Appendix K

Hydraulic Oil Waste Profile, Waste Characterization, and Waste Documentation

INDUSTRIAL OIL TANK SERVICE CORP.

VACUUM TRUCK & TRANSPORTATION SERVICES
WASTE DISPOSAL - PETROLEUM RECYCLING
REMEDIATION SUPPLIES

120 Dry Road
Oriskany, New York 13424
Telephone (315) 736-6080
Fax (315) 736-4649

EPA NO. NYR000005298

PLEASE ATTACH: All Material Safety Data Sheets, (MSDS), Analysis Reports, Handling Precautions, Additional Hazard Information, Support Data & Comments

Generator Name: US ARMY Corp of Engineers NY Dist.
Facility Address: 601 Willardshire Rd.
City, State, Zip: East Aurora NY 14052
Technical Contact: Mark Lovejoy (Name) (Title)
Area Code (339) Telephone # 234-3142
Facility EPA ID #:

Billing Address: Same as Gen.
4655 Corporate Park Dr.
City, State, Zip: Liverpool NY 13088
Business Contact: Kevin Cannon (Name) (Title)
Area Code (716) Telephone # 640-3782
Common Name of Waste: Hydraulic oil water mix
EPA Haz Waste No: Non RCRA No:
Container Type: [X] Drum [ ] Bulk [ ] Other
Rate of Generation: 300 gal (6) Units (1) Time
Quantity Per (Mo Yr)

SPECIFIC GENERATING PROCESS INFORMATION

Hydraulic oil removed from an out of service hydraulic elevator.

CHEMICAL COMPOSITION (Totals must add up to 100%)

Hydraulic oil	60-80 %
Water	0-20 %
	%
	%
	%
	%
	%
	%
	%

Proper DOT Shipping Named: Include RQ Information
NON-RCRA, NON-DOT Regulated Material
Add'l Desc:
Hazard Class: UN/NA No:

PHYSICAL DESCRIPTION

Physical State: [X] Liquid [ ] Semi Solid [ ] Solid
Viscosity: [ ] Low [ ] Medium [ ] High
Liquid Layering: [ ] None [X] Bilayered [ ] Multilayered
Solids (Wt%): BS+W: Total:
Free Liquid: [X] Yes [ ] No
Odor: Petroleum Color: Brown
Total Halogen (%): TOC (ppm):
Flash Point °F: BTU/lb:
PCB (ppm): ND Pesticide/Herbicide (ppm):

METALS (Mg/L or ppm)

	Total	TCLP		Total	TCLP
Antimony (Sb)	NA		Lead (Pb)	4.7	
Arsenic (As)	ND		Mercury (Hg)	ND	
Barium (Ba)	40.8		Nickel (Ni)	NA	
Beryllium (B)	NA		Selenium (Se)	ND	
Cadmium (Cd)	0.07		Silver (Ag)	ND	
Chromium (Cr)	1.4		Thallium (Tl)	NA	
Copper (Cu)	NA		Zinc (Zn)	NA	

Certification:
I hereby certify that I have personally examined and am familiar with the information submitted in this and all attached documents. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed.

ON BEHALF OF USACE
Signature Date

Mark Lovejoy 12/7/18
Name/Distributor Date

Approved for Acceptance: [ ] Yes [ ] No

Sales Rep.

Handling Code _____ Date _____

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Tantara Corporation

USACE Buffalo Nike Missle UST, East Aurora, NY

16-299

SGS Job Number: JC78619A

Sampling Date: 11/27/18



Report to:

Tantara Corporation
54 Mason Street
Worcester, MA 01610
MLovejoy@TantaraCorp.com

ATTN: Mark Lovejoy

Total number of pages in report: 791

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

Brian McGuire
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

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

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EHS.US.CustomerCare@sgs.com

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Sample Summary

Tantara Corporation

Job No: JC78619A

USACE Buffalo Nike Missle UST, East Aurora, NY
Project No: 16-299

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JC78619-2	11/27/18	08:40	MH	11/28/18	SO	Oil	SILO PISTON OIL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Tantara Corporation	**Job No**	JC78619A
Site:	USACE Buffalo Nike Missle UST, East Aurora, NY	**Report Date**	12/11/2018 9:38:45 A

On 11/28/2018, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC78619A was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

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

MS Semi-volatiles By Method SW846 8270D

Matrix: SO **Batch ID:** OP17120

- All samples were extracted within the recommended method holding time.
- Sample(s) JC78619-2MS, JC78619-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dimethylphenol, 2-Methylphenol, 4-Chlorophenyl phenyl ether, Acenaphthene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzoic acid, Chrysene, Dibenzofuran, Fluoranthene, Fluorene, Naphthalene, Pentachlorophenol are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for 2,6-Dinitrotoluene, 4-Nitrophenol, Benzoic acid, Butyl benzyl phthalate, Pentachlorophenol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, 4-Nitrophenol, Benzoic acid, Butyl benzyl phthalate, Di-n-octyl phthalate, Pentachlorophenol, Phenol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for bis(2-Ethylhexyl)phthalate, Di-n-butyl phthalate are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for Benzyl Alcohol are outside of in house control limits.
- JC78619-2 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JC78619-2 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JC78619-2 for Benzo(b)fluoranthene: Associated CCV outside of control limits high, sample was ND.
- JC78619-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JC78619-2 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JC78619-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- OP17120-MSD for Terphenyl-d14: Outside control limits due to matrix interference.
- JC78619-2 for Terphenyl-d14: Outside control limits due to matrix interference, confirmed by MS/MSD.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO **Batch ID:** OP17101

- All samples were extracted within the recommended method holding time.
- Sample(s) JC78977-1MS, JC78977-1MSDwere used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010D

Matrix: SO **Batch ID:** MP11070

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC78941-1SDL, JC78941-1MS, JC78941-1MSD, JC78941-1SDL were used as the QC samples for metals.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Lead are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MS/MSD for Lead are outside control limits. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Lead are outside control limits. Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** MP11075

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC78941-1MSD, JC78941-1MS were used as the QC samples for metals.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Mercury are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MS/MSD for Mercury are outside control limits. High rpd due to possible sample nonhomogeneity.

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

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

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

Summary of Hits

Job Number: JC78619A
Account: Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY
Collected: 11/27/18

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC78619-2	**SILO PISTON OIL**					
3&4-Methylphenol		37800 J	40000	16000	ug/kg	SW846 8270D
Di-n-butyl phthalate		549000	40000	3300	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		415000	40000	4700	ug/kg	SW846 8270D
N-Nitrosodiphenylamine		22000 J	100000	7300	ug/kg	SW846 8270D
Barium		40.8	20	1.9	mg/kg	SW846 6010D
Cadmium		0.070 B	0.50	0.070	mg/kg	SW846 6010D
Chromium		1.4	1.0	0.37	mg/kg	SW846 6010D
Lead		4.7	2.0	0.41	mg/kg	SW846 6010D

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SILO PISTON OIL		
Lab Sample ID:	JC78619-2	**Date Sampled:**	11/27/18
Matrix:	SO - Oil	**Date Received:**	11/28/18
Method:	SW846 8270D SW846 3580A	**Percent Solids:**	n/a
Project:	USACE Buffalo Nike Missle UST, East Aurora, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P477613.D	2	12/06/18 05:23	SA	12/05/18 15:30	OP17120	E6P2423
Run #2							

	Initial Weight	Final Volume
Run #1	1.0 g	10.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid [a]	ND	400000	33000	ug/kg	
95-57-8	2-Chlorophenol	ND	40000	9900	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	100000	12000	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	100000	17000	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	100000	36000	ug/kg	
51-28-5	2,4-Dinitrophenol [a]	ND	100000	75000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	100000	21000	ug/kg	
95-48-7	2-Methylphenol	ND	40000	13000	ug/kg	
	3&4-Methylphenol	37800	40000	16000	ug/kg	J
88-75-5	2-Nitrophenol	ND	100000	13000	ug/kg	
100-02-7	4-Nitrophenol	ND	200000	53000	ug/kg	
87-86-5	Pentachlorophenol [a]	ND	80000	19000	ug/kg	
108-95-2	Phenol	ND	40000	10000	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	100000	15000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	100000	12000	ug/kg	
83-32-9	Acenaphthene	ND	20000	6900	ug/kg	
208-96-8	Acenaphthylene	ND	20000	10000	ug/kg	
62-53-3	Aniline	ND	40000	9000	ug/kg	
120-12-7	Anthracene	ND	20000	12000	ug/kg	
92-87-5	Benzidine	ND	200000	35000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	20000	5700	ug/kg	
50-32-8	Benzo(a)pyrene	ND	20000	9100	ug/kg	
205-99-2	Benzo(b)fluoranthene [a]	ND	20000	8800	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	20000	10000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	20000	9300	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	40000	7700	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	40000	4900	ug/kg	
100-51-6	Benzyl Alcohol	ND	40000	7100	ug/kg	
91-58-7	2-Chloronaphthalene	ND	40000	4800	ug/kg	
106-47-8	4-Chloroaniline	ND	100000	7200	ug/kg	
86-74-8	Carbazole	ND	40000	2900	ug/kg	
218-01-9	Chrysene	ND	20000	6300	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SILO PISTON OIL		
Lab Sample ID:	JC78619-2	**Date Sampled:**	11/27/18
Matrix:	SO - Oil	**Date Received:**	11/28/18
Method:	SW846 8270D SW846 3580A	**Percent Solids:**	n/a
Project:	USACE Buffalo Nike Missle UST, East Aurora, NY		

