00016**
Stddev	.00001	.01780	.00031	.00056	.00064	.00000	.428	.00007	.00013
%RSD	144.89	21.319	23.225	.96572	.61343	9.2921	.74720	37.701	84.452
#1	.00002	.09609	-.00154	.05752	.10429	-.00001	57.580	.00013	-.00025
#2	.00000	.07091	-.00111	.05831	.10339	-.00001	56.975	.00023	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.00024**	**.05675**	**1.3641**	**.01197**	**7.7958**	**.00401**	**.00159**	**7.4248**
Stddev	.00029	.00012	.00073	.0112	.00045	.0510	.00004	.00063	.0855
%RSD	60.563	51.028	1.2884	.82232	3.7257	.65450	.89165	39.627	1.1519
#1	.00027	-.00015	.05623	1.3721	.01228	7.8318	.00398	.00114	7.4852
#2	.00068	-.00032	.05726	1.3562	.01165	7.7597	.00403	.00203	7.3643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00290**	**4.8619**	**.00011**	**.00037**	**9.2831**	**-.00001**	**.21356**	**.00129**
Stddev	.00029	.00018	.0252	.00010	.00235	.0136	.00030	.00235	.00027
%RSD	138.27	6.3567	.51761	88.325	627.45	.14615	2552.0	1.1015	20.752
#1	.00000	.00303	4.8441	.00004	-.00129	9.2735	.00020	.21523	.00110
#2	.00042	.00276	4.8797	.00018	.00203	9.2927	-.00023	.21190	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00017**	**.00036**	**.00236**
Stddev	.00056	.00030	.00091
%RSD	332.49	82.925	38.479
#1	.00056	.00057	.00300
#2	-.00023	.00015	.00172
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2422.6**	**1785.1**	**17276.**	**4057.9**
Stddev	1.4	4.6	19.	29.3
%RSD	.05587	.25727	.11286	.72207
#1	2423.5	1781.9	17262.	4037.2
#2	2421.6	1788.4	17289.	4078.6

Sample Name: 480-64561-E-2-A@5 Acquired: 8/4/2014 11:58:40 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.54638**	**.00357**	**2.2571**	**.21854**	**.00005**	**16.551**	**.00020**	**.00742**
Stddev	.00033	.03195	.00198	.0079	.00280	.00012	.377	.00008	.00049
%RSD	62.202	5.8483	55.456	.35101	1.2807	237.21	2.2757	41.019	6.5536
#1	.00029	.56898	.00497	2.2515	.21656	-.00003	16.817	.00014	.00776
#2	.00076	.52379	.00217	2.2627	.22052	.00014	16.285	.00026	.00708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01139**	**.00195**	**.53091**	**146.71**	**.01230**	**24.666**	**.05502**	**.00087**	**339.21**
Stddev	.00007	.00066	.00331	2.57	.00057	.185	.00029	.00005	6.08
%RSD	.64716	33.834	.62378	1.7498	4.6269	.74917	.52429	5.4082	1.7935
#1	.01134	.00148	.52857	148.53	.01190	24.535	.05482	.00083	343.51
#2	.01145	.00242	.53325	144.90	.01271	24.797	.05522	.00090	334.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03102**	**.00164**	**3.9470**	**.00081**	**.00331**	**4.4406**	**.00175**	**.23200**	**.01168**
Stddev	.00034	.00120	.0040	.00087	.00020	.0248	.00014	.00416	.00021
%RSD	1.0959	73.339	.10193	107.51	6.0815	.55917	7.8086	1.7939	1.8261
#1	.03126	.00248	3.9442	.00142	.00345	4.4231	.00185	.23495	.01153
#2	.03078	.00079	3.9498	.00019	.00317	4.4582	.00166	.22906	.01184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00178**	**.00286**	**.01619**
Stddev	.00071	.00022	.00009
%RSD	39.846	7.8183	.53712
#1	-.00228	.00270	.01625
#2	-.00128	.00302	.01612
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2040.4**	**1659.0**	**15147.**	**3769.2**
Stddev	1.9	5.0	112.	65.2
%RSD	.09308	.30263	.74074	1.7309
#1	2041.7	1662.5	15226.	3723.1
#2	2039.1	1655.4	15067.	3815.3

Sample Name: 480-64551-C-3-A@5 Acquired: 8/4/2014 12:01:33 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.06227**	**.03123**	**4.0197**	**.04729**	**.00001**	**8.4739**	**.00021**	**.01166**
Stddev	.00084	.01308	.00043	.0146	.00036	.00002	.0934	.00004	.00031
%RSD	199.75	21.002	1.3612	.36431	.75995	417.00	1.1017	19.807	2.6854
#1	-.00101	.07152	.03153	4.0301	.04704	.00002	8.4079	.00024	.01189
#2	.00017	.05302	.03092	4.0094	.04755	-.00001	8.5399	.00018	.01144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03374**	**-.00023**	**4.7199**	**118.48**	**.00239**	**15.766**	**.02601**	**.00119**	**472.78**
Stddev	.00062	.00015	.0482	.07	.00068	.178	.00014	.00020	.64
%RSD	1.8375	66.319	1.0213	.05658	28.497	1.1275	.55073	17.151	.13616
#1	.03417	-.00034	4.6858	118.44	.00191	15.640	.02591	.00133	472.33
#2	.03330	-.00012	4.7540	118.53	.00288	15.891	.02611	.00104	473.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09335**	**.00171**	F **11.250**	**.00108**	**.00418**	**2.7368**	**.00572**	**.11151**	**.06684**
Stddev	.00103	.00020	.006	.00103	.00091	.0456	.00030	.00258	.00127
%RSD	1.1013	11.440	.05489	94.680	21.715	1.6657	5.2501	2.3101	1.8985
#1	.09407	.00184	11.246	.00036	.00482	2.7046	.00551	.11333	.06594
#2	.09262	.00157	11.255	.00181	.00353	2.7690	.00593	.10969	.06774
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00213**	**.03973**	**.00193**
Stddev	.00058	.00054	.00045
%RSD	27.047	1.3695	23.186
#1	-.00254	.03934	.00225
#2	-.00172	.04011	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2006.4**	**1623.6**	**14988.**	**3813.3**
Stddev	6.5	3.9	91.	9.5
%RSD	.32602	.24087	.60384	.24940
#1	2001.7	1620.8	15052.	3820.0
#2	2011.0	1626.4	14924.	3806.6

Sample Name: BLANK Acquired: 8/4/2014 12:04:32 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.37566**	F **-20.854**	**24.410**	F **309.85**	F **-.19926**	F **-.10088**	F **-3.6544**	F **10.210**	F **-.79371**
Stddev	.01241	1.839	23.450	257.66	.00444	.01228	1.3592	9.355	.09471
%RSD	3.3038	8.8194	96.065	83.158	2.2264	12.177	37.194	91.624	11.932
#1	-.36689	-22.154	7.8287	127.65	-.20239	-.10957	-2.6933	3.5951	-.72675
#2	-.38444	-19.553	40.992	492.04	-.19612	-.09219	-4.6155	16.825	-.86068
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2.0000	890.00		19.000	9.0000	23.000	900.00	4.0000	18.000
Low Limit	-.00600	-.20000		-.02000	-.00200	-.00200	-.50000	-.00200	-.00400

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-1.7742**	F **-1.4904**	F **-.87825**	F **-44.972**	**.38635**	**10.683**	F **-.63727**	F **32.620**	F **-47.273**
Stddev	.2608	.0112	.70647	.775	.21759	2.238	.10511	29.361	8.892
%RSD	14.700	.75019	80.440	1.7242	56.319	20.948	16.494	90.009	18.810
#1	-1.5898	-1.4983	-1.3778	-44.424	.23249	12.266	-.71160	11.859	-40.985
#2	-1.9586	-1.4825	-.37870	-45.520	.54020	9.1008	-.56295	53.382	-53.561
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	36.000	24.000	690.00	540.00			44.000	9.0000	4320.0
Low Limit	-.00400	-.01000	-.05000	-.50000			-.00300	-.01000	-1.0000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**452.69**	**.42621**	**.67961**	F **47.643**	**2.5465**	F **-1.5915**	F **-190.30**	F **4.7097**	F **-.02570**
Stddev	17.77	.11385	.01242	42.906	1.3462	11.854	40.16	.0339	.00194
%RSD	3.9263	26.713	1.8276	90.057	52.866	744.87	21.101	.71929	7.5384
#1	440.12	.34570	.68840	17.304	3.4984	6.7909	-218.70	4.6857	-.02706
#2	465.26	.50671	.67083	77.983	1.5945	-9.9738	-161.91	4.7336	-.02433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000		52.000	867.00	4.0000	9.0000
Low Limit				-.50000		-.02500	-.50000	-.01000	-.00500

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**1.2915**	F **-13.875**	F **-.47720**	F **-2.4627**
Stddev	.4593	.310	.20207	2.7056
%RSD	35.564	2.2325	42.346	109.86
#1	1.6163	-13.656	-.62008	-4.3759
#2	.96671	-14.094	-.33431	-.54959
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		35.000	45.000	17.000
Low Limit		-.02000	-.00500	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.4940**	**.37833**	**-10.637**	**-8.7477**
Stddev	.1923	.32103	2.316	.1993
%RSD	7.7118	84.853	21.770	2.2780
#1	2.6300	.60533	-9.0000	-8.8886
#2	2.3580	.15133	-12.275	-8.6068

Sample Name: LCSSRM 480-195490/2- Acquired: 8/4/2014 12:07:37 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41099**	**78.375**	**1.3556**	**1.1332**	**1.8170**	**.66411**	**72.309**	**1.0024**	F **1.3641**
Stddev	.00158	.784	.0009	.0005	.0044	.00581	.380	.0002	.0019
%RSD	.38551	1.0004	.06747	.04591	.24297	.87469	.52619	.01899	.14014
#1	.40987	78.929	1.3550	1.1328	1.8201	.66822	72.578	1.0026	1.3655
#2	.41211	77.820	1.3563	1.1336	1.8139	.66000	72.040	1.0023	1.3627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									1.2500
Low Limit									.73900

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1684**	**.82466**	**141.50**	**25.760**	**.06930**	**33.731**	**4.5650**	**.47471**	**2.7269**
Stddev	.0041	.00268	1.72	.121	.00019	.064	.0199	.00076	.0249
%RSD	.35284	.32440	1.2126	.46864	.26774	.18897	.43643	.16047	.91478
#1	1.1713	.82655	142.71	25.846	.06943	33.776	4.5791	.47525	2.7445
#2	1.1655	.82277	140.29	25.675	.06917	33.686	4.5509	.47417	2.7092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.77918**	F **1.2683**	**1.3605**	**.93510**	**1.7615**	**18.522**	**1.4054**	**.59741**	**3.4902**
Stddev	.00098	.0043	.0070	.00397	.0023	.138	.0002	.00073	.0041
%RSD	.12588	.34245	.51619	.42500	.13034	.74649	.01200	.12282	.11863
#1	.77987	1.2714	1.3555	.93791	1.7599	18.619	1.4055	.59792	3.4932
#2	.77849	1.2653	1.3654	.93229	1.7631	18.424	1.4053	.59689	3.4873
Check ?	Chk Fail	Chk Fail	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit	.73200	1.2200							
Low Limit	.39300	.66600							

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **1.6434**	**.71444**	**2.5993**
Stddev	.0064	.00013	.0134
%RSD	.38753	.01764	.51466
#1	1.6479	.71435	2.6088
#2	1.6389	.71453	2.5899
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	1.5400		
Low Limit	.78200		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2212.0**	**2053.9**	**19576.**	**4326.7**
Stddev	25.9	28.0	204.	2.6
%RSD	1.1718	1.3613	1.0407	.06049
#1	2230.4	2073.7	19720.	4328.6
#2	2193.7	2034.2	19432.	4324.9

Sample Name: 480-64500-7RAW Acquired: 8/4/2014 12:10:19 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00369**	**-.00001**	**.09414**	**.14298**	**-.00003**	**54.470**	**.00048**	**.00078**
Stddev	.00041	.00442	.00030	.00067	.00063	.00004	.516	.00063	.00082
%RSD	121.83	119.60	2625.8	.71110	.44004	151.30	.94780	131.10	104.79
#1	-.00063	.00682	-.00023	.09367	.14253	.00000	54.835	.00003	.00020
#2	-.00005	.00057	.00020	.09461	.14342	-.00006	54.105	.00092	.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00033**	**.06050**	**1.4082**	**.00412**	**32.644**	**.06383**	**.00109**	**12.089**
Stddev	.00035	.00019	.00373	.0069	.00113	.057	.00112	.00024	.014
%RSD	323.44	59.378	6.1591	.48965	27.476	.17554	1.7582	21.643	.11322
#1	.00036	-.00046	.06313	1.4033	.00332	32.684	.06303	.00093	12.098
#2	-.00014	-.00019	.05786	1.4130	.00493	32.603	.06462	.00126	12.079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**.00278**	F **11.917**	**.00045**	**.00299**	**6.4404**	**.00022**	**.94152**	**.00038**
Stddev	.00065	.00062	.037	.00113	.00060	.0062	.00094	.00058	.00042
%RSD	66.217	22.440	.31450	253.16	20.018	.09655	421.41	.06191	112.06
#1	.00052	.00322	11.944	-.00035	.00256	6.4448	-.00044	.94193	.00067
#2	.00144	.00234	11.891	.00124	.00341	6.4360	.00089	.94111	.00008
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00249**	**-.00057**	**.00114**
Stddev	.00119	.00011	.00024
%RSD	47.913	19.579	21.087
#1	.00164	-.00049	.00131
#2	.00333	-.00065	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2738.2**	**2068.4**	**19691.**	**4471.7**
Stddev	20.2	16.5	86.	28.7
%RSD	.73875	.79596	.43885	.64216
#1	2752.5	2080.1	19752.	4451.4
#2	2723.9	2056.8	19630.	4492.0

Sample Name: BLANK Acquired: 8/4/2014 12:13:10 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.16015**	F **-12.909**	**6.0207**	F **30.663**	F **-.18372**	F **-.09417**	F **-1.2449**	**1.9020**	F **-.71539**
Stddev	.45594	4.515	1.1524	4.747	.00547	.03207	.3156	.3262	.00245
%RSD	284.70	34.972	19.140	15.481	2.9794	34.056	25.348	17.152	.34190
#1	.16225	-16.101	6.8356	34.020	-.18759	-.11685	-1.0218	2.1327	-.71712
#2	-.48254	-9.7166	5.2059	27.306	-.17985	-.07149	-1.4681	1.6713	-.71366
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2.0000	890.00		19.000	9.0000	23.000	900.00		18.000
Low Limit	-.00600	-.20000		-.02000	-.00200	-.00200	-.50000		-.00400

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.66842**	F **-1.9126**	F **-.70490**	F **-15.866**	**.11181**	**5.3949**	F **-.48663**	**4.5112**	F **-5.7200**
Stddev	.10719	.4521	.19313	3.048	.14371	4.4267	.02180	.4855	3.7042
%RSD	16.037	23.636	27.398	19.213	128.53	82.054	4.4802	10.761	64.758
#1	-.74421	-2.2323	-.84146	-18.022	.21343	8.5251	-.47121	4.8545	-8.3393
#2	-.59262	-1.5930	-.56834	-13.710	.01019	2.2647	-.50204	4.1679	-3.1008
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit	36.000	24.000	690.00	540.00			44.000		4320.0
Low Limit	-.00400	-.01000	-.05000	-.50000			-.00300		-1.0000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**371.26**	**.01552**	**1.3238**	F **9.8630**	**1.5431**	**1.1972**	F **-29.732**	F **4.4191**	F **-.00815**
Stddev	152.35	.09868	.9575	1.2918	1.1261	.1217	6.419	.2625	.01695
%RSD	41.035	635.86	72.328	13.097	72.975	10.168	21.590	5.9391	207.97
#1	478.99	-.05426	.64674	8.9496	.74684	1.2833	-34.271	4.2335	-.02013
#2	263.54	.08529	2.0008	10.776	2.3394	1.1111	-25.193	4.6047	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				9.0000			867.00	4.0000	9.0000
Low Limit				-.50000			-.50000	-.01000	-.00500

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.41191**	F **-14.204**	F **-.33078**	F **-.96088**
Stddev	.25110	.610	.04929	.71242
%RSD	60.960	4.2979	14.903	74.142
#1	.58946	-13.772	-.36563	-1.4646
#2	.23435	-14.635	-.29592	-.45712
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		35.000	45.000	17.000
Low Limit		-.02000	-.00500	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.4518**	**1.2033**	**-13.162**	**-10.568**
Stddev	.1604	.1678	2.139	3.246
%RSD	6.5410	13.946	16.251	30.717
#1	2.5652	1.0847	-11.650	-8.2727
#2	2.3384	1.3220	-14.675	-12.864

Sample Name: CCV Acquired: 8/4/2014 12:16:09 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50661**	**25.622**	**.46104**	**.47095**	**.46676**	**.50062**	**25.826**	**.47400**	**.49308**	**.50420**	F **.44354**	**25.437**
Stddev	.00057	.276	.00037	.00131	.00587	.00514	.527	.00049	.00105	.00388	.00117	.382
%RSD	.11347	1.0757	.08000	.27909	1.2567	1.0259	2.0404	.10441	.21236	.76902	.26449	1.5021
#1	.50702	25.817	.46130	.47188	.47091	.50425	26.199	.47435	.49382	.50694	.44271	25.707
#2	.50621	25.427	.46078	.47002	.46261	.49699	25.453	.47365	.49234	.50146	.44437	25.167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.50000	
Range											-10.000%	

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.016**	**.47642**	**25.723**	**.50403**	**.48011**	**23.933**	**.51201**	**.50454**	**23.163**	**.46988**	**.46029**	**26.181**
Stddev	.218	.00165	.133	.00369	.00268	.217	.00258	.00290	.036	.00205	.00099	.225
%RSD	.90660	.34697	.51613	.73279	.55913	.90577	.50417	.57458	.15343	.43631	.21443	.86117
#1	24.170	.47525	25.817	.50664	.48201	24.086	.51384	.50659	23.188	.47133	.46099	26.341
#2	23.862	.47759	25.629	.50142	.47822	23.780	.51019	.50249	23.137	.46843	.45959	26.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52150**	**.47242**	**.49042**	**.52036**	**.49559**	F **.56868**
Stddev	.00549	.00347	.00204	.00460	.00187	.00505
%RSD	1.0531	.73347	.41664	.88382	.37781	.88842
#1	.52538	.47487	.49186	.52361	.49691	.57225
#2	.51761	.46997	.48897	.51710	.49426	.56510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.50000
Range						10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2453.4**	**1935.6**	**18263.**	**3905.6**
Stddev	25.7	21.5	117.	58.3
%RSD	1.0483	1.1111	.64231	1.4928
#1	2471.5	1950.8	18346.	3864.3
#2	2435.2	1920.4	18180.	3946.8

Sample Name: CCB Acquired: 8/4/2014 12:18:53 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.01121**	**-.00170**	**.00614**	**.00003**	**.00001**	**-.00098**	**.00018**	**-.00017**	**.00036**	**-.00081**	**.00312**	**.02297**
Stddev	.00034	.00121	.00080	.00057	.00002	.00004	.00492	.00016	.00014	.00010	.00022	.00245	.01620
%RSD	205.79	10.751	47.383	9.2271	63.750	299.73	501.54	85.595	83.269	28.026	27.014	78.574	70.519
#1	-.00041	-.01207	-.00113	.00654	.00004	.00004	.00250	.00007	-.00007	.00029	-.00097	.00485	.01151
#2	.00008	-.01036	-.00226	.00574	.00001	-.00002	-.00446	.00029	-.00027	.00043	-.00066	.00139	.03442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**-.00161**	**.00008**	**.00019**	**.00558**	**-.00026**	**-.00136**	**.00072**	**.00083**	**.00314**	**.00721**	**.00000**	**.00005**
Stddev	.00038	.00077	.00001	.00007	.00001	.00028	.00099	.00160	.00018	.00147	.00467	.00021	.00005
%RSD	33.158	47.725	15.088	37.506	.24567	108.88	73.303	220.95	21.561	46.674	64.760	93162.	113.37
#1	.00089	-.00107	.00007	.00023	.00557	-.00006	-.00065	.00186	.00070	.00418	.00391	.00015	.00001
#2	.00143	-.00215	.00009	.00014	.00559	-.00046	-.00206	-.00041	.00095	.00211	.01051	-.00015	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00054**	**-.00007**	**-.00054**
Stddev	.00003	.00031	.00014	.00010
%RSD	14.081	56.295	197.24	18.879
#1	-.00021	-.00033	-.00017	-.00047
#2	-.00026	-.00076	.00003	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2666.3**	**1908.5**	**18140.**	**3913.8**
Stddev	11.7	14.9	56.	10.2
%RSD	.44002	.78151	.30962	.26156
#1	2674.6	1919.0	18100.	3906.5
#2	2658.0	1897.9	18180.	3921.0

Sample Name: CCVL-2222402 Acquired: 8/4/2014 12:22:23 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00606**	**.18942**	**.01267**	**.02353**	**.00207**	**.00202**	**.48494**	**.00218**	**.00372**	**.00452**	**.00761**	**.05017**	**.48636**
Stddev	.00007	.00859	.00082	.00013	.00003	.00003	.00481	.00008	.00017	.00056	.00032	.00165	.00825
%RSD	1.1089	4.5344	6.4940	.56946	1.5975	1.3492	.99191	3.7979	4.5845	12.332	4.2033	3.2812	1.6958
#1	.00601	.19549	.01208	.02363	.00204	.00200	.48154	.00212	.00384	.00412	.00739	.05134	.49219
#2	.00610	.18335	.01325	.02344	.00209	.00204	.48834	.00224	.00360	.00491	.00784	.04901	.48053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02981**	**.20778**	**.00334**	**.00991**	**.97756**	**.00948**	**.01131**	**.20544**	**.01961**	**.02437**	**.50365**	**.00963**	**.00489**
Stddev	.00039	.00587	.00006	.00016	.00828	.00002	.00055	.00163	.00192	.00112	.00101	.00036	.00005
%RSD	1.3070	2.8258	1.9053	1.5853	.84713	.18542	4.8871	.79446	9.7876	4.5931	.20006	3.7498	1.0010
#1	.02953	.20363	.00338	.01002	.97170	.00949	.01170	.20429	.02097	.02516	.50294	.00989	.00485
#2	.03008	.21193	.00329	.00980	.98342	.00946	.01092	.20660	.01825	.02358	.50437	.00938	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00476**	**.02079**	**.00490**	**.01045**
Stddev	.00030	.00056	.00012	.00048
%RSD	6.3794	2.6921	2.4189	4.6155
#1	.00497	.02119	.00481	.01011
#2	.00454	.02039	.00498	.01080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2597.3**	**1862.8**	**18039.**	**3993.8**
Stddev	6.4	6.5	77.	99.5
%RSD	.24656	.34890	.42647	2.4915
#1	2592.8	1858.2	18093.	4064.2
#2	2601.9	1867.4	17984.	3923.4

Sample Name: 480-64501-3RAW Acquired: 8/4/2014 12:25:18 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00871**	**-.00076**	**.33615**	**.21103**	**-.00005**	**82.501**	**-.00006**	**.00030**
Stddev	.00015	.00238	.00061	.00248	.00003	.00000	1.048	.00012	.00012
%RSD	738.85	27.292	80.607	.73711	.01364	8.2227	1.2698	191.23	40.163
#1	.00012	-.01039	-.00033	.33440	.21105	-.00005	83.242	.00002	.00039
#2	-.00008	-.00703	-.00119	.33790	.21101	-.00005	81.760	-.00015	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00020**	**3.9674**	**8.1832**	**.01727**	**44.805**	**.08061**	**-.00010**	**24.012**
Stddev	.00043	.00033	.0334	.0042	.00004	.132	.00056	.00004	.321
%RSD	210.14	165.00	.84094	.05164	.24000	.29406	.69014	46.590	1.3378
#1	.00050	-.00043	3.9910	8.1862	.01724	44.898	.08022	-.00006	24.239
#2	-.00010	.00003	3.9438	8.1803	.01730	44.712	.08101	-.00013	23.785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00454**	F **34.603**	**-.00162**	**.00194**	**10.292**	**-.00020**	**.15947**	**.00048**
Stddev	.00044	.00030	.201	.00045	.00033	.043	.00004	.00249	.00011
%RSD	55.701	6.6928	.57944	27.862	16.854	.42037	21.508	1.5619	22.416
#1	.00048	.00433	34.462	-.00194	.00171	10.322	-.00017	.16124	.00041
#2	.00109	.00476	34.745	-.00130	.00218	10.261	-.00023	.15771	.00056
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00194**	**-.00033**	**.00039**
Stddev	.00134	.00027	.00012
%RSD	68.879	79.816	30.808
#1	.00289	-.00052	.00030
#2	.00100	-.00015	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2613.2**	**2011.6**	**18929.**	**4413.9**
Stddev	26.3	29.0	15.	23.2
%RSD	1.0071	1.4431	.07685	.52469
#1	2631.8	2032.1	18939.	4397.5
#2	2594.6	1991.1	18919.	4430.2

Sample Name: 480-64502-2RAW Acquired: 8/4/2014 12:28:05 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.01002**	**.00132**	**.05099**	**.08725**	**-.00008**	**64.527**	**.00004**	**-.00004**
Stddev	.00043	.00671	.00015	.00016	.00018	.00008	1.093	.00016	.00007
%RSD	245.80	66.978	10.973	.30883	.20430	98.732	1.6931	431.69	147.27
#1	.00013	-.01476	.00122	.05110	.08713	-.00014	65.300	-.00008	.00000
#2	-.00048	-.00527	.00142	.05088	.08738	-.00003	63.755	.00015	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00495**	**.00425**	**5.4344**	**.00004**	**24.006**	**.02403**	**.00006**	**7.9427**
Stddev	.00017	.00007	.00149	.0088	.00072	.170	.00023	.00002	.0466
%RSD	17.699	1.5015	35.102	.16198	1607.4	.70669	.96394	37.795	.58653
#1	.00085	.00489	.00531	5.4406	-.00046	24.126	.02419	.00005	7.9757
#2	.00109	.00500	.00320	5.4282	.00055	23.886	.02387	.00008	7.9098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00273**	F **29.732**	**.00004**	**.00225**	**4.7410**	**-.00036**	**.11044**	**-.00013**
Stddev	.00011	.00007	.041	.00016	.00005	.0328	.00022	.00080	.00005
%RSD	10.539	2.4966	.13717	442.05	2.0670	.69207	60.817	.72196	42.320
#1	.00115	.00278	29.703	.00015	.00229	4.7642	-.00020	.11100	-.00009
#2	.00099	.00269	29.761	-.00008	.00222	4.7178	-.00051	.10988	-.00016
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00063**	**-.00038**	**.00441**
Stddev	.00075	.00021	.00047
%RSD	118.82	54.906	10.756
#1	.00010	-.00053	.00475
#2	.00116	-.00024	.00408
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2668.3**	**1992.5**	**18906.**	**4411.6**
Stddev	14.6	6.2	4.	78.4
%RSD	.54568	.30882	.02109	1.7781
#1	2678.5	1996.9	18909.	4356.2
#2	2658.0	1988.2	18903.	4467.1

Sample Name: BLANK Acquired: 8/4/2014 12:30:55 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00836**	**-.00078**	**.00239**	**.00016**	**-.00006**	**.00463**	**.00003**	**-.00023**
Stddev	.00039	.00997	.00042	.00015	.00018	.00007	.00411	.00009	.00019
%RSD	104.73	119.30	53.856	6.3372	114.23	113.50	88.771	264.61	82.549
#1	.00010	-.01541	-.00049	.00250	.00029	-.00011	.00172	.00009	-.00010
#2	.00065	-.00131	-.00108	.00229	.00003	-.00001	.00753	-.00003	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00053**	**.00184**	**.01359**	**.00085**	**.01405**	**.00013**	**-.00008**	**.00309**
Stddev	.00011	.00010	.00058	.00707	.00034	.02977	.00007	.00002	.00284
%RSD	43.416	19.711	31.416	52.050	39.888	211.89	53.989	32.774	91.664
#1	.00034	-.00046	.00224	.00859	.00109	.03510	.00018	-.00009	.00109
#2	.00018	-.00061	.00143	.01859	.00061	-.00700	.00008	-.00006	.00510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00054**	**.00875**	**-.00037**	**-.00047**	**-.01225**	**.00001**	**.00004**	**-.00028**
Stddev	.00038	.00003	.00041	.00132	.00118	.01147	.00012	.00002	.00040
%RSD	1657.3	5.4054	4.7267	358.48	251.65	93.632	774.90	44.662	145.38
#1	-.00029	-.00052	.00845	.00057	-.00130	-.00414	.00010	.00002	-.00056
#2	.00024	-.00056	.00904	-.00131	.00036	-.02036	-.00007	.00005	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00075**	**.00050**	**-.00039**
Stddev	.00080	.00033	.00014
%RSD	106.42	65.935	35.532
#1	-.00132	.00073	-.00029
#2	-.00019	.00027	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2582.7**	**1842.8**	**17485.**	**3950.6**
Stddev	.8	10.3	8.	14.3
%RSD	.03037	.56069	.04759	.36249
#1	2582.1	1850.1	17479.	3940.5
#2	2583.3	1835.5	17491.	3960.7

Sample Name: BLANK Acquired: 8/4/2014 12:33:47 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.01766**	**-.00091**	**.00152**	**.00008**	**-.00005**	**-.00136**	**.00004**	**.00007**
Stddev	.00017	.00286	.00078	.00015	.00001	.00002	.00245	.00007	.00001
%RSD	57.289	16.203	86.142	9.7820	16.323	41.978	180.84	200.72	14.722
#1	.00042	-.01968	-.00146	.00142	.00007	-.00007	.00038	-.00002	.00008
#2	.00018	-.01563	-.00036	.00163	.00009	-.00004	-.00309	.00009	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00070**	**-.00003**	**.02857**	**.00107**	**-.00205**	**.00004**	**.00003**	**.01027**
Stddev	.00019	.00031	.00040	.00326	.00005	.00909	.00003	.00029	.00572
%RSD	608.26	44.312	1561.5	11.405	4.3883	443.36	70.509	865.43	55.728
#1	-.00010	-.00092	-.00031	.03088	.00110	-.00848	.00002	-.00017	.01432
#2	.00017	-.00048	.00026	.02627	.00103	.00438	.00005	.00024	.00622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00056**	**.00125**	**-.00036**	**.00403**	**-.00909**	**.00040**	**.00002**	**-.00035**
Stddev	.00001	.00082	.00064	.00048	.00273	.01401	.00014	.00002	.00011
%RSD	3.1440	146.72	51.264	135.80	67.617	154.09	33.877	85.446	31.459
#1	-.00031	.00114	.00171	-.00070	.00210	.00081	.00030	.00001	-.00027
#2	-.00033	-.00002	.00080	-.00001	.00596	-.01900	.00050	.00004	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00098**	**.00025**	**.00000**
Stddev	.00037	.00008	.0001
%RSD	37.304	30.951	20512.
#1	-.00124	.00031	-.00008
#2	-.00072	.00020	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2578.2**	**1822.8**	**17714.**	**4071.5**
Stddev	3.2	1.1	8.	1.9
%RSD	.12516	.06254	.04376	.04673
#1	2575.9	1822.0	17709.	4072.8
#2	2580.5	1823.7	17720.	4070.1

Sample Name: MB 480-195523/1-C Acquired: 8/4/2014 12:36:40 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00625**	**-.00021**	**.00508**	**.00018**	**.00000**	**.04669**	**.00001**	**-.00008**
Stddev	.00014	.00131	.00027	.00003	.00001	.00000	.00056	.00003	.00009
%RSD	100.16	20.996	126.86	.58849	8.1796	466.70	1.1928	569.75	111.25
#1	.00004	.00532	-.00041	.00506	.00019	.00000	.04630	-.00002	-.00014
#2	.00024	.00717	-.00002	.00510	.00017	.00000	.04709	.00003	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**-.00050**	**.00257**	**.01430**	**.00052**	**-.00032**	**.00006**	**-.00012**	**.08139**
Stddev	.00027	.00028	.00041	.00194	.00052	.00245	.00012	.00012	.00661
%RSD	15.209	57.261	15.769	13.577	99.589	776.11	201.16	98.272	8.1197
#1	.00195	-.00030	.00228	.01292	.00089	.00141	-.00002	-.00004	.07671
#2	.00157	-.00070	.00286	.01567	.00015	-.00205	.00014	-.00020	.08606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00079**	F **.01935**	**.00025**	**.00231**	**.00089**	**.00008**	**.00030**	**-.00063**
Stddev	.00048	.00074	.00074	.00028	.00015	.01135	.00004	.00001	.00030
%RSD	95.811	94.077	3.8464	112.39	6.4093	1281.8	56.793	4.2233	47.194
#1	-.00084	.00026	.01883	.00005	.00221	.00891	.00005	.00029	-.00042
#2	-.00016	.00131	.01988	.00045	.00242	-.00714	.00011	.00031	-.00083
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300						
Low Limit			-.00300						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00087**	**-.00039**	**.00074**
Stddev	.00043	.00012	.00030
%RSD	49.488	30.907	40.636
#1	-.00117	-.00030	.00053
#2	-.00056	-.00047	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2638.3**	**1869.3**	**18181.**	**4118.1**
Stddev	1.1	2.4	61.	21.4
%RSD	.04106	.12707	.33647	.52016
#1	2639.1	1867.6	18224.	4133.2
#2	2637.5	1871.0	18138.	4102.9

Sample Name: LCS 480-195523/2-C Acquired: 8/4/2014 12:39:35 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04847**	**9.1384**	**.17684**	**.18560**	**.18450**	**.18019**	**8.5796**	**.18197**	**.18420**
Stddev	.00065	.0197	.00056	.00034	.00028	.00019	.0220	.00030	.00012
%RSD	1.3419	.21538	.31516	.18381	.15174	.10749	.25594	.16511	.06730
#1	.04801	9.1245	.17723	.18536	.18470	.18005	8.5951	.18218	.18429
#2	.04893	9.1524	.17645	.18584	.18430	.18032	8.5640	.18176	.18411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18534**	**.18200**	**8.9540**	**8.7475**	**.18088**	**9.9377**	**.19190**	**.18177**	**8.6636**
Stddev	.00045	.00112	.0275	.0013	.00018	.0341	.00009	.00009	.0082
%RSD	.24492	.61333	.30758	.01520	.10173	.34319	.04611	.04987	.09462
#1	.18566	.18279	8.9735	8.7466	.18101	9.9136	.19196	.18183	8.6694
#2	.18502	.18121	8.9345	8.7484	.18075	9.9618	.19183	.18171	8.6578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18611**	**.18551**	**9.0862**	**.18214**	**.18230**	**9.1988**	**.18602**	**.17114**	**.18437**
Stddev	.00026	.00012	.0031	.00029	.00189	.0045	.00255	.00002	.00138
%RSD	.13891	.06463	.03376	.16037	1.0352	.04876	1.3703	.01075	.74892
#1	.18593	.18559	9.0884	.18193	.18363	9.1957	.18782	.17115	.18535
#2	.18629	.18542	9.0841	.18234	.18096	9.2020	.18422	.17113	.18340
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20089**	**.19401**	**.19883**
Stddev	.00021	.00022	.00034
%RSD	.10521	.11298	.17093
#1	.20104	.19386	.19859
#2	.20074	.19417	.19907
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2491.0**	**1866.7**	**17706.**	**4207.7**
Stddev	3.4	2.0	56.	2.1
%RSD	.13456	.10912	.31593	.04877
#1	2493.4	1868.2	17745.	4209.1
#2	2488.7	1865.3	17666.	4206.2

Sample Name: 480-64479-B-1-B Acquired: 8/4/2014 12:42:19 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.02045**	**-.00055**	**.00814**	**.01748**	**.00002**	**29.751**	**.00024**	**-.00016**
Stddev	.00032	.00679	.00051	.00037	.00003	.00006	.479	.00003	.00007
%RSD	297.48	33.180	92.031	4.5464	.18553	291.52	1.6100	10.444	44.727
#1	-.00033	.01565	-.00019	.00840	.01750	.00006	30.089	.00023	-.00021
#2	.00012	.02525	-.00091	.00788	.01745	-.00002	29.412	.00026	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**.00006**	**.00545**	**3.0231**	**.01025**	**10.958**	**.00088**	**.00026**	**12.184**
Stddev	.00018	.00015	.00111	.0065	.00004	.045	.00013	.00024	.255
%RSD	4.6949	260.53	20.350	.21522	.42642	.40682	14.451	92.468	2.0903
#1	.00372	.00017	.00624	3.0185	.01022	10.989	.00079	.00043	12.364
#2	.00398	-.00005	.00467	3.0277	.01028	10.926	.00097	.00009	12.004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.00261**	**1.9039**	**-.00003**	**.00210**	**8.3979**	**.00046**	**.12773**	**-.00021**
Stddev	.00003	.00016	.0014	.00107	.00135	.0321	.00007	.00274	.00009
%RSD	7.3214	5.9592	.07341	3427.7	64.441	.38240	14.599	2.1416	44.663
#1	.00044	.00272	1.9030	.00072	.00114	8.3752	.00051	.12966	-.00014
#2	.00049	.00250	1.9049	-.00079	.00306	8.4206	.00041	.12579	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00098**	**.00029**	**.01585**
Stddev	.00029	.00008	.00002
%RSD	29.194	29.519	.11793
#1	-.00118	.00023	.01586
#2	-.00078	.00035	.01584
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2404.5**	**1770.4**	**17000.**	**3996.4**
Stddev	7.2	11.9	64.	72.6
%RSD	.29894	.67217	.37360	1.8156
#1	2409.5	1778.8	16955.	3945.1
#2	2399.4	1762.0	17045.	4047.7

Sample Name: 480-64480-B-1-B Acquired: 8/4/2014 12:45:10 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.03226**	**.00111**	**.02739**	**.09929**	**-.00004**	**191.86**	**.00043**	**-.00044**
Stddev	.00071	.02326	.00254	.00006	.00043	.00000	3.96	.00013	.00018
%RSD	445.13	72.085	229.46	.22308	.43052	5.5201	2.0664	29.451	41.079
#1	-.00034	.01582	.00290	.02734	.09898	-.00004	189.06	.00053	-.00031
#2	.00066	.04871	-.00069	.02743	.09959	-.00004	194.67	.00034	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00241**	**.00019**	**.00965**	**4.1015**	**-.00681**	**40.744**	**.00275**	**.00395**	**199.96**
Stddev	.00053	.00004	.00106	.0003	.00036	.426	.00000	.00036	4.11
%RSD	21.962	23.254	11.000	.00787	5.3553	1.0468	.02569	9.1485	2.0547
#1	.00279	.00022	.01040	4.1012	-.00655	40.442	.00275	.00370	197.06
#2	.00204	.00016	.00890	4.1017	-.00706	41.046	.00275	.00421	202.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00157**	**6.7624**	**-.00105**	**.00118**	**6.4455**	**.00138**	**1.2416**	**.00061**
Stddev	.00014	.00004	.0364	.00078	.00068	.0356	.00024	.0249	.00020
%RSD	33.384	2.4354	.53844	74.436	57.787	.55266	17.721	2.0073	32.796
#1	.00053	.00155	6.7366	-.00050	.00070	6.4203	.00155	1.2240	.00047
#2	.00033	.00160	6.7881	-.00160	.00167	6.4707	.00121	1.2592	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00135**	**.00141**	**.01333**
Stddev	.00193	.00054	.00097
%RSD	142.66	38.164	7.2929
#1	.00001	.00103	.01265
#2	-.00271	.00179	.01402
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2068.1**	**1622.8**	**15493.**	**3811.5**
Stddev	1.7	9.7	82.	70.1
%RSD	.08350	.60016	.53180	1.8383
#1	2069.3	1629.7	15551.	3861.1
#2	2066.9	1615.9	15434.	3762.0

Sample Name: 480-64480-B-2-B Acquired: 8/4/2014 12:48:06 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.01700**	**.01377**	**.03753**	**.04793**	**-.00007**	**235.62**	**.00037**	**-.00010**
Stddev	.00069	.00810	.00156	.00004	.00021	.00007	1.26	.00003	.00008
%RSD	112.71	47.652	11.296	.10097	.44251	93.888	.53666	8.2706	86.370
#1	.00012	.01127	.01487	.03756	.04808	-.00002	234.72	.00035	-.00016
#2	.00109	.02273	.01267	.03750	.04778	-.00012	236.51	.00039	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**.00045**	**.00794**	**3.4987**	**-.00628**	**39.368**	**1.1713**	**.00790**	**130.37**
Stddev	.00029	.00029	.00214	.0208	.00015	.073	.0032	.00031	1.85
%RSD	12.757	64.538	26.980	.59481	2.3175	.18609	.27294	3.9610	1.4225
#1	.00245	.00025	.00945	3.4840	-.00638	39.420	1.1736	.00812	129.06
#2	.00205	.00066	.00642	3.5134	-.00617	39.317	1.1691	.00767	131.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**.00324**	**4.6907**	**.00112**	**-.00055**	**8.5345**	**.00140**	**1.4601**	**.00060**
Stddev	.00015	.00015	.0405	.00082	.00102	.0776	.00037	.0165	.00026
%RSD	14.847	4.6814	.86366	73.348	186.24	.90899	26.341	1.1283	43.111
#1	.00113	.00313	4.7193	.00170	-.00127	8.4796	.00114	1.4484	.00042
#2	.00092	.00334	4.6620	.00054	.00017	8.5893	.00166	1.4717	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00137**	**.00151**	**.01349**
Stddev	.00037	.00021	.00057
%RSD	26.893	13.562	4.2085
#1	-.00163	.00166	.01389
#2	-.00111	.00137	.01308
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2079.9**	**1637.1**	**15614.**	**3985.0**
Stddev	6.5	9.0	65.	58.4
%RSD	.31099	.54815	.41444	1.4664
#1	2075.3	1630.8	15568.	4026.4
#2	2084.5	1643.4	15660.	3943.7

Sample Name: CCV Acquired: 8/4/2014 12:51:08 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49944**	**24.610**	**.46697**	**.47558**	**.47837**	**.48151**	**23.460**	**.47511**	**.49195**	**.47610**	**.45444**	**23.958**	**23.358**
Stddev	.00112	.215	.00070	.00121	.00006	.00286	.215	.00032	.00499	.00215	.00425	.180	.111
%RSD	.22326	.87213	.14893	.25379	.01290	.59369	.91687	.06701	1.0149	.45065	.93560	.75315	.47441
#1	.49865	24.458	.46746	.47643	.47833	.47949	23.308	.47534	.48842	.47458	.45143	23.830	23.280
#2	.50022	24.762	.46648	.47472	.47841	.48353	23.613	.47489	.49548	.47761	.45744	24.086	23.436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48511**	**24.496**	**.48313**	**.48427**	**23.470**	**.50757**	**.50014**	**23.538**	**.48054**	**.47476**	**24.642**	**.51851**	**.47103**
Stddev	.00266	.069	.00094	.00004	.105	.00239	.00076	.009	.00204	.00134	.261	.00076	.00249
%RSD	.54779	.28103	.19511	.00899	.44801	.46994	.15156	.03759	.42446	.28246	1.0586	.14683	.52807
#1	.48323	24.447	.48246	.48424	23.396	.50589	.49961	23.544	.48199	.47571	24.457	.51797	.46927
#2	.48699	24.544	.48379	.48430	23.544	.50926	.50068	23.531	.47910	.47381	24.826	.51905	.47279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.48020**	**.52459**	**.48011**	**.50665**
Stddev	.00079	.00186	.00207	.00050
%RSD	.16544	.35493	.43143	.09823
#1	.48076	.52327	.47864	.50700
#2	.47964	.52590	.48157	.50629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2306.5**	**1799.2**	**16893.**	**3918.7**
Stddev	5.3	7.3	50.	33.5
%RSD	.23026	.40541	.29793	.85454
#1	2302.7	1794.0	16928.	3942.4
#2	2310.3	1804.4	16857.	3895.0

Sample Name: CCB Acquired: 8/4/2014 12:53:51 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00825**	**-.00113**	**.00123**	**.00010**	**.00015**	**.08838**	**.00005**	**-.00004**	**.00052**	**-.00072**	**.01036**	**.03700**
Stddev	.00009	.02210	.00010	.00001	.00013	.00029	.11903	.00004	.00003	.00041	.00011	.00924	.00970
%RSD	50.797	267.87	9.2445	.86948	129.13	187.70	134.68	76.382	85.658	77.805	14.960	89.164	26.210
#1	.00011	.00738	-.00121	.00122	.00019	.00035	.17255	.00007	-.00001	.00081	-.00079	.01689	.04386
#2	.00024	-.02387	-.00106	.00124	.00001	-.00005	.00421	.00002	-.00006	.00023	-.00064	.00383	.03015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00678**	**.00027**	**.00010**	**.07213**	**-.00003**	**.00039**	**.00051**	**.00141**	**.00372**	**.01313**	**.00016**	**.00071**
Stddev	.00010	.01512	.00028	.00005	.08364	.00032	.00021	.00027	.00000	.00096	.00126	.00008	.00087
%RSD	33.727	223.10	103.50	50.680	115.96	1056.8	53.928	52.793	.03646	25.915	9.5875	52.314	123.16
#1	.00022	.01746	.00047	.00013	.13127	.00019	.00024	.00032	.00140	.00440	.01402	.00022	.00132
#2	.00036	-.00391	.00007	.00006	.01299	-.00025	.00055	.00069	.00141	.00304	.01224	.00010	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00009**	**.00024**	**-.00002**
Stddev	.00029	.00100	.00055	.00085
%RSD	211.20	1061.5	222.90	4368.7
#1	.00007	-.00080	.00063	.00058
#2	-.00035	.00061	-.00014	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2570.0**	**1828.8**	**17600.**	**3936.7**
Stddev	4.7	1.1	155.	77.4
%RSD	.18113	.05838	.88335	1.9671
#1	2566.7	1829.5	17710.	3991.4
#2	2573.3	1828.0	17490.	3881.9

Sample Name: CCVL-2222402 Acquired: 8/4/2014 12:56:45 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00608**	**.20201**	**.01368**	**.02018**	**.00204**	**.00203**	**.48167**	**.00211**	**.00383**	**.00437**	**.00786**	**.05223**	**.50524**
Stddev	.00025	.01262	.00055	.00003	.00004	.00004	.00067	.00000	.00031	.00025	.00045	.00176	.01382
%RSD	4.0416	6.2450	4.0253	.17047	1.9159	2.1238	.13865	.10093	8.2043	5.6644	5.7820	3.3689	2.7355
#1	.00626	.21093	.01407	.02015	.00202	.00200	.48214	.00210	.00406	.00419	.00754	.05347	.51501
#2	.00591	.19309	.01329	.02020	.00207	.00206	.48120	.00211	.00361	.00454	.00819	.05098	.49546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02939**	**.21388**	**.00346**	**.00973**	**.97310**	**.00939**	**.01013**	**.20181**	**.01886**	**.02765**	**.48744**	**.00952**	**.00483**
Stddev	.00033	.00198	.00009	.00012	.00274	.00003	.00108	.00152	.00013	.00307	.00953	.00001	.00002
%RSD	1.1288	.92537	2.5322	1.1949	.28120	.34500	10.618	.75231	.68585	11.087	1.9550	.06973	.39398
#1	.02963	.21248	.00340	.00981	.97117	.00942	.01089	.20289	.01896	.02548	.49418	.00953	.00484
#2	.02916	.21527	.00352	.00964	.97504	.00937	.00937	.20074	.01877	.02982	.48070	.00952	.00481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00468**	**.01914**	**.00534**	**.01077**
Stddev	.00009	.00210	.00017	.00044
%RSD	1.9155	10.993	3.1457	4.0383
#1	.00474	.02062	.00522	.01047
#2	.00462	.01765	.00546	.01108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2578.8**	**1843.6**	**17750.**	**3955.1**
Stddev	1.1	6.4	115.	91.2
%RSD	.04259	.34818	.65026	2.3051
#1	2579.6	1848.1	17832.	3890.6
#2	2578.0	1839.0	17669.	4019.5