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	40000	4300	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	40000	8600	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	40000	7200	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	40000	6500	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	40000	5800	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	40000	4500	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	40000	4300	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	40000	4900	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	20000	6200	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	20000	10000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	40000	17000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	20000	8800	ug/kg	
132-64-9	Dibenzofuran	ND	40000	8100	ug/kg	
84-74-2	Di-n-butyl phthalate	549000	40000	3300	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	40000	5000	ug/kg	
84-66-2	Diethyl phthalate	ND	40000	4300	ug/kg	
131-11-3	Dimethyl phthalate	ND	40000	3600	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	415000	40000	4700	ug/kg	
206-44-0	Fluoranthene	ND	20000	8900	ug/kg	
86-73-7	Fluorene	ND	20000	9200	ug/kg	
118-74-1	Hexachlorobenzene	ND	40000	5100	ug/kg	
87-68-3	Hexachlorobutadiene	ND	20000	8000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200000	8000	ug/kg	
67-72-1	Hexachloroethane	ND	100000	9900	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	20000	9400	ug/kg	
78-59-1	Isophorone	ND	40000	4300	ug/kg	
90-12-0	1-Methylnaphthalene	ND	20000	3900	ug/kg	
91-57-6	2-Methylnaphthalene	ND	20000	4500	ug/kg	
88-74-4	2-Nitroaniline	ND	100000	4700	ug/kg	
99-09-2	3-Nitroaniline	ND	100000	5000	ug/kg	
100-01-6	4-Nitroaniline	ND	100000	5200	ug/kg	
91-20-3	Naphthalene	ND	20000	5600	ug/kg	
98-95-3	Nitrobenzene	ND	40000	7700	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	40000	7200	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	40000	5800	ug/kg	
86-30-6	N-Nitrosodiphenylamine	22000	100000	7300	ug/kg	J
85-01-8	Phenanthrene	ND	20000	6700	ug/kg	
129-00-0	Pyrene	ND	20000	6400	ug/kg	
110-86-1	Pyridine	ND	40000	6900	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	40000	5200	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SILO PISTON OIL		
Lab Sample ID:	JC78619-2	**Date Sampled:**	11/27/18
Matrix:	SO - Oil	**Date Received:**	11/28/18
Method:	SW846 8270D SW846 3580A	**Percent Solids:**	n/a
Project:	USACE Buffalo Nike Missle UST, East Aurora, NY		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	89%		23-115%
4165-62-2	Phenol-d5	89%		27-114%
118-79-6	2,4,6-Tribromophenol	128%		19-152%
4165-60-0	Nitrobenzene-d5	93%		26-134%
321-60-8	2-Fluorobiphenyl	113%		39-124%
1718-51-0	Terphenyl-d14	142% b		36-134%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Outside control limits due to matrix interference, confirmed by MS/MSD.

SGS North America Inc.

Report of Analysis

Client Sample ID:	SILO PISTON OIL		
Lab Sample ID:	JC78619-2	**Date Sampled:**	11/27/18
Matrix:	SO - Oil	**Date Received:**	11/28/18
Method:	SW846 8082A SW846 3580A	**Percent Solids:**	n/a
Project:	USACE Buffalo Nike Missle UST, East Aurora, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF186057.D	1	12/06/18 05:18	TR	12/05/18 12:30	OP17101	GEF6326
Run #2							

	Initial Weight	Final Volume
Run #1	1.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	500	200	ug/kg	
11104-28-2	Aroclor 1221	ND	500	200	ug/kg	
11141-16-5	Aroclor 1232	ND	500	130	ug/kg	
53469-21-9	Aroclor 1242	ND	500	80	ug/kg	
12672-29-6	Aroclor 1248	ND	500	290	ug/kg	
11097-69-1	Aroclor 1254	ND	500	120	ug/kg	
11096-82-5	Aroclor 1260	ND	500	160	ug/kg	
11100-14-4	Aroclor 1268	ND	500	74	ug/kg	
37324-23-5	Aroclor 1262	ND	500	38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%		31-146%
877-09-8	Tetrachloro-m-xylene	129%		31-146%
2051-24-3	Decachlorobiphenyl	63%		17-164%
2051-24-3	Decachlorobiphenyl	90%		17-164%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SILO PISTON OIL		
Lab Sample ID:	JC78619-2	**Date Sampled:**	11/27/18
Matrix:	SO - Oil	**Date Received:**	11/28/18
		Percent Solids:	n/a
Project:	USACE Buffalo Nike Missle UST, East Aurora, NY		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	0.28 U	2.0	0.28	mg/kg	1	12/05/18	12/06/18	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	40.8	20	1.9	mg/kg	1	12/05/18	12/06/18	ND	SW846 6010D [2]	SW846 3050B [4]
Cadmium	0.070 B	0.50	0.070	mg/kg	1	12/05/18	12/06/18	ND	SW846 6010D [2]	SW846 3050B [4]
Chromium	1.4	1.0	0.37	mg/kg	1	12/05/18	12/06/18	ND	SW846 6010D [3]	SW846 3050B [4]
Lead	4.7	2.0	0.41	mg/kg	1	12/05/18	12/06/18	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	0.014 U	0.031	0.014	mg/kg	1	12/05/18	12/05/18	EAL	SW846 7471B [1]	SW846 7471B [5]
Selenium	0.65 U	2.0	0.65	mg/kg	1	12/05/18	12/06/18	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	0.17 U	0.50	0.17	mg/kg	1	12/05/18	12/06/18	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA45785
(2) Instrument QC Batch: MA45789
(3) Instrument QC Batch: MA45795
(4) Prep QC Batch: MP11070
(5) Prep QC Batch: MP11075

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

SO SLL Oil

CHAIN OF CUSTODY

PAGE 1 OF 1

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

FED-EX Tracking # 4357 6346 2020 | Bottle Order Control # 8D-032118-90
SGS Quote # | SGS Job # JC78619

Client / Reporting Information

Company Name: Tantara Corp
Street Address: 54 Mason Street
City: Worcester State: MA Zip: 01610
Project Contact: Mark Lovejoy E-mail: mlovejoy@tantaracorp.com
Phone #: 339-234-3142 Fax #:
Sampler(s) Name(s): Matt Herbert Phone #:

Project Information

Project Name: Buffalo NIKE
Street:
City: E. Aurora State: NY
Project #:
Client Purchase Order #: 16-299
Project Manager: Mark Lovejoy

Billing Information (if different from Report to)

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

Requested Analysis (see TEST CODE sheet)

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs	SVOCs	PCBs	RCRA 8 Metals	LAB USE ONLY
1	SILO 1 PAH Soil		11-27-18	0830	MH	S										✓	✓	✓	✓	D13
2	SILO Piston Oil		11-27-18	0840	MH	Liq											✓	✓	✓	1452
																				40115
																				53A9

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

Turnaround Time (Business days)

Approved by (SGS Project Manager)/Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH
- [ ] other

Emergency & Rush T/A data available via LabLink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only; Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT SB/MOD 8

LABEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory

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

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Matt Herbert	11-27-18	FEDEX	FEDEX	11/28/18 9:50	
2	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3						
4	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not intact	Preserved where applicable
5						On Ice ✓ Cooler Temp. 2.3°C IP

Form:SM088-03C (revised 2/12/18)

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

5.1 5

JC78619A: Chain of Custody
Page 1 of 5

SGS Sample Receipt Summary

Job Number: JC78619 **Client:** TANTARA CORPORATION **Project:** USACE BUFFALO NIKE MISSLE UST, EAST AU

Date / Time Received: 11/28/2018 9:50:00 AM **Delivery Method:** FedEx **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.0);

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

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

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

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

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

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

Test Strip Lot #s: pH 1-12: 216017 pH 12+: 208717 Other: (Specify)

Comments: -2: Received 2x60mL bottles containing biphasic oil/water mixture. Approximately 20-30mL of oil layer per bottle.

SM089-02 Rev. Date 12/1/16

Responded to by: Tammy Esposito McCloskey Response Date: 11/28/18

-2 Please analyze oil phase per Mark Lovejoy.

JC78619A: Chain of Custody
Page 3 of 5

Job Change Order: JC78619

Requested Date:	12/6/2018	**Received Date:**	11/28/2018
Account Name:	Tantara Corporation	**Due Date:**	11/29/2018
Project Description:	USACE Buffalo Nike Missle UST, East Aurora, NY	**Deliverable:**	FULT1
C/O Initiated By:	TAMMY **PM:** TM	**TAT (Days):**	0

==========

Sample #: JC78619-2

Dept:

TAT: 0

SILO PISTON OIL

Change:
Please move this sample to an "A" job. Once done please finalize JC78619 ASAP.

==========

Above Changes Per: Mark Lovejoy **Date/Time:** 12/6/2018 12:42:04 PM

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

Job Change Order: JC78619_12/6/2018

Requested Date:	12/6/2018	**Received Date:**	11/28/2018
Account Name:	Tantara Corporation	**Due Date:**	11/29/2018
Project Description:	USACE Buffalo Nike Missle UST, East Aurora, NY	**Deliverable:**	FULT1
C/O Initiated By:	TAMMY	**PM:** TM	**TAT (Days):** 0

Sample #:	**Change:**
JC78619-2 SILO PISTON OIL	Please move this sample to an "A" job. Once done please finalize JC78619 ASAP.

Above Changes Per: Mark Lovejoy **Date:** 12/6/2018

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

Page 1 of 1

JC78619A: Chain of Custody
Page 5 of 5

Internal Sample Tracking Chronicle

Tantara Corporation

Job No: JC78619A

USACE Buffalo Nike Missle UST, East Aurora, NY
Project No: 16-299

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC78619-2	Collected: 27-NOV-18 08:40 By: MH			Received: 28-NOV-18 By: DG		
SILO PISTON OIL						
JC78619-2	SW846 7471B	05-DEC-18 14:13	EAL	05-DEC-18	EAL	HG
JC78619-2	SW846 8082A	06-DEC-18 05:18	TR	05-DEC-18	CC	P8082PCB11
JC78619-2	SW846 8270D	06-DEC-18 05:23	SA	05-DEC-18	LJ	AB8270STD
JC78619-2	SW846 6010D	06-DEC-18 07:52	ND	05-DEC-18	TG	AG,AS,BA,CD,PB,SE
JC78619-2	SW846 6010D	06-DEC-18 23:05	ND	05-DEC-18	TG	CR

SGS Internal Chain of Custody

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY
Received: 11/28/18

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC78619-2.1	Secured Storage	Todd Shoemaker	11/28/18 11:34	Retrieve from Storage
JC78619-2.1	Todd Shoemaker	Secured Staging Area	11/28/18 11:34	Return to Storage
JC78619-2.1	Secured Staging Area	Natasha Torres	11/28/18 14:38	Retrieve from Storage
JC78619-2.1	Natasha Torres	Luis Jimenez	11/28/18 15:19	Custody Transfer
JC78619-2.1	Luis Jimenez	Secured Storage	11/29/18 23:20	Return to Storage
JC78619-2.1	Secured Storage	Dwayne Johnson	12/05/18 10:30	Retrieve from Storage
JC78619-2.1	Dwayne Johnson	Secured Staging Area	12/05/18 10:30	Return to Storage
JC78619-2.1	Secured Staging Area	Lindsey Lee	12/05/18 10:35	Retrieve from Storage
JC78619-2.1	Lindsey Lee	Taylor Gorman	12/05/18 13:31	Custody Transfer
JC78619-2.1	Taylor Gorman	Secured Storage	12/05/18 13:34	Return to Storage
JC78619-2.1.1	Natasha Torres	Organics Prep	11/28/18 14:38	Extract from JC78619-2.1
JC78619-2.1.1	Organics Prep	Natasha Torres	11/28/18 15:54	Extract from JC78619-2.1
JC78619-2.1.1	Natasha Torres	Extract Storage	11/28/18 15:54	Return to Storage
JC78619-2.1.1	Extract Storage	Tianwei Ruan	11/28/18 16:48	Retrieve from Storage
JC78619-2.1.1	Tianwei Ruan	GC2G	11/28/18 16:48	Load on Instrument
JC78619-2.1.1	GC2G	Tianwei Ruan	11/30/18 15:27	Unload from Instrument
JC78619-2.1.1	Tianwei Ruan	Extract Freezer	11/30/18 15:30	Return to Storage
JC78619-2.1.2	Luis Jimenez	Organics Prep	11/28/18 15:20	Extract from JC78619-2.1
JC78619-2.1.2	Naisha Torres	Extract Storage	11/28/18 21:53	Return to Storage
JC78619-2.1.2	Organics Prep	Naisha Torres	11/28/18 21:53	Extract from JC78619-2.1
JC78619-2.1.3	Taylor Gorman	Metals Digestion	12/05/18 13:33	Digestate from JC78619-2.1
JC78619-2.1.3	Metals Digestion	Taylor Gorman	12/05/18 13:33	Digestate from JC78619-2.1
JC78619-2.1.3	Taylor Gorman	Metals Digestate Storage	12/05/18 13:33	Return to Storage
JC78619-2.2	Secured Storage	Benjamin Gaines	12/05/18 12:02	Retrieve from Storage
JC78619-2.2	Benjamin Gaines	Secured Staging Area	12/05/18 12:02	Return to Storage
JC78619-2.2	Secured Staging Area	Natasha Torres	12/05/18 12:20	Retrieve from Storage
JC78619-2.2	Natasha Torres	Luis Jimenez	12/05/18 15:16	Custody Transfer
JC78619-2.2	Luis Jimenez	Secured Storage	12/05/18 21:49	Return to Storage
JC78619-2.2.1	Natasha Torres	Organics Prep	12/05/18 12:20	Extract from JC78619-2.2
JC78619-2.2.1	Organics Prep	Chatiyah Canaday	12/05/18 15:02	Extract from JC78619-2.2
JC78619-2.2.1	Chatiyah Canaday	Extract Storage	12/05/18 15:02	Return to Storage
JC78619-2.2.1	Extract Storage	Tianwei Ruan	12/05/18 16:55	Retrieve from Storage
JC78619-2.2.1	Tianwei Ruan	GCEF	12/05/18 16:55	Load on Instrument
JC78619-2.2.2	Luis Jimenez	Organics Prep	12/05/18 15:21	Extract from JC78619-2.2
JC78619-2.2.2	Organics Prep	Luis Jimenez	12/05/18 15:46	Extract from JC78619-2.2
JC78619-2.2.2	Luis Jimenez		12/05/18 15:48	Depleted

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-MB1	6P477595.D	1	12/05/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	200000	17000	ug/kg	
95-57-8	2-Chlorophenol	ND	20000	4900	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	50000	6100	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	50000	8500	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	50000	18000	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	50000	38000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	50000	11000	ug/kg	
95-48-7	2-Methylphenol	ND	20000	6400	ug/kg	
	3&4-Methylphenol	ND	20000	8200	ug/kg	
88-75-5	2-Nitrophenol	ND	50000	6600	ug/kg	
100-02-7	4-Nitrophenol	ND	100000	27000	ug/kg	
87-86-5	Pentachlorophenol	ND	40000	9400	ug/kg	
108-95-2	Phenol	ND	20000	5200	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	50000	7500	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	50000	6000	ug/kg	
83-32-9	Acenaphthene	ND	10000	3500	ug/kg	
208-96-8	Acenaphthylene	ND	10000	5100	ug/kg	
62-53-3	Aniline	ND	20000	4500	ug/kg	
120-12-7	Anthracene	ND	10000	6100	ug/kg	
92-87-5	Benzidine	ND	100000	17000	ug/kg	
56-55-3	Benzo(a)anthracene	ND	10000	2800	ug/kg	
50-32-8	Benzo(a)pyrene	ND	10000	4600	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	10000	4400	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	10000	5000	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	10000	4700	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	20000	3900	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	20000	2400	ug/kg	
100-51-6	Benzyl Alcohol	ND	20000	3600	ug/kg	
91-58-7	2-Chloronaphthalene	ND	20000	2400	ug/kg	
106-47-8	4-Chloroaniline	ND	50000	3600	ug/kg	
86-74-8	Carbazole	ND	20000	1500	ug/kg	
218-01-9	Chrysene	ND	10000	3200	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	20000	2100	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	20000	4300	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	20000	3600	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	20000	3200	ug/kg	

Method Blank Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-MB1	6P477595.D	1	12/05/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	20000	2900	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	20000	2300	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	20000	2100	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	20000	2400	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	10000	3100	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	10000	5000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	20000	8300	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	10000	4400	ug/kg	
132-64-9	Dibenzofuran	ND	20000	4100	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	20000	1600	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	20000	2500	ug/kg	
84-66-2	Diethyl phthalate	ND	20000	2100	ug/kg	
131-11-3	Dimethyl phthalate	ND	20000	1800	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	20000	2300	ug/kg	
206-44-0	Fluoranthene	ND	10000	4500	ug/kg	
86-73-7	Fluorene	ND	10000	4600	ug/kg	
118-74-1	Hexachlorobenzene	ND	20000	2500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	10000	4000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	100000	4000	ug/kg	
67-72-1	Hexachloroethane	ND	50000	5000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	10000	4700	ug/kg	
78-59-1	Isophorone	ND	20000	2100	ug/kg	
90-12-0	1-Methylnaphthalene	ND	10000	2000	ug/kg	
91-57-6	2-Methylnaphthalene	ND	10000	2300	ug/kg	
88-74-4	2-Nitroaniline	ND	50000	2400	ug/kg	
99-09-2	3-Nitroaniline	ND	50000	2500	ug/kg	
100-01-6	4-Nitroaniline	ND	50000	2600	ug/kg	
91-20-3	Naphthalene	ND	10000	2800	ug/kg	
98-95-3	Nitrobenzene	ND	20000	3900	ug/kg	
62-75-9	n-Nitrosodimethylamine	ND	20000	3600	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	20000	2900	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	50000	3700	ug/kg	
85-01-8	Phenanthrene	ND	10000	3400	ug/kg	
129-00-0	Pyrene	ND	10000	3200	ug/kg	
110-86-1	Pyridine	ND	20000	3400	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	20000	2600	ug/kg	

Method Blank Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-MB1	6P477595.D	1	12/05/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	96%	23-115%
4165-62-2	Phenol-d5	95%	27-114%
118-79-6	2,4,6-Tribromophenol	121%	19-152%
4165-60-0	Nitrobenzene-d5	107%	26-134%
321-60-8	2-Fluorobiphenyl	117%	39-124%
1718-51-0	Terphenyl-d14	126%	36-134%