Sample Name: 480-64480-B-2-BSD@5 Acquired: 8/4/2014 12:59:37 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.04368**	**.00328**	**.01132**	**.01026**	**.00004**	**48.621**	**.00014**	**-.00030**
Stddev	.00094	.00898	.00132	.00013	.00014	.00004	.156	.00016	.00006
%RSD	182.79	20.550	40.315	1.1638	1.3986	106.62	.32096	111.57	20.072
#1	-.00015	.05003	.00234	.01123	.01016	.00001	48.732	.00025	-.00035
#2	.00117	.03734	.00421	.01141	.01037	.00007	48.511	.00003	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00034**	**.00419**	**.71505**	**-.00120**	**8.3818**	**.25603**	**.00162**	**26.276**
Stddev	.00028	.00002	.00053	.01379	.00021	.0556	.00239	.00007	.241
%RSD	137.78	7.2502	12.695	1.9291	17.700	.66339	.93268	4.3921	.91782
#1	.00001	-.00036	.00456	.72481	-.00135	8.3425	.25434	.00157	26.447
#2	.00041	-.00033	.00381	.70530	-.00105	8.4211	.25772	.00167	26.106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00032**	**.87798**	**.00086**	**.00296**	**1.6949**	**.00065**	**.29193**	**.00033**
Stddev	.00052	.00047	.00394	.00002	.00116	.0182	.00014	.00186	.00029
%RSD	231.27	146.47	.44823	2.4173	39.232	1.0726	20.839	.63609	89.215
#1	.00059	.00065	.88077	.00085	.00214	1.6821	.00056	.29324	.00054
#2	-.00014	-.00001	.87520	.00088	.00378	1.7078	.00075	.29061	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00061**	**.00052**	**.00238**
Stddev	.00012	.00050	.00024
%RSD	20.526	97.457	10.024
#1	-.00052	.00087	.00254
#2	-.00070	.00016	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2323.3**	**1739.8**	**16563.**	**3962.9**
Stddev	1.6	2.2	72.	30.1
%RSD	.06940	.12784	.43740	.75953
#1	2324.4	1741.3	16614.	3941.7
#2	2322.1	1738.2	16512.	3984.2

Sample Name: 480-64480-B-2-BPDS Acquired: 8/4/2014 13:02:26 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05138**	**10.331**	**.21741**	**.23395**	**.23520**	**.20587**	**250.69**	**.20704**	**.20970**
Stddev	.00085	.155	.00040	.00199	.00150	.00246	5.54	.00154	.00169
%RSD	1.6625	1.4974	.18326	.85028	.63648	1.1931	2.2112	.74542	.80769
#1	.05078	10.221	.21713	.23535	.23414	.20413	246.77	.20813	.21090
#2	.05199	10.440	.21770	.23254	.23626	.20760	254.61	.20594	.20850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20737**	**.20375**	**9.9548**	**12.961**	**.19107**	**48.891**	**1.3517**	**.20591**	**141.68**
Stddev	.00190	.00036	.1757	.189	.00299	.583	.0147	.00190	1.56
%RSD	.91512	.17478	1.7649	1.4575	1.5636	1.1926	1.0899	.92496	1.1027
#1	.20603	.20350	9.8306	12.827	.18896	48.479	1.3412	.20725	140.57
#2	.20871	.20400	10.079	13.094	.19318	49.304	1.3621	.20456	142.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20915**	**.21089**	**4.4648**	**.20784**	**.20519**	**18.713**	**.20851**	**1.6617**	**.20516**
Stddev	.00241	.00293	.0491	.00349	.00391	.316	.00458	.0277	.00108
%RSD	1.1521	1.3893	1.0996	1.6804	1.9077	1.6875	2.1944	1.6657	.52639
#1	.21085	.21297	4.4995	.21031	.20795	18.490	.21174	1.6421	.20439
#2	.20744	.20882	4.4301	.20537	.20242	18.936	.20527	1.6813	.20592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21693**	**.21954**	**.22649**
Stddev	.00501	.00309	.00272
%RSD	2.3094	1.4095	1.1996
#1	.22048	.21735	.22457
#2	.21339	.22173	.22842
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2075.5**	**1685.7**	**15864.**	**3828.9**
Stddev	5.3	3.7	74.	68.4
%RSD	.25771	.21756	.46522	1.7868
#1	2071.7	1683.1	15916.	3877.3
#2	2079.3	1688.3	15812.	3780.5

Sample Name: 480-64480-B-2-C MS Acquired: 8/4/2014 13:05:18 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05071**	**9.5103**	**.20031**	**.21906**	**.21914**	**.18395**	**234.95**	**.18649**	**.18476**
Stddev	.00027	.0140	.00018	.00087	.00020	.00022	.80	.00139	.00105
%RSD	.53914	.14704	.09145	.39904	.09273	.12173	.34112	.74371	.57035
#1	.05052	9.5201	.20018	.21968	.21899	.18379	235.52	.18747	.18551
#2	.05090	9.5004	.20044	.21844	.21928	.18411	234.39	.18551	.18402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17799**	**.18617**	**8.8827**	**12.302**	**.18039**	**44.639**	**1.2348**	**.18667**	**132.37**
Stddev	.00119	.00033	.0284	.026	.00025	.139	.0030	.00104	.23
%RSD	.67124	.17569	.32020	.20933	.13707	.31153	.24519	.55896	.17255
#1	.17883	.18640	8.9028	12.320	.18022	44.737	1.2369	.18740	132.21
#2	.17714	.18594	8.8626	12.283	.18057	44.541	1.2327	.18593	132.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18667**	**.18761**	F **13.597**	**.18991**	**.18451**	**17.207**	**.18673**	**1.5608**	**.18257**
Stddev	.00053	.00121	.014	.00165	.00236	.050	.00368	.0022	.00093
%RSD	.28138	.64669	.09957	.86851	1.2799	.29316	1.9683	.14080	.51111
#1	.18704	.18846	13.587	.19108	.18618	17.242	.18933	1.5593	.18323
#2	.18630	.18675	13.606	.18875	.18284	17.171	.18413	1.5624	.18191
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19170**	**.19376**	**.19551**
Stddev	.00135	.00157	.00257
%RSD	.70363	.81007	1.3128
#1	.19265	.19487	.19732
#2	.19075	.19265	.19369
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2095.3**	**1677.9**	**16205.**	**3987.9**
Stddev	5.5	.3	7.	7.6
%RSD	.26460	.01881	.04196	.19061
#1	2099.2	1677.7	16200.	3982.5
#2	2091.4	1678.1	16210.	3993.2

Sample Name: 480-64480-B-3-C Acquired: 8/4/2014 13:08:04 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.01398**	**.00051**	**.03867**	**.14534**	**-.00003**	**124.59**	**.00051**	**-.00046**
Stddev	.00019	.00192	.00304	.00026	.00076	.00002	1.30	.00004	.00025
%RSD	39.041	13.770	595.94	.66716	.52043	90.504	1.0446	8.6356	54.397
#1	.00061	.01262	-.00164	.03885	.14588	-.00005	125.51	.00048	-.00028
#2	.00034	.01534	.00266	.03848	.14481	-.00001	123.67	.00054	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**.00066**	**.00848**	**3.7610**	**.00394**	**54.350**	**.02671**	**.00022**	**832.87**
Stddev	.00012	.00021	.00051	.0053	.00006	.784	.00024	.00010	14.84
%RSD	5.3250	32.134	6.0355	.14232	1.4731	1.4422	.88952	43.658	1.7817
#1	.00236	.00051	.00884	3.7572	.00390	54.904	.02654	.00015	843.37
#2	.00218	.00081	.00812	3.7648	.00398	53.795	.02688	.00029	822.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00269**	F **19.462**	**-.00052**	**-.00005**	**7.7028**	**.00067**	**.87530**	**.00034**
Stddev	.00031	.00101	.012	.00056	.00232	.0421	.00011	.01376	.00001
%RSD	29.169	37.303	.06241	108.38	4454.8	.54655	16.407	1.5716	3.4357
#1	.00085	.00198	19.471	-.00091	-.00169	7.6730	.00059	.88503	.00033
#2	.00130	.00341	19.454	-.00012	.00159	7.7325	.00075	.86557	.00035
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00303**	**-.00035**	**.01525**
Stddev	.00203	.00012	.00019
%RSD	67.068	35.962	1.2221
#1	-.00159	-.00026	.01512
#2	-.00446	-.00043	.01538
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1903.1**	**1575.1**	**14599.**	**3742.5**
Stddev	.3	8.1	99.	39.8
%RSD	.01315	.51261	.67823	1.0647
#1	1903.3	1569.3	14529.	3714.3
#2	1903.0	1580.8	14669.	3770.7

Sample Name: 480-64480-B-4-C Acquired: 8/4/2014 13:10:59 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.02829**	**.00504**	**.04319**	**.01089**	**.00000**	**38.268**	**.00025**	**-.00019**
Stddev	.00020	.01509	.00148	.00017	.00016	.0000	.449	.00012	.00015
%RSD	35.179	53.336	29.387	.38629	1.4926	304.56	1.1743	50.008	79.070
#1	.00043	.03896	.00399	.04330	.01077	-.00001	38.586	.00016	-.00008
#2	.00072	.01762	.00609	.04307	.01100	.00000	37.951	.00034	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00272**	**.00073**	**.00976**	**1.5555**	**-.00018**	**5.7333**	**.06049**	**.02085**	**36.960**
Stddev	.00048	.00031	.00060	.0057	.00031	.1080	.00075	.00007	.605
%RSD	17.630	42.309	6.1261	.36846	165.72	1.8847	1.2394	.34827	1.6377
#1	.00306	.00094	.00934	1.5595	-.00040	5.6569	.05996	.02079	37.388
#2	.00238	.00051	.01019	1.5514	.00003	5.8097	.06102	.02090	36.532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00249**	**3.4836**	**.00016**	**.00272**	**5.4894**	**.00038**	**.20999**	**.00027**
Stddev	.00005	.00099	.0475	.00064	.00071	.0676	.00039	.00308	.00053
%RSD	8.4308	39.853	1.3639	401.16	26.069	1.2316	101.49	1.4675	195.57
#1	.00050	.00319	3.4500	-.00029	.00222	5.4416	.00065	.21217	-.00010
#2	.00057	.00179	3.5172	.00061	.00322	5.5372	.00011	.20781	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00154**	**.00111**	**.01080**
Stddev	.00005	.00045	.00014
%RSD	3.3674	40.409	1.2929
#1	-.00158	.00143	.01070
#2	-.00151	.00079	.01090
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2307.6**	**1712.0**	**16476.**	**3862.5**
Stddev	4.9	3.4	22.	37.4
%RSD	.21029	.19977	.13335	.96797
#1	2311.1	1714.4	16492.	3836.1
#2	2304.2	1709.6	16461.	3888.9

Sample Name: 480-64480-B-5-C Acquired: 8/4/2014 13:13:51 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.02724**	**.00437**	**.02689**	**.03048**	**-.00004**	**155.12**	**.00032**	**-.00034**
Stddev	.00113	.00078	.00037	.00069	.00041	.00001	1.47	.00003	.00018
%RSD	4039.5	2.8785	8.4781	2.5620	1.3410	28.915	.94504	10.439	52.389
#1	.00077	.02780	.00411	.02640	.03019	-.00003	156.15	.00034	-.00021
#2	-.00083	.02669	.00464	.02737	.03077	-.00004	154.08	.00030	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**-.00039**	**.00210**	**3.1316**	**-.00607**	**23.345**	**.25840**	**.00423**	**62.133**
Stddev	.00011	.00022	.00078	.0004	.00001	.337	.00512	.00005	.293
%RSD	5.9173	57.447	37.107	.01381	.10795	1.4436	1.9797	1.2751	.47211
#1	.00201	-.00054	.00155	3.1319	-.00607	23.107	.25478	.00427	61.926
#2	.00185	-.00023	.00265	3.1313	-.00606	23.583	.26201	.00419	62.341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00315**	**5.9545**	**-.00033**	**.00189**	**6.5237**	**.00031**	**.82479**	**.00040**
Stddev	.00034	.00007	.0024	.00043	.00267	.0408	.00007	.00753	.00025
%RSD	165.18	2.1115	.04052	131.54	141.04	.62613	23.705	.91249	63.012
#1	.00045	.00310	5.9562	-.00063	.00001	6.4948	.00026	.83011	.00058
#2	-.00003	.00320	5.9528	-.00002	.00378	6.5526	.00037	.81947	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00089**	**.00074**	**.01266**
Stddev	.00056	.00085	.00011
%RSD	62.769	114.64	.90725
#1	-.00128	.00014	.01258
#2	-.00049	.00135	.01274
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2158.6**	**1644.0**	**16048.**	**3986.7**
Stddev	8.0	8.9	168.	39.8
%RSD	.37054	.53993	1.0443	.99712
#1	2164.3	1650.3	16167.	3958.5
#2	2153.0	1637.8	15930.	4014.8

Sample Name: LCSD 480-195523/3-B Acquired: 8/4/2014 13:16:44 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04849**	**9.2064**	**.17108**	**.18028**	**.18109**	**.17970**	**8.5348**	**.17783**	**.18087**
Stddev	.00020	.2026	.00062	.00028	.00065	.00355	.1645	.00010	.00084
%RSD	.42263	2.2006	.36464	.15647	.35968	1.9742	1.9274	.05811	.46211
#1	.04835	9.3496	.17064	.18008	.18155	.18221	8.6511	.17790	.18147
#2	.04864	9.0631	.17152	.18048	.18063	.17719	8.4185	.17775	.18028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18139**	**.17743**	**8.9409**	**8.6533**	**.18133**	**9.7715**	**.18774**	**.17715**	**8.7504**
Stddev	.00103	.00237	.2013	.0701	.00009	.0016	.00011	.00043	.1637
%RSD	.56567	1.3333	2.2509	.80979	.04927	.01605	.05977	.24266	1.8706
#1	.18211	.17910	9.0832	8.7028	.18139	9.7704	.18766	.17746	8.8662
#2	.18066	.17576	8.7986	8.6037	.18127	9.7726	.18782	.17685	8.6347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18336**	**.18366**	**8.8056**	**.17504**	**.17492**	**9.0284**	**.18199**	**.17192**	**.18041**
Stddev	.00072	.00198	.0558	.00208	.00192	.0228	.00342	.00408	.00007
%RSD	.39192	1.0762	.63320	1.1907	1.0985	.25207	1.8796	2.3720	.03813
#1	.18387	.18505	8.8450	.17651	.17628	9.0123	.18441	.17480	.18045
#2	.18285	.18226	8.7661	.17356	.17356	9.0445	.17957	.16903	.18036
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.19973**	**.19088**	**.19146**
Stddev	.00330	.00036	.00068
%RSD	1.6536	.19109	.35268
#1	.20207	.19063	.19098
#2	.19740	.19114	.19194
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2488.1**	**1876.9**	**17691.**	**4149.9**
Stddev	12.5	10.5	21.	88.1
%RSD	.50368	.55909	.12057	2.1233
#1	2496.9	1884.4	17675.	4087.6
#2	2479.2	1869.5	17706.	4212.3

Sample Name: BLANK Acquired: 8/4/2014 13:19:27 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.01528**	**-.00158**	**.00021**	**.00002**	**-.00001**	**-.00109**	**-.00002**	**-.00001**
Stddev	.00029	.00328	.00010	.00001	.00002	.00007	.00146	.00023	.00016
%RSD	203.06	21.439	6.2132	3.5125	90.658	624.98	134.71	940.30	1118.3
#1	-.00034	-.01297	-.00151	.00021	.00003	-.00006	-.00005	-.00019	-.00013
#2	.00006	-.01760	-.00165	.00022	.00001	.00004	-.00212	.00014	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.00086**	**.00089**	**.03073**	**.00026**	**-.00445**	**.00003**	**-.00005**	**.03461**
Stddev	.00014	.00048	.00142	.01260	.00059	.00342	.00001	.00011	.00202
%RSD	25.360	55.613	160.26	40.996	226.27	76.877	41.502	229.17	5.8339
#1	.00065	-.00120	.00189	.03963	-.00016	-.00203	.00004	.00003	.03604
#2	.00045	-.00052	-.00012	.02182	.00068	-.00687	.00002	-.00012	.03318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00007**	**-.00025**	**-.00066**	**.00231**	**-.00334**	**.00007**	**.00002**	**-.00026**
Stddev	.00011	.00038	.00483	.00018	.00237	.00600	.00004	.00002	.00042
%RSD	34.992	534.90	1938.8	27.625	102.59	179.61	53.963	100.50	160.13
#1	-.00024	-.00020	-.00366	-.00054	.00399	-.00759	.00009	.00001	.00003
#2	-.00041	.00034	.00317	-.00079	.00063	.00090	.00004	.00004	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00050**	**.00032**	**-.00024**
Stddev	.00030	.00048	.00021
%RSD	59.203	150.25	87.751
#1	-.00029	-.00002	-.00039
#2	-.00071	.00066	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2552.5**	**1835.9**	**17458.**	**3867.1**
Stddev	1.8	12.7	46.	37.6
%RSD	.07224	.69026	.26191	.97119
#1	2553.8	1827.0	17426.	3840.6
#2	2551.2	1844.9	17490.	3893.7

Sample Name: BLANK Acquired: 8/4/2014 13:22:21 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00848**	**.00003**	**.00016**	**.00001**	**.00001**	**-.00416**	**.00009**	**-.00012**
Stddev	.00034	.00635	.00038	.00032	.00001	.00003	.00281	.00016	.00003
%RSD	173.26	74.858	1128.6	196.45	100.54	344.97	67.663	173.13	26.077
#1	.00004	-.00399	-.00023	.00038	.00000	-.00001	-.00217	.00020	-.00014
#2	-.00044	-.01297	.00030	-.00006	.00002	.00003	-.00615	-.00002	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00093**	**.00151**	**.02980**	**.00010**	**-.00380**	**.00007**	**-.00029**	**.02259**
Stddev	.00017	.00025	.00151	.00369	.00123	.00033	.00004	.00004	.00396
%RSD	106.65	26.213	99.943	12.395	1178.6	8.6932	52.125	12.737	17.515
#1	.00028	-.00111	.00258	.03241	-.00076	-.00357	.00004	-.00032	.02539
#2	.00004	-.00076	.00044	.02719	.00097	-.00404	.00009	-.00026	.01980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00016**	**-.00133**	**.00005**	**.00502**	**-.00503**	**.00074**	**.00002**	**-.00045**
Stddev	.00004	.00135	.00185	.00061	.00016	.00565	.00029	.00010	.00032
%RSD	13.696	833.86	139.33	1151.0	3.2857	112.23	39.626	522.59	72.035
#1	-.00027	.00079	-.00264	.00048	.00490	-.00902	.00053	.00009	-.00022
#2	-.00033	-.00111	-.00002	-.00038	.00513	-.00104	.00095	-.00005	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00104**	**-.00021**	**-.00025**
Stddev	.00026	.00009	.00062
%RSD	24.732	42.639	249.32
#1	-.00086	-.00015	.00019
#2	-.00123	-.00028	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2538.5**	**1820.1**	**17305.**	**3819.4**
Stddev	14.8	24.5	51.	3.3
%RSD	.58473	1.3438	.29264	.08634
#1	2549.0	1837.4	17341.	3817.1
#2	2528.0	1802.8	17270.	3821.7

Sample Name: CCV Acquired: 8/4/2014 13:25:16 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51197**	**25.103**	**.47422**	**.49128**	**.48133**	**.48987**	**23.962**	**.48455**	**.49528**	**.47714**	**.45047**	**24.416**	**23.612**
Stddev	.00027	.384	.00080	.00086	.00249	.00838	.366	.00106	.00342	.00031	.00158	.367	.372
%RSD	.05243	1.5307	.16910	.17441	.51669	1.7113	1.5263	.21864	.68965	.06471	.35105	1.5032	1.5744
#1	.51178	24.831	.47365	.49067	.47957	.48394	23.704	.48380	.49286	.47692	.45159	24.156	23.349
#2	.51216	25.374	.47479	.49188	.48309	.49580	24.221	.48529	.49770	.47736	.44935	24.675	23.875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49428**	**24.645**	**.47897**	**.49511**	**24.004**	**.51443**	**.50144**	**24.011**	**.49635**	**.48355**	**25.107**	**.51915**	**.48079**
Stddev	.00545	.028	.00170	.00094	.407	.00007	.00256	.034	.00201	.00317	.148	.00010	.00688
%RSD	1.1027	.11336	.35582	.19033	1.6953	.01306	.50989	.14236	.40409	.65464	.58913	.01892	1.4318
#1	.49042	24.626	.47777	.49444	23.716	.51448	.49963	23.987	.49493	.48579	25.003	.51908	.47592
#2	.49813	24.665	.48018	.49577	24.292	.51438	.50324	24.036	.49777	.48131	25.212	.51922	.48565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.48081**	**.53393**	**.48099**	**.50436**
Stddev	.00131	.00294	.00024	.00367
%RSD	.27258	.55115	.05000	.72840
#1	.48174	.53601	.48116	.50176
#2	.47988	.53185	.48082	.50696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2255.7**	**1748.3**	**16754.**	**3848.6**
Stddev	.6	3.2	14.	73.1
%RSD	.02735	.18323	.08583	1.9006
#1	2256.1	1750.6	16744.	3900.3
#2	2255.3	1746.0	16764.	3796.8

Sample Name: CCB Acquired: 8/4/2014 13:27:58 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00394**	**-.00015**	**.00057**	**.00003**	**.00009**	**.00169**	**.00026**	**.00007**	**.00075**	**-.00076**	**.00518**	**.04023**
Stddev	.00036	.00460	.00093	.00050	.00000	.00010	.00767	.00027	.00036	.00004	.00001	.00530	.01269
%RSD	187.59	116.67	608.30	88.126	9.2873	103.84	453.89	105.14	526.31	5.3692	1.5398	102.29	31.542
#1	-.00006	.00069	.00050	.00092	.00003	.00016	.00711	.00046	.00033	.00078	-.00075	.00893	.03125
#2	.00045	.00720	-.00081	.00021	.00002	.00002	-.00373	.00007	-.00019	.00072	-.00077	.00143	.04920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00552**	**.00010**	**.00012**	**.01641**	**-.00026**	**-.00004**	**.00974**	**.00080**	**.00464**	**.00154**	**.00031**	**.00010**
Stddev	.00050	.00186	.00001	.00006	.00600	.00044	.00021	.01287	.00011	.00270	.00267	.00053	.00002
%RSD	107.69	33.770	7.1347	48.021	36.567	169.03	518.24	132.13	13.632	58.254	173.14	175.13	16.168
#1	.00011	-.00420	.00009	.00016	.02065	.00005	-.00019	.01883	.00088	.00655	.00343	.00068	.00011
#2	.00083	-.00683	.00010	.00008	.01217	-.00058	.00011	.00064	.00072	.00273	-.00035	-.00007	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00042**	**.00044**	**-.00011**
Stddev	.00016	.00095	.00031	.00049
%RSD	159.44	226.54	69.393	457.55
#1	-.00021	.00025	.00066	-.00046
#2	.00001	-.00110	.00022	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2551.7**	**1818.9**	**17676.**	**4118.7**
Stddev	3.9	7.7	19.	15.8
%RSD	.15159	.42324	.10919	.38328
#1	2549.0	1813.5	17689.	4107.6
#2	2554.5	1824.4	17662.	4129.9

Sample Name: CCVL-2222402 Acquired: 8/4/2014 13:30:53 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00633**	**.19644**	**.01345**	**.01979**	**.00216**	**.00205**	**.49089**	**.00204**	**.00398**	**.00436**	**.00740**	**.05244**	**.51625**
Stddev	.00043	.01362	.00192	.00004	.00000	.00007	.00177	.00013	.00014	.00028	.00002	.00034	.01112
%RSD	6.7283	6.9350	14.313	.21515	.12700	3.2414	.36083	6.1754	3.4218	6.3624	.27728	.65040	2.1539
#1	.00663	.18681	.01481	.01982	.00216	.00210	.48964	.00213	.00389	.00416	.00738	.05220	.50839
#2	.00603	.20607	.01209	.01976	.00216	.00200	.49214	.00195	.00408	.00456	.00741	.05268	.52412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03011**	**.21376**	**.00340**	**.00982**	**.98611**	**.00987**	**.00903**	**.20525**	**.01949**	**.02649**	**.50193**	**.01058**	**.00491**
Stddev	.00002	.01126	.00009	.00011	.00131	.00029	.00069	.00332	.00071	.00199	.02261	.00058	.00007
%RSD	.07620	5.2699	2.5582	1.1456	.13290	2.9449	7.6668	1.6179	3.6242	7.5046	4.5041	5.4720	1.3734
#1	.03009	.20579	.00334	.00974	.98518	.01007	.00952	.20760	.01899	.02509	.48594	.01099	.00496
#2	.03013	.22172	.00346	.00990	.98703	.00966	.00854	.20290	.01999	.02790	.51791	.01017	.00487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00480**	**.02058**	**.00534**	**.01082**
Stddev	.00000	.00009	.00019	.00020
%RSD	.02046	.41403	3.6196	1.8109
#1	.00480	.02064	.00520	.01096
#2	.00480	.02052	.00547	.01068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2547.8**	**1842.8**	**17524.**	**3867.2**
Stddev	11.3	12.8	36.	26.9
%RSD	.44155	.69478	.20294	.69586
#1	2555.7	1851.9	17499.	3886.2
#2	2539.8	1833.7	17549.	3848.2

Sample Name: MB 480-195700/1-A Acquired: 8/4/2014 13:33:46 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00280**	**-.00031**	**.00138**	**.00025**	**-.00004**	**.03273**	**-.00001**	**.00003**
Stddev	.00040	.00100	.00118	.00003	.00001	.00003	.00106	.00002	.00007
%RSD	800.15	35.654	376.45	2.0980	3.7868	72.620	3.2265	220.51	286.61
#1	.00033	-.00351	-.00114	.00140	.00024	-.00006	.03199	-.00002	-.00003
#2	-.00023	-.00210	.00052	.00136	.00026	-.00002	.03348	.00000	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**-.00081**	**.00748**	**.05575**	**.00096**	**.00170**	**.00034**	**.00019**	**.02430**
Stddev	.00008	.00004	.00044	.00664	.00040	.00258	.00003	.00014	.00169
%RSD	8.4022	4.6211	5.8470	11.913	41.515	152.19	8.5354	76.907	6.9647
#1	.00085	-.00083	.00779	.05106	.00124	.00353	.00036	.00029	.02311
#2	.00095	-.00078	.00717	.06045	.00068	-.00013	.00032	.00008	.02550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00020**	F **.00355**	**.00124**	**.00413**	**.11623**	F **.02492**	**.00015**	**.00022**
Stddev	.00035	.00032	.00051	.00130	.00138	.01477	.00004	.00004	.00019
%RSD	630.38	160.70	14.328	104.62	33.558	12.707	.16216	27.923	85.256
#1	-.00019	.00003	.00391	.00217	.00510	.10579	.02489	.00018	.00009
#2	.00031	-.00043	.00319	.00032	.00315	.12668	.02495	.00012	.00036
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.00300				.01000		
Low Limit			-.00300				-.01000		

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00115**	**.00019**	**.00158**
Stddev	.00136	.00041	.00021
%RSD	118.16	211.62	13.505
#1	-.00019	.00048	.00143
#2	-.00211	-.00010	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2461.3**	**1775.1**	**16925.**	**3906.0**
Stddev	6.6	10.0	71.	101.2
%RSD	.26973	.56099	.42180	2.5908
#1	2456.6	1768.1	16975.	3977.6
#2	2465.9	1782.2	16874.	3834.5

Sample Name: LCSSRM 480-195700/2- Acquired: 8/4/2014 13:36:38 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33635**	**62.721**	**1.0819**	**.93100**	**1.4291**	**.52593**	**54.292**	**.78905**	**1.0577**
Stddev	.00029	.153	.0004	.00358	.0009	.00217	.486	.00002	.0033
%RSD	.08662	.24405	.04102	.38476	.06176	.41203	.89484	.00237	.31413
#1	.33655	62.613	1.0822	.92847	1.4285	.52440	53.949	.78904	1.0600
#2	.33614	62.829	1.0816	.93354	1.4297	.52746	54.636	.78906	1.0553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92279**	F **.65546**	**112.51**	**20.656**	**.05763**	**27.117**	**3.5641**	**.39160**	**2.2343**
Stddev	.00240	.00371	.85	.056	.00045	.151	.0219	.00030	.0036
%RSD	.26029	.56628	.75409	.26895	.78183	.55539	.61550	.07706	.16057
#1	.92449	.65809	111.91	20.617	.05795	27.224	3.5797	.39139	2.2318
#2	.92109	.65284	113.11	20.695	.05732	27.011	3.5486	.39181	2.2369
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.3300							
Low Limit		.70800							

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.61634**	**1.0043**	**1.1057**	**.93783**	**1.4187**	**13.434**	**1.1117**	**.47111**	**3.0022**
Stddev	.00254	.0046	.0019	.00172	.0059	.080	.0070	.00008	.0144
%RSD	.41257	.45301	.17043	.18302	.41369	.59749	.62739	.01620	.47800
#1	.61814	1.0075	1.1070	.93661	1.4146	13.377	1.1166	.47116	3.0123
#2	.61454	1.0011	1.1043	.93904	1.4229	13.491	1.1068	.47105	2.9920
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**1.2972**	**.57302**	**2.0278**
Stddev	.0011	.00213	.0174
%RSD	.08317	.37205	.85757
#1	1.2980	.57452	2.0401
#2	1.2964	.57151	2.0155
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2128.0**	**1902.5**	**17585.**	**4015.0**
Stddev	.6	5.9	157.	19.2
%RSD	.02993	.31188	.89124	.47822
#1	2127.5	1906.7	17696.	4028.6
#2	2128.4	1898.3	17475.	4001.4

Sample Name: 480-64544-B-1-J Acquired: 8/4/2014 13:39:15 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**43.495**	**.01391**	**.01026**	**.14890**	**.00222**	**10.955**	**-.00008**	**.02225**
Stddev	.00031	.117	.00101	.00009	.00183	.00005	.105	.00010	.00005
%RSD	42.793	.26873	7.2680	.88089	1.2314	2.1262	.95651	120.89	.21488
#1	.00094	43.577	.01320	.01032	.14760	.00218	11.029	-.00015	.02221
#2	.00051	43.412	.01463	.01019	.15019	.00225	10.881	-.00001	.02228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03997**	**.04168**	**66.382**	**2.4434**	**.03914**	**9.9299**	**1.7931**	**.00096**	**.95579**
Stddev	.00086	.00169	.002	.0054	.00023	.3940	.0002	.00002	.00998
%RSD	2.1579	4.0501	.00249	.21925	.57678	3.9678	.00878	2.4212	1.0445
#1	.04058	.04288	66.381	2.4397	.03930	10.208	1.7932	.00098	.94873
#2	.03936	.04049	66.384	2.4472	.03898	9.6513	1.7929	.00094	.96285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05402**	**.04529**	**.42010**	**-.00334**	**.00350**	**12.249**	**.02603**	**.03346**	**.59663**
Stddev	.00055	.00141	.00194	.00002	.00141	.026	.00058	.00023	.02051
%RSD	1.0253	3.1120	.46138	.63006	40.374	.20935	2.2321	.68416	3.4378
#1	.05362	.04430	.42147	-.00333	.00450	12.230	.02562	.03330	.61114
#2	.05441	.04629	.41873	-.00336	.00250	12.267	.02645	.03362	.58213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00164**	**.07246**	**.16209**
Stddev	.00168	.00303	.00760
%RSD	102.32	4.1763	4.6915
#1	-.00045	.07459	.16747
#2	-.00283	.07032	.15672
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2317.3**	**1888.3**	**17760.**	**3984.5**
Stddev	4.5	9.5	16.	34.8
%RSD	.19284	.50533	.08838	.87408
#1	2314.1	1881.6	17771.	3959.8
#2	2320.4	1895.1	17749.	4009.1

Sample Name: 480-64544-B-1-JSD@5 Acquired: 8/4/2014 13:42:03 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**9.3623**	**.00213**	**.00514**	**.03300**	**.00043**	**2.4172**	**-.00006**	**.00444**
Stddev	.00037	.2857	.00040	.00052	.00010	.00004	.0752	.00014	.00001
%RSD	168.09	3.0518	18.881	10.171	.31439	10.113	3.1103	223.43	.13483
#1	-.00004	9.5643	.00241	.00477	.03307	.00040	2.4704	.00004	.00444
#2	.00049	9.1602	.00184	.00551	.03292	.00046	2.3640	-.00016	.00444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00890**	**.00819**	**13.843**	**.54752**	**.00905**	**2.2227**	**.39542**	**.00005**	**.21027**
Stddev	.00008	.00023	.401	.00916	.00002	.0455	.00029	.00020	.00728
%RSD	.90280	2.8036	2.8996	1.6733	.20607	2.0477	.07447	400.55	3.4634
#1	.00896	.00803	14.127	.55400	.00906	2.1905	.39563	-.00009	.21542
#2	.00885	.00836	13.559	.54104	.00904	2.2549	.39521	.00019	.20512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01073**	**.00939**	**.08773**	**.00016**	**.00296**	**2.7622**	**.00550**	**.00780**	**.13513**
Stddev	.00025	.00163	.00165	.00065	.00201	.0168	.00078	.00003	.00205
%RSD	2.3331	17.335	1.8789	416.27	68.113	.60840	14.279	.38796	1.5197
#1	.01055	.00824	.08890	.00062	.00438	2.7503	.00494	.00782	.13368
#2	.01091	.01054	.08657	-.00030	.00153	2.7741	.00605	.00778	.13659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00115**	**.01572**	**.03624**
Stddev	.00215	.00090	.00064
%RSD	186.31	5.7361	1.7693
#1	.00037	.01508	.03670
#2	-.00267	.01635	.03579
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2437.1**	**1840.1**	**17264.**	**3942.5**
Stddev	1.8	1.0	63.	78.5
%RSD	.07248	.05238	.36261	1.9904
#1	2438.3	1839.4	17220.	3887.0
#2	2435.8	1840.8	17308.	3998.0

Sample Name: 480-64544-B-1-JPDS Acquired: 8/4/2014 13:44:59 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10207	67.133	.39232	.39571	.53132	.41206	31.065	.38868	.46299
Stddev	.00036	.298	.00505	.00064	.00002	.00093	.263	.00044	.00108
%RSD	.35435	.44457	1.2871	.16132	.00290	.22492	.84504	.11374	.23379
#1	.10232	67.344	.39589	.39526	.53133	.41271	31.251	.38899	.46223
#2	.10181	66.922	.38875	.39616	.53131	.41140	30.879	.38837	.46376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.44244	.41526	89.865	21.093	.42711	30.543	2.2553	.38867	19.901
Stddev	.00089	.00016	.358	.133	.00124	.168	.0087	.00056	.087
%RSD	.20017	.03878	.39812	.62939	.29038	.55002	.38549	.14436	.43598
#1	.44181	.41514	90.118	21.187	.42799	30.424	2.2492	.38828	19.963
#2	.44306	.41537	89.612	20.999	.42623	30.662	2.2615	.38907	19.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50240	.47897	.45519	.38304	.38398	33.088	.45786	.40563	.98582
Stddev	.00264	.00148	.00162	.00217	.00194	.279	.00584	.00246	.00317
%RSD	.52493	.30890	.35574	.56717	.50595	.84406	1.2754	.60559	.32112
#1	.50054	.47793	.45405	.38150	.38535	33.285	.45373	.40736	.98359
#2	.50427	.48002	.45634	.38458	.38261	32.890	.46199	.40389	.98806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	.46494	.49057	.58380
Stddev	.00629	.00196	.01121
%RSD	1.3519	.39973	1.9208
#1	.46050	.49196	.59173
#2	.46939	.48918	.57587
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2145.4	1824.2	16847.	3821.1
Stddev	5.4	7.7	4.	31.3
%RSD	.25185	.42357	.02236	.81898
#1	2141.6	1818.8	16844.	3799.0
#2	2149.2	1829.7	16849.	3843.2

Sample Name: 480-64544-B-1-K MS Acquired: 8/4/2014 13:47:43 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10174**	**81.450**	**.36229**	**.38048**	**.51953**	**.36698**	**37.770**	**.35366**	**.41745**
Stddev	.00011	.503	.00008	.00002	.00411	.00261	.045	.00051	.00375
%RSD	.11053	.61772	.02072	.00449	.79107	.71012	.11824	.14427	.89799
#1	.10182	81.806	.36234	.38047	.51663	.36882	37.802	.35330	.41480
#2	.10166	81.094	.36223	.38049	.52244	.36513	37.739	.35403	.42010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40796**	**.38173**	**81.061**	**22.017**	**.41201**	**33.718**	**1.9324**	**.35254**	**18.871**
Stddev	.00121	.00341	.438	.111	.00437	.095	.0040	.00095	.136
%RSD	.29744	.89388	.54013	.50486	1.0597	.28060	.20879	.26824	.72060
#1	.40710	.37932	81.370	22.095	.41510	33.651	1.9296	.35187	18.968
#2	.40881	.38415	80.751	21.938	.40892	33.785	1.9353	.35321	18.775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45956**	**.43392**	F **17.984**	**.30679**	**.34053**	**28.361**	**.41069**	**.39140**	**1.1907**
Stddev	.00384	.00337	.002	.00093	.00164	.155	.00787	.00233	.0041
%RSD	.83562	.77700	.00878	.30440	.48175	.54589	1.9166	.59536	.34712
#1	.45685	.43154	17.983	.30613	.33937	28.470	.40512	.39305	1.1878
#2	.46228	.43630	17.985	.30745	.34169	28.251	.41625	.38975	1.1937
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.42118**	**.46969**	**.59100**
Stddev	.00497	.00059	.00114
%RSD	1.1802	.12637	.19247
#1	.41766	.46927	.59180
#2	.42469	.47011	.59019
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2135.9**	**1819.1**	**16910.**	**3901.3**
Stddev	1.3	7.3	10.	1.5
%RSD	.06179	.39994	.06141	.03961
#1	2135.0	1813.9	16918.	3900.2
#2	2136.8	1824.2	16903.	3902.4

Sample Name: 480-64544-B-1-L MSD Acquired: 8/4/2014 13:50:27 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09870**	**86.105**	**.34926**	**.36452**	**.51916**	**.35959**	**32.908**	**.34360**	**.42036**
Stddev	.00152	1.493	.00278	.00027	.00902	.00581	.120	.00172	.00292
%RSD	1.5350	1.7340	.79656	.07485	1.7365	1.6157	.36339	.50178	.69570
#1	.09763	85.049	.34730	.36432	.51278	.35548	32.823	.34238	.41829
#2	.09977	87.160	.35123	.36471	.52553	.36370	32.992	.34482	.42243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40474**	**.37699**	**91.482**	**21.566**	**.40444**	**30.361**	**2.5805**	**.34287**	**18.459**
Stddev	.00722	.00353	1.262	.363	.00996	.350	.0245	.00092	.324
%RSD	1.7838	.93669	1.3793	1.6821	2.4633	1.1523	.95092	.26850	1.7544
#1	.39964	.37449	90.590	21.309	.39740	30.113	2.5632	.34222	18.230
#2	.40985	.37949	92.374	21.822	.41149	30.608	2.5979	.34352	18.688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46760**	**.44086**	F **17.324**	**.28874**	**.33498**	**29.747**	**.40859**	**.38624**	**1.4219**
Stddev	.00230	.00571	.055	.00024	.00422	.241	.00163	.00557	.0175
%RSD	.49191	1.2957	.32023	.08344	1.2606	.81105	.39938	1.4433	1.2271
#1	.46597	.43682	17.285	.28891	.33797	29.576	.40975	.38230	1.4096
#2	.46922	.44490	17.363	.28857	.33200	29.917	.40744	.39018	1.4343
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.42133**	**.46531**	**.60262**
Stddev	.00224	.00527	.00940
%RSD	.53163	1.1316	1.5596
#1	.42291	.46159	.59598
#2	.41975	.46903	.60927
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2146.4**	**1862.2**	**17278.**	**3866.2**
Stddev	5.7	.1	164.	18.7
%RSD	.26745	.00687	.94657	.48447
#1	2150.5	1862.1	17394.	3879.4
#2	2142.4	1862.3	17162.	3852.9

Sample Name: 480-64544-B-2-D Acquired: 8/4/2014 13:53:11 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**40.421**	**.01613**	**.01078**	**.13568**	**.00209**	**77.630**	**-.00011**	**.02549**
Stddev	.00074	.104	.00039	.00019	.00016	.00007	.282	.00001	.00001
%RSD	107.11	.25679	2.4103	1.7683	.11625	3.3211	.36372	5.8236	.02967
#1	.00017	40.495	.01586	.01091	.13580	.00214	77.829	-.00011	.02548
#2	.00122	40.348	.01641	.01064	.13557	.00204	77.430	-.00010	.02549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03634**	**.04700**	**70.795**	**3.0542**	**.03952**	**22.090**	**1.2990**	**.00122**	**.35566**
Stddev	.00009	.00100	.260	.0010	.00006	.128	.0062	.00014	.00201
%RSD	.25923	2.1335	.36766	.03274	.14449	.58021	.47573	11.775	.56477
#1	.03640	.04771	70.979	3.0549	.03956	21.999	1.2947	.00132	.35424
#2	.03627	.04629	70.611	3.0535	.03948	22.180	1.3034	.00112	.35708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06021**	**.03721**	**2.2596**	**-.00468**	**.00221**	**9.7111**	**.02648**	**.08226**	**.64152**
Stddev	.00048	.00038	.0167	.00127	.00306	.0066	.00043	.00009	.01469
%RSD	.80344	1.0142	.73839	27.153	138.71	.06799	1.6297	.11089	2.2899
#1	.06056	.03748	2.2478	-.00558	.00437	9.7158	.02618	.08232	.65191
#2	.05987	.03694	2.2714	-.00378	.00004	9.7064	.02679	.08219	.63113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00328**	**.06907**	**.15642**
Stddev	.00171	.00123	.00107
%RSD	52.262	1.7822	.68355
#1	-.00207	.06994	.15718
#2	-.00449	.06820	.15566
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2170.5**	**1832.3**	**17594.**	**4155.3**
Stddev	12.4	19.2	46.	23.1
%RSD	.57250	1.0472	.26007	.55576
#1	2179.3	1845.9	17626.	4139.0
#2	2161.7	1818.8	17561.	4171.6

Sample Name: BLANK Acquired: 8/4/2014 13:55:54 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.66142**	F **-17.932**	**9.5463**	**8.2255**	**.17821**	F **-.11450**	F **-2.1028**	**2.2962**	F **-1.1202**
Stddev	.51553	3.228	1.7289	1.0069	.44585	.03109	.5366	.6935	.2650
%RSD	77.942	18.001	18.110	12.241	250.18	27.149	25.521	30.203	23.651
#1	.29689	-20.214	10.769	8.9375	-.13705	-.09252	-1.7233	2.7866	-.93290
#2	1.0260	-15.649	8.3238	7.5135	.49348	-.13648	-2.4822	1.8058	-1.3076
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit		890.00				23.000	900.00		18.000
Low Limit		-.20000				-.00200	-.50000		-.00400

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13842**	**.28603**	F **-.29055**	F **-6.6859**	**.06365**	**10.475**	**1.2118**	**5.2350**	F **-1.6982**
Stddev	.95688	1.4393	.11248	7.1192	.04605	4.547	2.1471	.2385	4.4291
%RSD	691.29	503.18	38.714	106.48	72.358	43.405	177.18	4.5564	260.82
#1	-.53820	-.73169	-.37009	-1.6519	.03108	7.2600	-.30643	5.4037	1.4337
#2	.81504	1.3038	-.21102	-11.720	.09621	13.690	2.7301	5.0664	-4.8300
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit			690.00	540.00					4320.0
Low Limit			-.05000	-.50000					-1.0000

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
IS Ref	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**382.02**	**-.00122**	**.48550**	**8.7248**	**2.7135**	F **-1.2375**	F **-91.651**	F **5.9239**	F **-.02221**
Stddev	27.12	.01144	.53884	1.6148	.0467	1.1457	1.505	1.6702	.01186
%RSD	7.0987	941.05	110.99	18.509	1.7199	92.583	1.6422	28.193	53.393
#1	362.85	-.00930	.10448	9.8667	2.7465	-2.0476	-92.715	4.7429	-.03060
#2	401.20	.00687	.86652	7.5830	2.6805	-.42735	-90.586	7.1049	-.01383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit						52.000	867.00	4.0000	9.0000
Low Limit						-.02500	-.50000	-.01000	-.00500

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm
Avg	**.36958**	F **-18.067**	**.10106**	**.33247**
Stddev	.60718	4.172	.06453	.06517
%RSD	164.29	23.092	63.850	19.601
#1	.79892	-15.117	.05543	.37855
#2	-.05976	-21.017	.14668	.28639
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		35.000		
Low Limit		-.02000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9962**	**.94500**	**-.60000**	**-10.099**
Stddev	.4902	.14095	20.153	.214
%RSD	24.555	14.915	3358.8	2.1165
#1	2.3428	.84533	-14.850	-10.250
#2	1.6496	1.0447	13.650	-9.9477

Sample Name: CCV Acquired: 8/4/2014 13:58:51 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52488	25.795	.46721	.48281	.47079	.50281	25.723	.48235	.50203	.50243	F .43205	25.393
Stddev	.00231	.318	.00150	.00152	.00626	.00727	.508	.00065	.00211	.00154	.00296	.401
%RSD	.44030	1.2314	.32202	.31426	1.3293	1.4466	1.9766	.13383	.42007	.30658	.68416	1.5803
#1	.52325	26.019	.46614	.48174	.46637	.50795	26.083	.48281	.50352	.50134	.42996	25.677
#2	.52652	25.570	.46827	.48388	.47522	.49766	25.364	.48189	.50054	.50352	.43414	25.109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.50000	
Range											-10.000%	