Blank Spike Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-BS1	6P477596.D	1	12/05/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	50000	87400	175* [a]	37-139
95-57-8	2-Chlorophenol	50000	54800	110	44-122
59-50-7	4-Chloro-3-methyl phenol	50000	55200	110	50-123
120-83-2	2,4-Dichlorophenol	50000	58000	116	48-122
105-67-9	2,4-Dimethylphenol	50000	62900	126* [a]	48-124
51-28-5	2,4-Dinitrophenol	100000	122000	122	34-146
534-52-1	4,6-Dinitro-o-cresol	50000	66500	133	49-140
95-48-7	2-Methylphenol	50000	63300	127* [a]	40-126
	3&4-Methylphenol	50000	59300	119	40-127
88-75-5	2-Nitrophenol	50000	59400	119	44-133
100-02-7	4-Nitrophenol	50000	34000	68	35-153
87-86-5	Pentachlorophenol	50000	95700	191* [a]	15-149
108-95-2	Phenol	50000	54500	109	50-109
95-95-4	2,4,5-Trichlorophenol	50000	60200	120	45-124
88-06-2	2,4,6-Trichlorophenol	50000	62300	125* [a]	57-122
83-32-9	Acenaphthene	50000	59900	120* [a]	53-119
208-96-8	Acenaphthylene	50000	57700	115	41-125
62-53-3	Aniline	50000	29600	59	10-132
120-12-7	Anthracene	50000	59800	120	51-120
92-87-5	Benzidine	100000	67700	68	10-136
56-55-3	Benzo(a)anthracene	50000	60600	121* [a]	54-118
50-32-8	Benzo(a)pyrene	50000	59600	119	55-121
205-99-2	Benzo(b)fluoranthene	50000	59000	118* [a]	57-116
191-24-2	Benzo(g,h,i)perylene	50000	59700	119	40-124
207-08-9	Benzo(k)fluoranthene	50000	61200	122* [a]	59-116
101-55-3	4-Bromophenyl phenyl ether	50000	58100	116	60-122
85-68-7	Butyl benzyl phthalate	50000	53200	106	51-134
100-51-6	Benzyl Alcohol	50000	32500	65	43-125
91-58-7	2-Chloronaphthalene	50000	57300	115	49-120
106-47-8	4-Chloroaniline	50000	40500	81	10-115
86-74-8	Carbazole	50000	56500	113	52-124
218-01-9	Chrysene	50000	58800	118* [a]	51-115
111-91-1	bis(2-Chloroethoxy)methane	50000	52400	105	36-131
111-44-4	bis(2-Chloroethyl)ether	50000	56500	113	41-131
108-60-1	2,2'-Oxybis(1-chloropropane)	50000	57300	115	22-134
7005-72-3	4-Chlorophenyl phenyl ether	50000	60000	120* [a]	56-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-BS1	6P477596.D	1	12/05/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-50-1	1,2-Dichlorobenzene	50000	56300	113	41-124
122-66-7	1,2-Diphenylhydrazine	50000	55100	110	46-135
541-73-1	1,3-Dichlorobenzene	50000	54200	108	36-126
106-46-7	1,4-Dichlorobenzene	50000	55500	111	40-124
121-14-2	2,4-Dinitrotoluene	50000	51600	103	57-131
606-20-2	2,6-Dinitrotoluene	50000	52700	105	57-132
91-94-1	3,3'-Dichlorobenzidine	100000	88500	89	10-129
53-70-3	Dibenzo(a,h)anthracene	50000	59000	118	48-121
132-64-9	Dibenzofuran	50000	63100	126* [a]	51-119
84-74-2	Di-n-butyl phthalate	50000	55600	111	59-125
117-84-0	Di-n-octyl phthalate	50000	53200	106	47-147
84-66-2	Diethyl phthalate	50000	54600	109	57-116
131-11-3	Dimethyl phthalate	50000	56400	113	56-116
117-81-7	bis(2-Ethylhexyl)phthalate	50000	52300	105	53-133
206-44-0	Fluoranthene	50000	58900	118* [a]	58-117
86-73-7	Fluorene	50000	57500	115* [a]	56-114
118-74-1	Hexachlorobenzene	50000	62200	124	50-128
87-68-3	Hexachlorobutadiene	50000	62800	126	43-129
77-47-4	Hexachlorocyclopentadiene	100000	68000	68	15-140
67-72-1	Hexachloroethane	50000	54700	109	43-123
193-39-5	Indeno(1,2,3-cd)pyrene	50000	57900	116	49-124
78-59-1	Isophorone	50000	53200	106	38-128
90-12-0	1-Methylnaphthalene	50000	53600	107	32-125
91-57-6	2-Methylnaphthalene	50000	60000	120	37-124
88-74-4	2-Nitroaniline	50000	54200	108	45-144
99-09-2	3-Nitroaniline	50000	44600	89	10-134
100-01-6	4-Nitroaniline	50000	47500	95	41-130
91-20-3	Naphthalene	50000	61900	124* [a]	44-116
98-95-3	Nitrobenzene	50000	52100	104	36-132
62-75-9	n-Nitrosodimethylamine	50000	45400	91	17-136
621-64-7	N-Nitroso-di-n-propylamine	50000	53000	106	38-125
86-30-6	N-Nitrosodiphenylamine	50000	56000	112	51-122
85-01-8	Phenanthrene	50000	59500	119	53-119
129-00-0	Pyrene	50000	57900	116	54-124
110-86-1	Pyridine	50000	31000	62	10-125
120-82-1	1,2,4-Trichlorobenzene	50000	59600	119	42-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-BS1	6P477596.D	1	12/05/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	98%	23-115%
4165-62-2	Phenol-d5	103%	27-114%
118-79-6	2,4,6-Tribromophenol	129%	19-152%
4165-60-0	Nitrobenzene-d5	107%	26-134%
321-60-8	2-Fluorobiphenyl	114%	39-124%
1718-51-0	Terphenyl-d14	124%	36-134%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-MS	6P477611.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423
OP17120-MSD	6P477612.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423
JC78619-2	6P477613.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Compound	JC78619-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		50000	100000	200* [a]	50000	105000	210* [a]	5	10-150/50
95-57-8	2-Chlorophenol	ND		50000	55400	111	50000	58200	116	5	10-137/34
59-50-7	4-Chloro-3-methyl phenol	ND		50000	57500	115	50000	64200	128	11	11-147/35
120-83-2	2,4-Dichlorophenol	ND		50000	52000	104	50000	59500	119	13	15-140/34
105-67-9	2,4-Dimethylphenol	ND		50000	58400	117	50000	64500	129	10	10-151/34
51-28-5	2,4-Dinitrophenol	ND		100000	119000	119	100000	114000	114	4	10-148/49
534-52-1	4,6-Dinitro-o-cresol	ND		50000	73300	147	50000	69800	140	5	10-150/48
95-48-7	2-Methylphenol	ND		50000	61600	123	50000	63100	126	2	10-138/33
	3&4-Methylphenol	37800	J	50000	104000	132	50000	112000	148* [a]	7	10-143/33
88-75-5	2-Nitrophenol	ND		50000	52700	105	50000	55600	111	5	10-150/39
100-02-7	4-Nitrophenol	ND		50000	ND	0* [a]	50000	ND	0* [a]	nc	10-163/38
87-86-5	Pentachlorophenol	ND		50000	128000	256* [a]	50000	129000	258* [a]	1	10-148/39
108-95-2	Phenol	ND		50000	56900	114	50000	61900	124* [a]	8	24-114/32
95-95-4	2,4,5-Trichlorophenol	ND		50000	58500	117	50000	61700	123	5	10-146/36
88-06-2	2,4,6-Trichlorophenol	ND		50000	54300	109	50000	62600	125	14	16-148/36
83-32-9	Acenaphthene	ND		50000	58700	117	50000	64000	128	9	21-136/34
208-96-8	Acenaphthylene	ND		50000	59500	119	50000	60700	121	2	10-143/36
62-53-3	Aniline	ND		50000	30100	60	50000	32900	66	9	10-110/50
120-12-7	Anthracene	ND		50000	57100	114	50000	62200	124	9	10-147/39
92-87-5	Benzidine	ND		100000	81800	82	100000	85000	85	4	10-149/50
56-55-3	Benzo(a)anthracene	ND		50000	60600	121	50000	65000	130	7	10-151/41
50-32-8	Benzo(a)pyrene	ND		50000	54600	109	50000	58200	116	6	10-149/40
205-99-2	Benzo(b)fluoranthene	ND		50000	60500	121	50000	64000	128	6	10-147/42
191-24-2	Benzo(g,h,i)perylene	ND		50000	58700	117	50000	60000	120	2	10-150/41
207-08-9	Benzo(k)fluoranthene	ND		50000	51200	102	50000	54900	110	7	12-142/41
101-55-3	4-Bromophenyl phenyl ether	ND		50000	47500	95	50000	57300	115	19	26-138/37
85-68-7	Butyl benzyl phthalate	ND		50000	82700	165* [a]	50000	83300	167* [a]	1	24-143/36
100-51-6	Benzyl Alcohol	ND		50000	43700	87	50000	28500	57	42* [b]	13-143/33
91-58-7	2-Chloronaphthalene	ND		50000	54500	109	50000	55400	111	2	24-130/31
106-47-8	4-Chloroaniline	ND		50000	32200	64	50000	39500	79	20	10-111/52
86-74-8	Carbazole	ND		50000	54400	109	50000	63700	127	16	12-146/39
218-01-9	Chrysene	ND		50000	55800	112	50000	58500	117	5	10-151/41
111-91-1	bis(2-Chloroethoxy)methane	ND		50000	49000	98	50000	60300	121	21	10-144/35
111-44-4	bis(2-Chloroethyl)ether	ND		50000	55300	111	50000	62000	124	11	12-142/35
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		50000	55000	110	50000	62400	125	13	10-137/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		50000	53600	107	50000	56800	114	6	21-136/35

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-MS	6P477611.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423
OP17120-MSD	6P477612.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423
JC78619-2	6P477613.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Compound	JC78619-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-50-1	1,2-Dichlorobenzene	ND		50000	54600	109	50000	58400	117	7	11-134/31
122-66-7	1,2-Diphenylhydrazine	ND		50000	58900	118	50000	63100	126	7	20-144/34
541-73-1	1,3-Dichlorobenzene	ND		50000	52400	105	50000	54600	109	4	10-140/31
106-46-7	1,4-Dichlorobenzene	ND		50000	55000	110	50000	60300	121	9	10-139/31
121-14-2	2,4-Dinitrotoluene	ND		50000	50400	101	50000	51100	102	1	14-148/41
606-20-2	2,6-Dinitrotoluene	ND		50000	274000	548* [a]	50000	316000	632* [a]	14	14-152/40
91-94-1	3,3'-Dichlorobenzidine	ND		100000	101000	101	100000	110000	110	9	10-137/47
53-70-3	Dibenzo(a,h)anthracene	ND		50000	55100	110	50000	58700	117	6	10-152/38
132-64-9	Dibenzofuran	ND		50000	56200	112	50000	62400	125	10	17-141/36
84-74-2	Di-n-butyl phthalate	549000		50000	543000	-12* [c]	50000	589000	80	8	26-137/35
117-84-0	Di-n-octyl phthalate	ND		50000	71700	143	50000	79600	159* [a]	10	23-145/36
84-66-2	Diethyl phthalate	ND		50000	56200	112	50000	57900	116	3	25-133/35
131-11-3	Dimethyl phthalate	ND		50000	54400	109	50000	60500	121	11	21-134/36
117-81-7	bis(2-Ethylhexyl)phthalate	415000		50000	414000	-2* [c]	50000	461000	92	11	26-144/39
206-44-0	Fluoranthene	ND		50000	57400	115	50000	55400	111	4	10-151/44
86-73-7	Fluorene	ND		50000	58700	117	50000	58800	118	0	19-133/36
118-74-1	Hexachlorobenzene	ND		50000	52000	104	50000	58700	117	12	18-142/37
87-68-3	Hexachlorobutadiene	ND		50000	57800	116	50000	56600	113	2	16-137/32
77-47-4	Hexachlorocyclopentadiene	ND		100000	41000	41	100000	40400	40	1	10-150/50
67-72-1	Hexachloroethane	ND		50000	56300	113	50000	56600	113	1	10-131/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50000	56000	112	50000	57200	114	2	10-148/41
78-59-1	Isophorone	ND		50000	55400	111	50000	58400	117	5	11-142/33
90-12-0	1-Methylnaphthalene	ND		50000	52300	105	50000	54800	110	5	10-144/35
91-57-6	2-Methylnaphthalene	ND		50000	62200	124	50000	64100	128	3	10-141/35
88-74-4	2-Nitroaniline	ND		50000	55900	112	50000	60000	120	7	14-156/38
99-09-2	3-Nitroaniline	ND		50000	44300	89	50000	44500	89	0	10-144/45
100-01-6	4-Nitroaniline	ND		50000	38000	76	50000	41900	84	10	10-156/44
91-20-3	Naphthalene	ND		50000	59200	118	50000	60900	122	3	10-136/36
98-95-3	Nitrobenzene	ND		50000	56800	114	50000	57000	114	0	10-142/34
62-75-9	n-Nitrosodimethylamine	ND		50000	40200	80	50000	35100	70	14	10-139/37
621-64-7	N-Nitroso-di-n-propylamine	ND		50000	56200	112	50000	61400	123	9	10-142/31
86-30-6	N-Nitrosodiphenylamine	22000	J	50000	71600	99	50000	81100	118	12	10-156/37
85-01-8	Phenanthrene	ND		50000	59000	118	50000	65400	131	10	11-145/45
129-00-0	Pyrene	ND		50000	66000	132	50000	71100	142	7	11-155/44
110-86-1	Pyridine	ND		50000	27900	56	50000	26600	53	5	10-110/42
120-82-1	1,2,4-Trichlorobenzene	ND		50000	54800	110	50000	55900	112	2	12-135/33

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17120-MS	6P477611.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423
OP17120-MSD	6P477612.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423
JC78619-2	6P477613.D	2	12/06/18	SA	12/05/18	OP17120	E6P2423

The QC reported here applies to the following samples: **Method:** SW846 8270D

JC78619-2

CAS No.	Surrogate Recoveries	MS	MSD	JC78619-2	Limits
367-12-4	2-Fluorophenol	85%	95%	89%	23-115%
4165-62-2	Phenol-d5	98%	110%	89%	27-114%
118-79-6	2,4,6-Tribromophenol	132%	129%	128%	19-152%
4165-60-0	Nitrobenzene-d5	95%	109%	93%	26-134%
321-60-8	2-Fluorobiphenyl	106%	117%	113%	39-124%
1718-51-0	Terphenyl-d14	128%	139%* a	142%* d	36-134%