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.730	.48263	25.772	.49749	.49286	24.127	.53035	.51387	23.741	.48706	.47553	26.814
Stddev	.310	.00365	.052	.00075	.00046	.336	.00256	.00114	.075	.00037	.00276	.530
%RSD	1.3044	.75722	.20054	.15154	.09272	1.3942	.48225	.22108	.31412	.07668	.57965	1.9767
#1	23.948	.48522	25.736	.49696	.49254	24.365	.53215	.51467	23.688	.48679	.47358	27.189
#2	23.511	.48005	25.809	.49802	.49319	23.889	.52854	.51306	23.794	.48732	.47748	26.439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.53176	.47325	.49155	.54418	.49651	F .56575
Stddev	.00151	.00418	.00097	.00105	.00043	.00351
%RSD	.28411	.88377	.19690	.19300	.08647	.62042
#1	.53283	.47620	.49087	.54493	.49681	.56326
#2	.53070	.47029	.49224	.54344	.49620	.56823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.50000
Range						10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2363.9	1872.3	17872.	3856.8
Stddev	28.3	27.6	239.	72.9
%RSD	1.1953	1.4761	1.3393	1.8910
#1	2383.9	1891.8	18041.	3805.2
#2	2344.0	1852.8	17702.	3908.4

Sample Name: CCB Acquired: 8/4/2014 14:01:33 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.09735**	**-.00017**	**.00097**	**.00007**	**.00073**	**.10711**	**.00049**	**.00034**	**.00069**	**-.00062**	F **.14922**
Stddev	.00016	.13511	.00014	.00008	.00003	.00079	.14246	.00012	.00002	.00005	.00008	.19747
%RSD	171.35	138.78	81.484	8.0465	41.167	108.35	133.00	23.556	5.5160	7.7345	12.890	132.33
#1	.00002	.19289	-.00026	.00103	.00009	.00128	.20784	.00057	.00033	.00065	-.00057	.28885
#2	-.00020	.00182	-.00007	.00092	.00005	.00017	.00638	.00041	.00036	.00072	-.00068	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit												.05000
Low Limit												-.05000

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04125**	**.00130**	**-.00364**	**.00025**	**.00055**	**.03378**	**.00024**	**.00025**	**.01809**	**.00001**	**.00379**	**.05304**
Stddev	.02777	.00156	.00161	.00007	.00004	.04737	.00008	.00043	.00080	.00026	.00148	.07388
%RSD	67.335	119.82	44.284	30.165	7.5848	140.23	32.764	171.96	4.4391	3081.3	39.166	139.28
#1	.06089	.00241	-.00479	.00030	.00058	.06727	.00030	.00056	.01866	-.00018	.00484	.10528
#2	.02161	.00020	-.00250	.00019	.00052	.00029	.00019	-.00005	.01753	.00019	.00274	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00078**	**-.00020**	**-.00141**	**.00029**	**-.00044**
Stddev	.00003	.00097	.00006	.00094	.00015	.00004
%RSD	4.4389	124.52	29.823	66.813	52.819	8.0781
#1	.00069	.00146	-.00015	-.00074	.00018	-.00047
#2	.00065	.00009	-.00024	-.00208	.00040	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2581.5**	**1877.4**	**17931.**	**4064.9**
Stddev	10.7	4.3	14.	90.6
%RSD	.41626	.23141	.07918	2.2280
#1	2573.9	1874.3	17920.	4000.9
#2	2589.1	1880.5	17941.	4128.9

Sample Name: CCVL-2222402 Acquired: 8/4/2014 14:06:20 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00644**	**.19733**	**.01308**	**.01987**	W **.00273**	**.00202**	**.48243**	**.00215**	**.00386**	**.00488**	**.00777**	**.05680**
Stddev	.00025	.00229	.00118	.00031	.00034	.00005	.00809	.00026	.00009	.00005	.00055	.00126
%RSD	3.9367	1.1599	8.9892	1.5734	12.376	2.6993	1.6760	12.170	2.3506	.95218	7.1140	2.2173
#1	.00662	.19571	.01225	.01964	.00297	.00206	.47671	.00196	.00380	.00491	.00816	.05591
#2	.00627	.19895	.01391	.02009	.00249	.00199	.48815	.00233	.00393	.00485	.00738	.05769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					.00200							
Range					30.000%							

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49972**	**.02998**	**.25246**	F **.00552**	**.01002**	**.97647**	**.00994**	**.01036**	**.20630**	**.01947**	**.02594**	**.50507**
Stddev	.00028	.00008	.01640	.00096	.00017	.01437	.00008	.00018	.00531	.00048	.00147	.01928
%RSD	.05606	.26599	6.4981	17.455	1.6497	1.4717	.79767	1.7139	2.5734	2.4621	5.6679	3.8180
#1	.49952	.03003	.26406	.00620	.00991	.96631	.00988	.01023	.20255	.01913	.02490	.49143
#2	.49991	.02992	.24086	.00483	.01014	.98663	.00999	.01048	.21006	.01981	.02698	.51870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.00300								
Range				50.000%								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00997**	**.00494**	**.00601**	**.02013**	**.00575**	**.01125**
Stddev	.00035	.00002	.00061	.00121	.00030	.00048
%RSD	3.5242	.47022	10.204	6.0263	5.2224	4.2383
#1	.00972	.00492	.00644	.01927	.00596	.01159
#2	.01022	.00495	.00558	.02099	.00554	.01091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2545.4**	**1855.6**	**17676.**	**4048.1**
Stddev	9.3	4.5	28.	37.3
%RSD	.36380	.24112	.16025	.92099
#1	2551.9	1858.8	17656.	4074.4
#2	2538.8	1852.5	17696.	4021.7

Sample Name: 480-64544-B-3-D Acquired: 8/4/2014 14:09:14 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**43.806**	**.01378**	**.00864**	**.16657**	**.00225**	**4.6574**	**-.00011**	**.02253**
Stddev	.00005	.146	.00063	.00030	.00083	.00001	.0117	.00028	.00028
%RSD	5.0508	.33427	4.5551	3.4970	.49598	.28562	.25050	264.75	1.2461
#1	.00104	43.702	.01423	.00885	.16599	.00225	4.6492	-.00031	.02234
#2	.00112	43.909	.01334	.00842	.16716	.00225	4.6657	.00009	.02273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03596**	**.03893**	**64.510**	**2.0989**	**.03751**	**8.7510**	**1.7168**	**.00065**	**.21963**
Stddev	.00006	.00011	.333	.0163	.00025	.0085	.0030	.00006	.00743
%RSD	.16053	.28671	.51649	.77572	.65891	.09727	.17355	9.3725	3.3816
#1	.03592	.03885	64.274	2.0874	.03734	8.7570	1.7147	.00061	.21438
#2	.03601	.03901	64.745	2.1104	.03769	8.7450	1.7189	.00069	.22489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05075**	**.04409**	**.36747**	**-.00444**	**.00329**	**7.1450**	**.02363**	**.02187**	**.60214**
Stddev	.00018	.00016	.00671	.00142	.00030	.0201	.00027	.00009	.00335
%RSD	.35413	.35860	1.8272	31.900	9.0312	.28140	1.1423	.42130	.55683
#1	.05062	.04398	.36272	-.00344	.00308	7.1308	.02382	.02194	.59977
#2	.05087	.04420	.37222	-.00544	.00350	7.1593	.02344	.02181	.60451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00183**	**.07654**	**.15096**
Stddev	.00066	.00180	.00320
%RSD	35.904	2.3567	2.1210
#1	-.00137	.07527	.14870
#2	-.00229	.07782	.15322
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2350.8**	**1897.2**	**17906.**	**4048.9**
Stddev	3.7	3.6	35.	39.6
%RSD	.15820	.19036	.19791	.97739
#1	2348.1	1894.6	17931.	4076.9
#2	2353.4	1899.8	17881.	4020.9

Sample Name: 480-64544-B-4-D Acquired: 8/4/2014 14:12:06 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**42.611**	**.01535**	**.01151**	**.21957**	**.00230**	**25.810**	**-.00036**	**.02966**
Stddev	.00077	.014	.00160	.00026	.00105	.00010	.169	.00011	.00027
%RSD	83.480	.03384	10.401	2.2251	.47654	4.3243	.65309	30.405	.90568
#1	.00146	42.601	.01423	.01133	.22031	.00238	25.691	-.00044	.02985
#2	.00038	42.622	.01648	.01169	.21883	.00223	25.930	-.00028	.02947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04010**	**.05391**	**77.175**	**3.1990**	**.04697**	**12.581**	**1.8726**	**.00028**	**.62786**
Stddev	.00023	.00077	.156	.0003	.00056	.184	.0042	.00001	.00394
%RSD	.57214	1.4253	.20162	.00857	1.1877	1.4605	.22569	3.1439	.62794
#1	.03993	.05337	77.065	3.1992	.04736	12.451	1.8696	.00028	.63064
#2	.04026	.05446	77.286	3.1988	.04657	12.711	1.8756	.00029	.62507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06609**	**.03828**	**.30092**	**-.00578**	**.00377**	**6.6032**	**.02359**	**.07759**	**.63848**
Stddev	.00029	.00104	.00452	.00001	.00260	.0195	.00036	.00006	.00521
%RSD	.43758	2.7244	1.5004	.10263	68.760	.29502	1.5423	.07260	.81658
#1	.06589	.03754	.29773	-.00577	.00561	6.5894	.02333	.07763	.63479
#2	.06630	.03902	.30412	-.00578	.00194	6.6170	.02384	.07755	.64217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00281**	**.08378**	**.18112**
Stddev	.00135	.00045	.00442
%RSD	48.199	.53523	2.4381
#1	-.00377	.08346	.17799
#2	-.00185	.08410	.18424
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2321.5**	**1970.2**	**18507.**	**4307.9**
Stddev	5.4	9.7	70.	27.6
%RSD	.23447	.49465	.37723	.63997
#1	2325.3	1977.1	18458.	4327.4
#2	2317.6	1963.3	18556.	4288.4

Sample Name: 480-64544-B-5-D Acquired: 8/4/2014 14:14:52 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**34.441**	**.01116**	**.00921**	**.11376**	**.00172**	**23.126**	**-.00007**	**.01781**
Stddev	.00021	.563	.00054	.00012	.00010	.00000	.426	.00006	.00004
%RSD	59.389	1.6348	4.7981	1.2792	.09119	.06848	1.8430	83.018	.22552
#1	.00051	34.043	.01154	.00929	.11383	.00172	22.825	-.00011	.01784
#2	.00021	34.839	.01078	.00913	.11369	.00172	23.427	-.00003	.01778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03325**	**.03224**	**52.578**	**2.2084**	**.03099**	**11.701**	**1.2115**	**.00059**	**.42802**
Stddev	.00038	.00101	.905	.0373	.00134	.331	.0011	.00006	.00153
%RSD	1.1568	3.1240	1.7213	1.6906	4.3377	2.8279	.08922	9.7085	.35856
#1	.03352	.03295	51.938	2.1820	.03004	11.935	1.2107	.00064	.42694
#2	.03298	.03152	53.218	2.2348	.03194	11.467	1.2122	.00055	.42911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04406**	**.03958**	**.54352**	**-.00350**	**.00403**	**6.2800**	**.02316**	**.04717**	**.59884**
Stddev	.00053	.00088	.00513	.00003	.00351	.0566	.00004	.00015	.01854
%RSD	1.2128	2.2352	.94342	.98247	86.974	.90174	.17371	.31561	3.0965
#1	.04368	.04021	.53989	-.00352	.00651	6.2399	.02319	.04728	.61196
#2	.04444	.03896	.54714	-.00347	.00155	6.3200	.02313	.04707	.58573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00203**	**.06200**	**.13700**
Stddev	.00120	.00212	.00642
%RSD	58.863	3.4160	4.6825
#1	-.00119	.06350	.14154
#2	-.00288	.06051	.13246
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2363.4**	**1927.3**	**17757.**	**4138.5**
Stddev	2.8	1.7	86.	101.4
%RSD	.11729	.08590	.48428	2.4493
#1	2361.4	1926.1	17818.	4210.2
#2	2365.3	1928.4	17696.	4066.8

Sample Name: 480-64544-B-6-D Acquired: 8/4/2014 14:17:34 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**45.324**	**.01748**	**.01241**	**.15127**	**.00254**	**138.05**	**-.00013**	**.02941**
Stddev	.00028	.562	.00028	.00006	.00067	.00000	.33	.00008	.00034
%RSD	188.95	1.2403	1.5900	.45552	.44165	.14839	.24242	62.656	1.1724
#1	.00035	45.721	.01728	.01237	.15174	.00254	138.29	-.00007	.02965
#2	-.00005	44.926	.01768	.01245	.15079	.00253	137.81	-.00019	.02916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04047**	**.05449**	**76.940**	**3.3592**	**.04265**	**62.918**	**1.9521**	**.00065**	**.77654**
Stddev	.00031	.00139	.009	.0038	.00038	.513	.0115	.00004	.00024
%RSD	.77650	2.5517	.01221	.11404	.89037	.81526	.59003	6.6598	.03058
#1	.04069	.05548	76.947	3.3619	.04292	63.281	1.9602	.00062	.77671
#2	.04025	.05351	76.933	3.3565	.04238	62.555	1.9439	.00068	.77637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06638**	**.04272**	**1.3520**	**-.00519**	**-.00047**	**8.7535**	**.02619**	**.14563**	**.63836**
Stddev	.00023	.00027	.0094	.00056	.00054	.0371	.00027	.00160	.01710
%RSD	.33940	.63863	.69800	10.754	115.93	.42340	1.0379	1.0964	2.6785
#1	.06654	.04253	1.3586	-.00559	-.00085	8.7273	.02600	.14676	.65046
#2	.06622	.04292	1.3453	-.00480	-.00008	8.7797	.02639	.14450	.62627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00352**	**.08107**	**.18341**
Stddev	.00119	.00193	.00435
%RSD	33.747	2.3856	2.3728
#1	-.00268	.08244	.18648
#2	-.00437	.07970	.18033
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2112.2**	**1846.1**	**17197.**	**4006.9**
Stddev	3.2	2.9	73.	10.3
%RSD	.15016	.15849	.42161	.25720
#1	2114.5	1848.1	17145.	4014.2
#2	2110.0	1844.0	17248.	3999.6

Sample Name: 480-64544-B-7-D Acquired: 8/4/2014 14:20:15 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**41.330**	**.01851**	**.01206**	**.13832**	**.00233**	**56.722**	**-.00030**	**.03037**
Stddev	.00010	.255	.00190	.00019	.00124	.00003	.154	.00004	.00034
%RSD	11.918	.61743	10.276	1.6025	.89451	1.4305	.27103	13.026	1.1209
#1	.00074	41.511	.01985	.01219	.13745	.00230	56.831	-.00033	.03012
#2	.00087	41.150	.01716	.01192	.13920	.00235	56.613	-.00028	.03061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04008**	**.05693**	**78.165**	**3.7709**	**.04710**	**19.773**	**1.6041**	**.00085**	**.86716**
Stddev	.00064	.00096	.927	.0288	.00112	.155	.0127	.00020	.00057
%RSD	1.5952	1.6780	1.1857	.76329	2.3701	.78462	.79163	23.813	.06535
#1	.04053	.05625	78.820	3.7913	.04789	19.883	1.6130	.00071	.86676
#2	.03963	.05760	77.510	3.7506	.04631	19.663	1.5951	.00099	.86756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06981**	**.04252**	**.41812**	**-.00412**	**-.00328**	**9.5795**	**.02678**	**.12389**	**.66064**
Stddev	.00075	.00213	.00290	.00083	.00320	.0687	.00060	.00033	.00194
%RSD	1.0711	5.0177	.69414	20.127	97.655	.71697	2.2503	.26574	.29412
#1	.06928	.04101	.41607	-.00353	-.00101	9.6280	.02636	.12366	.66202
#2	.07034	.04402	.42017	-.00470	-.00554	9.5309	.02721	.12413	.65927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00398**	**.07392**	**.17534**
Stddev	.00010	.00008	.00579
%RSD	2.5468	.10331	3.3040
#1	-.00391	.07397	.17943
#2	-.00406	.07387	.17124
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2228.8**	**1920.9**	**17805.**	**4046.0**
Stddev	6.6	.1	69.	64.4
%RSD	.29630	.00649	.38863	1.5925
#1	2233.4	1921.0	17756.	4000.4
#2	2224.1	1920.8	17854.	4091.6

Sample Name: 480-64544-B-8-D Acquired: 8/4/2014 14:23:11 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**46.677**	**.01302**	**.00784**	**.19941**	**.00229**	**11.711**	**-.00008**	**.02072**
Stddev	.00051	.159	.00037	.00026	.00164	.00011	.084	.00009	.00016
%RSD	77.158	.34107	2.8707	3.2816	.82338	4.6766	.72103	104.47	.76225
#1	.00030	46.565	.01328	.00802	.19825	.00222	11.651	-.00015	.02061
#2	.00103	46.790	.01275	.00766	.20057	.00237	11.771	-.00002	.02083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03746**	**.04057**	**64.307**	**1.9398**	**.03576**	**9.8179**	**2.2548**	**.00098**	**.42547**
Stddev	.00000	.00009	.352	.0044	.00080	.0659	.0072	.00006	.00293
%RSD	.00726	.21145	.54725	.22524	2.2294	.67168	.31864	5.7600	.68929
#1	.03746	.04051	64.059	1.9367	.03520	9.7712	2.2497	.00094	.42340
#2	.03747	.04063	64.556	1.9429	.03633	9.8645	2.2599	.00102	.42754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05027**	**.05195**	**.70841**	**-.00357**	**.00321**	**11.579**	**.02535**	**.03492**	**.63409**
Stddev	.00053	.00124	.00435	.00175	.00011	.064	.00012	.00028	.00372
%RSD	1.0469	2.3777	.61419	48.998	3.4184	.55289	.45605	.80199	.58686
#1	.04989	.05107	.70533	-.00234	.00328	11.534	.02544	.03472	.63146
#2	.05064	.05282	.71148	-.00481	.00313	11.624	.02527	.03512	.63672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00148**	**.07569**	**.16567**
Stddev	.00163	.00091	.00214
%RSD	109.99	1.2052	1.2941
#1	-.00263	.07504	.16415
#2	-.00033	.07633	.16718
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2310.7**	**1872.5**	**17646.**	**4039.9**
Stddev	7.4	10.9	110.	3.9
%RSD	.31987	.58252	.62409	.09540
#1	2305.5	1864.8	17724.	4042.6
#2	2315.9	1880.2	17568.	4037.2

Sample Name: 480-64544-B-9-D Acquired: 8/4/2014 14:26:04 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**40.112**	**.01315**	**.00954**	**.15105**	**.00213**	**24.712**	**-.00017**	**.02229**
Stddev	.00041	.271	.00127	.00023	.00046	.00000	.142	.00002	.00003
%RSD	44.134	.67539	9.6196	2.3683	.30201	.11666	.57576	14.515	.11646
#1	.00064	39.921	.01405	.00938	.15072	.00213	24.611	-.00015	.02227
#2	.00122	40.304	.01226	.00970	.15137	.00213	24.813	-.00019	.02231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03437**	**.04481**	**62.765**	**2.4828**	**.03871**	**11.688**	**1.8052**	**.00031**	**.31191**
Stddev	.00005	.00006	.317	.0087	.00020	.055	.0046	.00004	.00814
%RSD	.15376	.14408	.50445	.35211	.52428	.47472	.25227	11.691	2.6085
#1	.03433	.04477	62.541	2.4766	.03885	11.649	1.8019	.00028	.30615
#2	.03441	.04486	62.989	2.4890	.03856	11.727	1.8084	.00033	.31766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05483**	**.04441**	**.52924**	**-.00384**	**.00141**	**7.5778**	**.01223**	**.08735**	**.58158**
Stddev	.00020	.00065	.00339	.00060	.00103	.0274	.00017	.00062	.00260
%RSD	.37070	1.4604	.64145	15.503	72.647	.36178	1.4107	.70803	.44673
#1	.05497	.04487	.53164	-.00426	.00214	7.5584	.01235	.08691	.57975
#2	.05468	.04396	.52684	-.00342	.00069	7.5972	.01211	.08779	.58342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00224**	**.06864**	**.17139**
Stddev	.00047	.00083	.00265
%RSD	20.985	1.2032	1.5473
#1	-.00257	.06805	.16952
#2	-.00191	.06922	.17327
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2418.0**	**1990.0**	**18664.**	**4266.7**
Stddev	5.2	4.8	96.	1.4
%RSD	.21519	.24039	.51375	.03217
#1	2421.7	1993.4	18732.	4265.8
#2	2414.3	1986.6	18597.	4267.7

Sample Name: 480-64544-B-10-D Acquired: 8/4/2014 14:28:40 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**39.022**	**.01164**	**.00800**	**.12609**	**.00196**	**13.882**	**-.00003**	**.01818**
Stddev	.00051	.259	.00026	.00047	.00146	.00004	.102	.00007	.00003
%RSD	591.24	.66381	2.1950	5.8301	1.1555	1.9819	.73692	215.88	.17963
#1	.00044	39.205	.01182	.00767	.12712	.00199	13.954	.00002	.01821
#2	-.00027	38.839	.01146	.00833	.12506	.00194	13.810	-.00008	.01816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03382**	**.03439**	**56.347**	**1.8962**	**.03488**	**9.8566**	**1.2935**	**.00126**	**.53106**
Stddev	.00098	.00011	.490	.0379	.00022	.0392	.0129	.00009	.00258
%RSD	2.8894	.32538	.86898	1.9993	.63379	.39736	.99774	7.3661	.48562
#1	.03451	.03447	56.693	1.9230	.03503	9.8843	1.3026	.00120	.53289
#2	.03313	.03431	56.001	1.8694	.03472	9.8289	1.2844	.00133	.52924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05010**	**.04881**	**.65436**	**-.00315**	**.00021**	**7.3895**	**.01270**	**.03632**	**.62966**
Stddev	.00009	.00131	.00216	.00070	.00252	.0253	.00026	.00017	.00273
%RSD	.17594	2.6937	.32966	22.055	1205.8	.34212	2.0314	.46298	.43422
#1	.05016	.04974	.65283	-.00364	.00199	7.4074	.01288	.03644	.63160
#2	.05004	.04788	.65588	-.00266	-.00157	7.3717	.01252	.03620	.62773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00152**	**.06703**	**.15097**
Stddev	.00017	.00057	.00089
%RSD	11.193	.85700	.59051
#1	-.00164	.06662	.15034
#2	-.00140	.06743	.15160
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2425.1**	**1960.9**	**18239.**	**4127.5**
Stddev	14.2	14.9	172.	33.4
%RSD	.58600	.75942	.94102	.80947
#1	2435.2	1971.4	18117.	4103.9
#2	2415.1	1950.4	18360.	4151.1

Sample Name: BLANK Acquired: 8/4/2014 14:31:13 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00969**	**.00008**	**-.00040**	**.00007**	**-.00002**	**.00114**	**-.00005**	**-.00005**
Stddev	.00052	.00608	.00095	.00018	.00000	.00003	.00097	.00012	.00011
%RSD	614.92	62.755	1131.3	43.816	6.9728	152.25	85.774	271.28	229.44
#1	-.00028	.01399	-.00059	-.00028	.00007	-.00004	.00183	.00004	.00003
#2	.00045	.00539	.00076	-.00053	.00007	.00000	.00045	-.00013	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00079**	**.01371**	**.02848**	**.00058**	**.00514**	**.00092**	**.00008**	**-.00730**
Stddev	.00048	.00040	.00039	.01526	.00017	.00390	.00004	.00017	.00107
%RSD	233.17	50.409	2.8760	53.565	29.064	76.002	3.8359	209.46	14.673
#1	.00055	-.00107	.01399	.01770	.00069	.00789	.00094	.00020	-.00806
#2	-.00013	-.00051	.01343	.03927	.00046	.00238	.00089	-.00004	-.00655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00118**	**-.00266**	**-.00011**	**.00412**	**-.01143**	**.00000**	**.00006**	**.00017**
Stddev	.00002	.00057	.00193	.00117	.00362	.00512	.00039	.00003	.00002
%RSD	12.704	48.391	72.528	1106.8	87.856	44.797	417250.	44.243	9.3192
#1	-.00016	-.00078	-.00403	-.00093	.00156	-.01506	-.00027	.00008	.00016
#2	-.00020	-.00159	-.00130	.00072	.00669	-.00781	.00027	.00004	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00164**	**.00007**	**-.00046**
Stddev	.00033	.00002	.00047
%RSD	20.325	23.561	103.74
#1	-.00140	.00008	-.00012
#2	-.00188	.00006	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2575.3**	**1857.8**	**17704.**	**3860.9**
Stddev	4.2	2.5	110.	130.6
%RSD	.16303	.13265	.62222	3.3814
#1	2572.3	1856.0	17782.	3953.2
#2	2578.2	1859.5	17626.	3768.6

Sample Name: CCV Acquired: 8/4/2014 14:33:50 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50893	24.398	.45458	.47659	.46760	.47833	23.283	.47119	.48869	.46647	F .42842	23.726
Stddev	.00143	.168	.00574	.00367	.00027	.00302	.271	.00357	.00171	.00049	.00039	.196
%RSD	.28090	.68909	1.2628	.76942	.05672	.63172	1.1641	.75734	.35013	.10541	.09046	.82725
#1	.50792	24.516	.45864	.47918	.46779	.48047	23.474	.47371	.48748	.46682	.42814	23.865
#2	.50994	24.279	.45052	.47400	.46741	.47619	23.091	.46866	.48990	.46612	.42869	23.587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.50000	
Range											-10.000%	

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.868	.48203	24.290	.46562	.48130	23.420	.51261	.49710	23.288	.47998	.46786	24.691
Stddev	.078	.00230	.023	.00013	.00370	.126	.00139	.00123	.185	.00474	.00624	.092
%RSD	.34187	.47733	.09477	.02778	.76915	.53599	.27196	.24832	.79305	.98707	1.3347	.37311
#1	22.923	.48040	24.274	.46553	.48392	23.509	.51360	.49797	23.419	.48333	.47227	24.756
#2	22.812	.48366	24.306	.46571	.47869	23.332	.51163	.49623	23.157	.47663	.46344	24.626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51404	.46721	.46939	.53385	.47295	.50199
Stddev	.00170	.00257	.00002	.00302	.00118	.00133
%RSD	.33044	.55038	.00459	.56564	.25003	.26525
#1	.51524	.46903	.46940	.53599	.47211	.50105
#2	.51284	.46539	.46937	.53172	.47378	.50293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2293.7	1803.9	17060.	3932.7
Stddev	10.0	12.2	25.	52.4
%RSD	.43480	.67420	.14852	1.3333
#1	2286.7	1795.3	17078.	3895.6
#2	2300.8	1812.5	17042.	3969.8

Sample Name: CCB Acquired: 8/4/2014 14:36:15 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00300**	**-.00171**	**.00026**	**.00001**	**-.00002**	**-.00180**	**.00007**	**-.00012**	**.00030**	**-.00117**	**.00359**	**.00105**
Stddev	.00012	.00291	.00029	.00028	.00001	.00003	.00086	.00005	.00023	.00009	.00044	.00106	.00446
%RSD	54.279	96.940	16.733	107.23	47.286	194.39	47.900	71.026	192.27	29.634	37.891	29.448	424.05
#1	-.00030	-.00094	-.00151	.00046	.00001	.00001	-.00119	.00010	.00004	.00024	-.00086	.00285	-.00210
#2	-.00013	-.00506	-.00191	.00006	.00001	-.00004	-.00241	.00003	-.00028	.00036	-.00148	.00434	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00028**	**.00005**	**.00002**	**-.00228**	**-.00020**	**-.00067**	**-.00101**	**.00016**	**.00266**	**.00482**	**.00020**	**.00007**
Stddev	.00061	.00268	.00005	.00009	.00455	.00019	.00020	.00217	.00010	.00092	.00652	.00006	.00002
%RSD	170.96	956.90	111.13	464.76	200.05	94.536	29.404	214.15	60.508	34.508	135.43	29.113	22.924
#1	-.00007	-.00162	.00001	.00008	-.00550	-.00033	-.00053	.00052	.00023	.00201	.00943	.00016	.00006
#2	.00079	.00218	.00009	-.00004	.00094	-.00007	-.00081	-.00255	.00009	.00331	.00020	.00024	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00003**	**.00023**	**-.00006**
Stddev	.00009	.00015	.00005	.00009
%RSD	91.261	564.04	21.289	152.87
#1	.00004	-.00013	.00027	-.00012
#2	.00016	.00008	.00020	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2561.5**	**1841.9**	**17713.**	**4110.6**
Stddev	6.1	5.7	52.	109.4
%RSD	.23709	.31121	.29512	2.6607
#1	2565.8	1846.0	17750.	4033.3
#2	2557.2	1837.9	17676.	4187.9

Sample Name: CCVL-2222402 Acquired: 8/4/2014 14:38:46 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00602**	**.20951**	**.01288**	**.01934**	**.00225**	**.00218**	**.50054**	**.00214**	**.00384**	**.00450**	**.00722**	**.06436**	**.49191**
Stddev	.00073	.00649	.00096	.00017	.00005	.00015	.01364	.00005	.00011	.00007	.00020	.01948	.01360
%RSD	12.093	3.1000	7.4352	.87184	2.1785	6.9856	2.7258	2.1384	2.7767	1.6337	2.8254	30.272	2.7643
#1	.00654	.21410	.01220	.01946	.00229	.00207	.49089	.00217	.00391	.00445	.00708	.05058	.48230
#2	.00551	.20491	.01356	.01922	.00222	.00229	.51018	.00210	.00376	.00455	.00737	.07814	.50153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02978**	**.22269**	**.00356**	**.01003**	**.96164**	**.01002**	**.00967**	**.20163**	**.02003**	**.02748**	**.52196**	**.00996**	**.00491**
Stddev	.00016	.00312	.00010	.00005	.00914	.00007	.00018	.00097	.00120	.00235	.00683	.00026	.00014
%RSD	.52231	1.4030	2.8611	.50437	.95076	.72533	1.8570	.47957	6.0144	8.5367	1.3079	2.6403	2.7552
#1	.02967	.22490	.00363	.01007	.96811	.01008	.00954	.20095	.02088	.02582	.52679	.00978	.00482
#2	.02989	.22048	.00349	.00999	.95518	.00997	.00979	.20232	.01918	.02914	.51713	.01015	.00501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00493**	**.02111**	**.00495**	**.01096**
Stddev	.00024	.00118	.00011	.00031
%RSD	4.8149	5.5951	2.1290	2.8180
#1	.00476	.02194	.00487	.01118
#2	.00510	.02027	.00502	.01074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2556.1**	**1871.6**	**17619.**	**3901.3**
Stddev	14.0	11.9	36.	4.3
%RSD	.54636	.63429	.20583	.11003
#1	2566.0	1880.0	17645.	3898.3
#2	2546.3	1863.2	17593.	3904.4

Sample Name: 480-64544-B-11-D Acquired: 8/4/2014 14:41:16 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**41.536**	**.01298**	**.00855**	**.15283**	**.00219**	**13.556**	**-.00011**	**.02104**
Stddev	.00048	.154	.00157	.00050	.00065	.00011	.045	.00003	.00043
%RSD	89.753	.37047	12.090	5.8269	.42351	4.9529	.33402	27.370	2.0555
#1	.00020	41.644	.01187	.00820	.15329	.00227	13.588	-.00009	.02073
#2	.00088	41.427	.01409	.00890	.15237	.00211	13.523	-.00013	.02134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03701**	**.03723**	**59.686**	**2.2698**	**.03645**	**9.4876**	**1.6531**	**.00093**	**1.0268**
Stddev	.00078	.00141	.120	.0024	.00126	.4381	.0066	.00010	.0002
%RSD	2.1039	3.7962	.20138	.10457	3.4594	4.6171	.39793	11.179	.02139
#1	.03756	.03822	59.771	2.2714	.03556	9.7974	1.6577	.00100	1.0267
#2	.03646	.03623	59.601	2.2681	.03734	9.1779	1.6484	.00086	1.0270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05121**	**.04938**	**.57719**	**-.00486**	**.00123**	**7.7641**	**.01335**	**.05028**	**.61560**
Stddev	.00102	.00087	.01158	.00023	.00055	.0400	.00006	.00034	.02615
%RSD	1.9957	1.7716	2.0069	4.6439	44.525	.51467	.42143	.67881	4.2481
#1	.05048	.04876	.56900	-.00470	.00161	7.7924	.01339	.05052	.63409
#2	.05193	.05000	.58538	-.00502	.00084	7.7359	.01331	.05004	.59710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00323**	**.06659**	**.15384**
Stddev	.00084	.00270	.00606
%RSD	26.162	4.0557	3.9383
#1	-.00263	.06850	.15813
#2	-.00382	.06468	.14956
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2343.6**	**1914.6**	**18492.**	**4244.3**
Stddev	23.0	23.4	99.	8.2
%RSD	.98077	1.2246	.53668	.19363
#1	2359.8	1931.2	18422.	4250.1
#2	2327.3	1898.0	18563.	4238.5

Sample Name: 480-64529-C-1-B Acquired: 8/4/2014 14:43:42 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**18.462**	**.00961**	**.04780**	**.20880**	**.00095**	**127.24**	**.00104**	**.01454**
Stddev	.00019	.053	.00174	.00039	.00032	.00005	.53	.00002	.00021
%RSD	19.667	.28777	18.076	.80605	.15346	5.4837	.41976	2.0043	1.4412
#1	.00083	18.424	.01084	.04752	.20857	.00099	126.86	.00102	.01469
#2	.00110	18.499	.00838	.04807	.20903	.00091	127.62	.00105	.01439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05481**	**.03013**	**53.289**	**2.8621**	**.03309**	**34.135**	**1.0362**	**.00039**	**.66103**
Stddev	.00019	.00002	.423	.0209	.00045	.023	.0021	.00032	.00261
%RSD	.34685	.05191	.79410	.72838	1.3509	.06737	.20189	83.018	.39515
#1	.05468	.03012	52.990	2.8474	.03341	34.119	1.0347	.00061	.65918
#2	.05495	.03014	53.588	2.8769	.03278	34.151	1.0376	.00016	.66287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03511**	**.14567**	**6.0511**	**-.00361**	**.00355**	**7.5919**	**.01382**	**.56728**	**.39495**
Stddev	.00022	.00103	.0563	.00119	.00210	.0930	.00023	.00353	.00115
%RSD	.61611	.70674	.92965	33.077	59.038	1.2251	1.6832	.62284	.29047
#1	.03496	.14640	6.0909	-.00277	.00503	7.5262	.01398	.56478	.39577
#2	.03526	.14494	6.0114	-.00446	.00207	7.6577	.01365	.56978	.39414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00118**	**.03967**	**.38525**
Stddev	.00112	.00062	.00018
%RSD	95.382	1.5674	.04565
#1	-.00197	.04011	.38537
#2	-.00038	.03923	.38512
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2245.4**	**1832.0**	**17509.**	**4084.1**
Stddev	5.5	6.0	50.	6.6
%RSD	.24486	.32645	.28634	.16214
#1	2249.2	1836.2	17544.	4088.8
#2	2241.5	1827.8	17474.	4079.4

Sample Name: 480-64529-C-2-B Acquired: 8/4/2014 14:46:05 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**31.438**	**.00556**	**.05639**	**.27762**	**.00139**	**47.343**	**.00168**	**.01837**
Stddev	.00044	.026	.00023	.00041	.00067	.00004	.149	.00003	.00008
%RSD	63.374	.08180	4.1565	.72005	.24094	2.7797	.31513	1.9362	.41131
#1	.00038	31.456	.00572	.05667	.27809	.00142	47.237	.00171	.01832
#2	.00100	31.420	.00540	.05610	.27714	.00136	47.448	.00166	.01842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04730**	**.04685**	**53.029**	**5.0761**	**.06568**	**23.068**	**.78275**	**.00078**	**.49549**
Stddev	.00037	.00099	.065	.0127	.00009	.054	.00200	.00002	.00248
%RSD	.78566	2.1110	.12275	.25114	.13249	.23310	.25492	2.6226	.50150
#1	.04704	.04755	53.075	5.0671	.06561	23.030	.78134	.00077	.49725
#2	.04756	.04615	52.983	5.0851	.06574	23.106	.78416	.00080	.49373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05498**	**.06766**	**5.1441**	**-.00385**	**.00489**	**6.9699**	**.01340**	**.20829**	**.52483**
Stddev	.00020	.00059	.0360	.00116	.00062	.0203	.00018	.00049	.00045
%RSD	.36817	.87883	.70067	30.150	12.571	.29126	1.3617	.23712	.08482
#1	.05512	.06808	5.1695	-.00467	.00446	6.9555	.01327	.20794	.52451
#2	.05484	.06724	5.1186	-.00303	.00533	6.9842	.01353	.20864	.52514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00246**	**.05184**	**1.1284**
Stddev	.00019	.00046	.0040
%RSD	7.5598	.89318	.35936
#1	-.00233	.05217	1.1313
#2	-.00259	.05151	1.1255
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2332.1**	**1888.7**	**17668.**	**4153.1**
Stddev	5.3	7.4	6.	16.1
%RSD	.22826	.39279	.03485	.38881
#1	2335.8	1883.5	17672.	4164.6
#2	2328.3	1894.0	17663.	4141.7

Sample Name: 480-64529-C-3-A Acquired: 8/4/2014 14:48:25 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**17.458**	**.01367**	**.04467**	**.21442**	**.00093**	**156.38**	**.00097**	**.01551**
Stddev	.00101	.043	.00251	.00042	.00115	.00005	.38	.00005	.00034
%RSD	127.81	.24405	18.337	.93081	.53824	5.7833	.24467	4.9820	2.2044
#1	.00150	17.488	.01190	.04438	.21523	.00097	156.11	.00094	.01527
#2	.00008	17.428	.01544	.04497	.21360	.00089	156.65	.00100	.01575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05051**	**.02591**	**57.292**	**2.5754**	**.03244**	**66.117**	**1.1245**	**.00060**	**.51436**
Stddev	.00053	.00092	.184	.0114	.00023	.587	.0067	.00020	.01115
%RSD	1.0410	3.5521	.32090	.44148	.69906	.88738	.59695	34.282	2.1680
#1	.05014	.02526	57.422	2.5834	.03260	66.531	1.1292	.00074	.52225
#2	.05088	.02656	57.162	2.5674	.03228	65.702	1.1197	.00045	.50648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03578**	**.13500**	**5.5686**	**-.00307**	**.00249**	**7.4451**	**.01292**	**.42877**	**.35637**
Stddev	.00059	.00065	.0927	.00002	.00187	.0110	.00007	.00186	.00442
%RSD	1.6471	.47979	1.6646	.64328	74.992	.14719	.54898	.43382	1.2409
#1	.03536	.13454	5.5030	-.00306	.00381	7.4528	.01287	.43008	.35324
#2	.03619	.13546	5.6341	-.00308	.00117	7.4373	.01297	.42745	.35950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00251**	**.04011**	**.40286**
Stddev	.00078	.00096	.00769
%RSD	31.274	2.3915	1.9086
#1	-.00195	.03944	.39742
#2	-.00306	.04079	.40830
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2192.7**	**1835.3**	**17255.**	**4079.0**
Stddev	14.2	16.8	94.	17.7
%RSD	.64691	.91453	.54672	.43496
#1	2202.7	1847.2	17188.	4091.5
#2	2182.7	1823.5	17321.	4066.4

Sample Name: 480-64529-C-3-B MS Acquired: 8/4/2014 14:50:47 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08253	41.191	.29281	.37030	.45472	.29818	141.90	.29019	.32398
Stddev	.00054	.101	.00084	.00149	.00251	.00153	.78	.00108	.00088
%RSD	.64884	.24632	.28853	.40287	.55094	.51308	.55105	.37384	.27119
#1	.08215	41.263	.29221	.36924	.45295	.29926	141.35	.28942	.32336
#2	.08291	41.120	.29340	.37135	.45649	.29710	142.46	.29095	.32460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.32815	.29633	55.600	21.083	.33012	56.039	.96356	.28398	15.079
Stddev	.00517	.00216	.108	.005	.00111	.370	.00795	.00047	.013
%RSD	1.5763	.72803	.19472	.02284	.33755	.66034	.82483	.16564	.08334
#1	.33181	.29785	55.524	21.080	.33091	56.300	.96918	.28364	15.070
#2	.32449	.29480	55.677	21.087	.32933	55.777	.95794	.28431	15.088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.34945	.42586	F 19.471	.27349	.28541	29.612	.33643	.65494	.73591
Stddev	.00119	.00004	.090	.00319	.00092	.011	.00062	.00342	.00340
%RSD	.34034	.00914	.46002	1.1677	.32364	.03589	.18541	.52265	.46134
#1	.34861	.42589	19.407	.27123	.28475	29.620	.33599	.65252	.73831
#2	.35029	.42583	19.534	.27574	.28606	29.605	.33687	.65736	.73351
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	.34538	.35417	.65059
Stddev	.00352	.00157	.00686
%RSD	1.0188	.44463	1.0539
#1	.34289	.35528	.65543
#2	.34786	.35306	.64574
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2114.0	1788.5	16966.	3920.3
Stddev	7.8	6.1	71.	10.3
%RSD	.36902	.33867	.41757	.26200
#1	2119.5	1792.8	16916.	3927.6
#2	2108.5	1784.2	17016.	3913.0

Sample Name: 480-64529-C-3-C MSD Acquired: 8/4/2014 14:53:05 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08836	48.340	.30795	.39996	.48825	.31468	139.03	.30555	.34630
Stddev	.00007	.041	.00163	.00128	.00617	.00053	.64	.00078	.00069
%RSD	.07387	.08408	.52869	.32074	1.2634	.16809	.46046	.25504	.20044
#1	.08832	48.312	.30680	.40086	.48389	.31431	138.58	.30610	.34581
#2	.08841	48.369	.30910	.39905	.49261	.31506	139.48	.30500	.34679
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.34691	.31195	67.231	23.541	.36199	64.565	1.2614	.29891	15.860
Stddev	.00113	.00069	.108	.000	.00036	.019	.0004	.00117	.024
%RSD	.32463	.22172	.16097	.00131	.10048	.02932	.02849	.39216	.15407
#1	.34771	.31146	67.154	23.541	.36225	64.552	1.2617	.29974	15.843
#2	.34612	.31244	67.307	23.541	.36174	64.578	1.2612	.29808	15.877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37526	.42875	F 20.330	.28075	.30194	36.141	.35705	.72715	.81618
Stddev	.00056	.00113	.046	.00398	.00208	.118	.00058	.00090	.00452
%RSD	.14832	.26436	.22736	1.4169	.68956	.32564	.16154	.12371	.55362
#1	.37486	.42955	20.363	.28356	.30341	36.058	.35746	.72652	.81298
#2	.37565	.42795	20.298	.27793	.30047	36.225	.35664	.72779	.81937
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	.36235	.37277	.68549
Stddev	.00042	.00048	.00973
%RSD	.11620	.12815	1.4196
#1	.36265	.37243	.69237
#2	.36206	.37311	.67861
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.1	1776.2	16543.	3850.4
Stddev	.1	4.6	61.	10.6
%RSD	.00557	.25789	.36820	.27656
#1	2090.2	1773.0	16586.	3857.9
#2	2090.0	1779.5	16500.	3842.9

Sample Name: 480-64529-B-4-B Acquired: 8/4/2014 14:55:20 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**36.178**	**.01516**	**.07146**	**.15800**	**.00202**	**648.28**	**.00058**	**.02864**
Stddev	.00004	.350	.00118	.00007	.00043	.00010	6.39	.00011	.00030
%RSD	3.8478	.96713	7.7984	.10255	.27483	5.0569	.98516	19.149	1.0497
#1	.00099	36.426	.01600	.07152	.15831	.00209	652.80	.00065	.02843
#2	.00105	35.931	.01433	.07141	.15769	.00195	643.76	.00050	.02885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06076**	**.06057**	**60.053**	**7.5127**	**.16818**	**363.54**	**1.4488**	**.00158**	**1.9038**
Stddev	.00035	.00099	.720	.0723	.00184	1.66	.0051	.00007	.0083
%RSD	.56820	1.6354	1.1994	.96263	1.0963	.45778	.35470	4.3349	.43760
#1	.06100	.05987	60.563	7.5638	.16948	364.72	1.4524	.00162	1.9097
#2	.06051	.06127	59.544	7.4615	.16688	362.37	1.4452	.00153	1.8979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07742**	**.08505**	**3.3425**	**-.00661**	**-.00202**	**11.937**	**.02539**	**.51163**	**.99796**
Stddev	.00139	.00490	.0492	.00041	.00359	.095	.00041	.00325	.00277
%RSD	1.7963	5.7669	1.4720	6.2389	177.30	.79573	1.5958	.63475	.27774
#1	.07644	.08158	3.3078	-.00632	.00051	12.005	.02568	.51393	.99992
#2	.07840	.08851	3.3773	-.00691	-.00456	11.870	.02510	.50934	.99600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00292**	**.08286**	**.29009**
Stddev	.00051	.00079	.00178
%RSD	17.315	.95844	.61229
#1	-.00328	.08342	.29135
#2	-.00257	.08230	.28884
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1830.1**	**1693.4**	**16029.**	**3914.1**
Stddev	9.2	8.7	37.	33.8
%RSD	.50403	.51366	.23290	.86312
#1	1823.6	1687.3	16003.	3890.2
#2	1836.6	1699.6	16056.	3938.0

Sample Name: 480-64529-B-5-B Acquired: 8/4/2014 14:57:45 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**24.365**	**.01452**	**.05219**	**.20286**	**.00129**	**583.19**	**.00067**	**.01974**
Stddev	.00042	.505	.00028	.00039	.00401	.00018	18.52	.00007	.00031
%RSD	20.697	2.0724	1.9291	.75079	1.9764	13.675	3.1750	10.194	1.5476
#1	.00175	24.007	.01433	.05247	.20003	.00116	570.10	.00062	.01996
#2	.00235	24.722	.01472	.05191	.20570	.00141	596.29	.00072	.01952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04500**	**.08828**	**64.464**	**4.5122**	**.01726**	**191.51**	**1.7970**	**.00165**	**.88274**
Stddev	.00017	.00191	1.360	.0908	.00025	2.27	.0256	.00008	.01669
%RSD	.38675	2.1600	2.1100	2.0128	1.4490	1.1838	1.4273	4.7185	1.8902
#1	.04513	.08693	63.502	4.4480	.01708	189.91	1.7789	.00159	.87094
#2	.04488	.08963	65.426	4.5764	.01743	193.11	1.8152	.00170	.89454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05523**	**.08698**	**3.5570**	**-.00486**	**-.00338**	**8.2638**	**.02804**	**.68855**	**.54521**
Stddev	.00112	.00038	.0593	.00035	.00118	.1782	.00010	.00807	.00998
%RSD	2.0292	.44021	1.6675	7.1266	34.931	2.1566	.36422	1.1715	1.8306
#1	.05602	.08725	3.5989	-.00462	-.00421	8.1378	.02811	.68285	.53816
#2	.05444	.08671	3.5151	-.00511	-.00254	8.3899	.02797	.69426	.55227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00389**	**.06182**	**.37229**
Stddev	.00001	.00111	.00373
%RSD	.33641	1.8001	1.0021
#1	-.00390	.06103	.36965
#2	-.00388	.06261	.37493
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1892.6**	**1754.5**	**16246.**	**3852.7**
Stddev	5.8	11.3	133.	107.4
%RSD	.30661	.64222	.82031	2.7878
#1	1888.5	1746.5	16340.	3928.7
#2	1896.7	1762.5	16152.	3776.8