(a) Outside control limits due to matrix interference.
(b) Outside of in house control limits.
(c) Outside control limits due to high level in sample relative to spike amount.
(d) Outside control limits due to matrix interference, confirmed by MS/MSD.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-DFTPP
Lab File ID: 6P477017.D
Instrument ID: GCMS6P
Injection Date: 11/15/18
Injection Time: 11:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	251277	53.4		Pass
68	Less than 2.0% of mass 69	4507	0.96	(1.96) [a]	Pass
69	Mass 69 relative abundance	230085	48.9		Pass
70	Less than 2.0% of mass 69	195	0.04	(0.08) [a]	Pass
127	40.0 - 60.0% of mass 198	238656	50.7		Pass
197	Less than 1.0% of mass 198	2802	0.60		Pass
198	Base peak, 100% relative abundance	470784	100.0		Pass
199	5.0 - 9.0% of mass 198	29149	6.19		Pass
275	10.0 - 30.0% of mass 198	110954	23.6		Pass
365	1.0 - 100.0% of mass 198	15513	3.30		Pass
441	Present, but less than mass 443	57982	12.3	(74.7) [b]	Pass
442	40.0 - 100.0% of mass 198	379498	80.6		Pass
443	17.0 - 23.0% of mass 442	77605	16.5	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P2400-IC2400	6P477018.D	11/15/18	11:45	00:18	Initial cal 100
E6P2400-IC2400	6P477019.D	11/15/18	12:09	00:42	Initial cal 2
E6P2400-IC2400	6P477020.D	11/15/18	12:32	01:05	Initial cal 80
E6P2400-IC2400	6P477021.D	11/15/18	12:56	01:29	Initial cal 1
E6P2400-ICC2400	6P477022.D	11/15/18	13:20	01:53	Initial cal 50
E6P2400-IC2400	6P477023.D	11/15/18	13:44	02:17	Initial cal 5
E6P2400-IC2400	6P477024.D	11/15/18	14:08	02:41	Initial cal 25
E6P2400-IC2400	6P477025.D	11/15/18	14:32	03:05	Initial cal 10
E6P2400-ICV2400	6P477026.D	11/15/18	14:56	03:29	Initial cal verification 50
E6P2400-ICV2400	6P477027.D	11/15/18	15:23	03:56	Initial cal verification 50
E6P2400-ICV2400	6P477029.D	11/15/18	16:11	04:44	Initial cal verification 50
E6P2400-ICV2400	6P477030.D	11/15/18	16:37	05:10	Initial cal verification 50
E6P2400-ICV2400	6P477031.D	11/15/18	17:04	05:37	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2401-DFTPP
Lab File ID: 6P477033.D
Instrument ID: GCMS6P
Injection Date: 11/15/18
Injection Time: 17:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	205093	48.1		Pass
68	Less than 2.0% of mass 69	2988	0.70	(1.55) [a]	Pass
69	Mass 69 relative abundance	193080	45.3		Pass
70	Less than 2.0% of mass 69	1082	0.25	(0.56) [a]	Pass
127	40.0 - 60.0% of mass 198	208341	48.9		Pass
197	Less than 1.0% of mass 198	2992	0.70		Pass
198	Base peak, 100% relative abundance	426005	100.0		Pass
199	5.0 - 9.0% of mass 198	28899	6.78		Pass
275	10.0 - 30.0% of mass 198	102522	24.1		Pass
365	1.0 - 100.0% of mass 198	15327	3.60		Pass
441	Present, but less than mass 443	60488	14.2	(81.9) [b]	Pass
442	40.0 - 100.0% of mass 198	376320	88.3		Pass
443	17.0 - 23.0% of mass 442	73880	17.3	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P2401-IC2401	6P477034.D	11/15/18	18:01	00:13	Initial cal 50
E6P2401-IC2401	6P477035.D	11/15/18	18:24	00:36	Initial cal 1
E6P2401-IC2401	6P477036.D	11/15/18	18:48	01:00	Initial cal 2
E6P2401-IC2401	6P477037.D	11/15/18	19:12	01:24	Initial cal 5
E6P2401-IC2401	6P477038.D	11/15/18	19:36	01:48	Initial cal 10
E6P2401-IC2401	6P477039.D	11/15/18	20:00	02:12	Initial cal 100
E6P2401-IC2401	6P477040.D	11/15/18	20:24	02:36	Initial cal 80
E6P2401-ICC2401	6P477041.D	11/15/18	20:48	03:00	Initial cal 25
E6P2401-ICV2401	6P477043.D	11/15/18	21:36	03:48	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2402-DFTPP
Lab File ID: 6P477045.D
Instrument ID: GCMS6P
Injection Date: 11/16/18
Injection Time: 09:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	190051	51.3		Pass
68	Less than 2.0% of mass 69	2613	0.71	(1.47) [a]	Pass
69	Mass 69 relative abundance	177816	48.0		Pass
70	Less than 2.0% of mass 69	1061	0.29	(0.60) [a]	Pass
127	40.0 - 60.0% of mass 198	191200	51.7		Pass
197	Less than 1.0% of mass 198	601	0.16		Pass
198	Base peak, 100% relative abundance	370154	100.0		Pass
199	5.0 - 9.0% of mass 198	24123	6.52		Pass
275	10.0 - 30.0% of mass 198	87882	23.7		Pass
365	1.0 - 100.0% of mass 198	14441	3.90		Pass
441	Present, but less than mass 443	47250	12.8	(75.8) [b]	Pass
442	40.0 - 100.0% of mass 198	308085	83.2		Pass
443	17.0 - 23.0% of mass 442	62304	16.8	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P2402-ICV2400	6P477047.D	11/16/18	10:10	00:36	Initial cal verification 50
E6P2402-ICV2401	6P477047A.D	11/16/18	10:10	00:36	Initial cal verification 50
E6P2402-ICV2401	6P477048.D	11/16/18	10:34	01:00	Initial cal verification 50
E6P2402-ICV2401	6P477049.D	11/16/18	10:58	01:24	Initial cal verification 50
E6P2402-ICV2400	6P477051.D	11/16/18	11:53	02:19	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample:	E6P2416-DFTPP	**Injection Date:**	11/29/18
Lab File ID:	6P477389.D	**Injection Time:**	22:02
Instrument ID:	GCMS6P		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	211729	48.7		Pass
68	Less than 2.0% of mass 69	2737	0.63	(1.34) [a]	Pass
69	Mass 69 relative abundance	204845	47.1		Pass
70	Less than 2.0% of mass 69	1589	0.37	(0.78) [a]	Pass
127	40.0 - 60.0% of mass 198	222664	51.2		Pass
197	Less than 1.0% of mass 198	1597	0.37		Pass
198	Base peak, 100% relative abundance	434986	100.0		Pass
199	5.0 - 9.0% of mass 198	27454	6.31		Pass
275	10.0 - 30.0% of mass 198	99730	22.9		Pass
365	1.0 - 100.0% of mass 198	12854	2.96		Pass
441	Present, but less than mass 443	49710	11.4	(80.4) [b]	Pass
442	40.0 - 100.0% of mass 198	313349	72.0		Pass
443	17.0 - 23.0% of mass 442	61832	14.2	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P2416-CC2400	6P477390.D	11/29/18	22:28	00:26	Continuing cal 25
E6P2416-CC2401	6P477391.D	11/29/18	22:51	00:49	Continuing cal 25
E6P2416-ICV2401	6P477393.D	11/30/18	01:07	03:05	Initial cal verification 50
OP16861-MB1	6P477394.D	11/30/18	01:43	03:41	Method Blank
OP16861-BS1	6P477395.D	11/30/18	02:07	04:05	Blank Spike
ZZZZZZ	6P477396.D	11/30/18	02:30	04:28	(unrelated sample)
ZZZZZZ	6P477397.D	11/30/18	02:54	04:52	(unrelated sample)
ZZZZZZ	6P477398.D	11/30/18	03:18	05:16	(unrelated sample)
ZZZZZZ	6P477399.D	11/30/18	03:42	05:40	(unrelated sample)
ZZZZZZ	6P477400.D	11/30/18	04:06	06:04	(unrelated sample)
ZZZZZZ	6P477401.D	11/30/18	04:30	06:28	(unrelated sample)
ZZZZZZ	6P477402.D	11/30/18	04:54	06:52	(unrelated sample)
ZZZZZZ	6P477403.D	11/30/18	05:18	07:16	(unrelated sample)
ZZZZZZ	6P477404.D	11/30/18	05:42	07:40	(unrelated sample)
ZZZZZZ	6P477405.D	11/30/18	06:06	08:04	(unrelated sample)
OP16861-MS	6P477406.D	11/30/18	06:29	08:27	Matrix Spike
OP16861-MSD	6P477407.D	11/30/18	06:53	08:51	Matrix Spike Duplicate
JC78177-1	6P477408.D	11/30/18	07:17	09:15	(used for QC only; not part of job JC78619A)
ZZZZZZ	6P477409.D	11/30/18	07:41	09:39	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample:	E6P2416-DFTPP	**Injection Date:**	11/29/18
Lab File ID:	6P477389.D	**Injection Time:**	22:02
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P477410.D	11/30/18	08:05	10:03	(unrelated sample)
ZZZZZZ	6P477411.D	11/30/18	08:29	10:27	(unrelated sample)
ZZZZZZ	6P477412.D	11/30/18	08:53	10:51	(unrelated sample)
ZZZZZZ	6P477413.D	11/30/18	09:17	11:15	(unrelated sample)
ZZZZZZ	6P477414.D	11/30/18	09:41	11:39	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2423-DFTPP
Lab File ID: 6P477589.D
Instrument ID: GCMS6P
Injection Date: 12/05/18
Injection Time: 19:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	311015	49.9		Pass
68	Less than 2.0% of mass 69	4551	0.73	(1.53) [a]	Pass
69	Mass 69 relative abundance	296607	47.6		Pass
70	Less than 2.0% of mass 69	1494	0.24	(0.50) [a]	Pass
127	40.0 - 60.0% of mass 198	315904	50.7		Pass
197	Less than 1.0% of mass 198	3772	0.61		Pass
198	Base peak, 100% relative abundance	623338	100.0		Pass
199	5.0 - 9.0% of mass 198	43173	6.93		Pass
275	10.0 - 30.0% of mass 198	146159	23.4		Pass
365	1.0 - 100.0% of mass 198	19012	3.05		Pass
441	Present, but less than mass 443	76550	12.3	(79.0) [b]	Pass
442	40.0 - 100.0% of mass 198	486208	78.0		Pass
443	17.0 - 23.0% of mass 442	96849	15.5	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P2423-CC2400	6P477590.D	12/05/18	19:30	00:13	Continuing cal 50
E6P2423-CC2401	6P477591.D	12/05/18	19:54	00:37	Continuing cal 50
OP17006-MB1	6P477592.D	12/05/18	20:37	01:20	Method Blank
OP17006-BS1	6P477593A.D	12/05/18	21:24	02:07	Blank Spike
OP17006-BSD	6P477594.D	12/05/18	21:48	02:31	Blank Spike Duplicate
OP17120-MB1	6P477595.D	12/05/18	22:12	02:55	Method Blank
OP17120-BS1	6P477596.D	12/05/18	22:36	03:19	Blank Spike
ZZZZZZ	6P477598.D	12/05/18	23:00	03:43	(unrelated sample)
ZZZZZZ	6P477599.D	12/05/18	23:23	04:06	(unrelated sample)
ZZZZZZ	6P477600.D	12/05/18	23:47	04:30	(unrelated sample)
ZZZZZZ	6P477601.D	12/06/18	00:11	04:54	(unrelated sample)
ZZZZZZ	6P477602.D	12/06/18	00:35	05:18	(unrelated sample)
ZZZZZZ	6P477603.D	12/06/18	01:23	06:06	(unrelated sample)
ZZZZZZ	6P477604.D	12/06/18	01:46	06:29	(unrelated sample)
ZZZZZZ	6P477605.D	12/06/18	02:10	06:53	(unrelated sample)
ZZZZZZ	6P477606.D	12/06/18	02:34	07:17	(unrelated sample)
ZZZZZZ	6P477607.D	12/06/18	02:58	07:41	(unrelated sample)
ZZZZZZ	6P477608.D	12/06/18	03:22	08:05	(unrelated sample)
ZZZZZZ	6P477609.D	12/06/18	03:46	08:29	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample:	E6P2423-DFTPP	**Injection Date:**	12/05/18
Lab File ID:	6P477589.D	**Injection Time:**	19:17
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P477610.D	12/06/18	04:10	08:53	(unrelated sample)
OP17120-MS	6P477611.D	12/06/18	04:35	09:18	Matrix Spike
OP17120-MSD	6P477612.D	12/06/18	04:59	09:42	Matrix Spike Duplicate
JC78619-2	6P477613.D	12/06/18	05:23	10:06	SILO PISTON OIL

Internal Standard Area Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Check Std:	E6P2423-CC2400	**Injection Date:**	12/05/18
Lab File ID:	6P477590.D	**Injection Time:**	19:30
Instrument ID:	GCMS6P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	796475	4.37	3240393	5.37	1723761	7.07	3254282	8.75	2954922	11.92	2726414	13.51
Upper Limit [a]	1592950	4.87	6480786	5.87	3447522	7.57	6508564	9.25	5909844	12.42	5452828	14.01
Lower Limit [b]	398238	3.87	1620197	4.87	861881	6.57	1627141	8.25	1477461	11.42	1363207	13.01
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
OP17006-MB1	801413	4.37	3383108	5.36	1788190	7.07	3431778	8.75	3429683	11.91	3479249	13.51
OP17006-BS1	679635	4.37	2804327	5.36	1454133	7.07	2769931	8.75	2503500	11.91	2372256	13.51
OP17006-BSD	685252	4.37	2763323	5.36	1460553	7.07	2786256	8.75	2533284	11.91	2535145	13.51
OP17120-MB1	649077	4.37	2614985	5.36	1387239	7.07	2650333	8.75	2559043	11.91	2707954	13.51
OP17120-BS1	561711	4.37	2230319	5.36	1164556	7.06	2174561	8.74	2076269	11.91	2171332	13.51
ZZZZZZ	695844	4.37	2896692	5.36	1542069	7.06	2904085	8.74	2828157	11.91	2883335	13.51
ZZZZZZ	778606	4.37	3247599	5.36	1699746	7.06	3245247	8.74	3074033	11.91	3184243	13.51
ZZZZZZ	763211	4.37	3085661	5.36	1639322	7.07	3085449	8.74	2925900	11.91	3055367	13.51
ZZZZZZ	774969	4.37	3219694	5.36	1676986	7.06	3187376	8.74	3031723	11.91	3223293	13.51
ZZZZZZ	677029	4.37	2796734	5.36	1468354	7.06	2818762	8.74	2657617	11.91	2840672	13.51
ZZZZZZ	676257	4.37	2850359	5.36	1508986	7.06	2847457	8.74	2694468	11.91	2847043	13.51
ZZZZZZ	622481	4.37	2649571	5.36	1379062	7.06	2646739	8.74	2484668	11.91	2608188	13.50
ZZZZZZ	647817	4.37	2733416	5.36	1408564	7.06	2661902	8.74	2483360	11.91	2536364	13.50
ZZZZZZ	780733	4.37	3188810	5.36	1661863	7.06	3187346	8.74	2945424	11.91	3036767	13.51
ZZZZZZ	687842	4.37	2752269	5.36	1424191	7.06	2652530	8.74	2170835	11.91	2244789	13.51
ZZZZZZ	705748	4.37	2960339	5.36	1560847	7.06	2976669	8.74	2720515	11.91	2633440	13.51
ZZZZZZ	705719	4.37	2941708	5.36	1543766	7.06	2912868	8.74	2705892	11.91	2730326	13.51
ZZZZZZ	669840	4.37	2818944	5.36	1469300	7.06	2842557	8.74	2599647	11.91	2584153	13.51
OP17120-MS	692225	4.37	2840494	5.36	1386656	7.07	2421934	8.74	1819827	11.92	1857819	13.53
OP17120-MSD	590402	4.37	2470777	5.36	1217735	7.07	2113492	8.74	1542043	11.92	1600472	13.52
JC78619-2	712680	4.37	2932253	5.36	1420874	7.07	2492717	8.75	1852962	11.92	1971639	13.53

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Method: SW846 8270D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC78619-2	6P477613.D	89	89	128	93	113	142* [a]
OP17120-BS1	6P477596.D	98	103	129	107	114	124
OP17120-MB1	6P477595.D	96	95	121	107	117	126
OP17120-MS	6P477611.D	85	98	132	95	106	128
OP17120-MSD	6P477612.D	95	110	129	109	117	139* [b]

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	23-115%
S2 = Phenol-d5	27-114%
S3 = 2,4,6-Tribromophenol	19-152%
S4 = Nitrobenzene-d5	26-134%
S5 = 2-Fluorobiphenyl	39-124%
S6 = Terphenyl-d14	36-134%

(a) Outside control limits due to matrix interference, confirmed by MS/MSD.
(b) Outside control limits due to matrix interference.

Initial Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICC2400
Lab FileID: 6P477022.D

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

Calibration Files
2 =6p477019.D 5 =6p477023.D 25 =6p477024.D 80 =6p477020.D
100 =6p477018.D 50 =6p477022.D 1 =6p477021.D 10 =6p477025.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.658	0.697	0.674	0.665	0.625	0.683	0.656	0.652	0.664	3.32
3) Pyridine	1.795	1.880	1.784	1.916	1.784	1.833	1.765	1.865	1.828	2.98
4) N-Nitrosodim	1.045	1.106	1.085	1.086	1.027	1.119	1.073	1.057	1.075	2.87
5) 2-Fluorophen	1.551	1.550	1.551	1.563	1.476	1.572	1.535	1.505	1.538	2.07
6) Indene	2.838	2.853	2.714	2.505	2.341	2.607	2.654	2.624	2.642	6.39
7) Cumene	4.383	4.471	4.220	3.845	3.085	4.054	4.397	4.207	4.083	11.06
8) Phenol-d5	2.146	2.083	2.073	1.969	1.797	2.024	2.103	2.030	2.028	5.33
9) Phenol	2.421	2.330	2.251	2.091	1.968	2.220	2.478	2.302	2.258	7.41
10) Aniline	2.939	2.874	2.605	2.259	2.060	2.403	2.973	2.729	2.605	12.91
11) bis(2-Chloro	1.852	1.847	1.765	1.693	1.586	1.742	1.835	1.718	1.755	5.21
12) 2-Chlorophen	1.629	1.544	1.562	1.519	1.413	1.554	1.550	1.574	1.543	3.96
13) Decane	2.619	2.604	2.440	2.204	2.000	2.343	2.481	2.458	2.394	8.68
14) 1,3-Dichloro	1.829	1.789	1.710	1.580	1.490	1.637	1.800	1.685	1.690	6.94
15) 1,4-Dichloro	1.998	1.801	1.688	1.565	1.447	1.665	1.808	1.717	1.711	9.72
16) Benzyl alcoh	0.990	1.064	1.026	1.009	0.945	1.035	1.027	1.004	1.012	3.47
17) 1,2-Dichloro	1.764	1.677	1.628	1.500	1.371	1.562	1.598	1.629	1.591	7.43
18) Acetophenone	2.548	2.511	2.427	2.192	2.061	2.321	2.669	2.458	2.398	8.26
19) 2-Methylphen	1.584	1.619	1.515	1.401	1.317	1.462	1.512	1.530	1.493	6.54
20) 2,2'-oxybis(	0.565	0.560	0.513	0.478	0.448	0.486	0.568	0.499	0.515	8.76
21) 3&4-Methylph	1.667	1.636	1.606	1.470	1.382	1.551	1.680	1.597	1.574	6.52
22) n-Nitroso-di	1.462	1.455	1.374	1.204	1.121	1.311	1.414	1.424	1.346	9.26
23) Hexachloroet	0.601	0.610	0.571	0.542	0.507	0.561	0.543	0.554	0.561	5.95
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.490	0.496	0.500	0.460	0.441	0.476	0.512	0.491	0.483	4.82
26) Nitrobenzene	0.502	0.515	0.510	0.466	0.439	0.483	0.530	0.502	0.493	5.94
27) Quinoline	0.791	0.785	0.772	0.740	0.716	0.749	0.784	0.759	0.762	3.44
28) Isophorone	0.869	0.858	0.844	0.777	0.745	0.802	0.918	0.852	0.833	6.67
29) 2-Nitropheno	0.197	0.207	0.208	0.190	0.180	0.197	0.211	0.197	0.198	5.14
30) 2,4-Dimethyl	0.384	0.366	0.382	0.363	0.348	0.369	0.368	0.381	0.370	3.25
31) Benzoic acid		0.130	0.246	0.301	0.303	0.279		0.190	0.242	28.47
----- Quadratic regression -----								Coefficient =		0.9997
Response Ratio = -0.02374 + 0.28549 *A + 0.01139 *A^2										
32) bis(2-Chloro	0.534	0.529	0.526	0.479	0.452	0.501	0.555	0.519	0.512	6.49
33) 2,4-Dichloro	0.299	0.309	0.303	0.285	0.276	0.292	0.312	0.305	0.297	4.14
34) 2,6-Dichloro	0.319	0.300	0.294	0.270	0.257	0.281	0.314	0.305	0.293	7.34
35) 1,3,5-Trichl	0.376	0.350	0.339	0.305	0.286	0.318	0.368	0.330	0.334	9.22
36) 1,2,4-Trichl	0.353	0.336	0.321	0.304	0.292	0.314	0.350	0.332	0.325	6.60
37) 1,2,3-Trichl	0.356	0.336	0.320	0.294	0.276	0.303	0.343	0.318	0.318	8.36
38) Naphthalene	1.212	1.163	1.112	0.975	0.779	1.054	1.220	1.127	1.080	13.52
39) 4-Chloroanil	0.490	0.503	0.475	0.419	0.394	0.447	0.504	0.472	0.463	8.64
40) 2,3-Dichloro	0.383	0.375	0.377	0.343	0.327	0.357	0.383	0.378	0.365	5.72
41) Caprolactam	0.239	0.228	0.242	0.239	0.228	0.240	0.218	0.231	0.233	3.55
42) Hexachlorobu	0.191	0.189	0.180	0.163	0.156	0.170	0.219	0.183	0.181	10.71

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43) 4-Chloro-3-m 0.348 0.352 0.363 0.349 0.331 0.352 0.346 0.350 0.349   2.52
44) 2-Methylnaph 0.621 0.633 0.612 0.540 0.497 0.568 0.630 0.604 0.588   8.33
45) 1-Methylnaph 0.666 0.685 0.665 0.595 0.551 0.624 0.731 0.661 0.647   8.66
46) Dimethylnaph 0.700 0.706 0.686 0.614 0.573 0.638 0.713 0.686 0.664   7.63

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.285 0.328 0.350 0.326 0.312 0.344 0.287 0.340 0.322   7.77
49) 2,4,6-Trichl 0.361 0.352 0.372 0.348 0.337 0.351 0.331 0.372 0.353   4.26
50) 2,4,5-Trichl 0.363 0.370 0.400 0.394 0.387 0.405 0.355 0.381 0.382   4.73
51) 2-Fluorobiph 1.611 1.575 1.509 1.362 1.267 1.438 1.662 1.538 1.495   8.86
52) 2-Chloronaph 1.407 1.343 1.304 1.177 1.090 1.222 1.437 1.293 1.284   9.10
53) Biphenyl     1.932 1.874 1.782 1.590 1.416 1.697 2.100 1.824 1.777  11.88
54) 2-Nitroanili 0.453 0.541 0.556 0.532 0.501 0.544 0.550 0.543 0.528   6.52
55) Dimethylphth 1.554 1.570 1.527 1.413 1.339 1.475 1.595 1.529 1.500   5.77
56) Acenaphthyle 2.047 2.128 2.075 1.879 1.652 1.996 2.068 2.087 1.992   7.87
57) 2,6-Dinitrot 0.304 0.325 0.347 0.326 0.309 0.335 0.311 0.345 0.325   5.04
58) 3-Nitroanili 0.394 0.424 0.438 0.409 0.393 0.427 0.378 0.426 0.411   5.11
59) Acenaphthene 1.452 1.444 1.435 1.287 1.173 1.362 1.533 1.457 1.393   8.24
60) 2,4-Dinitrop 0.040 0.073 0.136 0.150 0.159 0.148       0.107 0.116  38.91
         ----- Quadratic regression -----               Coefficient =  0.9996
              Response Ratio = -0.01383 + 0.14037 *A + 0.00402 *A^2

61) 4-Nitropheno 0.170 0.158 0.204 0.214 0.210 0.208       0.184 0.192  11.42
62) Dibenzofuran 1.919 1.926 1.804 1.550 1.429 1.666 1.887 1.851 1.754  10.61
63) 2,4-Dinitrot 0.407 0.447 0.464 0.410 0.383 0.444 0.460 0.460 0.434   6.97
64) 2,3,4,6-Tetr 0.239 0.267 0.311 0.321 0.317 0.319 0.234 0.294 0.288  12.66
65) Diethylphtha 1.516 1.530 1.526 1.354 1.252 1.424 1.438 1.533 1.447   7.03
66) Fluorene     1.534 1.514 1.466 1.299 1.182 1.386 1.598 1.497 1.434   9.58
67) 4-Chlorophen 0.757 0.689 0.689 0.593 0.555 0.644 0.809 0.679 0.677  12.15
68) 4-Nitroanili 0.423 0.436 0.456 0.407 0.381 0.419 0.382 0.440 0.418   6.43

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.048 0.069 0.114 0.128 0.131 0.119       0.095 0.101  31.24
         ----- Quadratic regression -----               Coefficient =  0.9999
              Response Ratio = -0.00467 + 0.11490 *A + 0.00722 *A^2