Sample Name: BLANK Acquired: 8/4/2014 15:00:13 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.01023**	**.00016**	**-.00002**	**.00004**	**-.00005**	**.06589**	**-.00003**	**-.00019**
Stddev	.00057	.01514	.00068	.00047	.00002	.00002	.03141	.00003	.00003
%RSD	109.99	148.06	438.51	2633.2	38.069	40.332	47.670	125.86	18.421
#1	.00092	.00048	.00064	-.00035	.00005	-.00004	.04368	.00000	-.00016
#2	.00011	-.02093	-.00033	.00031	.00003	-.00007	.08811	-.00005	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00083**	**.00953**	**.01555**	**.00063**	**.02739**	**.00031**	**.00003**	**-.00499**
Stddev	.00004	.00027	.00483	.02611	.00001	.01247	.00020	.00001	.00423
%RSD	13.230	32.177	50.724	167.87	2.0729	45.531	64.335	47.255	84.688
#1	.00025	-.00102	.00611	.03401	.00064	.03621	.00045	.00004	-.00200
#2	.00030	-.00064	.01295	-.00291	.00062	.01857	.00017	.00002	-.00798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00076**	**-.00035**	**.00090**	**.00281**	**.01248**	**-.00001**	**.00011**	**-.00044**
Stddev	.00001	.00022	.00192	.00008	.00142	.00077	.00034	.00004	.00000
%RSD	7.1688	28.866	547.98	9.2431	50.354	6.1633	2353.2	40.658	.83336
#1	-.00012	.00061	.00101	.00084	.00381	.01194	.00023	.00008	-.00045
#2	-.00011	.00092	-.00171	.00095	.00181	.01303	-.00026	.00014	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00110**	**.00042**	**-.00027**
Stddev	.00061	.00001	.00013
%RSD	55.332	1.7933	48.834
#1	-.00067	.00041	-.00037
#2	-.00153	.00042	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2548.1**	**1848.0**	**17541.**	**3951.2**
Stddev	10.3	6.1	103.	95.0
%RSD	.40247	.33114	.58740	2.4053
#1	2540.8	1843.7	17468.	3884.0
#2	2555.4	1852.4	17613.	4018.4

Sample Name: CCV Acquired: 8/4/2014 15:02:48 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51888	24.522	.45066	.47760	.46759	.48016	23.600	.47124	.49394	.47540	F .42547	23.988
Stddev	.00564	.186	.00307	.00225	.00479	.00193	.241	.00069	.00679	.00339	.00604	.233
%RSD	1.0868	.75938	.68014	.47126	1.0252	.40145	1.0203	.14637	1.3757	.71327	1.4191	.97149
#1	.51489	24.391	.45283	.47919	.46420	.47880	23.430	.47075	.48913	.47300	.42120	23.823
#2	.52286	24.654	.44849	.47601	.47097	.48153	23.770	.47172	.49874	.47779	.42974	24.153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.50000	
Range											-10.000%	

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.800	.48217	24.743	.47101	.48118	23.397	.52265	.50135	23.201	.48126	.46158	25.190
Stddev	.148	.00172	.233	.00392	.00079	.169	.00375	.00390	.063	.00144	.00216	.241
%RSD	.64899	.35729	.94199	.83181	.16449	.72103	.71715	.77781	.27149	.29842	.46865	.95567
#1	22.695	.48095	24.578	.46824	.48174	23.277	.52000	.49859	23.245	.48025	.46311	25.020
#2	22.904	.48339	24.908	.47378	.48062	23.516	.52530	.50411	23.156	.48228	.46005	25.360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52337	.46629	.47276	.54404	.47762	.51735
Stddev	.00777	.00493	.00420	.00512	.00540	.00447
%RSD	1.4851	1.0576	.88743	.94175	1.1300	.86324
#1	.51788	.46280	.46980	.54042	.47380	.51419
#2	.52887	.46977	.47573	.54766	.48144	.52051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2283.1	1812.9	16831.	3861.6
Stddev	.4	9.9	141.	34.4
%RSD	.01749	.54629	.83896	.89080
#1	2283.4	1805.9	16931.	3885.9
#2	2282.8	1819.9	16731.	3837.3

Sample Name: CCB Acquired: 8/4/2014 15:05:08 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.01290**	**-.00087**	**.00024**	**.00004**	**.00002**	**.00263**	**.00012**	**-.00007**	**.00063**	**-.00117**	**.00404**	**.00883**
Stddev	.00025	.00436	.00134	.00007	.00001	.00001	.00329	.00001	.00008	.00015	.00074	.00148	.00967
%RSD	84.955	33.818	154.37	29.989	14.136	56.590	125.22	7.4727	117.97	24.246	63.012	36.735	109.46
#1	.00046	-.01599	.00008	.00029	.00004	.00003	.00495	.00011	-.00001	.00073	-.00169	.00299	.00200
#2	.00012	-.00982	-.00181	.00019	.00004	.00001	.00030	.00013	-.00012	.00052	-.00065	.00509	.01567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00087**	**.00011**	**-.00006**	**.00941**	**-.00033**	**-.00085**	**-.00178**	**.00081**	**.00389**	**.00908**	**.00036**	**.00006**
Stddev	.00085	.00779	.00005	.00017	.00113	.00004	.00020	.00079	.00060	.00163	.00400	.00040	.00006
%RSD	292.58	900.02	50.859	269.60	12.036	12.531	23.507	44.123	73.985	41.786	44.060	111.41	106.26
#1	.00089	.00638	.00015	-.00019	.00861	-.00030	-.00071	-.00234	.00039	.00504	.00625	.00008	.00001
#2	-.00031	-.00464	.00007	.00006	.01021	-.00036	-.00100	-.00123	.00123	.00274	.01191	.00064	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00069**	**-.00113**	**.00013**	**-.00043**
Stddev	.00069	.00013	.00025	.00039
%RSD	100.61	11.120	191.08	89.809
#1	-.00020	-.00104	-.00005	-.00071
#2	-.00118	-.00121	.00031	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2561.9**	**1845.6**	**17612.**	**3985.0**
Stddev	10.5	2.8	77.	146.7
%RSD	.40975	.15163	.43765	3.6811
#1	2554.5	1843.6	17667.	3881.3
#2	2569.3	1847.6	17558.	4088.7

Sample Name: CCVL-2222402 Acquired: 8/4/2014 15:07:34 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00594**	**.18923**	**.01284**	**.01935**	**.00212**	**.00192**	**.47193**	**.00195**	**.00376**	**.00449**	**.00717**	**.05077**	**.48063**
Stddev	.00021	.00546	.00052	.00024	.00003	.00005	.00184	.00001	.00010	.00009	.00037	.00027	.00332
%RSD	3.4524	2.8862	4.0691	1.2653	1.6257	2.6559	.39010	.41265	2.6623	2.1157	5.2011	.53127	.69157
#1	.00580	.19309	.01321	.01952	.00209	.00189	.47062	.00195	.00383	.00442	.00691	.05058	.48298
#2	.00609	.18536	.01247	.01917	.00214	.00196	.47323	.00196	.00369	.00455	.00744	.05096	.47828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02989**	**.21096**	**.00336**	**.00989**	**.94878**	**.00992**	**.00967**	**.19931**	**.01865**	**.02566**	**.49183**	**.00952**	**.00477**
Stddev	.00002	.01540	.00028	.00015	.00810	.00005	.00029	.00398	.00078	.00257	.00127	.00004	.00000
%RSD	.06254	7.2976	8.3867	1.4938	.85342	.50817	2.9541	1.9985	4.1952	10.033	.25753	.41975	.06169
#1	.02991	.20007	.00317	.00999	.94306	.00995	.00987	.20213	.01809	.02384	.49093	.00949	.00477
#2	.02988	.22185	.00356	.00978	.95451	.00988	.00947	.19650	.01920	.02748	.49273	.00954	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00458**	**.02005**	**.00490**	**.01013**
Stddev	.00026	.00104	.00002	.00107
%RSD	5.5703	5.1679	.42819	10.511
#1	.00440	.01932	.00488	.00938
#2	.00477	.02078	.00491	.01089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2606.6**	**1886.3**	**17788.**	**4113.5**
Stddev	14.1	13.3	151.	94.1
%RSD	.54232	.70368	.84907	2.2887
#1	2596.6	1876.9	17895.	4047.0
#2	2616.6	1895.7	17681.	4180.1

Sample Name: 480-64529-C-6-B Acquired: 8/4/2014 15:10:04 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00164**	**62.614**	**.02130**	**.10517**	**.22845**	**.00289**	**175.88**	**.00020**	**.06144**
Stddev	.00064	.306	.00081	.00012	.00130	.00000	.01	.00012	.00044
%RSD	39.221	.48817	3.8172	.11355	.56999	.06359	.00379	57.582	.71956
#1	.00209	62.830	.02188	.10509	.22937	.00289	175.88	.00028	.06113
#2	.00118	62.398	.02073	.10526	.22753	.00289	175.89	.00012	.06175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09874**	**.21503**	**115.26**	**12.121**	**.14177**	**103.27**	**1.8890**	**.00165**	**1.3564**
Stddev	.00019	.00183	.27	.018	.00003	.40	.0043	.00024	.0034
%RSD	.19375	.85160	.23192	.15225	.01934	.38662	.22642	14.433	.24920
#1	.09888	.21633	115.45	12.108	.14175	103.56	1.8920	.00182	1.3588
#2	.09861	.21374	115.07	12.134	.14179	102.99	1.8860	.00148	1.3541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14885**	**.16987**	**5.1010**	**-.00721**	**.00080**	**13.177**	**.02959**	**.82798**	**1.0221**
Stddev	.00107	.00026	.0181	.00030	.00119	.049	.00056	.00056	.0066
%RSD	.71914	.15186	.35517	4.2220	148.89	.36895	1.8918	.06822	.64505
#1	.14809	.16969	5.0882	-.00699	-.00004	13.212	.02920	.82758	1.0268
#2	.14961	.17005	5.1138	-.00742	.00164	13.143	.02999	.82838	1.0175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00359**	**.11407**	**.40673**
Stddev	.00104	.00021	.00365
%RSD	28.831	.18411	.89803
#1	-.00286	.11392	.40931
#2	-.00432	.11422	.40414
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2130.0**	**1939.4**	**17974.**	**4336.2**
Stddev	2.4	1.0	115.	13.5
%RSD	.11041	.05326	.63851	.31197
#1	2128.3	1938.7	17893.	4326.6
#2	2131.6	1940.2	18055.	4345.7

Sample Name: 480-64529-C-7-B Acquired: 8/4/2014 15:12:36 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**33.940**	**.01491**	**.03044**	**.25692**	**.00183**	**36.039**	**.00074**	**.02700**
Stddev	.00000	.240	.00204	.00007	.00088	.00006	.375	.00004	.00017
%RSD	.36944	.70587	13.662	.23524	.34295	3.0288	1.0402	6.0017	.63732
#1	.00108	33.771	.01635	.03039	.25630	.00180	35.774	.00078	.02713
#2	.00107	34.109	.01347	.03049	.25754	.00187	36.305	.00071	.02688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04527**	**.04220**	**66.084**	**3.7940**	**.04295**	**19.970**	**1.4381**	**.00030**	**1.7620**
Stddev	.00002	.00055	.498	.0060	.00039	.317	.0248	.00017	.0078
%RSD	.03547	1.3040	.75411	.15767	.90480	1.5859	1.7276	55.462	.44158
#1	.04526	.04181	65.731	3.7982	.04268	19.746	1.4205	.00042	1.7565
#2	.04528	.04259	66.436	3.7897	.04323	20.194	1.4556	.00018	1.7675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04915**	**.10927**	**2.2712**	**-.00298**	**.00354**	**8.3414**	**.02365**	**.30895**	**.74654**
Stddev	.00027	.00182	.0159	.00051	.00002	.0322	.00069	.00142	.00759
%RSD	.54022	1.6636	.69978	17.173	.50316	.38577	2.9320	.46117	1.0164
#1	.04933	.11055	2.2824	-.00262	.00353	8.3187	.02414	.30794	.74118
#2	.04896	.10798	2.2600	-.00334	.00355	8.3642	.02316	.30996	.75191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00352**	**.08093**	**.38745**
Stddev	.00066	.00043	.00086
%RSD	18.894	.52784	.22157
#1	-.00399	.08063	.38684
#2	-.00305	.08123	.38805
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2425.1**	**2003.7**	**18603.**	**4332.0**
Stddev	24.0	12.3	172.	29.3
%RSD	.98845	.61451	.92551	.67728
#1	2408.1	1995.0	18725.	4352.8
#2	2442.0	2012.4	18482.	4311.3

Sample Name: 480-64529-C-8-B Acquired: 8/4/2014 15:14:58 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**31.358**	**.01726**	**.09133**	**.38391**	**.00163**	**216.91**	**.00082**	**.02643**
Stddev	.00003	.048	.00189	.00108	.00161	.00009	.06	.00004	.00040
%RSD	1.9173	.15273	10.943	1.1816	.41927	5.6412	.02991	5.2630	1.5231
#1	.00151	31.325	.01593	.09209	.38505	.00170	216.87	.00085	.02672
#2	.00155	31.392	.01860	.09057	.38277	.00157	216.96	.00079	.02615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04096**	**.09466**	**62.427**	**6.5867**	**.06602**	**58.273**	**2.1302**	**.00118**	**.88620**
Stddev	.00055	.00147	.181	.0072	.00027	.448	.0227	.00014	.00199
%RSD	1.3447	1.5478	.28967	.10936	.41535	.76878	1.0671	12.112	.22490
#1	.04135	.09570	62.299	6.5918	.06583	58.590	2.1463	.00108	.88479
#2	.04058	.09362	62.555	6.5816	.06621	57.956	2.1141	.00128	.88761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05920**	**.20675**	**2.5424**	**-.00352**	**.00023**	**15.359**	**.03456**	**1.2323**	**.62432**
Stddev	.00100	.00262	.0481	.00023	.00012	.015	.00081	.0021	.00197
%RSD	1.6957	1.2696	1.8935	6.4524	53.756	.09551	2.3508	.17271	.31592
#1	.05991	.20861	2.5764	-.00369	.00032	15.348	.03514	1.2308	.62571
#2	.05849	.20490	2.5083	-.00336	.00014	15.369	.03399	1.2338	.62292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00254**	**.05705**	**.42405**
Stddev	.00022	.00087	.00565
%RSD	8.6782	1.5209	1.3319
#1	-.00269	.05643	.42006
#2	-.00238	.05766	.42805
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2221.2**	**1888.8**	**17916.**	**4275.6**
Stddev	.1	2.6	85.	3.2
%RSD	.00441	.14021	.47311	.07454
#1	2221.2	1886.9	17856.	4277.9
#2	2221.1	1890.6	17976.	4273.4

Sample Name: 480-64488-1RAW Acquired: 8/4/2014 15:17:27 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.26804**	**.00025**	**.03313**	**.08567**	**.00007**	**14.624**	**.00002**	**.00652**
Stddev	.00036	.00907	.00105	.00003	.00047	.00006	.122	.00006	.00016
%RSD	626.87	3.3820	429.95	.08816	.54718	92.713	.83460	290.27	2.4980
#1	.00020	.26163	-.00050	.03311	.08534	.00011	14.710	-.00002	.00641
#2	-.00031	.27445	.00099	.03315	.08600	.00002	14.538	.00007	.00664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00140**	**3.7824**	**2.2507**	**.00111**	**4.4598**	**4.4345**	**-.00056**	**53.799**
Stddev	.00008	.00057	.0263	.0162	.00023	.0423	.0295	.00008	.201
%RSD	14.237	40.954	.69421	.71952	20.675	.94842	.66415	14.046	.37422
#1	.00065	.00180	3.8009	2.2392	.00095	4.4299	4.4136	-.00051	53.657
#2	.00053	.00099	3.7638	2.2621	.00128	4.4897	4.4553	-.00062	53.942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00495**	**.00609**	**3.0931**	**-.00119**	**.00173**	**3.0945**	**-.00051**	**.10582**	**.00329**
Stddev	.00075	.00056	.0103	.00068	.00203	.0139	.00005	.00106	.00012
%RSD	15.204	9.1845	.33139	57.283	117.09	.44837	9.5411	1.0027	3.7136
#1	.00548	.00648	3.0858	-.00071	.00316	3.1044	-.00054	.10507	.00337
#2	.00441	.00569	3.1003	-.00167	.00030	3.0847	-.00047	.10657	.00320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00009**	**.00097**	**.04433**
Stddev	.00097	.00058	.00136
%RSD	1033.4	60.151	3.0654
#1	-.00078	.00056	.04336
#2	.00059	.00138	.04529
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2750.9**	**2095.2**	**19654.**	**4603.0**
Stddev	21.2	18.8	190.	49.7
%RSD	.76890	.89546	.96869	1.0807
#1	2765.8	2108.5	19788.	4567.8
#2	2735.9	2082.0	19519.	4638.2

Sample Name: 480-64488-2RAW Acquired: 8/4/2014 15:19:48 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.03028**	**.00035**	**.11039**	**.06641**	**-.00002**	**41.278**	**.00068**	**.01478**
Stddev	.00022	.01361	.00214	.00000	.00034	.00001	.225	.00018	.00018
%RSD	34.085	44.947	605.37	.00416	.51931	26.203	.54451	27.036	1.2177
#1	.00049	.03991	.00187	.11039	.06665	-.00002	41.119	.00081	.01465
#2	.00081	.02066	-.00116	.11039	.06617	-.00002	41.437	.00055	.01491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.00026**	**.39036**	**2.1125**	**-.00112**	**6.3896**	**17.173**	**-.00056**	**6.4250**
Stddev	.00038	.00008	.00519	.0033	.00067	.0116	.099	.00005	.0492
%RSD	48.656	32.268	1.3306	.15478	59.908	.18147	.57702	9.0726	.76519
#1	-.00051	.00032	.39403	2.1102	-.00159	6.3814	17.243	-.00060	6.3902
#2	-.00105	.00020	.38669	2.1149	-.00065	6.3978	17.103	-.00053	6.4597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02705**	**.00036**	F **11.526**	**.00020**	**.00011**	**2.7974**	**.00064**	**.14661**	**.00016**
Stddev	.00015	.00014	.002	.00042	.00073	.0210	.00007	.00110	.00017
%RSD	.56532	39.292	.01434	208.09	640.36	.75180	10.611	.75266	105.66
#1	.02694	.00046	11.527	-.00010	-.00040	2.8123	.00060	.14583	.00029
#2	.02716	.00026	11.525	.00050	.00063	2.7826	.00069	.14740	.00004
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00540**	**-.00160**	**.07891**
Stddev	.00124	.00019	.00113
%RSD	22.877	12.049	1.4343
#1	-.00628	-.00173	.07971
#2	-.00453	-.00146	.07811
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2582.3**	**1887.3**	**18183.**	**4357.6**
Stddev	.6	.1	110.	18.3
%RSD	.02371	.00392	.60445	.42076
#1	2581.9	1887.3	18105.	4370.5
#2	2582.7	1887.2	18261.	4344.6

Sample Name: 480-64488-3RAW Acquired: 8/4/2014 15:22:16 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**-.00001**	**.01606**	**.06880**	**.01788**	**.00013**	**27.381**	**-.00043**	**.00660**
Stddev	.00019	.01262	.00080	.00061	.00003	.00005	.163	.00001	.00004
%RSD	21.989	117560.	5.0016	.89146	.17334	38.111	.59707	1.5335	.62623
#1	.00072	-.00893	.01549	.06836	.01790	.00016	27.497	-.00042	.00663
#2	.00099	.00891	.01663	.06923	.01786	.00009	27.265	-.00043	.00657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00002**	**37.553**	**1.6737**	**.00471**	**10.673**	**8.6510**	**-.00135**	**24.067**
Stddev	.00013	.00012	.126	.0138	.00003	.054	.0227	.00022	.004
%RSD	25.471	493.92	.33568	.82362	.53672	.50212	.26286	16.612	.01687
#1	-.00059	-.00011	37.642	1.6835	.00469	10.711	8.6671	-.00119	24.070
#2	-.00041	.00006	37.464	1.6640	.00473	10.635	8.6349	-.00151	24.064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00234**	**.00558**	F **10.729**	**-.00242**	**.00266**	**13.500**	**.00035**	**.19738**	**-.00032**
Stddev	.00025	.00001	.106	.00022	.00220	.041	.00009	.00014	.00002
%RSD	10.523	.23446	.99087	9.0957	82.431	.30701	25.773	.06994	6.1436
#1	.00252	.00557	10.654	-.00257	.00111	13.529	.00042	.19747	-.00034
#2	.00217	.00559	10.804	-.00226	.00422	13.471	.00029	.19728	-.00031
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00043**	**.00065**	**.00305**
Stddev	.00017	.00025	.00019
%RSD	40.122	37.840	6.3421
#1	-.00031	.00083	.00291
#2	-.00055	.00048	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2672.7**	**2010.1**	**19198.**	**4551.7**
Stddev	35.3	32.7	49.	10.4
%RSD	1.3193	1.6261	.25528	.22851
#1	2697.6	2033.2	19233.	4559.1
#2	2647.7	1987.0	19164.	4544.4

Sample Name: 480-64488-4RAW Acquired: 8/4/2014 15:24:45 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00716**	**-.00169**	**.04586**	**.02205**	**-.00002**	**24.573**	**.00048**	**.02051**
Stddev	.00003	.00262	.00134	.00061	.00016	.00001	.377	.00012	.00004
%RSD	7.4111	36.588	79.100	1.3330	.72072	32.298	1.5325	25.493	.19323
#1	.00036	-.00901	-.00264	.04543	.02194	-.00002	24.839	.00056	.02048
#2	.00040	-.00530	-.00075	.04630	.02217	-.00003	24.307	.00039	.02054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00011**	**.65276**	**2.5434**	**.00104**	**3.2157**	**6.2628**	**-.00058**	**8.9208**
Stddev	.00055	.00026	.06227	.0334	.00101	.0526	.0342	.00003	.0302
%RSD	221.07	234.80	9.5396	1.3145	97.710	1.6347	.54660	5.1016	.33883
#1	-.00064	.00029	.60873	2.5198	.00032	3.1785	6.2386	-.00060	8.9422
#2	.00014	-.00007	.69679	2.5671	.00175	3.2528	6.2870	-.00056	8.8995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05514**	**.00148**	**7.5891**	**-.00097**	**.00181**	**3.7550**	**-.00047**	**.16050**	**-.00003**
Stddev	.00026	.00028	.0684	.00015	.00067	.0386	.00010	.00127	.00000
%RSD	.47658	18.884	.90190	15.121	36.901	1.0266	21.274	.79010	5.9526
#1	.05533	.00128	7.5407	-.00107	.00228	3.7277	-.00054	.16140	-.00002
#2	.05495	.00167	7.6375	-.00087	.00134	3.7822	-.00040	.15960	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00053**	**-.00072**	**.14720**
Stddev	.00061	.00014	.00174
%RSD	114.80	20.013	1.1851
#1	.00097	-.00062	.14596
#2	.00010	-.00082	.14843
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2695.2**	**1965.6**	**19110.**	**4521.5**
Stddev	37.4	37.2	150.	55.2
%RSD	1.3868	1.8938	.78693	1.2210
#1	2721.6	1992.0	19217.	4482.4
#2	2668.8	1939.3	19004.	4560.5

Sample Name: 480-694488-6RAW Acquired: 8/4/2014 15:27:10 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.01359**	**.00397**	**.03482**	**.01987**	**.00004**	**15.451**	**-.00037**	**.00646**
Stddev	.00013	.00170	.00068	.00031	.00008	.00002	.272	.00013	.00006
%RSD	32.124	12.489	17.072	.87899	.39827	54.532	1.7593	34.986	.87852
#1	-.00050	.01479	.00349	.03504	.01982	.00003	15.643	-.00046	.00650
#2	-.00031	.01239	.00445	.03461	.01993	.00006	15.259	-.00028	.00642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**-.00006**	**21.552**	**2.4413**	**-.00025**	**3.0834**	**.65549**	**-.00015**	**3.4286**
Stddev	.00012	.00006	.252	.0010	.00080	.0182	.00354	.00015	.0257
%RSD	17.745	105.34	1.1692	.03929	319.29	.59087	.53957	99.191	.74937
#1	.00073	-.00002	21.730	2.4406	-.00081	3.0705	.65299	-.00005	3.4468
#2	.00057	-.00011	21.373	2.4420	.00031	3.0962	.65799	-.00026	3.4104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.00254**	**.64438**	**-.00152**	**.00333**	**6.0441**	**-.00025**	**.07093**	**-.00026**
Stddev	.00012	.00007	.01371	.00045	.00036	.0635	.00005	.00085	.00022
%RSD	7.9191	2.9025	2.1284	29.335	10.919	1.0500	19.927	1.2032	84.822
#1	.00143	.00249	.65408	-.00121	.00307	6.0889	-.00021	.07032	-.00042
#2	.00160	.00260	.63469	-.00184	.00359	5.9992	-.00028	.07153	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00101**	**.00235**	**.01196**
Stddev	.00040	.00041	.00072
%RSD	39.636	17.598	6.0512
#1	.00130	.00206	.01144
#2	.00073	.00265	.01247
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2721.5**	**2001.7**	**18788.**	**4310.9**
Stddev	14.9	1.7	118.	110.6
%RSD	.54582	.08396	.62904	2.5648
#1	2711.0	2002.9	18872.	4232.7
#2	2732.0	2000.6	18704.	4389.0

Sample Name: BLANK Acquired: 8/4/2014 15:29:34 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00969**	**-.00159**	**-.00026**	**.00002**	**-.00008**	**-.00047**	**.00004**	**-.00011**
Stddev	.00032	.01803	.00151	.00015	.00003	.00006	.00599	.00003	.00002
%RSD	78.820	186.19	95.005	57.011	151.98	73.156	1275.8	84.188	14.559
#1	.00018	-.02244	-.00052	-.00036	.00000	-.00004	.00377	.00007	-.00012
#2	.00063	.00307	-.00265	-.00015	.00004	-.00012	-.00471	.00002	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00057**	**.00486**	**.01531**	**-.00010**	**-.00021**	**.00313**	**-.00002**	**.00181**
Stddev	.00038	.00038	.00051	.00324	.00034	.00462	.00394	.00016	.00069
%RSD	190.55	65.637	10.476	21.136	328.76	2149.5	125.81	693.62	38.394
#1	.00047	-.00084	.00450	.01760	-.00035	-.00348	.00035	.00009	.00230
#2	-.00007	-.00031	.00522	.01302	.00014	.00305	.00592	-.00013	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00074**	**.00319**	**.00049**	**.00050**	**-.00605**	**.00008**	**.00002**	**.00004**
Stddev	.00008	.00011	.00138	.00094	.00244	.00959	.00020	.00003	.00020
%RSD	39.323	14.696	43.310	193.66	488.24	158.56	249.38	179.97	455.24
#1	-.00026	-.00066	.00417	.00115	.00223	-.01283	-.00006	.00000	-.00010
#2	-.00015	-.00082	.00221	-.00018	-.00123	.00073	.00022	.00004	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00092**	**.00001**	**.00026**
Stddev	.00073	.00002	.00051
%RSD	79.554	149.23	192.27
#1	-.00040	.00003	.00062
#2	-.00144	.00000	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2543.5**	**1810.1**	**17630.**	**4072.6**
Stddev	21.0	8.0	139.	115.5
%RSD	.82631	.44018	.78583	2.8356
#1	2558.4	1815.8	17532.	3991.0
#2	2528.6	1804.5	17728.	4154.3

Sample Name: CCV Acquired: 8/4/2014 15:45:58 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50693	24.478	.45896	.47158	.47420	.47768	23.500	.47298	.49100	.48045	F .44378	23.919
Stddev	.00077	.015	.00028	.00058	.00468	.00068	.010	.00027	.00329	.00050	.00072	.021
%RSD	.15199	.06114	.06195	.12211	.98645	.14292	.04177	.05732	.67105	.10360	.16202	.08661
#1	.50638	24.488	.45876	.47117	.47090	.47720	23.507	.47278	.48867	.48009	.44429	23.934
#2	.50747	24.467	.45917	.47199	.47751	.47817	23.493	.47317	.49333	.48080	.44327	23.904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.50000	
Range											-10.000%	

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.054	.48005	24.701	.47926	.48146	23.338	.51064	.50133	23.383	.47807	.47003	24.724
Stddev	.037	.00056	.039	.00076	.00160	.043	.00083	.00241	.046	.00166	.00053	.043
%RSD	.15881	.11725	.15949	.15875	.33188	.18286	.16337	.48084	.19765	.34643	.11204	.17596
#1	23.080	.48044	24.673	.47980	.48033	23.368	.51123	.50303	23.350	.47689	.47040	24.755
#2	23.028	.47965	24.729	.47872	.48259	23.308	.51005	.49963	23.416	.47924	.46966	24.693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51831	.46742	.47846	.52979	.47986	.51549
Stddev	.00080	.00219	.00149	.00054	.00078	.00320
%RSD	.15386	.46779	.31064	.10265	.16250	.62117
#1	.51775	.46897	.47951	.52941	.48042	.51322
#2	.51888	.46588	.47741	.53017	.47931	.51775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2298.6	1805.4	16791.	3875.5
Stddev	.0	2.2	38.	18.0
%RSD	.00071	.12063	.22537	.46345
#1	2298.6	1806.9	16818.	3888.2
#2	2298.6	1803.8	16765.	3862.8

Sample Name: CCB Acquired: 8/4/2014 15:48:15 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00328**	**.00027**	**.00017**	**.00003**	**.00003**	**-.00122**	**.00013**	**.00002**	**.00061**	**-.00105**	**.00371**	**.02897**
Stddev	.00005	.00109	.00011	.00006	.00001	.00004	.00096	.00001	.00012	.00051	.00028	.00264	.00195
%RSD	629.79	33.325	39.367	37.721	28.410	127.77	78.322	6.4916	555.08	82.773	27.221	70.990	6.7196
#1	.00004	.00405	.00019	.00021	.00002	.00000	-.00190	.00012	.00010	.00025	-.00125	.00558	.02759
#2	-.00003	.00251	.00035	.00012	.00004	.00006	-.00055	.00013	-.00006	.00097	-.00084	.00185	.03035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.00186**	**.00008**	**.00012**	**.00327**	**-.00027**	**.00002**	**.00343**	**.00115**	**.00321**	**.01474**	**.00043**	**.00007**
Stddev	.00026	.00106	.00000	.00000	.00307	.00007	.00132	.00356	.00044	.00213	.00105	.00036	.00002
%RSD	26.520	56.695	.30169	2.4713	93.943	26.602	5863.0	103.71	37.928	66.353	7.0949	85.587	25.760
#1	.00078	-.00112	.00008	.00012	.00545	-.00022	.00096	.00594	.00084	.00170	.01400	.00068	.00008
#2	.00115	-.00261	.00008	.00012	.00110	-.00032	-.00091	.00091	.00146	.00472	.01548	.00017	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00132**	**-.00015**	**.00007**
Stddev	.00030	.00032	.00056	.00042
%RSD	305.74	24.128	373.60	595.10
#1	-.00031	-.00155	-.00054	.00037
#2	.00012	-.00110	.00024	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2550.2**	**1831.3**	**17368.**	**3934.5**
Stddev	1.3	5.1	19.	27.1
%RSD	.05046	.28033	.11147	.68936
#1	2551.1	1835.0	17354.	3915.3
#2	2549.3	1827.7	17382.	3953.6

Sample Name: CCVL-2222402 Acquired: 8/4/2014 15:50:44 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00603**	**.18061**	**.01264**	**.01993**	**.00218**	**.00205**	**.48871**	**.00214**	**.00385**	**.00443**	**.00767**	**.05145**	**.48075**
Stddev	.00017	.01497	.00053	.00002	.00004	.00006	.00057	.00012	.00005	.00026	.00001	.00246	.01120
%RSD	2.8083	8.2863	4.2234	.11042	1.8680	3.0079	.11731	5.8100	1.3415	5.8978	.17752	4.7836	2.3306
#1	.00615	.19120	.01302	.01995	.00216	.00209	.48831	.00205	.00381	.00425	.00768	.05319	.47283
#2	.00591	.17003	.01226	.01992	.00221	.00201	.48912	.00222	.00388	.00462	.00766	.04971	.48868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03040**	**.21251**	**.00341**	**.01013**	**.98094**	**.01006**	**.00983**	**.21029**	**.01946**	**.02666**	**.50880**	**.01008**	**.00494**
Stddev	.00114	.00374	.00005	.00030	.00584	.00020	.00004	.00040	.00121	.00256	.00396	.00100	.00007
%RSD	3.7593	1.7614	1.5521	2.9744	.59572	1.9455	.43603	.19232	6.2395	9.6127	.77771	9.9541	1.4014
#1	.02959	.20986	.00337	.01034	.97680	.00992	.00986	.21000	.01860	.02484	.51160	.00937	.00489
#2	.03120	.21515	.00345	.00992	.98507	.01020	.00980	.21058	.02031	.02847	.50600	.01079	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00481**	**.02026**	**.00483**	**.01024**
Stddev	.00029	.00001	.00003	.00056
%RSD	6.0806	.04394	.69182	5.4919
#1	.00502	.02026	.00481	.01064
#2	.00460	.02025	.00485	.00984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2509.4**	**1801.1**	**17562.**	**4036.7**
Stddev	26.6	19.3	131.	110.7
%RSD	1.0584	1.0738	.74750	2.7416
#1	2528.2	1814.8	17655.	3958.4
#2	2490.6	1787.4	17469.	4115.0

Sample Name: MB 480-196071/1-A Acquired: 8/4/2014 15:53:13 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.03353**	**-.00283**	**.00871**	**.00024**	**-.00001**	**.10193**	**.00005**	**-.00013**
Stddev	.00031	.00113	.00072	.00012	.00015	.00001	.00243	.00007	.00017
%RSD	55.781	3.3567	25.472	1.3426	63.753	111.63	2.3871	144.79	131.97
#1	.00034	.03274	-.00232	.00862	.00013	.00000	.10021	.00000	-.00001
#2	.00077	.03433	-.00334	.00879	.00034	-.00002	.10365	.00010	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00090**	**.00326**	**.00283**	**.00064**	**.00756**	**.00030**	**-.00005**	**.00309**
Stddev	.00026	.00014	.00021	.00698	.00002	.01065	.00016	.00002	.00057
%RSD	42.759	15.270	6.4758	246.53	2.5738	140.95	53.207	40.052	18.537
#1	.00042	-.00100	.00311	.00777	.00065	.00003	.00019	-.00004	.00268
#2	.00079	-.00081	.00340	-.00210	.00063	.01509	.00041	-.00007	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00008**	**.00055**	**.00075**	**.00249**	**-.01168**	**.00048**	**.00066**	**.00022**
Stddev	.00012	.00022	.00250	.00031	.00018	.00826	.00028	.00002	.00008
%RSD	933.17	270.94	453.53	41.369	7.2783	70.727	59.295	3.2500	34.975
#1	-.00007	-.00007	.00232	.00053	.00236	-.01752	.00028	.00067	.00016
#2	.00010	.00024	-.00121	.00097	.00262	-.00584	.00068	.00064	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00100**	**.00039**	**.00112**
Stddev	.00065	.00002	.00015
%RSD	64.880	4.3983	13.223
#1	-.00054	.00038	.00102
#2	-.00146	.00040	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2605.3**	**1885.2**	**18010.**	**4256.9**
Stddev	4.7	.9	220.	61.1
%RSD	.17871	.04629	1.2238	1.4353
#1	2608.6	1884.6	18166.	4213.7
#2	2602.0	1885.8	17854.	4300.1

Sample Name: LCS 480-196071/2-A Acquired: 8/4/2014 15:55:36 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05275**	**9.6778**	**.18343**	**.20046**	**.19040**	**.18970**	**9.1038**	**.18922**	**.19127**
Stddev	.00116	.1181	.00068	.00096	.00072	.00252	.0026	.00043	.00041
%RSD	2.1944	1.2201	.37184	.47819	.37641	1.3297	.02846	.22580	.21477
#1	.05193	9.5943	.18391	.19978	.18989	.18791	9.1057	.18952	.19156
#2	.05357	9.7613	.18295	.20113	.19090	.19148	9.1020	.18891	.19098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19232**	**.18362**	**9.4626**	**9.1194**	**.19086**	**10.431**	**.19837**	**.19050**	**9.0572**
Stddev	.00078	.00082	.0424	.1268	.00421	.085	.00172	.00035	.1351
%RSD	.40373	.44551	.44782	1.3907	2.2035	.81747	.86539	.18373	1.4917
#1	.19177	.18304	9.4326	9.0298	.18789	10.371	.19715	.19075	8.9617
#2	.19286	.18420	9.4925	9.2091	.19384	10.491	.19958	.19026	9.1528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19580**	**.19362**	**9.3816**	**.19317**	**.18915**	**9.7836**	**.19523**	**.17939**	**.19090**
Stddev	.00115	.00118	.1226	.00029	.00201	.1010	.00132	.00228	.00211
%RSD	.58672	.60859	1.3065	.14870	1.0603	1.0322	.67444	1.2734	1.1068
#1	.19661	.19445	9.4683	.19337	.18773	9.8550	.19616	.17778	.18941
#2	.19499	.19279	9.2949	.19296	.19057	9.7122	.19430	.18101	.19240
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21731**	**.20313**	**.20867**
Stddev	.00045	.00133	.00332
%RSD	.20841	.65310	1.5896
#1	.21699	.20219	.20632
#2	.21763	.20407	.21101
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2426.3**	**1822.9**	**17418.**	**4056.2**
Stddev	2.4	5.4	116.	3.7
%RSD	.10059	.29609	.66467	.09190
#1	2428.0	1826.7	17500.	4053.5
#2	2424.6	1819.0	17336.	4058.8

Sample Name: 480-64761-E-1-A Acquired: 8/4/2014 15:57:54 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.03992**	**-.00495**	**.22676**	**.06843**	**.00001**	**167.59**	**.00038**	**.00440**
Stddev	.00043	.00470	.00241	.00062	.00008	.00012	3.37	.00005	.00001
%RSD	130.15	11.770	48.646	.27334	.11098	1868.1	2.0128	12.887	.11708
#1	.00063	.03659	-.00325	.22633	.06838	-.00008	169.97	.00035	.00440
#2	.00003	.04324	-.00666	.22720	.06848	.00009	165.20	.00042	.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00045**	**.04078**	**6.7514**	**.03843**	**40.620**	**.64259**	**1.8132**	**90.830**
Stddev	.00067	.00020	.00430	.0273	.00084	.200	.00298	.0033	.363
%RSD	178.31	45.239	10.541	.40513	2.1933	.49309	.46441	.18074	.39915
#1	-.00010	.00030	.03774	6.7321	.03783	40.478	.64048	1.8109	91.086
#2	.00084	.00059	.04382	6.7708	.03902	40.761	.64470	1.8155	90.574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0827**	**.00063**	F **175.17**	**-.00193**	**.00021**	**4.3177**	**.00033**	**.97969**	**.00237**
Stddev	.0052	.00027	.30	.00110	.00116	.0040	.00031	.01902	.00001
%RSD	.48150	42.787	.17260	56.855	561.48	.09149	93.617	1.9410	.62828
#1	1.0790	.00044	174.96	-.00115	.00102	4.3149	.00054	.99313	.00236
#2	1.0864	.00083	175.39	-.00271	-.00061	4.3205	.00011	.96624	.00238
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00133**	**.00449**	**.00518**
Stddev	.00047	.00007	.00029
%RSD	35.314	1.5378	5.6211
#1	-.00166	.00454	.00498
#2	-.00099	.00444	.00539
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2129.4**	**1654.4**	**16037.**	**4002.1**
Stddev	10.9	4.5	15.	104.6
%RSD	.51361	.26944	.09574	2.6142
#1	2137.1	1657.5	16048.	3928.1
#2	2121.7	1651.2	16026.	4076.1

Sample Name: 480-64761-E-1-ASD@5 Acquired: 8/4/2014 16:00:16 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.01781**	**-.00120**	**.04651**	**.01485**	**-.00001**	**34.246**	**.00029**	**.00076**
Stddev	.00024	.01122	.00096	.00023	.00009	.00003	.840	.00016	.00010
%RSD	182.32	63.004	79.733	.49652	.63722	378.89	2.4531	55.879	13.282
#1	-.00004	.02575	-.00188	.04667	.01479	.00001	34.840	.00017	.00069
#2	.00030	.00988	-.00052	.04635	.01492	-.00003	33.652	.00040	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00076**	**.01319**	**1.4121**	**.00802**	**8.9402**	**.14555**	**.39558**	**18.107**
Stddev	.00006	.00006	.00266	.0305	.00002	.0899	.00138	.00211	.453
%RSD	25.366	7.9274	20.151	2.1585	.19271	1.0051	.95020	.53437	2.4994
#1	.00019	-.00080	.01507	1.3906	.00803	8.8766	.14458	.39708	18.427
#2	.00028	-.00072	.01131	1.4337	.00801	9.0037	.14653	.39409	17.787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22283**	**.00030**	F **34.339**	**-.00043**	**.00210**	**.88367**	**.00081**	**.20061**	**.00002**
Stddev	.00087	.00049	.200	.00069	.00228	.01167	.00012	.00438	.00005
%RSD	.39234	165.49	.58314	160.03	108.83	1.3207	14.942	2.1857	235.99
#1	.22344	-.00005	34.480	.00006	.00371	.87542	.00090	.20371	.00006
#2	.22221	.00064	34.197	-.00092	.00048	.89192	.00073	.19751	-.00002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00040**	**.00089**	**.00045**
Stddev	.00076	.00090	.00065
%RSD	190.92	102.05	145.46
#1	.00014	.00152	-.00001
#2	-.00094	.00025	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2323.5**	**1729.4**	**16663.**	**4084.7**
Stddev	3.8	2.9	75.	123.0
%RSD	.16227	.16765	.45069	3.0123
#1	2326.2	1731.5	16716.	3997.7
#2	2320.8	1727.4	16610.	4171.7

Sample Name: 480-64761-E-1-APDS Acquired: 8/4/2014 16:02:40 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05359**	**10.336**	**.20727**	**.44742**	**.26492**	**.20440**	**182.66**	**.21261**	**.21388**
Stddev	.00011	.012	.00357	.00269	.00251	.00009	.60	.00134	.00100
%RSD	.19982	.11412	1.7220	.60229	.94627	.04381	.32993	.62865	.46683
#1	.05367	10.344	.20979	.44932	.26315	.20446	182.23	.21356	.21459
#2	.05352	10.327	.20474	.44551	.26670	.20434	183.09	.21167	.21318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20433**	**.20236**	**10.033**	**16.243**	**.24346**	**51.699**	**.84266**	**2.0455**	**103.00**
Stddev	.00355	.00191	.042	.046	.00023	.498	.00772	.0124	.18
%RSD	1.7358	.94356	.41823	.28400	.09272	.96391	.91640	.60576	.17336
#1	.20182	.20101	10.004	16.211	.24330	51.347	.83720	2.0543	102.88
#2	.20684	.20372	10.063	16.276	.24362	52.051	.84812	2.0368	103.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2887**	**.21045**	F **178.97**	**.21632**	**.22030**	**14.680**	**.20976**	**1.2095**	**.20462**
Stddev	.0236	.00152	1.11	.00023	.00011	.024	.00149	.0042	.00138
%RSD	1.8310	.72268	.61761	.10733	.05049	.16644	.70897	.34994	.67294
#1	1.3054	.21152	179.75	.21616	.22038	14.662	.21081	1.2065	.20365
#2	1.2721	.20937	178.18	.21649	.22022	14.697	.20870	1.2125	.20560
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.23277**	**.22386**	**.21343**
Stddev	.00055	.00174	.00229
%RSD	.23800	.77694	1.0744
#1	.23238	.22263	.21181
#2	.23316	.22509	.21505
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2050.8**	**1612.9**	**15700.**	**3908.8**
Stddev	5.6	3.1	100.	9.0
%RSD	.27535	.19316	.63615	.23131
#1	2046.8	1610.7	15771.	3915.2
#2	2054.8	1615.1	15630.	3902.4

Sample Name: 480-64761-E-1-B MS Acquired: 8/4/2014 16:05:05 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05640**	**10.222**	**.20708**	**.45708**	**.26377**	**.19646**	**182.56**	**.21265**	**.21471**
Stddev	.00014	.091	.01023	.02614	.00118	.00128	.14	.01286	.01446
%RSD	.25359	.88908	4.9393	5.7181	.44809	.65109	.07625	6.0469	6.7345
#1	.05630	10.286	.19985	.43860	.26294	.19737	182.65	.20355	.20448
#2	.05650	10.157	.21432	.47556	.26461	.19556	182.46	.22174	.22493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19565**	**.19566**	**9.6859**	**16.129**	**.23955**	**51.808**	**.84759**	**2.1133**	**102.44**
Stddev	.00215	.00220	.0125	.038	.00136	.238	.00495	.1266	.88
%RSD	1.0998	1.1232	.12923	.23539	.56671	.45901	.58382	5.9927	.85540
#1	.19413	.19410	9.6948	16.156	.24051	51.640	.84409	2.0238	103.06
#2	.19718	.19721	9.6771	16.103	.23859	51.976	.85108	2.2029	101.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3409**	**.21092**	F **195.35**	**.21516**	**.21674**	**14.668**	**.21397**	**1.1984**	**.20015**
Stddev	.0990	.01587	11.48	.01434	.01142	.088	.01636	.0048	.00098
%RSD	7.3821	7.5256	5.8758	6.6652	5.2706	.59998	7.6471	.39827	.48789
#1	1.2709	.19970	187.24	.20502	.20866	14.731	.20240	1.2017	.19946
#2	1.4109	.22215	203.47	.22530	.22481	14.606	.22553	1.1950	.20084
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.22591**	**.21595**	**.21504**
Stddev	.01838	.00034	.00211
%RSD	8.1342	.15830	.98139
#1	.21292	.21571	.21355
#2	.23891	.21620	.21653
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1994.7**	**1579.6**	**15603.**	**3859.3**
Stddev	92.8	67.4	73.	5.0
%RSD	4.6535	4.2664	.46574	.12973
#1	2060.3	1627.2	15654.	3855.7
#2	1929.1	1531.9	15552.	3862.8

Sample Name: 480-64761-E-1-C MSD Acquired: 8/4/2014 16:07:21 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06173**	**11.066**	**.21547**	**.47166**	**.27797**	**.21225**	**199.01**	**.22119**	**.22548**
Stddev	.00156	.041	.00651	.00954	.00181	.00026	.61	.00262	.00130
%RSD	2.5284	.36760	3.0193	2.0216	.65222	.12144	.30504	1.1847	.57604
#1	.06284	11.095	.21087	.46491	.27926	.21244	198.58	.21934	.22456
#2	.06063	11.037	.22007	.47840	.27669	.21207	199.44	.22304	.22640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21395**	**.20588**	**10.504**	**17.271**	**.25430**	**56.114**	**.91390**	**2.1846**	**109.46**
Stddev	.00463	.00080	.001	.100	.00198	.789	.00982	.0245	.23
%RSD	2.1643	.38720	.00626	.58036	.77819	1.4066	1.0742	1.1208	.20896
#1	.21723	.20644	10.505	17.342	.25570	56.672	.92084	2.1673	109.62
#2	.21068	.20531	10.504	17.200	.25290	55.556	.90696	2.2019	109.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4079**	**.22287**	F **201.76**	**.22019**	**.22265**	**15.818**	**.22832**	**1.2753**	**.21651**
Stddev	.0185	.00215	2.91	.00539	.00923	.041	.00239	.0059	.00230
%RSD	1.3117	.96275	1.4411	2.4470	4.1444	.26147	1.0459	.46156	1.0641
#1	1.3948	.22135	199.70	.21638	.21612	15.789	.23001	1.2794	.21814
#2	1.4209	.22439	203.81	.22400	.22917	15.847	.22663	1.2711	.21488
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.24207**	**.23153**	**.24053**
Stddev	.00015	.00274	.00411
%RSD	.06318	1.1825	1.7103
#1	.24218	.23346	.24344
#2	.24196	.22959	.23762
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1907.4**	**1524.0**	**14554.**	**3467.7**
Stddev	24.2	27.3	108.	9.5
%RSD	1.2671	1.7908	.74342	.27381
#1	1924.5	1543.3	14478.	3474.4
#2	1890.3	1504.7	14631.	3461.0

Sample Name: 480-64761-E-2-A Acquired: 8/4/2014 16:09:40 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.05212**	**-.00463**	**.29382**	**.08722**	**-.00005**	**199.83**	**.00071**	**.00564**
Stddev	.00060	.01031	.00298	.00143	.00031	.00016	4.19	.00001	.00013
%RSD	109.98	19.788	64.355	.48557	.35207	363.55	2.0964	1.0518	2.2217
#1	.00012	.04483	-.00252	.29281	.08744	.00007	202.79	.00072	.00556
#2	.00096	.05942	-.00673	.29483	.08700	-.00016	196.87	.00071	.00573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00056**	**.03126**	**8.1919**	**.05005**	**50.633**	**.76687**	**2.2169**	**109.54**
Stddev	.00040	.00038	.00069	.0989	.00038	.794	.00989	.0065	6.81
%RSD	82.254	67.410	2.2148	1.2077	.76835	1.5672	1.2899	.29427	6.2153
#1	.00021	.00083	.03077	8.2619	.05032	51.194	.77386	2.2123	114.35
#2	.00078	.00029	.03175	8.1220	.04978	50.072	.75987	2.2215	104.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3829**	**.00040**	F **216.49**	**-.00219**	**.00187**	**5.2780**	**.00085**	**1.2001**	**.00296**
Stddev	.0062	.00180	.59	.00124	.00088	.0396	.00014	.0377	.00047
%RSD	.44964	445.59	.27344	56.670	47.072	.74940	16.616	3.1454	15.740
#1	1.3785	.00167	216.07	-.00131	.00249	5.3060	.00095	1.2268	.00263
#2	1.3873	-.00087	216.91	-.00307	.00125	5.2501	.00075	1.1734	.00329
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00261**	**.00549**	**.00345**
Stddev	.00061	.00021	.00022
%RSD	23.242	3.8478	6.4858
#1	-.00304	.00534	.00329
#2	-.00219	.00564	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1859.0**	**1441.0**	**14058.**	**3641.9**
Stddev	10.4	7.9	126.	42.5
%RSD	.55675	.55056	.89801	1.1682
#1	1866.4	1446.6	13968.	3611.8
#2	1851.7	1435.4	14147.	3671.9

Sample Name: BLANK Acquired: 8/4/2014 16:12:02 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00990**	**-.00125**	**.00058**	**.00045**	**.00002**	**.05617**	**.00011**	**-.00029**
Stddev	.00014	.00342	.00308	.00000	.00028	.00000	.00811	.00013	.00004
%RSD	475.31	34.504	246.39	.76355	60.830	16.356	14.431	111.83	12.724
#1	.00007	-.00749	.00093	.00058	.00065	.00002	.06190	.00002	-.00026
#2	-.00013	-.01232	-.00343	.00059	.00026	.00001	.05043	.00020	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00090**	**.00326**	**.03222**	**-.00033**	**.07877**	**.00144**	**.00111**	**.05087**
Stddev	.00016	.00025	.00142	.00061	.00022	.07420	.00124	.00024	.00013
%RSD	635.76	27.914	43.473	1.8973	66.962	94.205	85.511	21.693	.26200
#1	.00014	-.00072	.00226	.03179	-.00049	.13123	.00232	.00128	.05078
#2	-.00009	-.00108	.00427	.03266	-.00018	.02630	.00057	.00094	.05097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00046**	**.06675**	**.00011**	**.00295**	**.00980**	**.00032**	**.00040**	**-.00050**
Stddev	.00028	.00006	.00378	.00140	.00392	.00729	.00007	.00005	.00002
%RSD	85.548	12.315	5.6605	1271.6	132.64	74.386	23.370	13.341	4.4486
#1	.00052	-.00050	.06942	-.00088	.00573	.00464	.00037	.00044	-.00048
#2	.00013	-.00042	.06408	.00110	.00018	.01495	.00026	.00036	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00081**	**.00013**	**-.00028**
Stddev	.00025	.00016	.00067
%RSD	30.477	127.96	239.03
#1	-.00064	.00024	.00019
#2	-.00099	.00001	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2282.9**	**1649.3**	**15944.**	**3809.2**
Stddev	.8	3.8	33.	3.9
%RSD	.03337	.23323	.20870	.10345
#1	2283.4	1646.6	15967.	3812.0
#2	2282.4	1652.1	15920.	3806.4

Sample Name: CCV Acquired: 8/4/2014 16:14:31 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .60374	F 29.839	F .55313	F .58137	F .55845	F .58274	F 28.252	F .56515	F .57645	F .55556	.52168	F 28.808
Stddev	.00279	.148	.00267	.00190	.00340	.00257	.349	.00003	.00163	.00337	.00711	.315
%RSD	.46274	.49557	.48350	.32660	.60895	.44119	1.2367	.00561	.28281	.60694	1.3629	1.0935
#1	.60572	29.943	.55124	.58003	.56085	.58456	28.499	.56517	.57761	.55794	.52671	29.031
#2	.60177	29.734	.55502	.58271	.55604	.58093	28.005	.56512	.57530	.55317	.51666	28.585
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value	.50000	25.000	.50000	.50000	.50000	.50000	25.000	.50000	.50000	.50000		25.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%		10.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 27.674	F .58825	F 28.852	F .55775	F .58145	F 28.327	F .60845	F .58361	F 28.218	F .58460	F .56601	F 29.991
Stddev	.116	.00181	.174	.00461	.00087	.030	.00083	.00391	.021	.00081	.00444	.246
%RSD	.41821	.30853	.60302	.82616	.14965	.10705	.13601	.67008	.07486	.13800	.78532	.82038
#1	27.756	.58697	28.975	.56101	.58207	28.348	.60903	.58638	28.233	.58403	.56287	30.165
#2	27.592	.58954	28.729	.55449	.58084	28.305	.60786	.58085	28.203	.58517	.56916	29.817
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	25.000	.50000	25.000	.50000	.50000	25.000	.50000	.50000	25.000	.50000	.50000	25.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .60782	F .56529	F .56281	F .62995	F .56512	F .59152
Stddev	.00164	.00028	.00439	.00208	.00297	.00190
%RSD	.26978	.04893	.78027	.32976	.52492	.32082
#1	.60898	.56549	.56591	.63142	.56722	.59287
#2	.60666	.56510	.55970	.62848	.56302	.59018
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	.50000	.50000	.50000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1966.4	1529.5	14690.	3372.5
Stddev	2.4	2.7	86.	56.5
%RSD	.12071	.17476	.58822	1.6767
#1	1968.1	1531.4	14629.	3332.6
#2	1964.7	1527.6	14751.	3412.5

Sample Name: CCB Acquired: 8/4/2014 16:16:55 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**.00489**	**-.00119**	**.00075**	**.00125**	**.00017**	**.07882**	**.00011**	**-.00013**	**.00176**	**.00032**	**.01193**	**.03841**
Stddev	.00045	.00791	.00011	.00012	.00035	.00014	.04608	.00015	.00036	.00058	.00058	.00508	.00981
%RSD	31.261	161.97	9.1259	16.603	28.089	82.873	58.463	134.14	281.65	32.873	180.41	42.599	25.554
#1	.00174	.01048	-.00111	.00066	.00149	.00007	.04623	.00001	-.00038	.00217	.00074	.00833	.04535
#2	.00111	-.00071	-.00126	.00084	.00100	.00027	.11140	.00021	.00013	.00135	-.00009	.01552	.03147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**.13774**	**.00260**	**.00046**	**.06324**	**.00006**	**.00053**	**.02155**	**-.00029**	**.00434**	**.02978**	**.00063**	**.00062**
Stddev	.00012	.04966	.00100	.00003	.02675	.00022	.00152	.00425	.00066	.00087	.01321	.00018	.00039
%RSD	12.493	36.054	38.397	6.6920	42.303	344.86	285.14	19.726	228.67	20.001	44.360	28.121	62.612
#1	.00090	.17286	.00331	.00044	.04432	.00022	.00161	.01855	-.00076	.00373	.02044	.00051	.00035
#2	.00108	.10263	.00190	.00048	.08216	-.00009	-.00054	.02456	.00018	.00496	.03913	.00076	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00137**	**-.00082**	**.00147**	**.00140**
Stddev	.00014	.00040	.00053	.00051
%RSD	10.117	49.129	35.731	36.593
#1	.00127	-.00053	.00184	.00177
#2	.00146	-.00110	.00110	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2321.9**	**1693.1**	**15894.**	**3775.9**
Stddev	.1	7.2	72.	144.4
%RSD	.00220	.42606	.45015	3.8237
#1	2321.8	1688.0	15843.	3673.8
#2	2321.9	1698.2	15944.	3878.0

Sample Name: CCVL-2222402 Acquired: 8/4/2014 16:19:25 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00739**	**.22277**	**.01467**	**.02218**	**.00240**	**.00240**	**.56543**	**.00243**	**.00431**	**.00492**	**.00849**	**.06297**
Stddev	.00026	.01845	.00043	.00029	.00001	.00005	.00735	.00004	.00014	.00005	.00010	.00018
%RSD	3.5411	8.2825	2.9240	1.3061	.25206	1.9471	1.2990	1.8210	3.3211	1.0300	1.1346	.28684
#1	.00758	.23582	.01436	.02198	.00241	.00243	.57062	.00240	.00442	.00489	.00856	.06309
#2	.00721	.20972	.01497	.02239	.00240	.00236	.56023	.00246	.00421	.00496	.00842	.06284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.57500**	**.03369**	**.25514**	W **.00427**	**.01180**	**1.1067**	**.01168**	**.01052**	W **.26152**	**.02345**	**.02878**	**.56974**
Stddev	.00686	.00023	.01171	.00014	.00006	.0218	.00018	.00213	.00298	.00056	.00031	.00694
%RSD	1.1922	.67070	4.5885	3.2804	.52754	1.9699	1.5402	20.240	1.1407	2.3706	1.0652	1.2176
#1	.57985	.03385	.24686	.00417	.01175	1.1221	.01156	.01203	.25941	.02305	.02899	.56483
#2	.57016	.03353	.26341	.00437	.01184	1.0913	.01181	.00902	.26363	.02384	.02856	.57464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value				.00300					.20000			
Range				30.000%					30.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01121**	**.00568**	**.00561**	**.02399**	**.00584**	**.01216**
Stddev	.00007	.00017	.00087	.00104	.00061	.00014
%RSD	.63852	2.9058	15.482	4.3248	10.491	1.1141
#1	.01126	.00580	.00622	.02326	.00540	.01206
#2	.01116	.00557	.00499	.02473	.00627	.01225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2287.2**	**1663.2**	**15942.**	**3579.0**
Stddev	7.7	8.4	11.	98.8
%RSD	.33448	.50217	.06698	2.7617
#1	2292.6	1669.1	15949.	3509.1
#2	2281.8	1657.3	15934.	3648.9

Sample Name: MB 480-196091/1-A Acquired: 8/4/2014 16:21:51 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.04487**	**-.00024**	**.00553**	**.00013**	**.00043**	**.19725**	**.00023**	**-.00001**
Stddev	.00026	.01552	.00158	.00009	.00004	.00054	.19696	.00011	.00004
%RSD	48.880	34.580	654.28	1.6519	33.901	124.63	99.853	49.080	326.22
#1	.00072	.05584	.00088	.00560	.00010	.00082	.33652	.00015	-.00004
#2	.00035	.03390	-.00136	.00547	.00016	.00005	.05798	.00030	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00042**	**.02261**	**.04633**	**.00208**	**.00502**	**.00013**	**.00044**	**.09404**
Stddev	.00035	.00014	.02861	.04628	.00002	.00282	.00006	.00003	.12550
%RSD	111.16	32.317	126.54	99.892	.87857	56.258	47.621	7.0021	133.46
#1	.00057	-.00032	.04284	.07906	.00207	.00302	.00009	.00042	.18278
#2	.00007	-.00052	.00238	.01361	.00209	.00701	.00018	.00046	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00019**	F **.04119**	**-.00036**	**.00448**	**.02533**	**.00039**	**.00152**	**-.00008**
Stddev	.00021	.00012	.00939	.00020	.00058	.05504	.00022	.00164	.00029
%RSD	276.82	63.371	22.789	54.995	13.008	217.29	55.459	107.90	340.13
#1	-.00022	.00027	.03455	-.00050	.00406	.06425	.00024	.00268	.00012
#2	.00007	.00010	.04783	-.00022	.00489	-.01359	.00055	.00036	-.00029
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300						
Low Limit			-.00300						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00105**	**.00020**	**-.00011**
Stddev	.00036	.00026	.00001
%RSD	34.024	126.64	9.5318
#1	-.00080	.00038	-.00010
#2	-.00130	.00002	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2350.3**	**1683.9**	**16484.**	**3753.5**
Stddev	15.2	13.9	157.	123.8
%RSD	.64826	.82310	.95039	3.2968
#1	2361.1	1693.7	16373.	3841.0
#2	2339.6	1674.1	16594.	3666.0

Sample Name: LCS 480-196091/2-A Acquired: 8/4/2014 16:24:21 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.06039**	**11.054**	**.21070**	**.22793**	**.21658**	**.21582**	**10.304**	**.21656**	**.22046**
Stddev	.00047	.022	.00146	.00093	.00093	.00067	.099	.00071	.00094
%RSD	.78521	.19623	.69125	.40765	.42931	.30928	.96050	.32700	.42517
#1	.06006	11.070	.21173	.22728	.21724	.21629	10.374	.21606	.22113
#2	.06073	11.039	.20967	.22859	.21593	.21535	10.234	.21706	.21980
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.05750								
Low Limit	.04250								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21892**	**.20683**	**10.737**	**10.266**	**.21747**	F **11.910**	**.22334**	**.21832**	**10.303**
Stddev	.00221	.00045	.069	.039	.00083	.003	.00073	.00003	.028
%RSD	1.0114	.21848	.64075	.38430	.38389	.02175	.32763	.01230	.26832
#1	.22049	.20715	10.786	10.294	.21688	11.912	.22386	.21834	10.323
#2	.21736	.20651	10.689	10.238	.21806	11.908	.22282	.21830	10.284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						11.500			
Low Limit						8.5000			

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22647**	**.22227**	**10.683**	**.21934**	**.21141**	**11.257**	**.21969**	**.20399**	**.21691**
Stddev	.00130	.00251	.086	.00037	.00001	.056	.00319	.00078	.00041
%RSD	.57385	1.1296	.80029	.16688	.00394	.49739	1.4539	.38352	.19098
#1	.22739	.22405	10.623	.21960	.21141	11.297	.22195	.20454	.21720
#2	.22555	.22050	10.744	.21909	.21142	11.217	.21743	.20344	.21662
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **.24770**	F **.23140**	F **.23530**
Stddev	.00014	.00217	.00248
%RSD	.05699	.93899	1.0520
#1	.24760	.23294	.23705
#2	.24780	.22987	.23355
Check ?	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	.23000
Low Limit	.17000	.17000	.17000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2188.9**	**1657.7**	**15865.**	**3746.2**
Stddev	14.6	19.2	50.	41.6
%RSD	.66731	1.1566	.31221	1.1095
#1	2199.2	1671.3	15830.	3716.8
#2	2178.6	1644.2	15901.	3775.6

Sample Name: LCSD 480-196091/3-A Acquired: 8/4/2014 16:26:39 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.06255**	**11.354**	**.21792**	F **.23969**	**.22434**	**.22304**	**10.555**	**.22555**	**.22748**
Stddev	.00115	.043	.00412	.00207	.00365	.00119	.020	.00122	.00004
%RSD	1.8440	.37877	1.8923	.86553	1.6278	.53346	.19127	.54197	.01860
#1	.06173	11.324	.21500	.23822	.22175	.22220	10.540	.22468	.22751
#2	.06336	11.385	.22083	.24116	.22692	.22388	10.569	.22641	.22745
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.05750			.23000					
Low Limit	.04250			.17000					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22598**	**.21304**	**11.069**	**10.603**	**.22532**	F **12.253**	F **.23049**	**.22827**	**10.641**
Stddev	.00492	.00281	.047	.064	.00124	.211	.00422	.00180	.036
%RSD	2.1759	1.3206	.42628	.60643	.55080	1.7185	1.8317	.78835	.34271
#1	.22250	.21105	11.035	10.557	.22444	12.104	.22751	.22700	10.615
#2	.22946	.21503	11.102	10.648	.22620	12.402	.23348	.22954	10.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit						11.500	.23000		
Low Limit						8.5000	.17000		

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.23419**	**.22757**	**11.329**	F **.23230**	**.22670**	F **11.574**	F **.23103**	**.21130**	**.22423**
Stddev	.00030	.00223	.076	.00197	.00299	.105	.00156	.00128	.00326
%RSD	.12995	.98004	.66947	.84869	1.3195	.91111	.67621	.60444	1.4526
#1	.23440	.22914	11.275	.23091	.22459	11.499	.22992	.21040	.22193
#2	.23397	.22599	11.383	.23370	.22882	11.648	.23213	.21221	.22653
Check ?	Chk Fail	Chk Pass	None	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	.23000			.23000		11.500	.23000		
Low Limit	.17000			.17000		8.5000	.17000		

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **.25808**	F **.23910**	F **.24324**
Stddev	.00485	.00336	.00524
%RSD	1.8806	1.4040	2.1525
#1	.25465	.23673	.23954
#2	.26151	.24147	.24694
Check ?	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	.23000
Low Limit	.17000	.17000	.17000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2114.8**	**1591.3**	**15440.**	**3687.3**
Stddev	12.6	15.1	207.	5.1
%RSD	.59576	.94956	1.3416	.13753
#1	2123.7	1602.0	15587.	3690.9
#2	2105.9	1580.6	15294.	3683.7

Sample Name: 480-64700-E-1-A Acquired: 8/4/2014 16:28:56 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.23125**	**.00289**	**.49290**	**.13391**	**.00012**	**82.193**	**.00014**	**.00070**
Stddev	.00044	.01781	.00094	.00044	.00029	.00012	.840	.00012	.00006
%RSD	76.532	7.7036	32.527	.08999	.21679	96.046	1.0214	82.825	8.6605
#1	.00027	.21865	.00356	.49258	.13412	.00004	82.787	.00022	.00066
#2	.00089	.24384	.00223	.49321	.13371	.00021	81.599	.00006	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**.00292**	**.39547**	**9.6466**	**.01929**	**12.506**	**.29286**	**.00867**	**76.105**
Stddev	.00037	.00050	.00685	.0710	.00168	.131	.00247	.00001	.411
%RSD	29.365	17.050	1.7319	.73555	8.7158	1.0458	.84443	.09730	.54037
#1	.00099	.00257	.39063	9.5964	.01810	12.413	.29111	.00867	75.815
#2	.00151	.00327	.40032	9.6967	.02048	12.598	.29461	.00866	76.396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.00380**	F **34.297**	**.00353**	**.00052**	**5.7906**	**.00147**	**.75048**	**.00483**
Stddev	.00010	.00017	.007	.00045	.00182	.0138	.00049	.00708	.00043
%RSD	2.4153	4.4470	.01952	12.883	351.45	.23861	33.329	.94292	8.8605
#1	.00427	.00392	34.292	.00321	.00180	5.7808	.00112	.75548	.00453
#2	.00412	.00368	34.302	.00385	-.00077	5.8003	.00181	.74548	.00513
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00165**	**.00750**	**.10690**
Stddev	.00034	.00059	.00623
%RSD	20.539	7.8435	5.8295
#1	-.00141	.00709	.10250
#2	-.00189	.00792	.11131
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2004.4**	**1547.4**	**14645.**	**3709.9**
Stddev	1.1	.1	86.	42.2
%RSD	.05572	.00910	.58738	1.1369
#1	2005.2	1547.3	14706.	3680.1
#2	2003.6	1547.5	14584.	3739.8

Sample Name: 480-64700-E-1-ASD@5 Acquired: 8/4/2014 16:31:22 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.07255**	**.00104**	**.11927**	**.03333**	**.00004**	**20.121**	**.00022**	**.00026**
Stddev	.00032	.00724	.00032	.00259	.00018	.00004	.277	.00008	.00022
%RSD	57.747	9.9844	30.364	2.1739	.53271	105.48	1.3748	36.115	83.992
#1	.00078	.06743	.00127	.12110	.03346	.00006	20.317	.00017	.00010
#2	.00033	.07767	.00082	.11744	.03321	.00001	19.926	.00028	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00023**	**.09851**	**2.3526**	**.00442**	**3.0879**	**.07343**	**.00212**	**17.594**
Stddev	.00007	.00036	.00040	.0011	.00035	.0457	.00100	.00013	.328
%RSD	26.603	156.50	.40513	.04688	7.9286	1.4789	1.3651	6.1303	1.8658
#1	.00032	.00049	.09823	2.3518	.00467	3.0556	.07272	.00203	17.826
#2	.00022	-.00002	.09879	2.3534	.00417	3.1202	.07414	.00221	17.362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00070**	**8.0054**	**.00159**	**.00258**	**1.4224**	**.00085**	**.18122**	**.00069**
Stddev	.00053	.00138	.2913	.00029	.00212	.0086	.00006	.00255	.00036
%RSD	86.063	198.73	3.6389	18.119	82.328	.60084	7.5855	1.4063	52.008
#1	.00024	-.00028	8.2114	.00139	.00408	1.4163	.00081	.18302	.00043
#2	.00099	.00167	7.7994	.00180	.00108	1.4284	.00090	.17942	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00161**	**.00168**	**.02687**
Stddev	.00035	.00031	.00131
%RSD	21.466	18.453	4.8933
#1	-.00137	.00146	.02594
#2	-.00186	.00190	.02780
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2081.9**	**1546.5**	**14792.**	**3605.6**
Stddev	5.7	2.6	76.	67.7
%RSD	.27185	.17090	.51667	1.8773
#1	2085.9	1544.6	14846.	3557.7
#2	2077.9	1548.3	14738.	3653.4

Sample Name: 480-64700-E-1-APDS Acquired: 8/4/2014 16:33:57 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06288**	**12.094**	**.24229**	**.75434**	**.35796**	**.24227**	**98.263**	**.24685**	**.25122**
Stddev	.00018	.420	.00056	.00585	.00303	.00780	3.266	.00161	.00001
%RSD	.28841	3.4760	.23137	.77513	.84603	3.2189	3.3243	.65163	.00486
#1	.06275	11.796	.24269	.75847	.35582	.23676	95.953	.24799	.25123
#2	.06301	12.391	.24189	.75020	.36010	.24779	100.57	.24572	.25122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24595**	**.22840**	**12.251**	**20.127**	**.24874**	**24.519**	**.50698**	**.25089**	**86.881**
Stddev	.00054	.00155	.417	.661	.00773	.070	.00142	.00194	2.835
%RSD	.21781	.67785	3.4065	3.2836	3.1059	.28358	.28089	.77465	3.2635
#1	.24557	.22730	11.956	19.660	.24328	24.470	.50597	.25226	84.876
#2	.24633	.22949	12.546	20.594	.25420	24.568	.50799	.24951	88.886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26103**	**.25480**	F **34.888**	**.25459**	**.24895**	**18.048**	**.25008**	**.98516**	**.24405**
Stddev	.00056	.00070	.215	.00166	.00279	.596	.00004	.02927	.00033
%RSD	.21429	.27308	.61622	.65285	1.1217	3.3008	.01730	2.9712	.13613
#1	.26064	.25431	35.040	.25576	.25093	17.627	.25011	.96446	.24382
#2	.26143	.25530	34.736	.25341	.24698	18.469	.25005	1.0059	.24429
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.27954**	**.26733**	**.36742**
Stddev	.00062	.00318	.00101
%RSD	.22003	1.1908	.27607
#1	.27998	.26508	.36814
#2	.27911	.26958	.36670
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1870.5**	**1475.6**	**14190.**	**3431.6**
Stddev	4.0	8.7	36.	99.5
%RSD	.21499	.58951	.25469	2.8991
#1	1867.6	1469.5	14215.	3502.0
#2	1873.3	1481.8	14164.	3361.3

Sample Name: 480-64700-E-1-B MS Acquired: 8/4/2014 16:36:19 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06889**	**12.518**	**.24484**	**.77840**	**.36584**	**.24131**	**103.99**	**.24372**	**.24652**
Stddev	.00027	.088	.00018	.00043	.00499	.00166	.19	.00049	.00269
%RSD	.39801	.69953	.07199	.05538	1.3644	.68779	.17790	.20080	1.0910
#1	.06909	12.456	.24472	.77871	.36231	.24014	103.86	.24406	.24842
#2	.06870	12.580	.24497	.77810	.36937	.24248	104.12	.24337	.24462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23968**	**.22606**	**12.310**	**20.919**	**.25687**	**24.945**	**.51892**	**.24961**	**90.923**
Stddev	.00394	.00250	.079	.176	.00235	.289	.00562	.00079	.683
%RSD	1.6442	1.1061	.64422	.84131	.91578	1.1592	1.0823	.31788	.75091
#1	.23690	.22430	12.254	20.795	.25521	24.741	.51495	.25017	90.440
#2	.24247	.22783	12.367	21.044	.25854	25.150	.52290	.24905	91.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25688**	**.24998**	F **48.612**	**.25235**	**.24402**	**18.890**	**.25381**	**1.0313**	**.24191**
Stddev	.00275	.00096	.033	.00032	.00224	.050	.00247	.0093	.00348
%RSD	1.0713	.38449	.06865	.12515	.91682	.26233	.97244	.90604	1.4396
#1	.25882	.25066	48.636	.25257	.24244	18.855	.25555	1.0247	.23945
#2	.25493	.24930	48.589	.25212	.24560	18.925	.25206	1.0379	.24438
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.27511**	**.26006**	**.37600**
Stddev	.00247	.00289	.00226
%RSD	.89797	1.1111	.60184
#1	.27686	.25801	.37440
#2	.27337	.26210	.37760
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1839.4**	**1446.7**	**13908.**	**3270.4**
Stddev	.4	5.3	106.	21.5
%RSD	.01909	.36846	.76091	.65750
#1	1839.1	1450.5	13983.	3255.1
#2	1839.6	1443.0	13833.	3285.6

Sample Name: 480-64700-E-1-C MSD Acquired: 8/4/2014 16:49:58 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07507	13.703	.25086	.80209	.39951	.26177	112.27	.25288	.25954
Stddev	.00076	.170	.00051	.00588	.00275	.00238	1.45	.00070	.00018
%RSD	1.0170	1.2425	.20346	.73308	.68792	.90958	1.2908	.27504	.06832
#1	.07561	13.583	.25122	.79793	.39757	.26008	111.24	.25239	.25967
#2	.07453	13.824	.25050	.80625	.40145	.26345	113.29	.25337	.25942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.26201	.24678	13.279	23.025	.28298	27.410	.57259	.25782	100.57
Stddev	.00181	.00129	.166	.270	.00355	.127	.00537	.00128	1.30
%RSD	.68902	.52387	1.2484	1.1718	1.2557	.46281	.93699	.49631	1.2934
#1	.26073	.24587	13.162	22.834	.28047	27.321	.56879	.25692	99.648
#2	.26329	.24770	13.396	23.216	.28549	27.500	.57638	.25873	101.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.27085	.26588	F 50.505	.25873	.24846	20.375	.26612	1.1389	.26498
Stddev	.00045	.00250	.267	.00050	.00096	.154	.00055	.0110	.00224
%RSD	.16477	.94080	.52847	.19249	.38748	.75395	.20520	.96372	.84577
#1	.27116	.26765	50.316	.25838	.24778	20.266	.26651	1.1312	.26340
#2	.27053	.26411	50.694	.25908	.24914	20.484	.26573	1.1467	.26657
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	.28443	.28477	.41664
Stddev	.00034	.00137	.00419
%RSD	.12107	.48004	1.0051
#1	.28467	.28380	.41368
#2	.28419	.28574	.41960
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1783.4	1421.1	12886.	3123.9
Stddev	6.2	8.5	71.	43.0
%RSD	.35012	.59546	.55093	1.3758
#1	1787.8	1427.1	12936.	3154.3
#2	1779.0	1415.2	12835.	3093.5

Sample Name: 480-64700-E-2-A Acquired: 8/4/2014 16:52:18 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**1.4307**	**.00094**	**.21331**	**.05136**	**.00010**	**5.4118**	**.00047**	**.00169**
Stddev	.00006	.0046	.00142	.00055	.00009	.00002	.0491	.00025	.00024
%RSD	13.670	.32487	151.22	.25581	.17397	22.342	.90779	53.653	14.281
#1	.00041	1.4340	.00194	.21292	.05130	.00012	5.4466	.00029	.00152
#2	.00050	1.4274	-.00006	.21369	.05142	.00008	5.3771	.00065	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00793**	**.03241**	**3.7130**	**10.026**	**.00162**	**5.6959**	**.17496**	**.00077**	**77.607**
Stddev	.00010	.00074	.0437	.058	.00039	.1404	.00424	.00030	.485
%RSD	1.3143	2.2826	1.1769	.58247	24.294	2.4640	2.4247	38.837	.62559
#1	.00786	.03293	3.7439	10.068	.00134	5.7951	.17796	.00056	77.264
#2	.00800	.03188	3.6821	9.9850	.00190	5.5966	.17196	.00098	77.950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00536**	**.01543**	F **16.823**	**.00091**	**.00253**	**3.4017**	**.00086**	**.04770**	**.04156**
Stddev	.00034	.00088	.019	.00014	.00027	.0618	.00028	.00055	.00252
%RSD	6.4092	5.7210	.11080	15.671	10.679	1.8168	32.335	1.1459	6.0579
#1	.00560	.01605	16.810	.00081	.00272	3.3580	.00106	.04731	.04334
#2	.00512	.01480	16.836	.00101	.00234	3.4454	.00067	.04809	.03978
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00169**	**.00259**	**.09508**
Stddev	.00176	.00015	.00358
%RSD	104.41	5.7481	3.7689
#1	-.00293	.00269	.09761
#2	-.00044	.00248	.09255
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2142.9**	**1634.6**	**15752.**	**3948.7**
Stddev	7.7	4.7	9.	45.1
%RSD	.36070	.28693	.05932	1.1415
#1	2148.3	1637.9	15745.	3916.8
#2	2137.4	1631.3	15758.	3980.6

Sample Name: CCV Acquired: 8/4/2014 16:54:45 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .58569	F 27.597	.50651	.53143	.51740	.53842	26.555	.52471	F .55238	.53509	.47272	26.984
Stddev	.00209	.002	.00511	.00201	.00102	.00049	.101	.00190	.00030	.00096	.00163	.053
%RSD	.35604	.00867	1.0085	.37909	.19743	.09165	.38187	.36238	.05353	.17900	.34434	.19559
#1	.58422	27.599	.51012	.53286	.51812	.53877	26.627	.52606	.55259	.53441	.47157	27.022
#2	.58717	27.595	.50289	.53001	.51668	.53807	26.483	.52337	.55217	.53577	.47388	26.947
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	.50000	25.000							.50000			
Range	10.000%	10.000%							10.000%			

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.597	.54329	F 27.855	.52785	.53665	26.405	F .58091	F .55980	25.895	.53496	.51076	F 28.404
Stddev	.046	.00187	.087	.00418	.00248	.044	.00272	.00209	.110	.00399	.00356	.025
%RSD	.18050	.34334	.31332	.79175	.46223	.16790	.46738	.37339	.42450	.74496	.69615	.08688
#1	25.629	.54197	27.794	.52490	.53840	26.436	.58283	.56128	25.973	.53777	.51327	28.387
#2	25.564	.54461	27.917	.53081	.53490	26.374	.57899	.55833	25.818	.53214	.50824	28.422
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value			25.000				.50000	.50000				25.000
Range			10.000%				10.000%	10.000%				10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .57964	.52716	.53053	F .60048	.53667	F .59022
Stddev	.00166	.00021	.00091	.00768	.00333	.00538
%RSD	.28650	.03970	.17080	1.2783	.62103	.91181
#1	.58081	.52701	.53117	.60591	.53431	.58642
#2	.57846	.52730	.52989	.59505	.53903	.59403
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value	.50000			.50000		.50000
Range	10.000%			10.000%		10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.1	1660.5	15349.	3511.8
Stddev	8.6	10.0	53.	7.1
%RSD	.41384	.60006	.34740	.20147
#1	2084.0	1653.5	15386.	3516.8
#2	2096.3	1667.6	15311.	3506.8

Sample Name: CCB Acquired: 8/4/2014 16:57:06 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.02340**	**.00003**	**.00131**	**.00010**	**.00002**	**.00262**	**.00010**	**.00006**	**.00085**	**-.00071**	**.00371**	**.01404**
Stddev	.00077	.00989	.00082	.00018	.00001	.00002	.00528	.00005	.00014	.00051	.00032	.00200	.00570
%RSD	872.92	42.285	2368.6	13.658	13.761	96.159	201.28	56.458	223.79	60.457	44.590	53.981	40.602
#1	.00063	.01640	-.00055	.00144	.00009	.00004	-.00111	.00006	.00016	.00121	-.00093	.00513	.01001
#2	-.00046	.03039	.00062	.00119	.00010	.00001	.00636	.00014	-.00004	.00049	-.00048	.00229	.01807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00456**	**.00015**	**.00010**	**.00853**	**-.00065**	**.00049**	**.00954**	**-.00018**	**.00232**	**.00425**	**.00013**	**.00011**
Stddev	.00028	.00340	.00001	.00013	.00410	.00031	.00132	.00048	.00070	.00122	.00554	.00020	.00000
%RSD	173.04	74.533	6.5446	128.85	48.096	48.190	270.90	5.0737	402.23	52.426	130.36	151.07	1.4083
#1	-.00004	.00216	.00014	.00019	.00563	-.00087	.00142	.00988	-.00067	.00318	.00033	-.00001	.00011
#2	.00036	.00697	.00015	.00001	.01143	-.00043	-.00045	.00919	.00032	.00146	.00816	.00027	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00101**	**-.00002**	**.00174**
Stddev	.00037	.00006	.00060	.00022
%RSD	455.20	6.3986	2738.2	12.766
#1	.00018	-.00096	-.00045	.00158
#2	-.00034	-.00105	.00040	.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2293.8**	**1655.9**	**15713.**	**3252.8**
Stddev	7.5	6.1	105.	29.2
%RSD	.32835	.36884	.67133	.89845
#1	2299.1	1660.2	15639.	3232.1
#2	2288.5	1651.5	15788.	3273.4

Sample Name: CCVL-2222402 Acquired: 8/4/2014 16:59:34 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00731**	**.20955**	**.01496**	**.02214**	W **.00287**	**.00224**	**.52964**	**.00231**	**.00433**	W **.00534**	**.00832**	**.05886**
Stddev	.00082	.00958	.00007	.00010	.00085	.00003	.00135	.00004	.00001	.00132	.00098	.00256
%RSD	11.278	4.5694	.47250	.47276	29.627	1.2616	.25512	1.8932	.19048	24.679	11.737	4.3414
#1	.00672	.21632	.01491	.02222	.00227	.00226	.53059	.00234	.00433	.00441	.00763	.05705
#2	.00789	.20278	.01501	.02207	.00347	.00222	.52868	.00228	.00434	.00627	.00901	.06067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value					.00200					.00400		
Range					30.000%					30.000%		

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53732**	**.03257**	W **.26172**	W **.00435**	**.01101**	**1.0711**	**.01078**	**.01092**	**.22691**	**.02199**	**.02775**	**.55680**
Stddev	.00788	.00008	.05731	.00110	.00012	.0039	.00006	.00066	.00566	.00009	.00048	.00359
%RSD	1.4667	.24960	21.899	25.419	1.0750	.36620	.56857	6.0052	2.4923	.38763	1.7296	.64437
#1	.54290	.03251	.22119	.00357	.01093	1.0684	.01082	.01046	.23091	.02193	.02741	.55427
#2	.53175	.03263	.30224	.00513	.01110	1.0739	.01073	.01139	.22292	.02205	.02809	.55934
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.20000	.00300								
Range			30.000%	30.000%								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01048**	**.00542**	**.00551**	**.02341**	**.00594**	**.01121**
Stddev	.00033	.00009	.00057	.00041	.00095	.00224
%RSD	3.1067	1.6153	10.438	1.7694	15.944	19.954
#1	.01071	.00536	.00510	.02370	.00527	.00963
#2	.01025	.00549	.00592	.02312	.00661	.01279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2352.8**	**1699.5**	**16485.**	**3760.4**
Stddev	.5	1.5	68.	44.5
%RSD	.01942	.08818	.41006	1.1841
#1	2353.1	1700.5	16437.	3728.9
#2	2352.5	1698.4	16533.	3791.9

Sample Name: 480-64638-J-1-A Acquired: 8/4/2014 17:02:03 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.04231**	**-.00102**	**.38976**	**.20633**	**.00010**	**100.70**	**.00048**	**.00289**
Stddev	.00052	.01575	.00138	.00468	.00203	.00008	1.49	.00038	.00019
%RSD	196.98	37.223	134.79	1.2001	.98507	74.986	1.4781	79.272	6.5775
#1	-.00010	.05344	-.00005	.39307	.20777	.00016	99.652	.00074	.00303
#2	.00063	.03117	-.00200	.38645	.20490	.00005	101.76	.00021	.00276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00751**	**.01751**	**22.144**	**.01161**	**52.827**	**.15478**	**.00108**	**124.56**
Stddev	.00009	.00045	.00348	.489	.00002	.708	.00199	.00058	1.92
%RSD	25.223	6.0172	19.879	2.2081	.17267	1.3407	1.2840	53.850	1.5442
#1	.00029	.00719	.01997	21.799	.01159	53.327	.15338	.00150	123.20
#2	.00042	.00783	.01505	22.490	.01162	52.326	.15619	.00067	125.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02425**	**.00120**	F **25.195**	**.00053**	**-.00038**	**4.6651**	**.00049**	**.94567**	**.00021**
Stddev	.00026	.00241	.212	.00073	.00183	.0379	.00037	.02351	.00022
%RSD	1.0924	201.04	.84325	137.38	479.83	.81216	74.852	2.4863	106.49
#1	.02443	.00290	25.346	.00002	.00091	4.6919	.00023	.92904	.00005
#2	.02406	-.00051	25.045	.00105	-.00168	4.6383	.00075	.96229	.00036
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00120**	**-.00023**	**.00513**
Stddev	.00148	.00050	.00009
%RSD	123.19	218.95	1.7089
#1	-.00015	.00012	.00507
#2	-.00224	-.00058	.00519
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2010.8**	**1589.8**	**15040.**	**3834.5**
Stddev	10.7	24.4	115.	27.5
%RSD	.53073	1.5320	.76746	.71706
#1	2003.2	1572.6	14958.	3853.9
#2	2018.3	1607.0	15121.	3815.0

Sample Name: 480-64699-C-1-A Acquired: 8/4/2014 17:04:30 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**1.5096**	**.00119**	**.19019**	**.17646**	**-.00002**	**39.280**	**.00648**	**.00058**
Stddev	.00031	.0036	.00209	.00072	.00026	.00004	.287	.00006	.00009
%RSD	13.896	.23848	176.45	.37900	.14488	186.57	.73188	.94937	15.463
#1	.00203	1.5071	-.00029	.18968	.17664	-.00005	39.077	.00644	.00052
#2	.00247	1.5122	.00267	.19070	.17628	.00001	39.483	.00652	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06286**	**.25533**	**2.2428**	**15.050**	**.01031**	**5.7501**	**.08226**	**.00831**	**106.79**
Stddev	.00152	.00324	.0150	.138	.00012	.1572	.00192	.00007	.07
%RSD	2.4215	1.2701	.66835	.91503	1.1269	2.7336	2.3285	.81388	.06133
#1	.06178	.25304	2.2322	14.953	.01022	5.6390	.08091	.00826	106.74
#2	.06393	.25762	2.2534	15.147	.01039	5.8612	.08362	.00835	106.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05451**	**.01074**	F **15.547**	**.00242**	**.00607**	**7.8588**	**.01357**	**.22207**	**.02080**
Stddev	.00089	.00082	.115	.00114	.00702	.0173	.00017	.00212	.00060
%RSD	1.6386	7.6071	.74251	46.961	115.55	.22001	1.2798	.95670	2.8865
#1	.05388	.01017	15.465	.00323	.00111	7.8466	.01370	.22056	.02038
#2	.05514	.01132	15.628	.00162	.01104	7.8711	.01345	.22357	.02123
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00052**	**.00259**	**.39751**
Stddev	.00054	.00006	.02615
%RSD	104.38	2.2016	6.5772
#1	-.00090	.00263	.37903
#2	-.00014	.00255	.41600
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2103.6**	**1648.1**	**15561.**	**3995.7**
Stddev	13.7	11.6	35.	35.8
%RSD	.65047	.70120	.22234	.89488
#1	2113.3	1656.3	15585.	4021.0
#2	2094.0	1640.0	15536.	3970.4

Sample Name: 480-64699-C-2-A Acquired: 8/4/2014 17:06:54 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.19072**	**.00101**	**.18278**	**.03543**	**.00008**	**38.451**	**.00088**	**.00039**
Stddev	.00064	.00025	.00118	.00151	.00024	.00008	.705	.00004	.00024
%RSD	119.46	.13000	117.25	.82557	.66955	105.16	1.8331	4.0163	62.001
#1	.00008	.19090	.00184	.18172	.03526	.00002	38.949	.00090	.00022
#2	.00099	.19054	.00017	.18385	.03560	.00013	37.952	.00085	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**.00667**	**.10839**	**12.399**	**.00903**	**5.4922**	**.02920**	**.00710**	**116.08**
Stddev	.00029	.00028	.00666	.051	.00012	.0464	.00052	.00018	3.64
%RSD	7.3346	4.2693	6.1464	.40729	1.2955	.84509	1.7868	2.5957	3.1363
#1	.00379	.00647	.10368	12.363	.00895	5.4594	.02884	.00697	118.65
#2	.00420	.00687	.11310	12.435	.00911	5.5250	.02957	.00723	113.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01723**	**.00372**	F **16.059**	**.00012**	**.00312**	**7.7636**	**.00079**	**.19151**	**.00066**
Stddev	.00024	.00080	.121	.00013	.00409	.0193	.00007	.00210	.00010
%RSD	1.3935	21.503	.75612	104.18	131.06	.24926	8.7551	1.0983	14.520
#1	.01740	.00315	15.973	.00003	.00023	7.7773	.00084	.19300	.00073
#2	.01706	.00428	16.145	.00021	.00602	7.7499	.00074	.19002	.00060
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00015**	**.00034**	**.06905**
Stddev	.00130	.00034	.00022
%RSD	861.83	100.65	.32532
#1	.00107	.00010	.06889
#2	-.00077	.00058	.06921
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2095.7**	**1648.5**	**15283.**	**3524.7**
Stddev	14.7	13.3	5.	92.3
%RSD	.69952	.80932	.03322	2.6200
#1	2106.1	1657.9	15287.	3459.4
#2	2085.3	1639.1	15280.	3590.0

Sample Name: 480-64785-E-1-A Acquired: 8/4/2014 17:10:17 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.89997**	**.00104**	**.16932**	**.06210**	**.00008**	**5.2801**	**.00025**	**.00132**
Stddev	.00024	.03513	.00005	.00167	.00008	.00002	.1280	.00003	.00005
%RSD	97.789	3.9037	4.9562	.98481	.12288	30.994	2.4249	12.960	4.0850
#1	.00008	.92482	.00100	.17050	.06205	.00009	5.3707	.00027	.00136
#2	.00042	.87513	.00108	.16814	.06216	.00006	5.1896	.00022	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00982**	**.05299**	**2.5277**	**7.3012**	**.00098**	**4.7903**	**.12077**	**.00073**	**68.987**
Stddev	.00004	.00000	.0350	.0205	.00130	.0358	.00066	.00023	.356
%RSD	.39258	.00496	1.3862	.28095	132.85	.74668	.54561	32.025	.51628
#1	.00979	.05299	2.5525	7.3157	.00190	4.7650	.12031	.00090	69.239
#2	.00985	.05299	2.5029	7.2867	.00006	4.8156	.12124	.00057	68.735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00967**	**.01339**	F **14.696**	**.00079**	**.00012**	**3.0833**	**.00090**	**.05202**	**.02621**
Stddev	.00013	.00019	.063	.00158	.00245	.0430	.00016	.00003	.00143
%RSD	1.3044	1.3896	.43147	200.88	2085.1	1.3942	18.039	.05657	5.4560
#1	.00976	.01325	14.740	-.00033	-.00161	3.1137	.00102	.05200	.02520
#2	.00958	.01352	14.651	.00190	.00185	3.0529	.00079	.05204	.02722
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00073**	**.00243**	**.08862**
Stddev	.00034	.00054	.00122
%RSD	46.597	22.326	1.3780
#1	-.00049	.00281	.08775
#2	-.00097	.00204	.08948
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2172.6**	**1659.0**	**15924.**	**3892.8**
Stddev	9.9	17.3	46.	128.4
%RSD	.45759	1.0444	.28644	3.2988
#1	2165.6	1646.7	15956.	3802.0
#2	2179.6	1671.2	15892.	3983.6

Sample Name: 480-64785-E-2-A Acquired: 8/4/2014 17:13:47 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.52047**	**.00145**	**.20605**	**.04851**	**.00003**	**25.188**	**.00011**	**.00001**
Stddev	.00008	.00572	.00012	.00138	.00029	.00001	.839	.00007	.00000
%RSD	24.487	1.0986	8.0233	.66997	.58930	18.670	3.3311	63.355	7.9805
#1	.00028	.52452	.00137	.20507	.04831	.00003	25.781	.00006	.00001
#2	.00040	.51643	.00153	.20702	.04871	.00003	24.594	.00017	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**.00528**	**1.0927**	**7.3446**	**.00147**	**3.2407**	**.08158**	**.00493**	**70.398**
Stddev	.00021	.00036	.0345	.0614	.00018	.0359	.00109	.00019	.386
%RSD	7.6054	6.7912	3.1561	.83555	12.443	1.1091	1.3328	3.9353	.54829
#1	.00262	.00553	1.1171	7.3880	.00160	3.2662	.08235	.00480	70.671
#2	.00292	.00503	1.0683	7.3013	.00134	3.2153	.08081	.00507	70.125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**.00672**	F **16.178**	**.00006**	**.00357**	**3.9010**	**.00035**	**.21592**	**.01233**
Stddev	.00019	.00131	.043	.00033	.00026	.0081	.00008	.00777	.00018
%RSD	10.968	19.495	.26756	542.12	7.2322	.20815	22.199	3.5976	1.4619
#1	.00188	.00579	16.147	-.00017	.00375	3.8953	.00041	.22142	.01246
#2	.00161	.00765	16.208	.00029	.00339	3.9068	.00030	.21043	.01220
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00152**	**.00982**	**.03009**
Stddev	.00008	.00066	.00131
%RSD	5.2758	6.7567	4.3397
#1	-.00158	.01029	.03102
#2	-.00146	.00935	.02917
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2140.9**	**1642.3**	**15539.**	**3885.5**
Stddev	10.1	7.5	57.	131.0
%RSD	.46973	.45384	.36519	3.3720
#1	2148.0	1647.5	15499.	3792.8
#2	2133.8	1637.0	15579.	3978.1

Sample Name: BLANK Acquired: 8/4/2014 17:16:44 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00116**	**-.00096**	**.00048**	**.00017**	**.00003**	**.00244**	**.00008**	**.00000**
Stddev	.00027	.00440	.00068	.00035	.00001	.00005	.00375	.00013	.0001
%RSD	67.587	378.38	70.315	73.652	5.6830	175.09	153.53	160.58	1786.8
#1	.00021	.00195	-.00144	.00073	.00016	-.00001	-.00021	-.00001	-.00007
#2	.00060	-.00427	-.00048	.00023	.00018	.00006	.00509	.00017	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00140**	**.00100**	**.00659**	**.00063**	**-.00052**	**.00016**	**-.00004**	**.03825**
Stddev	.00058	.00005	.00035	.00779	.00050	.00696	.00010	.00001	.00298
%RSD	189.99	3.5145	35.051	118.26	78.510	1329.5	61.506	35.302	7.7907
#1	.00072	-.00143	.00075	.00108	.00028	-.00544	.00023	-.00003	.03614
#2	-.00011	-.00136	.00124	.01210	.00099	.00440	.00009	-.00005	.04036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00002**	**.01668**	**.00060**	**.00216**	**-.00054**	**.00029**	**.00006**	**-.00022**
Stddev	.00001	.00035	.01317	.00143	.00105	.00141	.00013	.00004	.00012
%RSD	2.2396	1456.9	78.967	239.37	48.924	262.46	46.078	61.323	51.940
#1	-.00058	-.00022	.00736	-.00041	.00290	-.00153	.00038	.00004	-.00014
#2	-.00060	.00027	.02599	.00161	.00141	.00046	.00019	.00009	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00029**	**-.00002**	**-.00037**
Stddev	.00015	.00032	.00085
%RSD	52.462	1876.4	230.79
#1	-.00039	-.00025	.00023
#2	-.00018	.00021	-.00097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2354.5**	**1694.0**	**16464.**	**3690.5**
Stddev	10.7	7.1	154.	93.5
%RSD	.45628	.41697	.93682	2.5335
#1	2362.1	1699.0	16355.	3756.6
#2	2346.9	1689.0	16573.	3624.3

Sample Name: MB 480-196092/1-A Acquired: 8/4/2014 17:19:38 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.02856**	**-.00122**	**.00459**	**.00019**	**-.00001**	**.05666**	**.00006**	**-.00024**
Stddev	.00005	.01347	.00058	.00017	.00015	.00003	.00210	.00012	.00017
%RSD	11.233	47.161	47.288	3.6537	78.728	207.99	3.7025	212.66	68.133
#1	-.00049	.03808	-.00162	.00447	.00029	.00001	.05518	-.00003	-.00013
#2	-.00042	.01903	-.00081	.00470	.00008	-.00003	.05814	.00015	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00097**	**.00127**	**.03023**	**.00143**	**.01420**	**.00027**	**-.00012**	**.02671**
Stddev	.00009	.00037	.00034	.01267	.00083	.01224	.00026	.00015	.00409
%RSD	27.216	37.701	27.090	41.925	57.880	86.217	94.855	128.58	15.323
#1	.00038	-.00123	.00151	.02126	.00085	.02285	.00045	-.00001	.02961
#2	.00026	-.00071	.00102	.03919	.00202	.00554	.00009	-.00022	.02382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00056**	F **.01152**	**.00023**	**.00217**	**-.00405**	**-.00012**	**.00037**	**-.00010**
Stddev	.00014	.00075	.01686	.00051	.00270	.01390	.00040	.00002	.00017
%RSD	32.136	133.58	146.30	220.41	124.79	342.81	331.04	5.1670	175.36
#1	-.00034	-.00110	-.00040	-.00013	.00408	.00577	-.00040	.00036	-.00021
#2	-.00055	-.00003	.02344	.00060	.00025	-.01388	.00016	.00038	.00002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300						
Low Limit			-.00300						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00035**	**.00001**	**.00110**
Stddev	.00002	.00005	.00018
%RSD	4.9250	409.75	16.628
#1	-.00034	-.00002	.00123
#2	-.00036	.00005	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2411.0**	**1758.0**	**16850.**	**3801.6**
Stddev	11.6	4.5	50.	40.7
%RSD	.48110	.25682	.29503	1.0716
#1	2419.2	1761.2	16886.	3830.4
#2	2402.8	1754.8	16815.	3772.8

Sample Name: LCS 480-196092/2-A Acquired: 8/4/2014 17:22:19 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.05753**	**10.381**	**.19020**	**.20927**	**.19959**	**.20270**	**9.9248**	**.20267**	**.21023**
Stddev	.00016	.013	.00186	.00002	.00039	.00123	.0126	.00042	.00051
%RSD	.27027	.12081	.97686	.00829	.19771	.60707	.12701	.20872	.24448
#1	.05742	10.372	.18889	.20928	.19931	.20183	9.9337	.20237	.21060
#2	.05764	10.390	.19152	.20926	.19986	.20357	9.9159	.20297	.20987
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.05750								
Low Limit	.04250								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20609**	**.18668**	**10.198**	**9.5751**	**.20030**	**11.217**	**.20708**	**.20184**	**9.6632**
Stddev	.00160	.00315	.033	.0422	.00306	.125	.00325	.00046	.0926
%RSD	.77603	1.6869	.32252	.44040	1.5265	1.1137	1.5715	.22648	.95852
#1	.20722	.18890	10.175	9.5453	.19814	11.305	.20938	.20152	9.5977
#2	.20496	.18445	10.221	9.6049	.20247	11.129	.20478	.20217	9.7287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21822**	**.21341**	**10.034**	**.20088**	**.19413**	**10.814**	**.21499**	**.18999**	**.20096**
Stddev	.00083	.00033	.021	.00055	.00051	.048	.00382	.00178	.00344
%RSD	.37887	.15250	.20587	.27547	.26146	.44393	1.7765	.93527	1.7142
#1	.21880	.21318	10.020	.20128	.19377	10.780	.21769	.18873	.20340
#2	.21763	.21364	10.049	.20049	.19449	10.848	.21229	.19125	.19852
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **.24120**	**.21455**	**.22477**
Stddev	.00353	.00277	.00719
%RSD	1.4623	1.2919	3.1992
#1	.24369	.21651	.22985
#2	.23870	.21259	.21968
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	.23000		
Low Limit	.17000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2264.4**	**1749.6**	**16267.**	**3682.8**
Stddev	3.5	6.3	1.	14.5
%RSD	.15591	.36193	.00751	.39245
#1	2266.9	1754.1	16266.	3672.6
#2	2261.9	1745.1	16268.	3693.1

Sample Name: 480-64773-A-6-A Acquired: 8/4/2014 17:24:46 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.16676**	**-.00061**	**.00642**	**.00298**	**.00013**	**.10387**	**.00040**	**.00001**
Stddev	.00034	.00250	.00050	.00013	.00000	.00000	.00104	.00009	.00016
%RSD	1057.3	1.5010	81.442	2.0946	.09968	.08946	.99896	22.774	2806.4
#1	.00021	.16499	-.00026	.00632	.00298	.00013	.10314	.00034	-.00011
#2	-.00027	.16853	-.00096	.00651	.00298	.00013	.10460	.00047	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**-.00083**	**.51025**	**.05991**	**.00145**	**.02880**	**.00643**	**.00063**	**.02669**
Stddev	.00042	.00009	.00048	.00607	.00048	.01079	.00009	.00014	.00689
%RSD	16.966	10.764	.09473	10.128	33.379	37.455	1.4716	22.541	25.809
#1	.00220	-.00077	.51059	.06421	.00179	.02117	.00636	.00053	.02182
#2	.00280	-.00089	.50991	.05562	.00110	.03643	.00650	.00073	.03156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00241**	**.01868**	**-.00028**	**.00224**	**.20252**	**.00018**	**.00066**	**.00130**
Stddev	.00007	.00046	.01121	.00039	.00048	.00968	.00036	.00004	.00005
%RSD	15.548	18.859	59.997	139.75	21.227	4.7823	203.86	5.6997	3.7819
#1	.00047	.00209	.01076	.00000	.00191	.19567	-.00008	.00069	.00133
#2	.00038	.00274	.02661	-.00055	.00258	.20937	.00043	.00064	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00044**	**.00015**	**.00740**
Stddev	.00128	.00003	.00050
%RSD	290.25	18.894	6.8182
#1	-.00135	.00013	.00704
#2	.00046	.00016	.00776
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2334.0**	**1687.9**	**16345.**	**3741.2**
Stddev	2.4	11.0	12.	59.8
%RSD	.10469	.65264	.07468	1.5977
#1	2332.3	1680.2	16354.	3698.9
#2	2335.7	1695.7	16337.	3783.4

Sample Name: CCV Acquired: 8/4/2014 17:27:23 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .57325	F 27.576	.50831	.53876	.51586	.53775	26.111	.52293	.53984	.51905	.47284	26.706
Stddev	.00278	.492	.00788	.00284	.00285	.00827	.360	.00166	.00521	.00119	.00675	.443
%RSD	.48451	1.7840	1.5501	.52729	.55196	1.5376	1.3784	.31772	.96577	.22887	1.4269	1.6587
#1	.57129	27.229	.50274	.53675	.51385	.53191	25.857	.52176	.53616	.51821	.46807	26.393
#2	.57521	27.924	.51388	.54077	.51787	.54360	26.366	.52411	.54353	.51989	.47761	27.020
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.50000	25.000										
Range	10.000%	10.000%										

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.503	.54269	27.010	.51495	.53782	26.361	F .57039	.54422	26.001	.54156	.52232	F 27.761
Stddev	.438	.00271	.090	.00217	.00151	.443	.00141	.00256	.071	.00474	.00563	.031
%RSD	1.7192	.49870	.33449	.42111	.28079	1.6804	.24727	.47003	.27332	.87520	1.0777	.11148
#1	25.193	.54078	26.946	.51342	.53675	26.047	.56939	.54603	25.951	.53821	.51834	27.739
#2	25.813	.54460	27.073	.51649	.53889	26.674	.57138	.54241	26.052	.54491	.52630	27.782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.50000					25.000
Range							10.000%					10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .56611	.52575	.52312	F .59398	.52623	F .55926
Stddev	.00096	.00984	.00440	.00021	.00458	.00818
%RSD	.16945	1.8724	.84181	.03479	.86975	1.4628
#1	.56543	.51879	.52001	.59383	.52300	.56505
#2	.56679	.53272	.52623	.59413	.52947	.55348
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value	.50000			.50000		.50000
Range	10.000%			10.000%		10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2090.9	1639.6	15579.	3592.8
Stddev	4.5	5.0	73.	42.5
%RSD	.21445	.30780	.46723	1.1840
#1	2094.0	1643.2	15631.	3622.9
#2	2087.7	1636.0	15528.	3562.8

Sample Name: CCB Acquired: 8/4/2014 17:30:40 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.01223	-.00057	.00030	.00007	.00012	-.00024	.00008	-.00015	.00020	-.00111	.00565	.02487
Stddev	.00064	.00586	.00116	.00038	.00001	.00004	.00041	.00014	.00007	.00036	.00019	.00022	.01359
%RSD	305.78	47.920	203.54	127.53	11.802	34.898	166.05	183.93	47.336	176.61	17.590	3.9322	54.637
#1	-.00024	.00808	-.00139	.00057	.00007	.00009	.00004	.00018	-.00020	.00046	-.00125	.00549	.01526
#2	.00066	.01637	.00025	.00003	.00006	.00015	-.00053	-.00002	-.00010	-.00005	-.00097	.00580	.03448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	-.00087	.00007	.00017	.01234	-.00014	-.00121	.00277	-.00015	.00318	.01439	.00041	.00006
Stddev	.00006	.00422	.00001	.00018	.00470	.00015	.00059	.00148	.00046	.00184	.00736	.00006	.00001
%RSD	5.8923	482.60	13.039	105.18	38.108	111.31	48.590	53.306	316.92	57.805	51.143	15.558	10.434
#1	.00099	-.00386	.00008	.00004	.00901	-.00025	-.00163	.00382	-.00047	.00448	.00919	.00046	.00005
#2	.00091	.00211	.00007	.00029	.01566	-.00003	-.00080	.00173	.00018	.00188	.01960	.00037	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	-.00005	-.00175	.00040	-.00077
Stddev	.00027	.00073	.00023	.00001
%RSD	522.12	41.603	57.904	1.8243
#1	-.00024	-.00123	.00056	-.00077
#2	.00014	-.00226	.00023	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2334.0	1692.1	16349.	3935.0
Stddev	3.8	9.7	181.	148.3
%RSD	.16135	.57561	1.1091	3.7695
#1	2331.4	1685.2	16220.	3830.2
#2	2336.7	1699.0	16477.	4039.9

Sample Name: CCVL-2222402 Acquired: 8/4/2014 17:34:18 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00740**	**.23565**	**.01371**	**.02173**	**.00226**	**.00233**	**.52857**	**.00253**	**.00447**	**.00455**	**.00767**	**.06141**	**.53139**
Stddev	.00076	.01681	.00120	.00084	.00000	.00008	.00942	.00010	.00035	.00051	.00012	.00329	.00370
%RSD	10.322	7.1319	8.7526	3.8588	.16639	3.5963	1.7821	3.9464	7.8319	11.218	1.6187	5.3620	.69555
#1	.00794	.24753	.01456	.02232	.00226	.00239	.53523	.00260	.00472	.00491	.00758	.06374	.52878
#2	.00686	.22376	.01286	.02114	.00225	.00227	.52191	.00245	.00422	.00419	.00776	.05908	.53400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03268**	**.23365**	**.00369**	**.01123**	**1.0685**	**.01153**	**.01106**	**.23497**	**.02162**	**.02935**	**.55865**	**.01110**	**.00540**
Stddev	.00123	.00218	.00010	.00019	.0134	.00041	.00009	.01495	.00023	.00208	.00758	.00022	.00012
%RSD	3.7668	.93503	2.7201	1.6899	1.2506	3.5286	.83810	6.3644	1.0848	7.0930	1.3569	1.9740	2.2066
#1	.03355	.23519	.00362	.01136	1.0779	.01181	.01112	.24555	.02145	.02788	.56401	.01095	.00548
#2	.03181	.23210	.00376	.01110	1.0590	.01124	.01099	.22440	.02178	.03082	.55329	.01126	.00531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00520**	**.02407**	**.00619**	**.01074**
Stddev	.00021	.00140	.00023	.00080
%RSD	4.0994	5.8183	3.7477	7.4464
#1	.00505	.02308	.00602	.01018
#2	.00535	.02506	.00635	.01131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2344.6**	**1718.4**	**16401.**	**3678.7**
Stddev	4.0	12.3	45.	41.2
%RSD	.17126	.71496	.27576	1.1199
#1	2341.8	1709.7	16369.	3649.5
#2	2347.5	1727.1	16432.	3707.8

Sample Name: 190-4805-M-3-A Acquired: 8/4/2014 17:37:19 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.03455**	**.01106**	**.29513**	**.27959**	**.00003**	**147.95**	**.00034**	**-.00016**
Stddev	.00013	.02154	.00040	.00259	.00078	.00003	3.40	.00005	.00012
%RSD	39.152	62.363	3.6082	.87828	.27850	106.08	2.2958	14.997	77.618
#1	-.00041	.01931	.01078	.29697	.28014	.00001	150.35	.00031	-.00025
#2	-.00023	.04978	.01134	.29330	.27904	.00005	145.54	.00038	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00057**	**2.6898**	**2.4365**	**-.00244**	**35.189**	**.23039**	**.00176**	**174.95**
Stddev	.00035	.00032	.0470	.0246	.00099	.064	.00051	.00023	2.45
%RSD	96.182	56.428	1.7486	1.0118	40.602	.18144	.21931	12.831	1.4011
#1	.00012	-.00080	2.7231	2.4539	-.00314	35.234	.23075	.00160	176.68
#2	.00062	-.00034	2.6566	2.4191	-.00174	35.144	.23003	.00192	173.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**.00347**	F **23.918**	**-.00102**	**-.00021**	**8.5347**	**.00117**	**.27230**	**.00016**
Stddev	.00034	.00061	.127	.00007	.00216	.1307	.00042	.00263	.00029
%RSD	26.181	17.503	.53134	7.2459	1050.8	1.5316	35.998	.96482	175.42
#1	.00106	.00304	24.008	-.00107	.00132	8.6271	.00087	.27416	.00037
#2	.00154	.00390	23.829	-.00097	-.00173	8.4422	.00146	.27044	-.00004
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00137**	**-.00033**	**1.2441**
Stddev	.00074	.00000	.0028
%RSD	53.941	.01408	.22370
#1	-.00189	-.00033	1.2460
#2	-.00085	-.00033	1.2421
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1965.3**	**1567.3**	**14912.**	**3721.3**
Stddev	.3	10.7	8.	105.1
%RSD	.01648	.68419	.05210	2.8247
#1	1965.5	1559.7	14918.	3646.9
#2	1965.1	1574.9	14907.	3795.6

Sample Name: 190-4805-M-3-ASD@5 Acquired: 8/4/2014 17:40:15 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02190**	**.00131**	**.06476**	**.06285**	**-.00002**	**33.502**	**.00025**	**-.00006**
Stddev	.00077	.01367	.00208	.00080	.00068	.00002	1.174	.00009	.00004
%RSD	420.15	62.427	158.12	1.2354	1.0863	120.08	3.5049	35.176	70.048
#1	-.00073	.03156	-.00015	.06532	.06237	-.00004	34.333	.00019	-.00003
#2	.00036	.01223	.00278	.06419	.06333	.00000	32.672	.00031	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.00105**	**.61488**	**.57813**	**-.00041**	**8.2237**	**.05106**	**.00032**	**40.140**
Stddev	.00038	.00018	.00031	.02569	.00082	.0758	.00045	.00009	1.382
%RSD	86.803	17.064	.05106	4.4434	199.56	.92160	.88858	28.386	3.4417
#1	.00017	-.00092	.61466	.59630	-.00100	8.2773	.05138	.00039	41.117
#2	.00071	-.00117	.61511	.55997	.00017	8.1701	.05074	.00026	39.163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00008**	**5.1080**	**.00079**	**.00071**	**1.9207**	**.00043**	**.06456**	**-.00008**
Stddev	.00055	.00010	.1580	.00012	.00269	.0448	.00023	.00050	.00004
%RSD	682.22	121.17	3.0932	14.841	377.52	2.3331	52.451	.77363	45.505
#1	-.00047	.00001	5.2197	.00071	-.00119	1.8890	.00059	.06421	-.00010
#2	.00031	.00015	4.9962	.00087	.00261	1.9524	.00027	.06491	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00104**	**-.00039**	**.27785**
Stddev	.00007	.00020	.00259
%RSD	6.8983	51.424	.93037
#1	-.00109	-.00053	.27968
#2	-.00099	-.00025	.27602
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2154.1**	**1638.4**	**15471.**	**3635.9**
Stddev	1.2	4.9	134.	121.0
%RSD	.05715	.29921	.86629	3.3272
#1	2153.3	1635.0	15566.	3550.4
#2	2155.0	1641.9	15376.	3721.5

Sample Name: 190-4805-M-3-APDS Acquired: 8/4/2014 17:42:52 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05777**	**10.760**	**.23003**	**.50203**	**.45727**	**.22230**	**159.11**	**.22416**	**.23024**
Stddev	.00120	.042	.00403	.00681	.00023	.00073	1.17	.00046	.00123
%RSD	2.0708	.38629	1.7539	1.3562	.05008	.32760	.73610	.20320	.53602
#1	.05862	10.731	.22717	.49722	.45711	.22178	158.28	.22383	.23112
#2	.05693	10.790	.23288	.50685	.45743	.22281	159.93	.22448	.22937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21955**	**.19927**	**13.338**	**12.309**	**.20483**	**45.991**	**.41754**	**.21802**	**182.39**
Stddev	.00263	.00029	.093	.066	.00122	.530	.00402	.00046	1.18
%RSD	1.1977	.14751	.69448	.53839	.59594	1.1514	.96192	.21149	.64750
#1	.21769	.19906	13.272	12.262	.20569	46.366	.42038	.21770	181.56
#2	.22141	.19948	13.403	12.356	.20396	45.617	.41470	.21835	183.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23808**	**.23254**	F **23.191**	**.22496**	**.21712**	**19.680**	**.22775**	**.46407**	**.21381**
Stddev	.00159	.00196	.181	.00158	.00416	.109	.00688	.00283	.00247
%RSD	.66670	.84284	.78097	.70312	1.9172	.55517	3.0210	.61039	1.1575
#1	.23920	.23393	23.063	.22384	.22006	19.603	.23262	.46207	.21206
#2	.23695	.23116	23.319	.22608	.21417	19.757	.22289	.46608	.21556
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.25098**	**.23005**	**1.4373**
Stddev	.00638	.00327	.0299
%RSD	2.5418	1.4215	2.0820
#1	.25549	.22774	1.4162
#2	.24647	.23236	1.4585
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1935.4**	**1592.1**	**15011.**	**3620.5**
Stddev	15.3	23.1	181.	24.1
%RSD	.79244	1.4490	1.2056	.66676
#1	1946.2	1608.4	14883.	3637.6
#2	1924.6	1575.8	15139.	3603.4

Sample Name: 190-4805-M-3-B MS Acquired: 8/4/2014 17:45:30 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06106	10.878	.22133	.51483	.47335	.21104	161.36	.21315	.21629
Stddev	.00024	.154	.00238	.00225	.00153	.00335	2.05	.00074	.00195
%RSD	.39790	1.4146	1.0768	.43793	.32425	1.5877	1.2731	.34652	.90035
#1	.06123	10.770	.22301	.51643	.47227	.20867	159.91	.21367	.21767
#2	.06088	10.987	.21964	.51324	.47444	.21341	162.81	.21263	.21491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20193	.19214	12.819	12.533	.21079	46.161	.41265	.20817	190.01
Stddev	.00191	.00246	.190	.175	.00320	.315	.00366	.00084	3.07
%RSD	.94457	1.2809	1.4789	1.3987	1.5179	.68147	.88672	.40350	1.6152
#1	.20328	.19388	12.685	12.409	.20853	45.939	.41006	.20876	187.84
#2	.20059	.19040	12.953	12.657	.21306	46.384	.41523	.20758	192.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22455	.22154	F 34.794	.21619	.21125	19.551	.22163	.47952	.20328
Stddev	.00118	.00297	.153	.00042	.00122	.301	.00240	.00941	.00336
%RSD	.52667	1.3395	.43880	.19290	.57814	1.5378	1.0807	1.9616	1.6537
#1	.22539	.22364	34.902	.21589	.21211	19.339	.22332	.47287	.20566
#2	.22372	.21944	34.686	.21648	.21038	19.764	.21994	.48617	.20090
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	.23460	.21631	1.4357
Stddev	.00383	.00316	.0336
%RSD	1.6329	1.4624	2.3421
#1	.23731	.21854	1.4595
#2	.23189	.21407	1.4119
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1915.4	1566.3	14881.	3662.1
Stddev	5.4	.0	53.	28.0
%RSD	.27968	.00244	.35720	.76404
#1	1911.6	1566.3	14919.	3681.9
#2	1919.2	1566.3	14844.	3642.3

Sample Name: 190-4805-M-3-C MSD Acquired: 8/4/2014 17:48:04 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06271**	**10.957**	**.22484**	**.51948**	**.47720**	**.21252**	**163.21**	**.21613**	**.21874**
Stddev	.00134	.270	.00376	.00360	.00160	.00276	1.69	.00011	.00064
%RSD	2.1299	2.4667	1.6716	.69346	.33576	1.3010	1.0370	.05284	.29412
#1	.06365	11.148	.22750	.51693	.47607	.21447	164.40	.21621	.21919
#2	.06176	10.766	.22219	.52203	.47833	.21056	162.01	.21605	.21828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20826**	**.19794**	**12.973**	**12.587**	**.20914**	**46.641**	**.41586**	**.21075**	**189.27**
Stddev	.00078	.00242	.143	.205	.00413	.429	.00190	.00082	2.86
%RSD	.37322	1.2231	1.1041	1.6259	1.9767	.91973	.45657	.38950	1.5086
#1	.20881	.19965	13.074	12.732	.21206	46.944	.41721	.21017	191.29
#2	.20771	.19623	12.871	12.443	.20621	46.337	.41452	.21133	187.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22733**	**.22275**	F **34.951**	**.22081**	**.21431**	**19.819**	**.22341**	**.47892**	**.21052**
Stddev	.00068	.00148	.048	.00192	.00388	.214	.00228	.00612	.00087
%RSD	.29926	.66336	.13627	.86945	1.8093	1.0790	1.0184	1.2777	.41366
#1	.22685	.22171	34.917	.21945	.21157	19.970	.22180	.48325	.21113
#2	.22782	.22380	34.984	.22217	.21705	19.668	.22502	.47459	.20990
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.23820**	**.22355**	**1.4765**
Stddev	.00080	.00286	.0190
%RSD	.33556	1.2801	1.2839
#1	.23763	.22557	1.4899
#2	.23877	.22152	1.4631
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1912.5**	**1564.3**	**14782.**	**3611.7**
Stddev	7.5	6.3	79.	25.0
%RSD	.39277	.40332	.53655	.69210
#1	1917.8	1568.7	14726.	3594.0
#2	1907.2	1559.8	14838.	3629.4

Sample Name: 190-4804-B-1-A Acquired: 8/4/2014 17:51:36 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00149**	**.07857**	**.06683**	**1.1388**	**.85973**	**.00011**	**180.71**	**-.00006**	**.00357**
Stddev	.00032	.00515	.00007	.0045	.01308	.00001	.77	.00016	.00029
%RSD	21.348	6.5566	.11076	.39656	1.5209	12.039	.42793	243.00	8.1299
#1	.00127	.07493	.06678	1.1356	.86897	.00010	181.25	.00005	.00377
#2	.00172	.08222	.06689	1.1420	.85048	.00012	180.16	-.00018	.00336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00242**	**.00075**	**57.157**	**32.115**	**.04458**	**66.033**	**.25683**	**.00658**	**271.95**
Stddev	.00078	.00035	.396	.469	.00022	.205	.00064	.00017	4.24
%RSD	32.288	47.372	.69199	1.4611	.48334	.31023	.24980	2.5256	1.5587
#1	.00298	.00100	57.436	32.447	.04442	66.178	.25728	.00647	274.95
#2	.00187	.00050	56.877	31.783	.04473	65.889	.25637	.00670	268.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02218**	**.00754**	F **13.959**	**-.00370**	**-.00046**	**16.754**	**.00206**	**1.1767**	**.00528**
Stddev	.00023	.00031	.459	.00155	.00211	.056	.00020	.0101	.00117
%RSD	1.0338	4.1094	3.2850	41.753	461.74	.33321	9.4705	.85885	22.234
#1	.02202	.00776	13.635	-.00261	-.00195	16.793	.00192	1.1838	.00611
#2	.02235	.00732	14.284	-.00480	.00104	16.714	.00220	1.1695	.00445
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00213**	**.00597**	**.00712**
Stddev	.00188	.00079	.00636
%RSD	88.208	13.271	89.225
#1	-.00346	.00653	.01162
#2	-.00080	.00541	.00263
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1848.8**	**1531.8**	**14193.**	**3733.6**
Stddev	7.9	7.7	86.	14.1
%RSD	.42580	.50266	.60313	.37633
#1	1854.4	1537.2	14133.	3723.7
#2	1843.3	1526.3	14254.	3743.5

Sample Name: 190-4804-B-2-A Acquired: 8/4/2014 17:55:20 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00777**	**.10771**	**.57929**	**7.8687**	**7.1449**	**.00015**	**195.78**	F **-.00558**	**.02730**
Stddev	.00042	.00577	.00430	.0365	.2037	.00003	3.75	.00012	.00022
%RSD	5.4003	5.3579	.74148	.46380	2.8505	19.520	1.9174	2.1093	.81441
#1	.00807	.10363	.57625	7.8429	7.0009	.00018	198.43	-.00550	.02715
#2	.00748	.11179	.58233	7.8945	7.2889	.00013	193.12	-.00566	.02746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								4.0000	
Low Limit								-.00200	

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02054**	**.00323**	**584.41**	**126.74**	**.16819**	**127.49**	**.36823**	**-.00090**	**952.87**
Stddev	.00122	.00013	11.94	2.60	.00118	1.36	.00422	.00012	19.06
%RSD	5.9276	4.1242	2.0422	2.0530	.70080	1.0689	1.1452	13.286	2.0000
#1	.01968	.00313	592.85	128.58	.16902	126.52	.36525	-.00099	966.34
#2	.02141	.00332	575.97	124.90	.16736	128.45	.37122	-.00082	939.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14976**	**.03696**	F **11.006**	F **-.03337**	**.00320**	**57.103**	**.01734**	**3.9070**	**.05438**
Stddev	.00238	.00071	.083	.00051	.00789	1.112	.00033	.0592	.00309
%RSD	1.5884	1.9115	.75522	1.5293	246.99	1.9469	1.9213	1.5156	5.6764
#1	.14807	.03646	10.947	-.03373	-.00239	57.889	.01758	3.8651	.05220
#2	.15144	.03746	11.065	-.03301	.00878	56.317	.01711	3.9489	.05656
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000	44.000					
Low Limit			-.50000	-.02000					

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **-.02168**	**.08868**	**.01394**
Stddev	.00051	.00549	.00023
%RSD	2.3630	6.1857	1.6317
#1	-.02132	.08480	.01411
#2	-.02204	.09256	.01378
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	35.000		
Low Limit	-.02000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1586.2**	**1380.7**	**13086.**	**3573.5**
Stddev	10.8	6.4	144.	58.2
%RSD	.68112	.46575	1.1025	1.6280
#1	1593.9	1385.2	13189.	3532.4
#2	1578.6	1376.1	12984.	3614.6

Sample Name: 190-4804-B-2-A@5 Acquired: 8/4/2014 17:58:36 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00131**	**.02491**	**.12444**	**1.8286**	**1.6921**	**.00016**	**47.369**	**-.00085**	**.00622**
Stddev	.00086	.00818	.00011	.0062	.0388	.00013	.887	.00004	.00029
%RSD	65.656	32.855	.08981	.33855	2.2921	79.569	1.8716	4.6793	4.6913
#1	.00192	.03070	.12436	1.8242	1.7195	.00007	47.996	-.00088	.00643
#2	.00070	.01912	.12452	1.8330	1.6647	.00025	46.742	-.00083	.00601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.00019**	**148.03**	**28.816**	**.03853**	**30.512**	**.08998**	**-.00025**	**217.51**
Stddev	.00015	.00047	.53	.603	.00054	.652	.00143	.00007	4.41
%RSD	2.8339	241.88	.35557	2.0938	1.4078	2.1385	1.5888	29.896	2.0252
#1	.00535	-.00014	148.41	29.243	.03891	30.050	.08897	-.00020	220.62
#2	.00557	.00053	147.66	28.389	.03815	30.973	.09099	-.00030	214.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03350**	**.00458**	**2.3621**	**-.00872**	**-.00178**	**13.898**	**.00421**	**.93283**	**.01169**
Stddev	.00024	.00036	.0418	.00119	.00128	.056	.00051	.02451	.00097
%RSD	.71704	7.8610	1.7709	13.622	72.254	.40160	12.134	2.6280	8.2789
#1	.03367	.00433	2.3325	-.00956	-.00087	13.938	.00385	.95016	.01100
#2	.03333	.00483	2.3917	-.00788	-.00269	13.859	.00458	.91550	.01237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00628**	**.01927**	**.00436**
Stddev	.00099	.00020	.00110
%RSD	15.724	1.0486	25.257
#1	-.00558	.01913	.00358
#2	-.00698	.01942	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1842.2**	**1483.8**	**13793.**	**3406.5**
Stddev	3.7	7.7	204.	56.7
%RSD	.19821	.52051	1.4796	1.6646
#1	1844.7	1489.3	13937.	3366.4
#2	1839.6	1478.4	13649.	3446.6

Sample Name: 190-4783-D-2-A Acquired: 8/4/2014 18:01:47 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.02636**	**.03894**	**.10451**	**.15577**	**.00001**	**73.428**	**.00045**	**-.00012**
Stddev	.00012	.01365	.00088	.00057	.00502	.00008	1.010	.00003	.00009
%RSD	32.299	51.792	2.2577	.54677	3.2234	970.19	1.3751	6.9551	76.465
#1	.00047	.01671	.03832	.10410	.15222	-.00005	74.142	.00047	-.00018
#2	.00030	.03602	.03957	.10491	.15932	.00006	72.714	.00043	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.00050**	**1.2836**	**1.5563**	**.00914**	**39.308**	**.01371**	**.02173**	**12.253**
Stddev	.00015	.00043	.0098	.0234	.00061	1.215	.00002	.00014	.115
%RSD	42.178	86.519	.76035	1.5012	6.7100	3.0914	.12268	.66688	.93520
#1	.00046	-.00081	1.2905	1.5398	.00871	38.449	.01370	.02183	12.334
#2	.00025	-.00019	1.2767	1.5728	.00958	40.167	.01372	.02162	12.172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00416**	F **14.305**	**-.00074**	**-.00002**	**9.2673**	**.00073**	**.73262**	**.00014**
Stddev	.00033	.00032	.111	.00093	.00438	.0060	.00002	.00535	.00023
%RSD	201.60	7.7495	.77399	126.44	28450.	.06468	3.2709	.73088	165.30
#1	.00007	.00439	14.227	-.00140	.00308	9.2630	.00071	.73641	.00031
#2	-.00040	.00394	14.383	-.00008	-.00311	9.2715	.00075	.72883	-.00002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00118**	**-.00007**	**.24344**
Stddev	.00024	.00002	.00045
%RSD	20.225	26.812	.18548
#1	-.00135	-.00008	.24312
#2	-.00101	-.00006	.24375
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2059.4**	**1577.5**	**14783.**	**3570.0**
Stddev	18.5	13.6	393.	35.5
%RSD	.90063	.86220	2.6563	.99531
#1	2072.5	1587.2	15061.	3544.9
#2	2046.3	1567.9	14505.	3595.2

Sample Name: CCV Acquired: 8/4/2014 18:04:31 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .55350	26.124	.48837	.52433	.49122	.51069	25.062	.50428	.52318	.50300	F .44713	25.514
Stddev	.00114	.099	.00128	.00172	.00072	.00125	.041	.00109	.00355	.00155	.00094	.045
%RSD	.20650	.37765	.26164	.32771	.14562	.24428	.16231	.21537	.67920	.30762	.20956	.17584
#1	.55269	26.193	.48927	.52555	.49072	.51157	25.090	.50504	.52067	.50409	.44779	25.546
#2	.55431	26.054	.48746	.52312	.49173	.50981	25.033	.50351	.52570	.50191	.44646	25.483
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value	.50000										.50000	
Range	10.000%										-10.000%	

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.141	.51337	26.134	.49332	.51839	24.901	F .55603	.52922	24.992	.52086	.49925	26.943
Stddev	.075	.00028	.040	.00046	.00140	.049	.00085	.00078	.063	.00415	.00319	.031
%RSD	.30976	.05370	.15436	.09283	.27075	.19487	.15284	.14714	.25175	.79738	.63930	.11600
#1	24.194	.51357	26.163	.49300	.51938	24.935	.55663	.52867	25.037	.52380	.50151	26.965
#2	24.088	.51318	26.106	.49365	.51740	24.867	.55543	.52978	24.948	.51792	.49699	26.920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							.50000					
Range							10.000%					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54780	.49665	.50283	F .57969	.50628	.54033
Stddev	.00203	.00139	.00083	.00165	.00015	.00439
%RSD	.37014	.27994	.16552	.28454	.02895	.81171
#1	.54923	.49763	.50224	.58085	.50638	.53723
#2	.54637	.49567	.50342	.57852	.50617	.54343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.50000		
Range				10.000%		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2153.8	1700.3	16127.	3730.3
Stddev	3.1	5.6	9.	4.1
%RSD	.14418	.32878	.05601	.10987
#1	2151.6	1696.3	16120.	3727.4
#2	2156.0	1704.2	16133.	3733.2

Sample Name: CCB Acquired: 8/4/2014 18:06:59 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.02080**	**.00021**	**.00368**	**.00074**	**.00022**	**.03707**	**.00019**	**.00016**	**.00061**	**-.00116**	F **.05474**
Stddev	.00049	.01687	.00060	.00035	.00004	.00010	.02261	.00012	.00007	.00027	.00028	.02687
%RSD	168.68	81.116	292.88	9.3756	4.9407	46.069	60.998	67.302	46.075	44.487	24.124	49.094
#1	-.00006	.00887	.00063	.00393	.00076	.00015	.02108	.00027	.00021	.00042	-.00096	.03574
#2	.00064	.03273	-.00022	.00344	.00071	.00029	.05306	.00010	.00010	.00081	-.00136	.07374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit												.05000
Low Limit												-.05000

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05103**	**.00009**	**.02454**	**.00023**	**.00002**	**.12892**	**.00012**	**.00109**	**.00746**	**.00076**	**.00462**	**.01916**
Stddev	.00767	.00022	.00222	.00006	.00007	.04123	.00020	.00006	.00074	.00039	.00096	.00555
%RSD	15.036	235.94	9.0391	24.823	280.44	31.983	172.59	5.9272	9.8806	51.618	20.727	28.955
#1	.04561	.00025	.02297	.00019	-.00002	.09977	-.00003	.00105	.00798	.00104	.00530	.02309
#2	.05646	-.00006	.02611	.00027	.00007	.15808	.00026	.00114	.00694	.00049	.00395	.01524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00061**	**-.00027**	**-.00114**	**.00025**	**-.00042**
Stddev	.00037	.00026	.00015	.00060	.00044	.00026
%RSD	69.076	42.252	54.062	52.680	174.72	61.197
#1	.00027	.00043	-.00038	-.00072	.00057	-.00024
#2	.00080	.00080	-.00017	-.00156	-.00006	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2417.2**	**1749.6**	**16938.**	**3877.1**
Stddev	4.7	4.0	105.	99.3
%RSD	.19531	.22758	.61753	2.5620
#1	2420.5	1752.5	16864.	3806.9
#2	2413.8	1746.8	17012.	3947.4

Sample Name: CCVL-2222402 Acquired: 8/4/2014 18:09:48 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00668	.19744	.01341	.02302	W .00263	.00231	.54465	.00212	.00424	.00475	.00748	F .07915
Stddev	.00079	.00839	.00116	.00027	.00014	.00003	.02558	.00001	.00006	.00025	.00017	.01592
%RSD	11.764	4.2478	8.6467	1.1523	5.4503	1.3267	4.6965	.36011	1.4999	5.3566	2.2198	20.111
#1	.00613	.19151	.01423	.02321	.00253	.00229	.52656	.00213	.00419	.00457	.00760	.06789
#2	.00724	.20337	.01259	.02284	.00273	.00233	.56273	.00212	.00428	.00493	.00736	.09041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200							.05000
Range					30.000%							50.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.53366	.03155	.23905	.00361	.01015	1.0854	.01068	.00947	.21229	.02060	.02604	.55695
Stddev	.00040	.00043	.00689	.00012	.00007	.0339	.00024	.00036	.00214	.00098	.00001	.00183
%RSD	.07453	1.3591	2.8803	3.4141	.72025	3.1263	2.2307	3.8361	1.0068	4.7436	.04879	.32883
#1	.53338	.03125	.23418	.00352	.01021	1.0614	.01052	.00973	.21380	.02129	.02605	.55565
#2	.53394	.03186	.24392	.00370	.01010	1.1094	.01085	.00921	.21078	.01991	.02604	.55824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01059	.00532	.00519	.02145	.00553	.01178
Stddev	.00027	.00010	.00016	.00053	.00052	.00012
%RSD	2.5693	1.7880	3.1632	2.4853	9.4051	1.0532
#1	.01078	.00525	.00507	.02107	.00516	.01187
#2	.01040	.00539	.00531	.02183	.00590	.01170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2430.0	1799.2	16539.	3614.2
Stddev	5.9	1.3	372.	107.3
%RSD	.24450	.07216	2.2489	2.9683
#1	2434.2	1800.1	16802.	3690.0
#2	2425.8	1798.3	16276.	3538.3

Sample Name: MB 480-196093/1-A Acquired: 8/4/2014 18:13:18 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.04597**	**-.00017**	**.00829**	**.00027**	**-.00001**	**.08306**	**.00012**	**-.00002**
Stddev	.00031	.00395	.00014	.00026	.00001	.00008	.00080	.00007	.00001
%RSD	1023.7	8.5903	81.073	3.0804	4.4626	650.67	.95880	55.083	31.826
#1	.00019	.04876	-.00027	.00847	.00026	.00005	.08363	.00017	-.00002
#2	-.00025	.04318	-.00007	.00811	.00028	-.00007	.08250	.00007	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00079**	**.03837**	**.02682**	**.00072**	**.00623**	**.00027**	**.00012**	**.02491**
Stddev	.00010	.00016	.00356	.00680	.00056	.00116	.00000	.00003	.00135
%RSD	30.056	20.534	9.2667	25.345	77.328	18.591	.87029	26.808	5.4323
#1	.00040	-.00068	.03586	.03163	.00033	.00705	.00027	.00014	.02396
#2	.00026	-.00090	.04088	.02201	.00112	.00541	.00027	.00009	.02587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00050**	F **.00658**	**.00055**	**.00410**	**-.00498**	**.00049**	**.00060**	**.00012**
Stddev	.00029	.00045	.00205	.00065	.00089	.00134	.00032	.00000	.00000
%RSD	446.17	90.903	31.229	118.04	21.853	26.844	64.881	.16926	3.6320
#1	-.00027	.00082	.00513	.00009	.00346	-.00404	.00027	.00060	.00011
#2	.00014	.00018	.00803	.00101	.00473	-.00593	.00072	.00060	.00012
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300						
Low Limit			-.00300						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00061**	**.00025**	**.00829**
Stddev	.00046	.00020	.00010
%RSD	75.963	78.053	1.2124
#1	-.00094	.00039	.00821
#2	-.00028	.00011	.00836
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2470.0**	**1783.7**	**17407.**	**3862.3**
Stddev	8.6	13.3	213.	15.5
%RSD	.34628	.74452	1.2235	.40073
#1	2476.0	1793.0	17257.	3873.3
#2	2463.9	1774.3	17558.	3851.4

Sample Name: LCS 480-196093/2-A Acquired: 8/4/2014 18:16:42 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .05855	10.307	.19886	.21881	.20113	.20190	9.7892	.20815	.21422
Stddev	.00101	.025	.00079	.00011	.00341	.00070	.0078	.00116	.00092
%RSD	1.7312	.24709	.39850	.05246	1.6960	.34549	.08012	.55528	.42959
#1	.05784	10.289	.19830	.21873	.19872	.20141	9.7837	.20733	.21357
#2	.05927	10.325	.19942	.21889	.20354	.20240	9.7948	.20896	.21487
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.05750								
Low Limit	.04250								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20863	.18691	10.170	9.5345	.20163	11.349	.20982	.20918	9.7607
Stddev	.00248	.00197	.061	.0025	.00057	.074	.00143	.00096	.1237
%RSD	1.1865	1.0548	.60460	.02654	.28218	.65004	.68092	.45928	1.2674
#1	.20688	.18552	10.213	9.5363	.20123	11.297	.20881	.20851	9.8481
#2	.21038	.18830	10.126	9.5327	.20203	11.401	.21083	.20986	9.6732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22278	.21442	10.320	.20929	.20201	10.564	.21671	.19115	.20357
Stddev	.00084	.00187	.086	.00206	.00523	.055	.00403	.00040	.00198
%RSD	.37835	.87143	.83147	.98664	2.5884	.51619	1.8609	.21087	.97053
#1	.22218	.21310	10.259	.20783	.19831	10.526	.21386	.19143	.20217
#2	.22337	.21574	10.381	.21075	.20571	10.603	.21956	.19086	.20497
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F .24232	.21842	.22820
Stddev	.00656	.00099	.00096
%RSD	2.7087	.45543	.41986
#1	.23768	.21772	.22888
#2	.24696	.21913	.22752
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	.23000		
Low Limit	.17000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2252.3	1730.8	16562.	3868.9
Stddev	1.5	.8	212.	18.3
%RSD	.06543	.04420	1.2827	.47425
#1	2253.4	1731.3	16712.	3881.8
#2	2251.3	1730.2	16412.	3855.9

Sample Name: 190-4805-C-1-A Acquired: 8/4/2014 18:19:26 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.05524**	**-.00154**	**.04874**	**.14283**	**.00009**	**83.661**	**.00022**	**-.00009**
Stddev	.00057	.01153	.00220	.00009	.00075	.00003	.671	.00013	.00020
%RSD	498.86	20.875	142.56	.17692	.52804	36.876	.80162	61.005	220.95
#1	.00052	.06339	.00001	.04868	.14229	.00011	83.187	.00013	-.00024
#2	-.00029	.04709	-.00309	.04880	.14336	.00006	84.136	.00032	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00103**	**.89055**	**1.1520**	**.00335**	**28.932**	**.01826**	**.00459**	**11.933**
Stddev	.00003	.00014	.00732	.0267	.00095	.006	.00080	.00031	.055
%RSD	21.256	13.767	.82169	2.3159	28.334	.01953	4.3788	6.6503	.46037
#1	.00012	-.00093	.89573	1.1708	.00402	28.936	.01882	.00481	11.894
#2	.00017	-.00113	.88538	1.1331	.00268	28.928	.01769	.00438	11.971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00345**	**7.9412**	**-.00041**	**.00101**	**7.9934**	**.00057**	**.29105**	**-.00039**
Stddev	.00009	.00120	.0631	.00000	.00297	.1169	.00040	.00162	.00004
%RSD	23.337	34.609	.79488	.07732	292.83	1.4619	69.580	.55778	11.535
#1	-.00033	.00261	7.9858	-.00041	-.00109	8.0760	.00085	.28991	-.00042
#2	-.00046	.00430	7.8966	-.00041	.00311	7.9107	.00029	.29220	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00064**	**-.00005**	**.10061**
Stddev	.00007	.00010	.00429
%RSD	10.707	210.26	4.2680
#1	-.00069	.00002	.10365
#2	-.00059	-.00012	.09757
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2106.3**	**1615.8**	**15728.**	**3727.7**
Stddev	7.3	9.9	48.	27.4
%RSD	.34453	.61531	.30275	.73529
#1	2111.4	1622.8	15762.	3747.1
#2	2101.2	1608.8	15695.	3708.3

Sample Name: 190-4805-C-1-ASD@5 Acquired: 8/4/2014 18:22:15 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.01145**	**.00051**	**.01234**	**.03389**	**-.00001**	**18.843**	**.00022**	**.00000**
Stddev	.00014	.00586	.00053	.00071	.00013	.00003	.049	.00038	.0001
%RSD	62.160	51.226	105.69	5.7957	.38919	242.61	.25836	170.00	2801.6
#1	.00013	.00730	.00088	.01284	.03380	-.00003	18.809	.00049	.00007
#2	.00032	.01560	.00013	.01183	.03399	.00001	18.878	-.00004	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00135**	**.21377**	**.28103**	**.00105**	**6.7791**	**.00435**	**.00099**	**2.8730**
Stddev	.00040	.00011	.00125	.00135	.00001	.0767	.00005	.00018	.0063
%RSD	447.91	8.0972	.58453	.48041	.89106	1.1321	1.1077	18.541	.21972
#1	.00019	-.00142	.21466	.28008	.00104	6.7248	.00432	.00112	2.8775
#2	-.00037	-.00127	.21289	.28199	.00105	6.8333	.00439	.00086	2.8685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00059**	**1.7103**	**-.00029**	**.00277**	**1.8477**	**.00114**	**.07080**	**-.00016**
Stddev	.00029	.00090	.0233	.00081	.00219	.0121	.00002	.00007	.00008
%RSD	41.034	152.03	1.3642	282.43	79.012	.65298	2.0886	.10218	51.825
#1	.00091	.00123	1.7268	-.00086	.00431	1.8562	.00116	.07075	-.00010
#2	.00050	-.00004	1.6938	.00029	.00122	1.8392	.00113	.07085	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00143**	**-.00016**	**.02200**
Stddev	.00013	.00021	.00051
%RSD	9.0296	135.37	2.3050
#1	-.00134	-.00001	.02236
#2	-.00152	-.00030	.02164
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2172.2**	**1618.0**	**15364.**	**3636.7**
Stddev	26.6	25.0	139.	8.4
%RSD	1.2224	1.5479	.90782	.23086
#1	2153.4	1600.3	15463.	3630.7
#2	2191.0	1635.7	15266.	3642.6

Sample Name: 190-4805-C-1-APDS Acquired: 8/4/2014 18:24:53 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05821	10.996	.22049	.27141	.34840	.22613	93.975	.22791	.23451
Stddev	.00066	.030	.00193	.00075	.00304	.00083	.381	.00045	.00109
%RSD	1.1268	.26900	.87465	.27537	.87222	.36844	.40526	.19655	.46551
#1	.05774	11.017	.21913	.27194	.34625	.22554	93.706	.22759	.23374
#2	.05867	10.975	.22186	.27089	.35055	.22672	94.244	.22822	.23528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22937	.20626	11.786	11.209	.21606	40.709	.24252	.22919	21.919
Stddev	.00152	.00200	.007	.050	.00040	.442	.00298	.00011	.041
%RSD	.66254	.97015	.06210	.44503	.18530	1.0856	1.2293	.04694	.18537
#1	.22829	.20485	11.781	11.173	.21577	40.397	.24041	.22911	21.890
#2	.23044	.20768	11.792	11.244	.21634	41.022	.24463	.22926	21.948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.24173	.23859	7.7409	.23155	.22609	19.576	.23761	.48453	.22264
Stddev	.00135	.00252	.0138	.00005	.00511	.079	.00186	.00197	.00213
%RSD	.55880	1.0560	.17798	.02073	2.2613	.40596	.78247	.40657	.95492
#1	.24077	.23681	7.7312	.23158	.22971	19.520	.23630	.48314	.22114
#2	.24268	.24037	7.7507	.23152	.22248	19.632	.23892	.48593	.22415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	.26666	.24105	.34683
Stddev	.00231	.00168	.00297
%RSD	.86802	.69565	.85731
#1	.26503	.23986	.34473
#2	.26830	.24224	.34894
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.4	1617.7	15461.	3691.3
Stddev	5.4	1.3	144.	16.3
%RSD	.26727	.08262	.92912	.44074
#1	2033.2	1618.6	15562.	3702.8
#2	2025.5	1616.8	15359.	3679.8

Sample Name: 190-4805-C-1-B MS Acquired: 8/4/2014 18:27:25 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06163**	**11.031**	**.20948**	**.27315**	**.35414**	**.21555**	**95.222**	**.21713**	**.22046**
Stddev	.00187	.092	.00117	.00161	.00297	.00031	.686	.00053	.00094
%RSD	3.0359	.83413	.55684	.59095	.83771	.14190	.72065	.24221	.42706
#1	.06296	10.966	.20866	.27200	.35624	.21577	95.707	.21675	.22112
#2	.06031	11.096	.21031	.27429	.35204	.21534	94.736	.21750	.21979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21336**	**.19880**	**11.393**	**11.283**	**.21758**	**40.544**	**.23214**	**.22032**	**22.327**
Stddev	.00154	.00079	.048	.004	.00110	.419	.00321	.00044	.043
%RSD	.72402	.39576	.42036	.03811	.50754	1.0325	1.3843	.19813	.19249
#1	.21445	.19936	11.427	11.286	.21680	40.840	.23441	.22063	22.296
#2	.21227	.19825	11.359	11.280	.21836	40.248	.22987	.22001	22.357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22828**	**.22557**	F **18.519**	**.22134**	**.21419**	**19.664**	**.22725**	**.49504**	**.21519**
Stddev	.00137	.00072	.040	.00136	.00082	.053	.00002	.00025	.00184
%RSD	.59946	.32089	.21605	.61315	.38290	.27130	.01098	.05075	.85584
#1	.22925	.22506	18.491	.22038	.21361	19.702	.22726	.49521	.21649
#2	.22732	.22608	18.548	.22230	.21477	19.626	.22723	.49486	.21388
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.25076**	**.22660**	**.33137**
Stddev	.00332	.00212	.00650
%RSD	1.3224	.93425	1.9614
#1	.24842	.22810	.33596
#2	.25311	.22510	.32677
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2012.5**	**1589.9**	**15277.**	**3650.3**
Stddev	4.5	9.3	137.	41.8
%RSD	.22156	.58255	.89416	1.1448
#1	2015.7	1596.5	15180.	3620.8
#2	2009.4	1583.4	15373.	3679.9

Sample Name: 190-4805-C-1-C MSD Acquired: 8/4/2014 18:29:50 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05822**	**10.648**	**.19417**	**.24858**	**.33034**	**.20799**	**91.298**	**.20265**	**.21059**
Stddev	.00056	.206	.00033	.00156	.00002	.00316	1.844	.00069	.00046
%RSD	.96991	1.9387	.16896	.62676	.00529	1.5191	2.0200	.34144	.21671
#1	.05782	10.794	.19394	.24968	.33035	.21023	92.602	.20314	.21091
#2	.05861	10.502	.19440	.24747	.33033	.20576	89.994	.20216	.21026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20343**	**.18587**	**11.000**	**10.875**	**.21065**	**38.699**	**.22076**	**.20387**	**21.571**
Stddev	.00298	.00135	.206	.193	.00340	.466	.00224	.00135	.351
%RSD	1.4630	.72606	1.8764	1.7752	1.6154	1.2047	1.0138	.66413	1.6279
#1	.20133	.18682	11.146	11.012	.21306	38.369	.21918	.20482	21.819
#2	.20554	.18492	10.854	10.739	.20824	39.028	.22235	.20291	21.322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21840**	**.21741**	F **17.163**	**.20221**	**.19091**	**18.688**	**.21794**	**.47732**	**.20303**
Stddev	.00003	.00114	.017	.00189	.00666	.001	.00282	.00924	.00031
%RSD	.01440	.52420	.10117	.93498	3.4909	.00705	1.2937	1.9348	.15162
#1	.21843	.21822	17.176	.20355	.19562	18.687	.21993	.48385	.20281
#2	.21838	.21660	17.151	.20087	.18620	18.689	.21594	.47079	.20325
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.23653**	**.21598**	**.32468**
Stddev	.00396	.00249	.00728
%RSD	1.6727	1.1506	2.2412
#1	.23933	.21422	.31953
#2	.23373	.21774	.32982
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2090.7**	**1684.4**	**15537.**	**3684.7**
Stddev	2.5	1.8	22.	71.7
%RSD	.12167	.10438	.14416	1.9455
#1	2092.5	1683.1	15553.	3634.0
#2	2088.9	1685.6	15521.	3735.4

Sample Name: 190-4805-C-2-A Acquired: 8/4/2014 18:32:13 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.03648**	**.02098**	**.13542**	**.15912**	**.00006**	**72.767**	**.00037**	**-.00010**
Stddev	.00029	.00546	.00247	.00109	.00213	.00009	1.597	.00009	.00012
%RSD	68.741	14.968	11.768	.80287	1.3371	143.13	2.1947	24.577	119.33
#1	.00022	.03262	.01923	.13465	.15762	.00000	71.638	.00031	-.00019
#2	.00063	.04034	.02273	.13619	.16063	.00013	73.897	.00043	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00088**	**1.4402**	**1.6337**	**.00837**	**32.933**	**.02147**	**.01890**	**25.225**
Stddev	.00037	.00014	.0172	.0131	.00094	.457	.00076	.00054	.492
%RSD	1023.1	15.810	1.1917	.79942	11.200	1.3870	3.5477	2.8407	1.9505
#1	.00029	-.00098	1.4281	1.6245	.00771	32.610	.02093	.01852	24.878
#2	-.00022	-.00078	1.4523	1.6430	.00904	33.256	.02201	.01928	25.573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00379**	**4.4716**	**.00051**	**-.00077**	**8.9409**	**.00086**	**.53353**	**-.00028**
Stddev	.00017	.00014	.0582	.00168	.00344	.0997	.00007	.00988	.00016
%RSD	27.299	3.6347	1.3016	327.42	445.55	1.1147	8.5489	1.8519	56.463
#1	.00050	.00369	4.4305	-.00067	-.00320	8.8704	.00091	.52655	-.00017
#2	.00074	.00388	4.5128	.00170	.00166	9.0113	.00080	.54052	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00139**	**-.00034**	**.42292**
Stddev	.00059	.00011	.01710
%RSD	42.355	31.724	4.0431
#1	-.00181	-.00041	.41083
#2	-.00098	-.00026	.43501
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2112.9**	**1627.1**	**15604.**	**3591.2**
Stddev	6.7	10.5	182.	77.4
%RSD	.31856	.64289	1.1693	2.1558
#1	2117.7	1634.5	15733.	3645.9
#2	2108.2	1619.7	15475.	3536.4

Sample Name: 190-4805-C-3-A Acquired: 8/4/2014 18:34:43 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.04226**	**.01430**	**.28798**	**.27164**	**.00001**	**139.73**	**.00026**	**-.00018**
Stddev	.00061	.00250	.00042	.00270	.00087	.00003	1.37	.00003	.00002
%RSD	107.88	5.9118	2.9570	.93846	.32159	457.69	.97989	11.160	9.8035
#1	.00013	.04402	.01460	.28607	.27226	-.00001	140.70	.00024	-.00020
#2	.00100	.04049	.01400	.28989	.27102	.00002	138.76	.00028	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00065**	**2.4882**	**2.3582**	**-.00178**	**34.824**	**.22575**	**.00218**	**166.21**
Stddev	.00021	.00033	.0292	.0132	.00091	.615	.00391	.00027	3.23
%RSD	66.329	50.366	1.1718	.55880	51.288	1.7669	1.7342	12.564	1.9458
#1	.00016	-.00042	2.5088	2.3675	-.00114	34.389	.22298	.00237	168.50
#2	.00045	-.00088	2.4676	2.3489	-.00243	35.259	.22852	.00198	163.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00391**	F **23.309**	**-.00205**	**-.00028**	**8.3633**	**.00053**	**.26112**	**.00063**
Stddev	.00022	.00044	.189	.00049	.00101	.1270	.00034	.00283	.00009
%RSD	18.566	11.194	.81142	23.710	359.68	1.5187	63.203	1.0844	13.517
#1	.00135	.00422	23.175	-.00240	-.00099	8.2735	.00077	.26312	.00069
#2	.00104	.00360	23.443	-.00171	.00043	8.4531	.00029	.25912	.00057
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00130**	**.00017**	**1.2348**
Stddev	.00212	.00100	.0394
%RSD	163.24	597.82	3.1926
#1	.00020	.00088	1.2070
#2	-.00280	-.00054	1.2627
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1960.1**	**1578.9**	**14754.**	**3838.3**
Stddev	11.2	15.1	56.	50.7
%RSD	.57021	.95922	.37835	1.3197
#1	1968.0	1589.6	14793.	3802.5
#2	1952.2	1568.2	14714.	3874.1

Sample Name: CCV Acquired: 8/4/2014 18:37:15 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .59314	F 27.931	.52042	F .55365	.52714	.54599	26.773	.53735	F .55508	.53864	.47526	27.206
Stddev	.00102	.103	.00236	.00160	.00228	.00024	.080	.00139	.00119	.00360	.00239	.072
%RSD	.17133	.36775	.45416	.28821	.43250	.04349	.29966	.25949	.21420	.66764	.50233	.26602
#1	.59385	28.003	.51875	.55252	.52553	.54616	26.830	.53636	.55592	.54119	.47695	27.257
#2	.59242	27.858	.52209	.55478	.52875	.54583	26.716	.53833	.55424	.53610	.47358	27.154
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	.50000	25.000		.50000					.50000			
Range	10.000%	10.000%		10.000%					10.000%			

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.639	F .55151	F 28.053	.52992	F .55307	26.659	F .59250	F .56503	26.697	F .55796	.53297	F 28.821
Stddev	.058	.00194	.098	.00170	.00122	.034	.00030	.00369	.071	.00670	.00043	.105
%RSD	.22454	.35187	.35088	.32171	.22118	.12822	.05074	.65370	.26724	1.2001	.08029	.36570
#1	25.680	.55014	28.122	.53113	.55221	26.683	.59272	.56764	26.647	.55323	.53266	28.896
#2	25.598	.55288	27.983	.52872	.55394	26.635	.59229	.56242	26.748	.56270	.53327	28.747
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value		.50000	25.000		.50000		.50000	.50000		.50000		25.000
Range		10.000%	10.000%		10.000%		10.000%	10.000%		10.000%		10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .58536	.53150	.53695	F .61726	.54436	F .58884
Stddev	.00043	.00054	.00001	.00085	.00066	.00403
%RSD	.07324	.10186	.00143	.13817	.12041	.68431
#1	.58506	.53188	.53695	.61665	.54390	.59169
#2	.58567	.53112	.53696	.61786	.54482	.58599
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value	.50000			.50000		.50000
Range	10.000%			10.000%		10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2041.0	1610.4	15156.	3526.7
Stddev	1.1	3.6	59.	19.7
%RSD	.05224	.22373	.38618	.55933
#1	2040.2	1613.0	15114.	3512.8
#2	2041.8	1607.9	15197.	3540.7

Sample Name: CCB Acquired: 8/4/2014 18:39:37 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00832**	**.00047**	**.00116**	**.00018**	**.00011**	**.02827**	**.00041**	**.00028**	**-.00005**	**-.00120**	**.00701**	**.04394**
Stddev	.00060	.01022	.00024	.00088	.00001	.00003	.00272	.00039	.00045	.00014	.00016	.00040	.00840
%RSD	579.09	122.79	51.666	75.666	4.7339	26.114	9.6380	96.292	162.33	282.50	13.581	5.7727	19.110
#1	-.00053	.01555	.00065	.00054	.00019	.00013	.03020	.00013	-.00004	-.00015	-.00108	.00672	.03800
#2	.00032	.00110	.00030	.00178	.00018	.00009	.02635	.00069	.00059	.00005	-.00131	.00729	.04988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.01222**	**.00015**	**.00054**	**.04529**	**-.00012**	**-.00013**	**.03510**	**.00100**	**.00515**	**.02436**	**.00091**	**.00019**
Stddev	.00054	.00251	.00008	.00077	.00757	.00059	.00084	.03691	.00076	.00058	.00903	.00030	.00006
%RSD	59.903	20.530	51.256	142.85	16.714	501.68	656.86	105.16	76.543	11.322	37.082	33.371	29.173
#1	.00052	.01045	.00021	-.00001	.05064	-.00053	-.00072	.00900	.00046	.00556	.03075	.00070	.00023
#2	.00128	.01399	.00010	.00108	.03994	.00030	.00047	.06121	.00154	.00473	.01798	.00113	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00150**	**-.00019**	**-.00008**
Stddev	.00018	.00043	.00039	.00033
%RSD	100.30	28.920	202.36	439.47
#1	-.00031	-.00181	.00008	-.00031
#2	-.00005	-.00120	-.00047	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2272.6**	**1653.3**	**15771.**	**3625.6**
Stddev	25.9	22.6	35.	13.8
%RSD	1.1380	1.3665	.21925	.38124
#1	2254.3	1637.4	15796.	3615.9
#2	2290.9	1669.3	15747.	3635.4

Sample Name: CCVL-2222402 Acquired: 8/4/2014 18:42:10 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00701**	**.21937**	**.01438**	**.02252**	**.00235**	**.00229**	**.56804**	**.00240**	**.00445**	**.00487**	**.00743**	**.06270**	**.55432**
Stddev	.00005	.01039	.00177	.00009	.00007	.00010	.00783	.00013	.00010	.00009	.00081	.00248	.00467
%RSD	.76853	4.7366	12.295	.40430	3.1298	4.1939	1.3781	5.3441	2.2775	1.7972	10.848	3.9592	.84201
#1	.00697	.22672	.01313	.02246	.00230	.00236	.56251	.00231	.00438	.00481	.00686	.06095	.55762
#2	.00705	.21202	.01563	.02258	.00241	.00223	.57358	.00250	.00452	.00494	.00799	.06446	.55102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03391**	**.23708**	**.00361**	**.01149**	**1.1146**	**.01171**	**.01037**	**.23837**	**.02318**	**.02944**	**.58452**	**.01144**	**.00557**
Stddev	.00028	.00626	.00001	.00001	.0110	.00024	.00125	.00053	.00072	.00184	.02963	.00036	.00004
%RSD	.83048	2.6410	.37954	.12569	.99021	2.0399	12.036	.22285	3.0933	6.2523	5.0696	3.1867	.69881
#1	.03411	.23266	.00362	.01150	1.1068	.01154	.00948	.23874	.02268	.03074	.56357	.01118	.00554
#2	.03371	.24151	.00360	.01148	1.1224	.01188	.01125	.23799	.02369	.02814	.60548	.01169	.00560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00481**	**.02473**	**.00531**	**.01169**
Stddev	.00024	.00028	.00033	.00066
%RSD	5.0769	1.1295	6.1642	5.6052
#1	.00464	.02492	.00554	.01216
#2	.00498	.02453	.00508	.01123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2281.5**	**1666.4**	**15981.**	**3683.8**
Stddev	5.6	2.4	56.	3.1
%RSD	.24638	.14143	.35034	.08332
#1	2285.5	1668.1	15942.	3681.6
#2	2277.6	1664.8	16021.	3686.0

Sample Name: 190-4805-C-4-A Acquired: 8/4/2014 18:44:41 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.04035**	**.00112**	**.11969**	**.31379**	**.00005**	**246.39**	**.00019**	**.00150**
Stddev	.00034	.00475	.00074	.00104	.01163	.00002	1.83	.00003	.00004
%RSD	62.297	11.769	65.846	.86860	3.7069	54.405	.74337	16.350	2.8283
#1	.00078	.04371	.00164	.12043	.30557	.00006	245.09	.00017	.00153
#2	.00030	.03699	.00060	.11896	.32202	.00003	247.68	.00022	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00091**	**.80112**	**5.6215**	**.00029**	**48.197**	**.56353**	**.00083**	**283.06**
Stddev	.00001	.00008	.00818	.0759	.00036	1.909	.02250	.00029	2.26
%RSD	4.1594	8.3445	1.0216	1.3505	122.68	3.9609	3.9918	34.556	.79999
#1	.00024	-.00096	.79534	5.5678	.00055	46.848	.54763	.00103	281.46
#2	.00022	-.00085	.80691	5.6752	.00004	49.547	.57944	.00063	284.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**.00265**	F **31.211**	**-.00080**	**-.00298**	**6.5714**	**.00138**	**1.1196**	**.00074**
Stddev	.00054	.00020	.139	.00032	.00272	.0738	.00001	.0070	.00023
%RSD	11.158	7.6249	.44566	39.632	91.205	1.1232	.89894	.62486	31.723
#1	.00449	.00250	31.309	-.00103	-.00106	6.5192	.00137	1.1146	.00057
#2	.00525	.00279	31.113	-.00058	-.00490	6.6236	.00139	1.1245	.00090
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00076**	**-.00049**	**.58012**
Stddev	.00033	.00007	.03765
%RSD	42.932	15.308	6.4898
#1	-.00099	-.00054	.55350
#2	-.00053	-.00043	.60674
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1716.1**	**1415.6**	**13713.**	**3833.5**
Stddev	4.9	13.9	448.	45.2
%RSD	.28386	.98495	3.2644	1.1787
#1	1712.6	1405.7	14030.	3865.4
#2	1719.5	1425.4	13397.	3801.5

Sample Name: 190-4805-C-5-A Acquired: 8/4/2014 18:47:15 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.03896**	**.01125**	**.19856**	**.23352**	**.00002**	**150.34**	**.00030**	**.00147**
Stddev	.00004	.01217	.00024	.00118	.00049	.00001	4.34	.00010	.00022
%RSD	19.609	31.232	2.1202	.59297	.20863	49.076	2.8845	34.310	15.202
#1	.00024	.04756	.01108	.19939	.23318	.00001	153.41	.00022	.00163
#2	.00018	.03035	.01141	.19773	.23387	.00002	147.28	.00037	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00071**	**5.6545**	**8.6688**	**.00231**	**45.211**	**.14805**	**.00203**	**57.464**
Stddev	.00040	.00057	.1529	.1296	.00005	.222	.00549	.00010	.273
%RSD	215.00	80.295	2.7044	1.4948	2.1601	.49072	3.7084	5.0250	.47535
#1	.00047	-.00112	5.7626	8.7604	.00234	45.367	.14417	.00210	57.657
#2	-.00010	-.00031	5.5464	8.5772	.00227	45.054	.15193	.00196	57.271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00503**	**.00421**	F **30.295**	**-.00166**	**.00125**	**11.112**	**.00084**	**.28178**	**.00031**
Stddev	.00034	.00016	.177	.00074	.00083	.153	.00046	.00574	.00010
%RSD	6.8164	3.8078	.58487	44.608	66.209	1.3762	54.181	2.0368	31.319
#1	.00527	.00410	30.420	-.00218	.00184	11.220	.00052	.28584	.00037
#2	.00479	.00433	30.170	-.00113	.00067	11.004	.00117	.27772	.00024
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00132**	**-.00015**	**.00372**
Stddev	.00135	.00031	.00020
%RSD	102.23	206.51	5.3594
#1	-.00037	.00007	.00358
#2	-.00227	-.00037	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1931.6**	**1516.7**	**14240.**	**3469.2**
Stddev	11.2	1.3	6.	97.4
%RSD	.57938	.08330	.04532	2.8069
#1	1923.7	1515.8	14236.	3400.4
#2	1939.5	1517.6	14245.	3538.1

Sample Name: 190-4797-C-1-A Acquired: 8/4/2014 18:49:41 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.03918**	**.00099**	**.19864**	**.28058**	**.00010**	**133.79**	**.00043**	**-.00002**
Stddev	.00017	.00529	.00045	.00130	.00234	.00005	3.26	.00005	.00005
%RSD	263.86	13.504	45.348	.65592	.83530	50.793	2.4388	12.540	282.28
#1	-.00006	.04292	.00130	.19772	.27892	.00013	131.48	.00040	.00002
#2	.00019	.03544	.00067	.19956	.28224	.00006	136.10	.00047	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00088**	**3.1326**	**2.9964**	**.00253**	**41.474**	**.14271**	**.00241**	**90.687**
Stddev	.00071	.00028	.0504	.0379	.00076	.595	.00032	.00002	1.036
%RSD	139.64	31.500	1.6103	1.2654	29.796	1.4355	.22478	.90978	1.1420
#1	.00101	-.00068	3.0969	2.9696	.00307	41.053	.14294	.00239	89.954
#2	.00001	-.00107	3.1683	3.0232	.00200	41.895	.14249	.00243	91.419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00301**	F **10.103**	**-.00074**	**.00157**	**7.8294**	**.00081**	**.72619**	**.00034**
Stddev	.00021	.00106	.065	.00101	.00213	.0949	.00010	.01575	.00021
%RSD	43.405	35.130	.64773	137.18	135.44	1.2114	12.147	2.1690	60.317
#1	.00063	.00226	10.057	-.00002	.00007	7.7623	.00088	.71506	.00049
#2	.00033	.00375	10.149	-.00145	.00308	7.8965	.00074	.73733	.00020
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00053**	**.00014**	**.34502**
Stddev	.00001	.00010	.00150
%RSD	2.1077	73.578	.43376
#1	-.00053	.00007	.34396
#2	-.00054	.00021	.34608
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1921.2**	**1527.9**	**14351.**	**3452.7**
Stddev	7.1	12.7	105.	64.0
%RSD	.36756	.82908	.73361	1.8547
#1	1926.2	1536.9	14426.	3497.9
#2	1916.2	1518.9	14277.	3407.4

Sample Name: 190-4797-C-2-A Acquired: 8/4/2014 18:52:07 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.04112**	**.00011**	**.23537**	**.23553**	**.00001**	**173.72**	**.00026**	**-.00011**
Stddev	.00034	.02570	.00211	.00146	.00258	.00012	3.22	.00023	.00024
%RSD	222.68	62.503	1922.0	.62098	1.0974	1153.5	1.8527	86.445	222.20
#1	.00039	.05930	.00160	.23641	.23736	-.00007	176.00	.00042	.00006
#2	-.00009	.02295	-.00138	.23434	.23370	.00009	171.45	.00010	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00085**	**2.0145**	**2.2156**	**-.00027**	**47.481**	**.06336**	**.00239**	**96.660**
Stddev	.00007	.00023	.0102	.0376	.00066	.534	.00034	.00006	.018
%RSD	33.208	26.616	.50502	1.6957	239.59	1.1256	.53413	2.3793	.01835
#1	.00027	-.00069	2.0217	2.2422	-.00074	47.858	.06312	.00235	96.672
#2	.00017	-.00101	2.0073	2.1890	.00019	47.103	.06360	.00243	96.647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00223**	F **22.358**	**-.00059**	**.00084**	**8.1050**	**.00096**	**.27208**	**.00040**
Stddev	.00030	.00012	.241	.00050	.00229	.0297	.00011	.00465	.00032
%RSD	38.561	5.4340	1.0792	84.131	272.52	.36707	11.117	1.7094	80.010
#1	.00057	.00214	22.529	-.00094	.00246	8.1260	.00089	.27537	.00017
#2	.00099	.00231	22.188	-.00024	-.00078	8.0840	.00104	.26879	.00062
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00037**	**-.00029**	**.66816**
Stddev	.00030	.00005	.00187
%RSD	79.622	18.603	.28008
#1	-.00059	-.00025	.66683
#2	-.00016	-.00033	.66948
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1920.5**	**1529.9**	**14168.**	**3395.1**
Stddev	16.5	9.0	94.	55.6
%RSD	.85881	.58788	.66310	1.6388
#1	1908.8	1523.5	14101.	3355.8
#2	1932.2	1536.3	14234.	3434.5

Sample Name: 190-4797-C-3-A Acquired: 8/4/2014 18:54:35 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.04627**	**.00017**	**.12074**	**.04128**	**.00002**	**98.676**	**.00021**	**.00011**
Stddev	.00061	.00172	.00184	.00290	.00223	.00001	1.133	.00001	.00023
%RSD	472.19	3.7093	1079.2	2.4049	5.4088	72.460	1.1477	2.9201	211.48
#1	.00056	.04748	.00147	.12279	.04286	.00001	99.477	.00021	.00027
#2	-.00030	.04506	-.00113	.11868	.03970	.00003	97.875	.00020	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00158**	**.09639**	**3.8377**	**-.00221**	**18.260**	**.17774**	**.00040**	**124.42**
Stddev	.00046	.00047	.00079	.0037	.00079	.837	.00830	.00018	1.40
%RSD	437.15	30.018	.82122	.09562	35.882	4.5834	4.6670	43.850	1.1241
#1	-.00043	.00124	.09695	3.8403	-.00277	18.852	.18360	.00028	125.41
#2	.00022	.00191	.09583	3.8351	-.00165	17.668	.17187	.00052	123.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**.00169**	F **20.231**	**-.00101**	**.00161**	**4.3183**	**.00062**	**1.4488**	**.00020**
Stddev	.00020	.00009	.371	.00007	.00049	.0183	.00003	.0189	.00030
%RSD	9.3509	5.1984	1.8356	7.1069	30.085	.42331	4.2067	1.3064	153.44
#1	.00203	.00175	20.493	-.00096	.00196	4.3312	.00063	1.4622	.00041
#2	.00231	.00163	19.968	-.00106	.00127	4.3054	.00060	1.4354	-.00002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00177**	**-.00017**	**.00190**
Stddev	.00198	.00058	.00017
%RSD	111.88	337.08	8.9897
#1	-.00037	.00024	.00202
#2	-.00317	-.00059	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1970.8**	**1562.2**	**14563.**	**3603.3**
Stddev	31.4	31.4	619.	31.2
%RSD	1.5916	2.0123	4.2509	.86646
#1	1948.6	1539.9	14125.	3581.2
#2	1993.0	1584.4	15001.	3625.3

Sample Name: 190-4797-C-4-A Acquired: 8/4/2014 18:57:08 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.04218**	**.02598**	**.11103**	**.16447**	**.00009**	**72.072**	**.00031**	**.00010**
Stddev	.00015	.01225	.00039	.00075	.00166	.00004	3.526	.00009	.00010
%RSD	3140.1	29.029	1.4912	.67524	1.0114	45.550	4.8928	28.850	98.146
#1	-.00010	.03353	.02626	.11050	.16565	.00012	69.579	.00037	.00003
#2	.00011	.05084	.02571	.11156	.16330	.00006	74.566	.00024	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00093**	**1.1773**	**1.5046**	**.00694**	**33.653**	**.01690**	**.02035**	**17.359**
Stddev	.00060	.00015	.0635	.1017	.00029	.059	.00014	.00002	.924
%RSD	989.04	16.232	5.3902	6.7604	4.1405	.17553	.83418	.08867	5.3220
#1	-.00049	-.00104	1.1324	1.4327	.00673	33.611	.01680	.02036	16.706
#2	.00037	-.00083	1.2222	1.5766	.00714	33.695	.01700	.02034	18.012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00412**	**7.5158**	**-.00141**	**-.00010**	**9.7765**	**.00080**	**.50577**	**.00005**
Stddev	.00024	.00055	.0245	.00283	.00149	.4979	.00009	.02494	.00005
%RSD	177.17	13.393	.32611	201.59	1448.1	5.0927	11.175	4.9320	93.887
#1	-.00030	.00451	7.4985	-.00341	-.00115	9.4245	.00073	.48813	.00009
#2	.00003	.00373	7.5331	.00060	.00095	10.129	.00086	.52341	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00209**	**.00036**	**.00158**
Stddev	.00147	.00009	.00061
%RSD	70.414	26.261	38.330
#1	-.00105	.00029	.00201
#2	-.00313	.00043	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2002.8**	**1578.6**	**14543.**	**3581.6**
Stddev	10.0	12.6	12.	161.6
%RSD	.49683	.79827	.08438	4.5128
#1	2009.8	1587.5	14552.	3695.9
#2	1995.7	1569.7	14534.	3467.3

Sample Name: 190-4797-C-5-A Acquired: 8/4/2014 18:59:37 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.03485**	**.00018**	**.08707**	**.02755**	**-.00004**	**142.94**	**.00021**	**-.00004**
Stddev	.00016	.00792	.00012	.00054	.00024	.00001	.00	.00008	.00004
%RSD	380.74	22.736	65.915	.61791	.87678	16.734	.00162	36.098	108.80
#1	-.00016	.02924	.00027	.08669	.02772	-.00003	142.94	.00016	-.00007
#2	.00007	.04045	.00010	.08745	.02738	-.00004	142.94	.00027	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**-.00032**	**.00629**	**4.7226**	**-.00471**	**19.451**	**.00020**	**.00022**	**125.20**
Stddev	.00008	.00016	.00345	.0746	.00050	.122	.00004	.00020	.06
%RSD	7.1829	47.911	54.754	1.5789	10.561	.62746	21.830	90.576	.04780
#1	.00103	-.00021	.00873	4.6699	-.00506	19.365	.00023	.00008	125.16
#2	.00114	-.00043	.00386	4.7753	-.00435	19.538	.00017	.00036	125.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00217**	**4.6137**	**-.00172**	**.00003**	**5.2650**	**.00100**	**1.0314**	**.00039**
Stddev	.00014	.00231	.0216	.00098	.00406	.0490	.00071	.0012	.00003
%RSD	107.43	106.74	.46891	57.035	13470.	.93027	70.911	.11282	6.5748
#1	.00023	.00380	4.6290	-.00241	-.00284	5.2304	.00050	1.0323	.00041
#2	.00003	.00053	4.5984	-.00102	.00290	5.2997	.00151	1.0306	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00051**	**.00017**	**.00139**
Stddev	.00088	.00129	.00103
%RSD	171.09	744.52	74.075
#1	-.00114	.00109	.00066
#2	.00011	-.00074	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1860.3**	**1487.6**	**13841.**	**3469.1**
Stddev	1.2	5.2	95.	10.9
%RSD	.06649	.35251	.68400	.31525
#1	1861.2	1491.3	13774.	3461.4
#2	1859.5	1483.9	13908.	3476.8

Sample Name: 190-4783-D-1-A Acquired: 8/4/2014 19:02:12 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.03045**	**.01526**	**.15335**	**.13961**	**-.00001**	**47.906**	**.00004**	**-.00003**
Stddev	.00061	.02617	.00042	.00096	.00019	.00005	.925	.00004	.00017
%RSD	459.00	85.942	2.7743	.62334	.13839	923.17	1.9299	86.878	514.27
#1	-.00030	.01194	.01556	.15268	.13948	-.00004	47.252	.00002	-.00015
#2	.00056	.04895	.01496	.15403	.13975	.00003	48.560	.00007	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00056**	**.75391**	**1.9390**	**.01011**	**27.219**	**.01124**	**.02035**	**20.961**
Stddev	.00013	.00056	.01924	.0141	.00005	.089	.00018	.00015	.295
%RSD	31.014	99.283	2.5524	.72820	.51716	.32831	1.5990	.72891	1.4080
#1	.00050	-.00096	.74030	1.9290	.01015	27.156	.01112	.02025	20.753
#2	.00032	-.00017	.76752	1.9489	.01007	27.283	.01137	.02046	21.170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00354**	**4.4039**	**-.00138**	**.00162**	**8.8727**	**.00064**	**.47910**	**-.00034**
Stddev	.00027	.00091	.0694	.00028	.00085	.1837	.00047	.00514	.00066
%RSD	149.92	25.781	1.5757	20.318	52.349	2.0701	73.311	1.0730	194.39
#1	-.00001	.00419	4.4530	-.00119	.00102	8.7428	.00031	.47547	-.00081
#2	.00038	.00289	4.3548	-.00158	.00222	9.0026	.00097	.48274	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00199**	**-.00057**	**.07129**
Stddev	.00068	.00031	.00305
%RSD	34.205	54.690	4.2768
#1	-.00247	-.00035	.06913
#2	-.00151	-.00080	.07344
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2045.9**	**1570.8**	**14831.**	**3541.5**
Stddev	4.7	8.5	19.	64.2
%RSD	.22734	.53915	.12476	1.8126
#1	2049.2	1576.8	14844.	3586.9
#2	2042.6	1564.8	14818.	3496.1

Sample Name: 190-4783-M-2-A Acquired: 8/4/2014 19:14:29 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.02847**	**.04200**	**.10316**	**.15704**	**.00005**	**73.068**	**.00045**	**-.00014**
Stddev	.00048	.01324	.00051	.00118	.00058	.00004	1.501	.00000	.00010
%RSD	191.67	46.491	1.2138	1.1449	.37067	86.275	2.0547	.32322	74.422
#1	-.00009	.03784	.04236	.10232	.15745	.00008	74.129	.00045	-.00021
#2	.00060	.01911	.04164	.10399	.15662	.00002	72.006	.00044	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00105**	**1.1925**	**1.5598**	**.00998**	**39.237**	**.01334**	**.02310**	**12.379**
Stddev	.00052	.00012	.0047	.0056	.00022	.044	.00018	.00007	.192
%RSD	1049.4	11.146	.39536	.36010	2.1949	.11283	1.3166	.30946	1.5536
#1	-.00042	-.00113	1.1958	1.5637	.00982	39.268	.01322	.02305	12.515
#2	.00032	-.00097	1.1892	1.5558	.01013	39.206	.01347	.02315	12.243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00409**	F **15.040**	**-.00049**	**.00249**	**9.4319**	**.00103**	**.74323**	**.00023**
Stddev	.00056	.00149	.125	.00044	.00172	.0999	.00011	.01187	.00003
%RSD	232.97	36.448	.82813	90.108	69.265	1.0594	10.712	1.5974	15.264
#1	.00016	.00514	14.952	-.00080	.00370	9.3612	.00111	.75162	.00025
#2	-.00064	.00304	15.128	-.00018	.00127	9.5025	.00096	.73483	.00020
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00022**	**-.00034**	**.12840**
Stddev	.00060	.00010	.00283
%RSD	280.85	28.596	2.2031
#1	.00064	-.00041	.12640
#2	-.00021	-.00027	.13040
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2001.8**	**1530.7**	**14866.**	**3678.1**
Stddev	13.4	10.1	23.	45.4
%RSD	.67076	.66104	.15717	1.2342
#1	2011.3	1537.8	14850.	3646.0
#2	1992.4	1523.5	14883.	3710.2

Sample Name: CCV Acquired: 8/4/2014 19:17:05 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .61949	F 29.130	.53281	F .56579	.54021	F .56777	F 27.969	F .55708	F .58589	F .55823	.47988	F 28.373
Stddev	.00667	.274	.00010	.00054	.00100	.00410	.042	.00061	.00660	.00015	.00026	.115
%RSD	1.0770	.94077	.01843	.09506	.18458	.72129	.15052	.10999	1.1259	.02667	.05464	.40704
#1	.61477	29.324	.53274	.56541	.53950	.57066	27.999	.55665	.58122	.55833	.48007	28.455
#2	.62421	28.936	.53288	.56617	.54091	.56487	27.939	.55751	.59055	.55812	.47969	28.291
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value	.50000	25.000		.50000		.50000	25.000	.50000	.50000	.50000		25.000
Range	10.000%	10.000%		10.000%		10.000%	10.000%	10.000%	10.000%	10.000%		10.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.630	F .57185	F 29.102	.54342	F .57085	F 27.747	F .62686	F .59648	27.344	F .56786	.53719	F 30.136
Stddev	.180	.00387	.123	.00101	.00067	.181	.00258	.00092	.026	.00128	.00280	.162
%RSD	.67439	.67758	.42318	.18559	.11759	.65407	.41115	.15361	.09679	.22454	.52048	.53726
#1	26.757	.57459	29.015	.54270	.57037	27.875	.62504	.59583	27.363	.56877	.53917	30.250
#2	26.503	.56911	29.189	.54413	.57132	27.618	.62868	.59712	27.326	.56696	.53521	30.021
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value		.50000	25.000		.50000	25.000	.50000	.50000		.50000		25.000
Range		10.000%	10.000%		10.000%	10.000%	10.000%	10.000%		10.000%		10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .61954	F .55266	F .55044	F .65196	F .55886	F .61511
Stddev	.00283	.00215	.00125	.00199	.00188	.00286
%RSD	.45714	.38944	.22760	.30496	.33674	.46454
#1	.61754	.55418	.54956	.65055	.55753	.61309
#2	.62154	.55114	.55133	.65336	.56019	.61713
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	.50000	.50000	.50000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1985.4	1589.7	14811.	3385.6
Stddev	1.8	1.9	21.	19.6
%RSD	.08849	.11887	.13878	.57870
#1	1986.7	1588.4	14826.	3371.7
#2	1984.2	1591.0	14797.	3399.4

Sample Name: CCB Acquired: 8/4/2014 19:19:29 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.03055**	**.00022**	**.00087**	**.00046**	**.00015**	**.03436**	**.00000**	**-.00013**	**.00020**	**-.00102**	**.00847**	**.03930**
Stddev	.00047	.03171	.00041	.00002	.00018	.00007	.00596	.00001	.00020	.00031	.00012	.00186	.00104
%RSD	96.820	103.80	185.17	1.8711	38.507	48.280	17.329	52021.	148.62	153.03	11.307	21.970	2.6379
#1	.00081	.05296	-.00007	.00088	.00058	.00010	.03015	-.00001	-.00027	.00042	-.00094	.00716	.03857
#2	.00015	.00813	.00052	.00086	.00033	.00020	.03858	.00001	.00001	-.00002	-.00110	.00979	.04004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.04286**	**.00045**	**.00030**	**.03115**	**-.00023**	**-.00099**	**.00608**	**.00045**	**.00224**	**.00660**	**.00098**	**.00040**
Stddev	.00128	.02153	.00014	.00012	.01175	.00005	.00002	.00281	.00172	.00006	.00269	.00001	.00013
%RSD	404.20	50.233	31.415	38.952	37.705	21.633	2.5175	46.124	381.45	2.5388	40.752	1.0130	31.580
#1	.00122	.05809	.00055	.00022	.02285	-.00027	-.00097	.00410	-.00077	.00228	.00850	.00097	.00031
#2	-.00059	.02764	.00035	.00038	.03946	-.00020	-.00101	.00807	.00167	.00220	.00470	.00099	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00069**	**.00018**	**.00018**
Stddev	.00029	.00039	.00038	.00128
%RSD	157.50	56.477	211.76	699.61
#1	.00002	-.00042	-.00009	.00109
#2	-.00039	-.00097	.00045	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2230.6**	**1632.9**	**15679.**	**3561.6**
Stddev	11.8	11.0	55.	75.5
%RSD	.52835	.67494	.35161	2.1207
#1	2238.9	1640.7	15718.	3508.2
#2	2222.3	1625.1	15640.	3615.1

Sample Name: CCVL-2222402 Acquired: 8/4/2014 19:22:02 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .00807	.23636	.01371	.02308	.00240	.00248	.59303	.00239	.00462	.00491	.00817	W .06549
Stddev	.00036	.01636	.00056	.00016	.00000	.00005	.00513	.00005	.00002	.00058	.00007	.00041
%RSD	4.4200	6.9202	4.0649	.68869	.12009	2.0656	.86437	2.2947	.35382	11.892	.80755	.62265
#1	.00832	.24793	.01332	.02296	.00240	.00252	.59665	.00235	.00460	.00533	.00822	.06520
#2	.00782	.22480	.01410	.02319	.00240	.00245	.58940	.00243	.00463	.00450	.00812	.06578
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value	.00600											.05000
Range	30.000%											30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.57361	.03459	.25120	.00374	.01187	1.1579	.01221	.01147	.23821	.02275	.02872	.60608
Stddev	.00113	.00028	.00663	.00011	.00003	.0085	.00031	.00088	.00159	.00049	.00006	.00564
%RSD	.19669	.79834	2.6397	3.0118	.28148	.73361	2.5026	7.6427	.66701	2.1345	.22536	.93088
#1	.57441	.03478	.25589	.00382	.01185	1.1519	.01199	.01085	.23709	.02241	.02867	.61007
#2	.57282	.03439	.24651	.00366	.01189	1.1639	.01243	.01209	.23933	.02310	.02876	.60209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01153	.00580	.00532	.02497	.00593	W .01315
Stddev	.00053	.00004	.00005	.00050	.00070	.00043
%RSD	4.5856	.76229	.85786	2.0220	11.820	3.2317
#1	.01190	.00577	.00528	.02533	.00643	.01345
#2	.01115	.00583	.00535	.02461	.00543	.01285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value						.01000
Range						30.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2213.9	1642.0	15440.	3415.8
Stddev	8.6	.6	107.	94.7
%RSD	.38753	.03529	.69093	2.7729
#1	2220.0	1642.4	15515.	3348.8
#2	2207.8	1641.6	15364.	3482.7

Sample Name: 190-4783-D-3-A Acquired: 8/4/2014 19:24:33 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.02861**	**.03479**	**.11194**	**.15722**	**.00000**	**66.550**	**.00034**	**-.00021**
Stddev	.00054	.00699	.00278	.00014	.00024	.00000	1.889	.00005	.00002
%RSD	5260.0	24.442	7.9852	.12706	.15039	120.30	2.8383	13.207	9.0077
#1	.00037	.03356	.03282	.11184	.15739	.00000	67.885	.00031	-.00022
#2	-.00039	.02367	.03675	.11204	.15706	.00000	65.214	.00038	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00083**	**1.1038**	**1.5644**	**.01018**	**35.939**	**.01194**	**.02421**	**15.178**
Stddev	.00005	.00030	.0108	.0072	.00074	.149	.00005	.00006	.471
%RSD	17.156	35.629	.98110	.45881	7.2999	.41412	.45878	.25019	3.1011
#1	.00025	-.00062	1.0961	1.5593	.01071	36.044	.01190	.02425	15.511
#2	.00032	-.00104	1.1114	1.5695	.00966	35.834	.01198	.02417	14.845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00334**	F **9.6493**	**-.00150**	**.00239**	**9.4248**	**.00058**	**.73547**	**.00001**
Stddev	.00026	.00069	.0352	.00064	.00034	.0701	.00013	.02181	.00079
%RSD	81.204	20.507	.36427	42.682	14.019	.74322	22.285	2.9661	7275.7
#1	-.00013	.00286	9.6742	-.00196	.00263	9.3753	.00067	.75090	.00057
#2	-.00050	.00383	9.6245	-.00105	.00215	9.4744	.00049	.72004	-.00055
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00114**	**-.00057**	**.01827**
Stddev	.00006	.00043	.00006
%RSD	4.9747	75.866	.34070
#1	-.00110	-.00027	.01831
#2	-.00118	-.00088	.01822
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2003.0**	**1538.2**	**14950.**	**3573.9**
Stddev	4.2	4.4	49.	103.9
%RSD	.20778	.28698	.32577	2.9082
#1	2005.9	1541.4	14916.	3500.4
#2	2000.1	1535.1	14984.	3647.4

Sample Name: 190-4783-D-4-A Acquired: 8/4/2014 19:27:03 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.03580**	**.00215**	**.62646**	**.25342**	**.00008**	**89.200**	**.00017**	**-.00011**
Stddev	.00085	.01485	.00028	.00382	.00042	.00004	.553	.00000	.00001
%RSD	2791.1	41.486	12.866	.61025	.16600	48.123	.61941	.96580	10.721
#1	-.00057	.04630	.00196	.62916	.25312	.00005	89.590	.00017	-.00012
#2	.00063	.02530	.00235	.62376	.25371	.00010	88.809	.00017	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00089**	**4.0471**	**1.8682**	**.00832**	**39.969**	**.02632**	**.01553**	**78.875**
Stddev	.00020	.00007	.0306	.0320	.00011	.032	.00070	.00050	.103
%RSD	50.881	7.8797	.75674	1.7129	1.3568	.08070	2.6685	3.2077	.13074
#1	.00025	-.00084	4.0254	1.8456	.00839	39.946	.02583	.01588	78.802
#2	.00053	-.00094	4.0687	1.8908	.00824	39.992	.02682	.01517	78.948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01506**	**.00297**	F **16.505**	**-.00130**	**.00219**	**9.1333**	**.00086**	**1.0113**	**-.00002**
Stddev	.00018	.00016	.046	.00064	.00002	.0041	.00007	.0026	.00018
%RSD	1.1742	5.5641	.27760	49.449	.96244	.04511	8.6508	.25226	1048.8
#1	.01519	.00285	16.537	-.00084	.00220	9.1304	.00091	1.0095	.00011
#2	.01494	.00308	16.473	-.00175	.00217	9.1362	.00080	1.0131	-.00014
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00107**	**-.00034**	**.11803**
Stddev	.00155	.00003	.00219
%RSD	144.98	8.8470	1.8555
#1	.00003	-.00036	.11648
#2	-.00217	-.00032	.11958
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1941.0**	**1525.1**	**14458.**	**3446.8**
Stddev	4.0	1.1	58.	44.7
%RSD	.20737	.07540	.40379	1.2966
#1	1943.8	1524.3	14499.	3415.2
#2	1938.1	1525.9	14416.	3478.4

Sample Name: 190-4783-D-5-A Acquired: 8/4/2014 19:29:31 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.05244**	**.00359**	**4.0038**	**.11814**	**.00009**	**134.35**	**.00028**	**.00137**
Stddev	.00043	.00259	.00014	.0495	.00022	.00012	1.66	.00004	.00015
%RSD	218.05	4.9412	3.9829	1.2352	.18818	134.70	1.2328	14.455	11.192
#1	.00051	.05428	.00349	3.9688	.11829	.00017	133.18	.00025	.00126
#2	-.00011	.05061	.00369	4.0388	.11798	.00000	135.52	.00031	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00079**	**3.0779**	**13.897**	**-.00142**	**35.392**	**.88680**	**.00735**	**277.23**
Stddev	.00032	.00023	.0383	.036	.00020	.130	.00251	.00007	4.69
%RSD	2775.2	29.146	1.2436	.26222	13.780	.36783	.28298	1.0095	1.6908
#1	.00021	-.00063	3.0509	13.871	-.00128	35.484	.88857	.00740	273.91
#2	-.00024	-.00095	3.1050	13.923	-.00156	35.300	.88502	.00730	280.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01496**	**.00450**	F **13.965**	**-.00121**	**.00161**	**10.446**	**.00102**	**2.1750**	**-.00039**
Stddev	.00020	.00063	.189	.00049	.00108	.034	.00035	.0356	.00033
%RSD	1.3132	13.915	1.3501	40.094	66.976	.32321	34.562	1.6373	84.613
#1	.01510	.00494	13.832	-.00156	.00085	10.470	.00127	2.1498	-.00016
#2	.01483	.00406	14.099	-.00087	.00237	10.422	.00077	2.2002	-.00063
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00179**	**-.00028**	**1.2649**
Stddev	.00138	.00068	.0207
%RSD	76.775	247.20	1.6347
#1	-.00082	.00021	1.2796
#2	-.00277	-.00076	1.2503
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1831.4**	**1497.5**	**14089.**	**3243.9**
Stddev	20.3	16.9	40.	40.7
%RSD	1.1058	1.1257	.28744	1.2562
#1	1845.7	1509.4	14060.	3272.8
#2	1817.1	1485.5	14117.	3215.1

Sample Name: 190-4783-D-6-A Acquired: 8/4/2014 19:32:06 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.03781**	**.00052**	**.12236**	**.02705**	**.00000**	**192.11**	**.00089**	**.00413**
Stddev	.00030	.02852	.00127	.00557	.00001	.00004	2.44	.00014	.00034
%RSD	47.322	75.416	245.57	4.5544	.04422	5059.1	1.2689	16.087	8.2620
#1	-.00042	.01765	-.00038	.12630	.02705	.00003	193.83	.00099	.00437
#2	-.00084	.05798	.00142	.11842	.02704	-.00003	190.39	.00079	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00106**	**.02640**	**1.1397**	**-.00780**	**38.515**	**.16298**	**.00053**	**32.325**
Stddev	.00030	.00061	.00285	.0495	.00044	.171	.00134	.00004	.435
%RSD	52.963	57.651	10.797	4.3469	5.6161	.44375	.82200	6.8160	1.3471
#1	.00035	.00063	.02842	1.1748	-.00811	38.636	.16203	.00055	32.633
#2	.00077	.00149	.02439	1.1047	-.00749	38.394	.16393	.00050	32.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00483**	**.00321**	F **23.471**	**-.00124**	**-.00076**	**7.1277**	**.00142**	**.23581**	**.00055**
Stddev	.00029	.00046	.887	.00031	.00334	.2841	.00011	.00303	.00031
%RSD	6.0526	14.247	3.7802	24.742	441.60	3.9851	7.4377	1.2867	55.969
#1	.00503	.00353	24.099	-.00146	-.00312	7.3286	.00149	.23796	.00077
#2	.00462	.00288	22.844	-.00103	.00161	6.9269	.00134	.23367	.00033
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			9.0000						
Low Limit			-.50000						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00144**	**-.00010**	**.96696**
Stddev	.00123	.00082	.00532
%RSD	85.677	855.01	.55035
#1	-.00231	-.00068	.96320
#2	-.00057	.00049	.97072
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1915.0**	**1503.3**	**14949.**	**3412.5**
Stddev	60.4	41.7	12.	11.2
%RSD	3.1544	2.7742	.07822	.32789
#1	1872.3	1473.8	14940.	3404.6
#2	1957.7	1532.8	14957.	3420.4

Sample Name: BLANK Acquired: 8/4/2014 19:35:30 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00375**	**-.00045**	**.00301**	**.00005**	**.00006**	**.02141**	**.00003**	**-.00011**
Stddev	.00118	.01764	.00162	.00044	.00002	.00010	.00808	.00002	.00002
%RSD	250.59	470.92	357.33	14.523	32.655	171.26	37.730	58.647	16.511
#1	.00036	-.00873	-.00160	.00332	.00004	.00013	.01570	.00002	-.00010
#2	-.00131	.01622	.00069	.00270	.00006	-.00001	.02713	.00004	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00091**	**.00093**	**.02333**	**.00111**	**.00057**	**.00014**	**.00000**	**.03494**
Stddev	.00030	.00048	.00151	.00841	.00123	.00523	.00006	.0001	.00079
%RSD	105.85	52.487	162.50	36.039	110.86	916.72	42.564	2988.6	2.2754
#1	.00007	-.00057	-.00014	.02928	.00198	-.00313	.00009	.00008	.03550
#2	.00049	-.00124	.00199	.01739	.00024	.00427	.00018	-.00009	.03437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00010**	**.00642**	**.00003**	**.00097**	**.01515**	**.00075**	**.00016**	**-.00074**
Stddev	.00002	.00075	.00227	.00033	.00147	.02337	.00012	.00004	.00015
%RSD	4.8293	726.28	35.311	1023.0	151.60	154.23	15.575	26.308	19.749
#1	-.00047	.00043	.00482	-.00020	.00201	-.00137	.00067	.00013	-.00064
#2	-.00044	-.00063	.00802	.00026	-.00007	.03168	.00084	.00019	-.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00144**	**.00012**	**-.00024**
Stddev	.00025	.00014	.00065
%RSD	16.983	116.61	268.85
#1	-.00162	.00022	.00022
#2	-.00127	.00002	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2168.0**	**1606.3**	**14734.**	**3163.7**
Stddev	.4	5.7	16.	33.0
%RSD	.01759	.35192	.10797	1.0436
#1	2167.7	1610.3	14746.	3140.4
#2	2168.3	1602.3	14723.	3187.1

Sample Name: BLANK Acquired: 8/4/2014 19:38:57 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00194**	**-.00057**	**.00151**	**.00005**	**-.00003**	**.03161**	**.00000**	**-.00012**
Stddev	.00082	.01818	.00130	.00022	.00002	.00002	.00122	.00015	.00000
%RSD	198.14	936.73	226.96	14.817	36.406	76.538	3.8495	15294.	3.2109
#1	-.00100	.01479	-.00150	.00167	.00004	-.00004	.03075	.00011	-.00012
#2	.00017	-.01091	.00035	.00135	.00006	-.00001	.03247	-.00011	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00120**	**.00170**	**.02232**	**.00111**	**.00641**	**.00021**	**-.00014**	**.04791**
Stddev	.00072	.00038	.00016	.01232	.00030	.00059	.00003	.00014	.00154
%RSD	2284.1	31.823	9.6919	55.206	26.983	9.2729	12.174	103.88	3.2240
#1	.00054	-.00093	.00159	.01361	.00133	.00683	.00023	-.00004	.04682
#2	-.00047	-.00147	.00182	.03103	.00090	.00599	.00019	-.00024	.04900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00106**	**.00254**	**-.00017**	**.00348**	**.00208**	**.00064**	**.00019**	**-.00008**
Stddev	.00008	.00060	.00290	.00109	.00079	.01234	.00058	.00004	.00078
%RSD	16.460	56.470	114.01	646.04	22.622	593.27	90.227	23.328	948.92
#1	-.00053	-.00064	.00049	.00060	.00404	.01080	.00105	.00016	.00047
#2	-.00042	-.00148	.00459	-.00094	.00292	-.00664	.00023	.00022	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00200**	**.00045**	**-.00038**
Stddev	.00129	.00037	.00016
%RSD	64.664	80.530	41.634
#1	-.00291	.00020	-.00049
#2	-.00108	.00071	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2234.3**	**1641.3**	**16033.**	**3504.7**
Stddev	76.2	63.1	13.	176.9
%RSD	3.4116	3.8464	.08294	5.0467
#1	2180.4	1596.6	16042.	3379.6
#2	2288.2	1685.9	16024.	3629.8

Sample Name: ICSA-2204542 Acquired: 8/4/2014 19:41:51 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00289	F 607.02	-.00144	-.00440	.00015	-.00010	527.95	-.00236	.00152	-.00170	.00122	223.63
Stddev	.00024	23.94	.00222	.00009	.00000	.00007	17.33	.00008	.00005	.00011	.00029	2.71
%RSD	8.4727	3.9444	154.56	1.9495	2.8748	66.279	3.2829	3.2121	3.0520	6.5680	23.853	1.2114
#1	.00272	590.09	.00013	-.00446	.00015	-.00014	515.70	-.00241	.00148	-.00178	.00101	221.72
#2	.00306	623.95	-.00301	-.00433	.00015	-.00005	540.21	-.00231	.00155	-.00162	.00143	225.55
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.00										
Low Limit		400.00										

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00902	-.02042	594.27	.00465	-.00410	.07660	-.00073	.00125	-.04919	-.03721	-.02249	.00871
Stddev	.04247	.00104	13.28	.00014	.00050	.00883	.00115	.00288	.00044	.00080	.00290	.01948
%RSD	470.97	5.0764	2.2343	3.0921	12.129	11.530	158.10	230.80	.89764	2.1503	12.903	223.58
#1	.03905	-.01969	584.88	.00455	-.00375	.07035	.00009	-.00079	-.04887	-.03777	-.02043	.02249
#2	-.02101	-.02116	603.66	.00475	-.00445	.08284	-.00154	.00329	-.04950	-.03664	-.02454	-.00506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01048	.01625	.00168	.00642	.00851	.00074
Stddev	.00056	.00008	.00026	.00140	.00034	.00189
%RSD	5.3862	.47541	15.738	21.826	3.9730	255.67
#1	.01088	.01619	.00150	.00741	.00828	-.00060
#2	.01008	.01630	.00187	.00543	.00875	.00207
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1574.8	1430.9	12797.	3268.4
Stddev	8.0	16.4	234.	110.4
%RSD	.50783	1.1476	1.8314	3.3784
#1	1580.4	1419.3	12963.	3346.5
#2	1569.1	1442.6	12631.	3190.3

Sample Name: ICSAB-2222403 Acquired: 8/4/2014 19:44:43 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .30178	F 635.78	.11248	.00228	.58337	F .60197	563.57	1.1709	F .62303	.58952	.59881	117.73
Stddev	.00448	11.09	.00202	.00079	.00780	.00992	4.73	.0157	.00465	.01039	.00426	1.90
%RSD	1.4858	1.7444	1.7990	34.764	1.3363	1.6476	.83893	1.3363	.74605	1.7622	.71132	1.6107
#1	.30495	643.62	.11391	.00172	.58889	.60898	566.92	1.1820	.62631	.59686	.60182	119.07
#2	.29861	627.94	.11105	.00284	.57786	.59496	560.23	1.1598	.61974	.58217	.59580	116.39
Check ?	Chk Fail	Chk Fail	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	.20000	500.00				.50000			.50000			
Range	20.000%	20.000%				20.000%			20.000%			

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03930	.60545	F 627.12	.57007	-.00136	.14779	F 1.2689	F .06361	F .74916	.70155	.04318	1.3357
Stddev	.02455	.00957	11.13	.00871	.00012	.00123	.0106	.00315	.01713	.01579	.00141	.0090
%RSD	62.457	1.5801	1.7750	1.5271	8.9435	.83547	.83260	4.9589	2.2863	2.2503	3.2559	.67420
#1	.05666	.61222	635.00	.57622	-.00145	.14867	1.2764	.06584	.76127	.71272	.04219	1.3293
#2	.02195	.59869	619.25	.56391	-.00127	.14692	1.2615	.06138	.73705	.69039	.04418	1.3421
Check ?	None	None	Chk Fail	Chk Pass	None	None	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	None
Value			500.00				1.0000	.05000	.50000			
Range			20.000%				20.000%	20.000%	20.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00776	.59723	.00218	F .13772	F .62460	F 1.2205
Stddev	.00124	.01062	.00057	.00398	.00849	.0318
%RSD	15.959	1.7774	26.390	2.8925	1.3592	2.6063
#1	.00864	.60474	.00177	.14054	.63061	1.2429
#2	.00689	.58972	.00258	.13490	.61860	1.1980
Check ?	None	None	None	Chk Fail	Chk Fail	Chk Fail
Value				.10000	.50000	1.0000
Range				20.000%	20.000%	20.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1531.6	1393.0	12085.	3028.5
Stddev	10.0	18.1	145.	56.8
%RSD	.65332	1.2991	1.1973	1.8749
#1	1524.5	1380.2	11983.	2988.4
#2	1538.7	1405.8	12188.	3068.7

Sample Name: BLANK Acquired: 8/4/2014 19:47:22 Type: Unk
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.15642**	**-.00004**	**.00043**	**.00010**	**.00008**	**.14927**	**.00081**	**.00031**
Stddev	.0001	.01798	.00146	.00037	.00001	.00001	.01047	.00082	.00022
%RSD	1498.5	11.493	3807.9	88.051	5.0268	8.2814	7.0121	101.97	70.817
#1	-.00004	.14371	.00099	.00016	.00011	.00009	.15668	.00022	.00016
#2	.00003	.16913	-.00107	.00069	.00010	.00008	.14187	.00139	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00091**	**.04260**	**.02262**	**.00113**	**.11411**	**.00012**	**.00016**	**.02045**
Stddev	.00071	.00006	.00449	.00531	.00036	.01584	.00007	.00005	.00338
%RSD	283.08	6.8889	10.541	23.471	32.052	13.880	59.414	29.905	16.505
#1	.00076	-.00087	.04577	.01887	.00139	.12531	.00017	.00013	.02284
#2	-.00025	-.00095	.03942	.02637	.00088	.10291	.00007	.00019	.01806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00053**	**.00221**	**.00162**	**.00197**	**.00165**	**.00073**	**.00019**	**-.00083**
Stddev	.00078	.00090	.00185	.00008	.00226	.00520	.00047	.00001	.00009
%RSD	183.10	168.56	83.645	5.0614	114.84	315.10	64.344	5.1361	10.899
#1	-.00013	-.00010	.00351	.00167	.00037	.00533	.00040	.00018	-.00077
#2	.00098	.00117	.00090	.00156	.00356	-.00203	.00106	.00020	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00153**	**.00023**	**.00058**
Stddev	.00025	.00056	.00027
%RSD	16.112	241.11	46.051
#1	-.00170	.00063	.00039
#2	-.00135	-.00016	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2188.2**	**1595.1**	**15142.**	**3387.6**
Stddev	4.7	9.6	154.	39.2
%RSD	.21261	.59926	1.0161	1.1568
#1	2184.9	1588.4	15033.	3359.9
#2	2191.5	1601.9	15251.	3415.3

Sample Name: CCV Acquired: 8/4/2014 19:50:01 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .62713	F 30.398	F .55901	F .58959	F .56640	F .58843	F 28.988	F .57321	F .59691	F .57145	.51842	F 29.385
Stddev	.00548	.599	.00186	.00007	.00422	.00481	.423	.00258	.00195	.00043	.00399	.282
%RSD	.87384	1.9699	.33306	.01186	.74447	.81670	1.4581	.45080	.32611	.07474	.76990	.95994
#1	.62325	29.974	.56033	.58954	.56342	.58503	28.689	.57504	.59554	.57114	.52125	29.186
#2	.63100	30.821	.55769	.58964	.56938	.59182	29.287	.57139	.59829	.57175	.51560	29.585
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value	.50000	25.000	.50000	.50000	.50000	.50000	25.000	.50000	.50000	.50000		25.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%		10.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 27.637	F .58877	F 30.052	F .57002	F .58939	F 28.385	F .62878	F .60431	F 28.595	F .59289	F .57432	F 30.648
Stddev	.250	.00548	.151	.00068	.00254	.286	.00411	.00297	.110	.00057	.00057	.179
%RSD	.90382	.93001	.50214	.11942	.43160	1.0068	.65432	.49069	.38341	.09607	.09931	.58374
#1	27.460	.58489	30.159	.57050	.59119	28.183	.63169	.60641	28.672	.59248	.57472	30.521
#2	27.813	.59264	29.946	.56954	.58759	28.587	.62587	.60222	28.517	.59329	.57391	30.774
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	25.000	.50000	25.000	.50000	.50000	25.000	.50000	.50000	25.000	.50000	.50000	25.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .62763	F .56721	F .57552	F .65372	F .57959	F .62397
Stddev	.00402	.00598	.00245	.00168	.00340	.00416
%RSD	.64095	1.0539	.42580	.25740	.58720	.66714
#1	.63047	.56299	.57379	.65491	.57718	.62103
#2	.62478	.57144	.57726	.65253	.58199	.62692
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	.50000	.50000	.50000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1945.2	1533.4	14489.	3326.6
Stddev	2.3	1.0	38.	13.0
%RSD	.11592	.06356	.26282	.38947
#1	1943.7	1532.7	14516.	3335.8
#2	1946.8	1534.1	14462.	3317.4

Sample Name: CCB Acquired: 8/4/2014 19:52:46 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.07141**	**.00007**	**.00120**	**.00015**	**.00022**	**.07071**	**.00052**	**.00046**	**-.00005**	**-.00039**	**.02660**	**.01964**
Stddev	.00062	.01160	.00009	.00055	.00001	.00006	.01384	.00050	.00051	.00031	.00018	.00466	.00274
%RSD	894.03	16.241	119.76	45.736	6.7834	26.036	19.578	96.807	111.97	581.53	45.687	17.534	13.948
#1	.00051	.07961	.00013	.00158	.00014	.00026	.08049	.00088	.00082	-.00027	-.00052	.02989	.01771
#2	-.00037	.06321	.00001	.00081	.00016	.00018	.06092	.00016	.00010	.00017	-.00026	.02330	.02158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.06731**	**.00015**	**.00043**	**.02125**	**.00010**	**.00010**	**.01702**	**.00041**	**.00207**	**.00899**	**.00054**	**.00023**
Stddev	.00019	.00041	.00003	.00042	.00460	.00109	.00155	.02080	.00031	.00275	.00519	.00041	.00007
%RSD	40.704	.60213	22.776	99.142	21.666	1136.9	1481.3	122.16	75.101	132.63	57.736	74.614	29.952
#1	.00060	.06760	.00013	.00073	.02450	.00086	.00120	.03173	.00063	.00013	.00532	.00083	.00028
#2	.00033	.06702	.00018	.00013	.01799	-.00067	-.00099	.00232	.00019	.00402	.01266	.00026	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00077**	**.00033**	**.00010**
Stddev	.00001	.00080	.00041	.00033
%RSD	2.3161	103.89	126.97	329.56
#1	-.00041	-.00133	.00062	-.00013
#2	-.00040	-.00020	.00003	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2198.0**	**1604.9**	**15319.**	**3522.3**
Stddev	1.6	5.1	160.	149.2
%RSD	.07463	.31696	1.0474	4.2364
#1	2196.8	1601.3	15432.	3416.8
#2	2199.1	1608.5	15205.	3627.8

Sample Name: CCVL-2222402 Acquired: 8/4/2014 19:56:22 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00700**	W **.26072**	**.01611**	**.02336**	**.00251**	**.00249**	**.60033**	W **.00262**	**.00467**	**.00515**	**.00901**	W **.06748**
Stddev	.00009	.00253	.00092	.00009	.00005	.00003	.00676	.00003	.00001	.00088	.00001	.00254
%RSD	1.3301	.96928	5.7070	.39132	1.7997	1.0415	1.1268	.97019	.12721	17.087	.13352	3.7570
#1	.00693	.25893	.01676	.02343	.00248	.00251	.59555	.00263	.00467	.00452	.00902	.06569
#2	.00706	.26250	.01546	.02330	.00254	.00247	.60512	.00260	.00467	.00577	.00900	.06927
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value		.20000						.00200				.05000
Range		30.000%						30.000%				30.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.59732**	**.03643**	W **.27532**	W **.00407**	**.01217**	**1.1715**	**.01179**	**.01211**	**.25316**	**.02336**	**.02950**	**.61476**
Stddev	.01320	.00067	.01263	.00003	.00012	.0144	.00076	.00086	.00501	.00053	.00054	.00518
%RSD	2.2092	1.8348	4.5883	.71585	.99440	1.2336	6.4581	7.0996	1.9799	2.2778	1.8429	.84279
#1	.58799	.03595	.26639	.00409	.01225	1.1612	.01233	.01272	.25671	.02299	.02989	.61842
#2	.60665	.03690	.28425	.00404	.01208	1.1817	.01125	.01150	.24962	.02374	.02912	.61109
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.20000	.00300								
Range			30.000%	30.000%								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01205**	**.00586**	**.00572**	**.02521**	**.00634**	**.01208**
Stddev	.00045	.00008	.00002	.00055	.00061	.00017
%RSD	3.7121	1.3950	.38883	2.1890	9.5846	1.4385
#1	.01237	.00580	.00573	.02560	.00591	.01196
#2	.01173	.00592	.00570	.02482	.00677	.01220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2199.7**	**1600.3**	**15258.**	**3461.9**
Stddev	4.1	3.7	244.	113.3
%RSD	.18512	.23199	1.5999	3.2738
#1	2196.8	1597.6	15431.	3542.0
#2	2202.6	1602.9	15086.	3381.7

Sample Name: CCV Acquired: 8/4/2014 19:59:48 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .61969	F 30.069	.54915	F .57103	F .55145	F .58787	F 28.454	F .56705	F .59570	F .56819	.51931	F 29.178
Stddev	.00125	.135	.00042	.00256	.01493	.00422	.043	.00078	.00079	.00188	.00538	.083
%RSD	.20181	.44771	.07703	.44889	2.7078	.71716	.15268	.13802	.13187	.33096	1.0356	.28540
#1	.61881	29.974	.54885	.57284	.56201	.58489	28.423	.56760	.59514	.56686	.52312	29.119
#2	.62058	30.164	.54945	.56922	.54089	.59085	28.484	.56650	.59625	.56952	.51551	29.237
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value	.50000	25.000		.50000	.50000	.50000	25.000	.50000	.50000	.50000		25.000
Range	10.000%	10.000%		10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%		10.000%

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 27.802	F .59292	F 29.568	F .56416	F .57996	F 28.526	F .63162	F .60947	F 28.033	F .57329	F .55279	F 30.487
Stddev	.111	.00334	.065	.00172	.00112	.166	.00019	.00350	.075	.00169	.00100	.095
%RSD	.39950	.56259	.22137	.30421	.19276	.58052	.02950	.57368	.26744	.29448	.18003	.31071
#1	27.724	.59056	29.521	.56294	.58075	28.409	.63149	.60699	28.086	.57448	.55349	30.420
#2	27.881	.59528	29.614	.56537	.57917	28.643	.63175	.61194	27.980	.57209	.55208	30.554
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	25.000	.50000	25.000	.50000	.50000	25.000	.50000	.50000	25.000	.50000	.50000	25.000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .63393	F .57223	F .57097	F .65564	F .57274	F .61161
Stddev	.00273	.00180	.00189	.00398	.00064	.00564
%RSD	.43095	.31508	.33032	.60774	.11101	.92139
#1	.63200	.57095	.56963	.65845	.57319	.60763
#2	.63587	.57350	.57230	.65282	.57229	.61560
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	.50000	.50000	.50000	.50000	.50000
Range	10.000%	10.000%	10.000%	10.000%	10.000%	10.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1977.6	1579.7	14618.	3380.5
Stddev	3.4	6.1	74.	3.1
%RSD	.17281	.38918	.50508	.09041
#1	1975.2	1575.4	14671.	3382.7
#2	1980.0	1584.1	14566.	3378.3

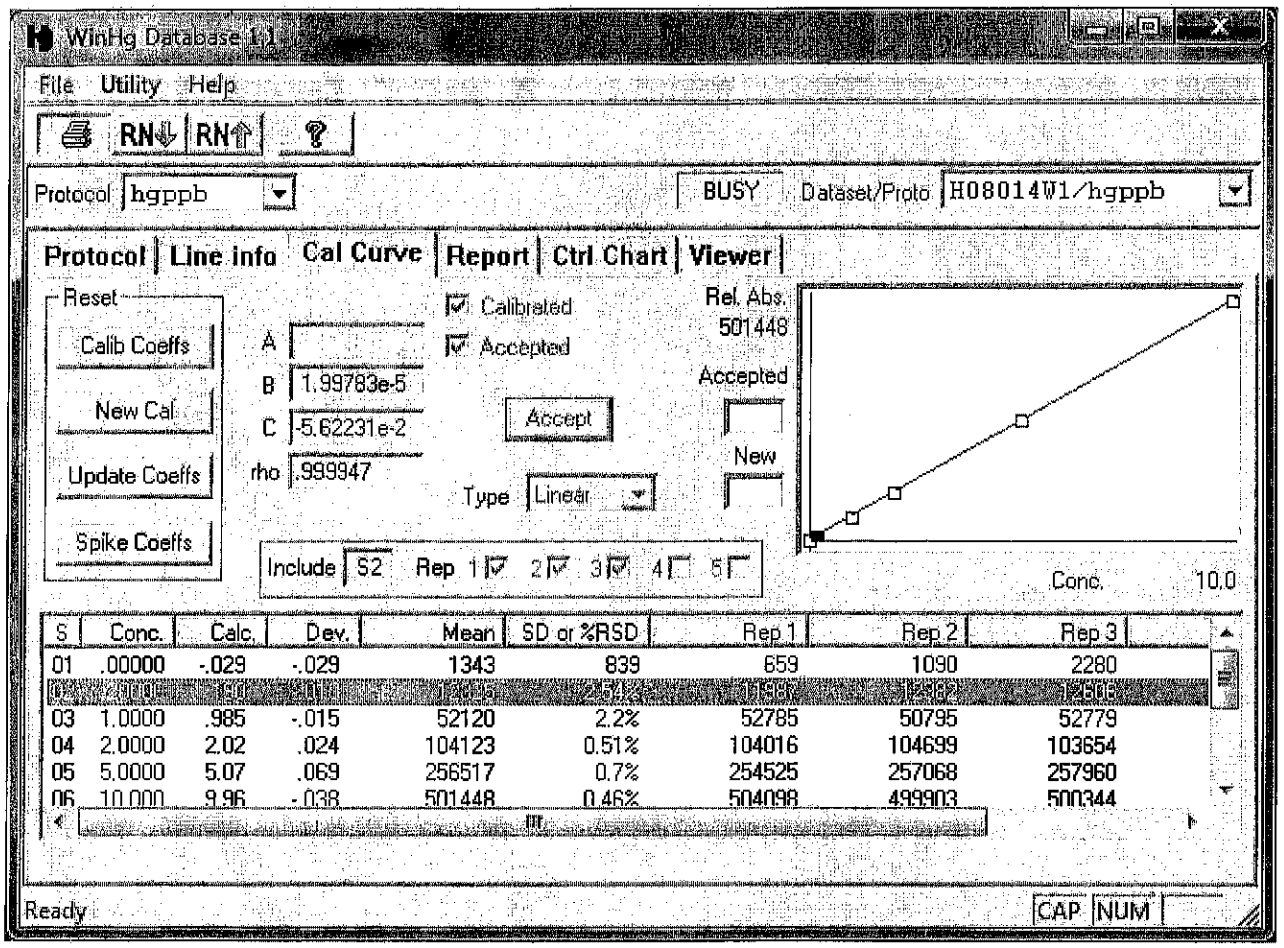
Sample Name: CCB Acquired: 8/4/2014 20:02:33 Type: QC
Method: ICAP 2 Aug 2014(v2) Mode: CONC Corr. Factor: 1.000000
User: SLB Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.02181**	**.00045**	**.00136**	**.00017**	**.00017**	**.01902**	**.00042**	**.00019**	**.00047**	**-.00070**	**.01127**	**.02619**
Stddev	.00001	.01402	.00168	.00097	.00002	.00006	.00519	.00048	.00030	.00018	.00028	.00044	.03483
%RSD	1.3148	64.284	372.45	71.484	10.970	35.468	27.287	113.65	163.55	38.117	40.565	3.9203	132.99
#1	.00038	.01189	.00164	.00205	.00016	.00013	.02269	.00076	.00040	.00034	-.00090	.01158	.05082
#2	.00039	.03172	-.00074	.00067	.00019	.00021	.01535	.00008	-.00003	.00059	-.00050	.01096	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**.02207**	**.00022**	**.00040**	**.01665**	**-.00004**	**.00098**	**.01821**	**-.00035**	**-.00014**	**.00017**	**.00123**	**.00024**
Stddev	.00036	.00382	.00000	.00041	.01425	.00033	.00162	.01842	.00096	.00150	.00745	.00041	.00005
%RSD	32.974	17.295	.59892	104.36	85.562	794.92	165.77	101.13	276.04	1061.6	4499.1	33.631	20.866
#1	.00135	.01937	.00022	.00069	.00658	.00019	.00212	.03123	.00033	.00092	-.00510	.00152	.00021
#2	.00084	.02477	.00022	.00010	.02673	-.00027	-.00017	.00519	-.00103	-.00120	.00544	.00093	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00043**	**.00014**	**-.00072**
Stddev	.00043	.00013	.00003	.00005
%RSD	323.30	29.967	19.550	6.5747
#1	-.00043	-.00034	.00016	-.00068
#2	.00017	-.00052	.00012	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2175.9**	**1581.0**	**15259.**	**3433.1**
Stddev	56.0	34.8	457.	21.4
%RSD	2.5743	2.1991	2.9971	.62464
#1	2136.3	1556.4	15583.	3448.3
#2	2215.5	1605.6	14936.	3417.9



L2
8/1/14

195826

Cal: H08014C1
Run: H08014W1
Batches: 195827, 195828, ~~195832~~
LK 8/4/14

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2ICV Seq: 1 12:59:32 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	3.05	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 13:01:11 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.035	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 3 13:02:58 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	L	67.1	.134	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 13:05:03 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.6	1.97	2.00	ppb	.000

*** Check Standard: 2 Ck2ICV Seq: 5 13:07:20 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	3.05	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 6 13:09:09 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.075	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 7 13:10:46 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		74.8	.150	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 8 13:12:33 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.6	1.93	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 9 13:14:11 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.058	.200	ppb	.000

*** Sample ID: Seq: 10 13:15:48 01 Aug 14 HG
mb 480-195827/1-a

Hg	-.025	ppb	.000	-.025

*** Sample ID: Seq: 11 13:17:27 01 Aug 14 HG
lcs 480-195827/2-a

Hg	2.77	ppb	.000	2.77

*** Sample ID: Seq: 12 13:19:22 01 Aug 14 HG
480-64487-h-1-d

Hg	-.034	ppb	.000	-.034

*** Sample ID: Seq: 13 13:20:57 01 Aug 14 HG
480-64490-e-4-b

Hg	-.054	ppb	.000	-.054

*** Sample ID: Seq: 14 13:22:34 01 Aug 14 HG
480-64490-e-4-bSD@5

Hg	-.047	ppb	.000	-.047

*** Sample ID: Seq: 15 13:24:19 01 Aug 14 HG
480-64490-e-4-c ms

Hg	3.68	ppb	.000	3.68

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 16	13:25:54 01 Aug 14	HG		
				480-64490-e-4-d msd				
Hg	3.34	ppb	.000	3.34				
*** Sample ID:				Seq: 17	13:27:33 01 Aug 14	HG		
				480-64555-e-1-b				
Hg	-.111	ppb	.000	-.111				
*** Sample ID:				Seq: 18	13:29:08 01 Aug 14	HG		
				480-64558-g-1-c				
Hg	-.042	ppb	.000	-.042				
*** Sample ID:				Seq: 19	13:30:45 01 Aug 14	HG		
				480-64563-g-1-c				
Hg	-.062	ppb	.000	-.062				

*** Check Standard: 3 Ck3CCV Seq: 20 13:32:21 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.6	1.95	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 21 13:34:00 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.051	.200	ppb	.000

*** Sample ID:				Seq: 22	13:35:46 01 Aug 14	HG		
				480-64563-g-2-c				
Hg	-.061	ppb	.000	-.061				
*** Sample ID:				Seq: 23	13:37:42 01 Aug 14	HG		
				480-64629-a-1-a				
Hg	-.044	ppb	.000	-.044				
*** Sample ID:				Seq: 24	13:39:50 01 Aug 14	HG		
				480-64646-e-1-a				
Hg	-.047	ppb	.000	-.047				
*** Sample ID:				Seq: 25	13:41:37 01 Aug 14	HG		
				480-64646-e-2-a				
Hg	-.031	ppb	.000	-.031				
*** Sample ID:				Seq: 26	13:43:12 01 Aug 14	HG		
				480-64646-e-3-a				
Hg	-.042	ppb	.000	-.042				
*** Sample ID:				Seq: 27	13:45:07 01 Aug 14	HG		
				480-64646-e-4-a				
Hg	-.030	ppb	.000	-.030				
*** Sample ID:				Seq: 28	13:46:48 01 Aug 14	HG		
				480-64646-e-5-a				
Hg	-.043	ppb	.000	-.043				
*** Sample ID:				Seq: 29	13:48:23 01 Aug 14	HG		
				480-64671-a-6-a				
Hg	-.053	ppb	.000	-.053				
*** Sample ID:				Seq: 30	13:49:59 01 Aug 14	HG		
				480-64676-e-1-d				
Hg	-.037	ppb	.000	-.037				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 13:51:39 01 Aug 14 HG
480-64676-e-2-b

Hg	-.039	ppb	.000	-.039	

*** Check Standard: 3 Ck3CCV Seq: 32 13:53:15 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.9	1.96	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 33 13:55:04 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.037	.200	ppb	.000

*** Sample ID: Seq: 34 13:56:49 01 Aug 14 HG
480-64676-e-3-b

Hg	-.049	ppb	.000	-.049	

*** Sample ID: Seq: 35 13:58:25 01 Aug 14 HG
480-64676-e-4-b

Hg	-.035	ppb	.000	-.035	

*** Sample ID: Seq: 36 14:00:21 01 Aug 14 HG
480-64622-b-3-c

Hg	-.024	ppb	.000	-.024	

*** Sample ID: Seq: 37 14:02:08 01 Aug 14 HG
480-64628-b-1-a

Hg	-.037	ppb	.000	-.037	

*** Sample ID: Seq: 38 14:04:07 01 Aug 14 HG
mb 480-195828/1-a

Hg	-.054	ppb	.000	-.054	

*** Sample ID: Seq: 39 14:05:42 01 Aug 14 HG
lcs 480-195828/2-a

Hg	3.89	ppb	.000	3.89	

*** Sample ID: Seq: 40 14:07:21 01 Aug 14 HG
lcsd 480-195828/3-a

Hg	3.93	ppb	.000	3.93	

*** Sample ID: Seq: 41 14:09:31 01 Aug 14 HG
480-64567-c-1-c

Hg	-.059	ppb	.000	-.059	

*** Sample ID: Seq: 42 14:11:08 01 Aug 14 HG
480-64567-c-2-e

Hg	-.065	ppb	.000	-.065	

*** Sample ID: Seq: 43 14:12:46 01 Aug 14 HG
480-64567-c-3-c

Hg	-.000	ppb	.000	-.000	

*** Check Standard: 3 Ck3CCV Seq: 44 14:14:34 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.5	1.97	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 45 14:16:20 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.040	.200	ppb	.000

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 46	14:18:18 01 Aug 14	HG		
				480-64567-c-4-c				
Hg	-.061	ppb	.000	-.061				
*** Sample ID:				Seq: 47	14:19:59 01 Aug 14	HG		
				480-64567-c-5-c				
Hg	-.037	ppb	.000	-.037				
*** Sample ID:				Seq: 48	14:22:01 01 Aug 14	HG		
				480-64570-c-1-c				
Hg	-.037	ppb	.000	-.037				
*** Sample ID:				Seq: 49	14:24:12 01 Aug 14	HG		
				480-64570-c-2-c				
Hg	-.061	ppb	.000	-.061				
*** Sample ID:				Seq: 50	14:25:49 01 Aug 14	HG		
				480-64570-c-3-c				
Hg	-.059	ppb	.000	-.059				
*** Sample ID:				Seq: 51	14:27:54 01 Aug 14	HG		
				480-64570-c-4-c				
Hg	-.041	ppb	.000	-.041				
*** Sample ID:				Seq: 52	14:29:30 01 Aug 14	HG		
				480-64573-c-1-c				
Hg	-.036	ppb	.000	-.036				
*** Sample ID:				Seq: 53	14:31:06 01 Aug 14	HG		
				480-64645-c-1-a				
Hg	-.050	ppb	.000	-.050				
*** Sample ID:				Seq: 54	14:32:45 01 Aug 14	HG		
				480-64645-c-1-aSD@5				
Hg	-.027	ppb	.000	-.027				
*** Sample ID:				Seq: 55	14:34:26 01 Aug 14	HG		
				480-64645-c-1-b ms				
Hg	3.98	ppb	.000	3.98				

*** Check Standard: 3 Ck3CCV Seq: 56 14:36:21 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.2	1.96	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 57 14:38:49 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.040	.200	ppb	.000

*** Sample ID:				Seq: 58	14:40:29 01 Aug 14	HG		
				480-64645-c-1-c msd				
Hg	3.87	ppb	.000	3.87				
*** Sample ID:				Seq: 59	14:42:18 01 Aug 14	HG		
				480-64645-c-2-a				
Hg	-.046	ppb	.000	-.046				
*** Sample ID:				Seq: 60	14:43:55 01 Aug 14	HG		
				480-64539-e-1-d				
Hg	-.041	ppb	.000	-.041				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 61 14:45:37 01 Aug 14 HG
480-64539-e-2-b
Hg -.039 ppb .000 -.039

*** Sample ID: Seq: 62 14:47:18 01 Aug 14 HG
480-64539-e-3-b
Hg -.054 ppb .000 -.054

*** Sample ID: Seq: 63 14:49:19 01 Aug 14 HG
480-64539-e-4-b@100
Hg .746 ppb .000 .746

*** Sample ID: Seq: 64 14:50:56 01 Aug 14 HG
480-64539-e-6-b
Hg -.039 ppb .000 -.039

*** Sample ID: Seq: 65 14:52:33 01 Aug 14 HG
480-64539-e-7-b
Hg .015 ppb .000 .015

*** Sample ID: Seq: 66 14:54:43 01 Aug 14 HG
480-64539-e-8-b
Hg -.024 ppb .000 -.024

*** Sample ID: Seq: 67 14:56:30 01 Aug 14 HG
480-64539-e-5-b
Hg 8.34 ppb .000 8.34

*** Check Standard: 3 Ck3CCV Seq: 68 14:58:17 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.0	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 69 14:59:53 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.002	.200	ppb	.000

*** Sample ID: Seq: 70 15:01:34 01 Aug 14 HG
lcs 480-195827/2-a
Hg 3.86 ppb .000 3.86

*** Check Standard: 3 Ck3CCV Seq: 71 15:03:09 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.5	1.95	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 72 15:05:05 01 Aug 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.032	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 73 15:06:54 01 Aug 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.2	.198	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Batch Number: 195814 Batch Start Date: 08/01/14 06:30 Batch Analyst: Donowick, Edward H

Batch Method: 3005A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00053	MED_01_W1 00020	MED_02_W2 00020	MED_03_Ag 00057
MB 480-195814/1		3005A, 6010C		50 mL	50 mL				
LCS 480-195814/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-64676-E-1	AS-WTPE-14-0044	3005A, 6010C	T	50 mL	50 mL				
480-64676-E-1 MS	AS-WTPE-14-0044	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-64676-E-1 MSD	AS-WTPE-14-0044	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-64676-E-2	AS-WTPE-14-0045	3005A, 6010C	T	50 mL	50 mL				
480-64676-E-3	AS-WTPE-14-0046	3005A, 6010C	T	50 mL	50 mL				
480-64676-E-4	AS-WTPE-14-0047	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00051	MED_05_S 00015				
MB 480-195814/1		3005A, 6010C							
LCS 480-195814/2		3005A, 6010C		0.25 mL	0.25 mL				
480-64676-E-1	AS-WTPE-14-0044	3005A, 6010C	T						
480-64676-E-1 MS	AS-WTPE-14-0044	3005A, 6010C	T	0.25 mL	0.25 mL				
480-64676-E-1 MSD	AS-WTPE-14-0044	3005A, 6010C	T	0.25 mL	0.25 mL				
480-64676-E-2	AS-WTPE-14-0045	3005A, 6010C	T						
480-64676-E-3	AS-WTPE-14-0046	3005A, 6010C	T						
480-64676-E-4	AS-WTPE-14-0047	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Batch Number: 195814 Batch Start Date: 08/01/14 06:30 Batch Analyst: Donowick, Edward H

Batch Method: 3005A Batch End Date:

Batch Notes	
First End time	1000
Hydrochloric Acid Reagent ID Number	0000066908
Nitric Acid Reagent ID Number	0000067379
Hood ID or number	A
Oven, Bath or Block Temperature 1	95.2
Oven, Bath or Block Temperature 2	94.9
Pipette ID	MDL-3
First Start time	0630
Digestion Tube/Cup Lot #	1404095
Uncorrected Temperature	93.7 Celsius
Uncorrected Temperature 2	93.4 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64676-1

SDG No.:

Batch Number: 195827 Batch Start Date: 08/01/14 09:00 Batch Analyst: Kasprzyk, Layne R

Batch Method: 7470A Batch End Date: 08/01/14 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00703			
MB 480-195827/1		7470A, 7470A		30 mL	50 mL				
LCS 480-195827/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-64676-E-1	AS-WTPE-14-0044	7470A, 7470A	T	30 mL	50 mL				
480-64676-E-2	AS-WTPE-14-0045	7470A, 7470A	T	30 mL	50 mL				
480-64676-E-3	AS-WTPE-14-0046	7470A, 7470A	T	30 mL	50 mL				
480-64676-E-4	AS-WTPE-14-0047	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	2222087
Batch Comment	Cal Batch: 194826
Sulfuric Acid Lot Number	2210599
Lot # of Nitric Acid	2221611
Hot Block ID number	HG-B
Potassium Persulfate Lot Number	2224488
Potassium Permanganate Lot Number	2190620
Oven, Bath or Block Temperature 1	97.6 Celsius
Pipette ID	HGL-5
Stannous Chloride Lot Number	2213470
ID number of the thermometer	S/N5292
Digestion Tube/Cup Lot #	1404094
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

480-64676 Chain of Custody

Client Information	Sampler: Scott Clary	Lab PM: Deyo, Melissa L
Client Contact: Mr. Scott Clary	Phone:	E-Mail: melissa.deyo@testamericainc.com
Company: Horizon Environmental Services		
Address: 590 A Callery Road	Due Date Requested:	
City: Cranberry Township	TAT Requested (days): 1 DAY TAT	
State, Zip: PA, 16066	PO #: Purchase Order not required	
Phone: 724-538-8522(Tel)	WO #:	
Email: scott@horizonenviro.net	Project #: 48009222	
Project Name: Altech Specialty Steel; Dunkirk, NY	SSOW#:	
Site:		

Analysis Requested

Preservation Codes:
A - HCl; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

CAT-B - ASP DEL.

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8270D - TCL Semivolatiles	8260C - TCL Volatiles	6010C, 7471B	6010C, 7470A, 8081B, 8270D	8260C - TCLP Volatiles	8260C - TCL list OLM04.2	8270D - TCL SVOA - OLM04.2	6010C, 7470A	8082A_LL - (MOD) Local Method	8260C - TCL list OLM04.2	8082A, 8270D	Total Number of containers
			Preservation Code:				N	N	N	N	N	N	A	N	D	N	N	N	
AS-WTPE-14-0044	7/30/14	2:00pm	G	Water			X	X	X						X				8 Bottles/sample
AS-WTPE-14-0045	7/30/14	5:30pm	G	Water			X	X	X						X				
AS-WTPE-14-0046	7-31-14	8:00am	G	Water			X	X	X						X				
AS-WTPE-14-0047	7/31/14	11:00am	G	Water			X	X	X						X				
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															
				Water															

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
1		7/31/14 1130am			7/31/14 14:20	
2		7/31/14 15:50	TMB		7/31/14 1550	
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2, 2.6 #1

08/28/2014

Login Sample Receipt Checklist

Client: Horizon Environmental Services

Job Number: 480-64676-1

Login Number: 64676

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

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