71) n-Nitrosodip 0.595 0.576 0.580 0.542 0.505 0.562 0.568 0.578 0.563   4.98
72) 1,2-Diphenyl 0.968 1.052 1.034 0.951 0.862 0.993 1.003 1.011 0.984   6.02
73) 2,4,6-Tribro 0.087 0.092 0.107 0.113 0.110 0.111 0.087 0.099 0.101  11.00
74) 4-Bromopheny 0.216 0.216 0.219 0.204 0.189 0.209 0.229 0.216 0.212   5.60
75) Hexachlorobe 0.256 0.247 0.235 0.225 0.212 0.228 0.262 0.230 0.237   7.14
76) Pentachlorop 0.064 0.079 0.120 0.135 0.133 0.128       0.095 0.108  26.21
         ----- Quadratic regression -----               Coefficient =  0.9994
              Response Ratio = -0.01326 + 0.13139 *A + 0.00111 *A^2

77) Phenanthrene 1.195 1.192 1.143 1.032 0.935 1.084 1.209 1.166 1.120   8.57
78) Anthracene   1.180 1.214 1.175 1.070 0.966 1.115 1.119 1.179 1.127   7.08
79) Carbazole    1.135 1.151 1.129 1.033 0.945 1.072 1.063 1.149 1.085   6.59
80) Di-n-butylph 1.270 1.316 1.379 1.261 1.042 1.317 1.189 1.365 1.268   8.63
81) Fluoranthene 1.212 1.219 1.212 1.142 1.029 1.181 1.212 1.222 1.179   5.62
82) Octadecane   0.702 0.730 0.748 0.679 0.621 0.718 0.665 0.745 0.701   6.25

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.320 1.429 1.410 1.321 1.206 1.351 1.342 1.400 1.347   5.24
85) Terphenyl-d1 0.833 0.868 0.864 0.832 0.779 0.847 0.822 0.847 0.837   3.34
86) Butylbenzylp 0.549 0.565 0.658 0.651 0.609 0.661 0.452 0.606 0.594  11.95
87) Benzo[a]anth 1.250 1.158 1.189 1.113 1.026 1.126 1.222 1.153 1.155   6.04
88) 3,3'-Dichlor 0.445 0.377 0.415 0.418 0.390 0.419 0.335 0.363 0.395   9.09
89) Chrysene     1.285 1.263 1.226 1.164 1.059 1.174 1.303 1.221 1.212   6.51
90) bis(2-Ethylh 0.931 0.765 0.873 0.879 0.814 0.882 0.698 0.762 0.826   9.57
```

Initial Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICC2400
Lab FileID: 6P477022.D

```
 91) I   Perylene-d12          ----------------ISTD---------------------
 92) Di-n-octylph 1.227 1.038 1.401 1.390 1.171 1.440       1.091 1.251  12.86
 93) Benzo[b]fluo 1.152 0.985 1.160 1.083 1.041 1.067 0.901 1.050 1.055   8.01
 94) Benzo[k]fluo 1.191 1.197 1.137 0.969 0.842 1.100 1.282 1.153 1.109  12.65
 95) Benzo[a]pyre 1.025 0.924 1.054 0.980 0.909 1.029 0.879 0.927 0.966   6.71
 96) Indeno[1,2,3 1.268 1.121 1.322 1.240 1.170 1.286 0.981 1.150 1.192   9.29
 97) Dibenz(a,h)a 0.904 0.748 0.948 0.941 0.898 0.961       0.767 0.881   9.93
 98) Dibenz[a,h]a 1.043 0.901 1.085 1.052 0.995 1.073 0.813 0.941 0.988   9.69
 99) 7,12-Dimethy 0.467 0.437 0.499 0.479 0.454 0.479 0.363 0.445 0.453   9.14
100) Benzo[g,h,i] 1.033 0.949 1.058 1.032 0.965 1.041 0.888 0.965 0.991   5.91

 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M6P2400.M         Fri Nov 16 13:40:28 2018   ACLIMS
```

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICV2400
Lab FileID: 6P477026.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2400\6p477026.D Vial: 10
Acq On : 15 Nov 2018 2:56 pm Operator: angelar
Sample : icv2400-50 Inst : MS6P
Misc : op16488,e6p2400,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
24 I	Naphthalene-d8	1.000	1.000	0.0	147	0.00	5.54
		True	Calc.	% Drift			
31 t	Benzoic acid	50.000	41.096	17.8	119	0.05	5.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 13:39:57 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICV2400
Lab FileID: 6P477027.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2400\6p477027.D Vial: 11
Acq On : 15 Nov 2018 3:23 pm Operator: angelar
Sample : icv2400-50 Inst : MS6P
Misc : op16488,e6p2400,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00	4.53
4	t	N-Nitrosodimethylamine	1.075	0.938	12.7	102	0.01	2.33
11	t	bis(2-Chloroethyl)ether	1.755	1.686	3.9	118	0.00	4.33
14	t	1,3-Dichlorobenzene	1.690	1.585	6.2	118	0.00	4.48
15	t	1,4-Dichlorobenzene	1.711	1.599	6.5	117	0.00	4.54
17	t	1,2-Dichlorobenzene	1.591	1.516	4.7	118	0.00	4.65
20	t	2,2'-oxybis(1-Chloropropa	0.515	0.513	0.4	128	0.00	4.73
22	t	n-Nitroso-di-n-propylamin	1.346	1.281	4.8	119	0.00	4.83
23	t	Hexachloroethane	0.561	0.544	3.0	118	0.00	4.91
24	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00	5.54
26	t	Nitrobenzene	0.493	0.434	12.0	104	0.00	4.96
28	t	Isophorone	0.833	0.762	8.5	110	0.00	5.15
32	t	bis(2-Chloroethoxy)methan	0.512	0.462	9.8	107	0.00	5.33
36	t	1,2,4-Trichlorobenzene	0.325	0.314	3.4	116	0.00	5.49
38	t	Naphthalene	1.080	1.030	4.6	113	0.00	5.56
42	t	Hexachlorobutadiene	0.181	0.181	0.0	124	0.00	5.68
47	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00	7.28
48	t	Hexachlorocyclopentadiene	0.322	0.289	10.2	96	0.00	6.37
52	t	2-Chloronaphthalene	1.284	1.259	1.9	114	0.00	6.69
55	t	Dimethylphthalate	1.500	1.452	3.2	109	0.00	7.00
56	t	Acenaphthylene	1.992	1.926	3.3	107	0.00	7.12
57	t	2,6-Dinitrotoluene	0.325	0.273	16.0	91	0.00	7.06
59	t	Acenaphthene	1.393	1.332	4.4	109	0.00	7.31
63	t	2,4-Dinitrotoluene	0.434	0.358	17.5	90	0.00	7.49
65	t	Diethylphthalate	1.447	1.369	5.4	107	0.00	7.78
66	t	Fluorene	1.434	1.402	2.2	112	0.00	7.89
67	t	4-Chlorophenyl-phenylethe	0.677	0.637	5.9	110	0.00	7.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00	8.97
71	t	n-Nitrosodiphenylamine	0.563	0.512	9.1	102	0.00	8.03
72	t	1,2-Diphenylhydrazine	0.984	0.939	4.6	106	0.00	8.08
74	t	4-Bromophenyl-phenylether	0.212	0.209	1.4	112	0.00	8.46
75	t	Hexachlorobenzene	0.237	0.234	1.3	115	0.00	8.52
77	t	Phenanthrene	1.120	1.076	3.9	111	0.00	8.99
78	t	Anthracene	1.127	1.082	4.0	108	0.00	9.05
80	t	Di-n-butylphthalate	1.268	1.233	2.8	105	0.00	9.72
81	t	Fluoranthene	1.179	1.123	4.7	106	0.00	10.41
83	I	Chrysene-d12	1.000	1.000	0.0	104	0.00	12.14
84	t	Pyrene	1.347	1.372	-1.9	105	0.00	10.68

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICV2400
Lab FileID: 6P477027.D

86	t	Butylbenzylphthalate	0.594	0.645	-8.6	101	0.00	11.52
87	t	Benzo[a]anthracene	1.155	1.157	-0.2	106	0.00	12.13
89	t	Chrysene	1.212	1.176	3.0	104	0.00	12.17
90	t	bis(2-Ethylhexyl)phthalat	0.826	0.864	-4.6	101	0.00	12.24
91	I	Perylene-d12	1.000	1.000	0.0	103	0.00	13.74
92	t	Di-n-octylphthalate	1.251	1.430	-14.3	102	0.00	12.99
93	t	Benzo[b]fluoranthene	1.055	1.114	-5.6	107	0.00	13.35
94	t	Benzo[k]fluoranthene	1.109	1.039	6.3	97	0.00	13.38
95	t	Benzo[a]pyrene	0.966	1.008	-4.3	101	0.00	13.68
96	t	Indeno[1,2,3-cd]pyrene	1.192	1.253	-5.1	100	0.00	14.84
98	t	Dibenz[a,h]anthracene	0.988	1.034	-4.7	99	0.00	14.87
100	t	Benzo[g,h,i]perylene	0.991	1.048	-5.8	104	0.00	15.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0

6p477034a.D M6P2400.M Fri Nov 16 13:39:59 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICV2400
Lab FileID: 6P477029.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2400\6p477029.D Vial: 13
Acq On : 15 Nov 2018 4:11 pm Operator: angelar
Sample : icv2400-50 Inst : MS6P
Misc : op16488,e6p2400,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00	4.53
2 t	1,4-Dioxane	0.664	0.662	0.3	118	0.02	2.03
6 t	Indene	2.642	2.743	-3.8	128	0.00	4.72
7 t	Cumene	4.083	3.788	7.2	114	0.00	3.93
13 t	Decane	2.394	2.170	9.4	113	0.00	4.41
18 t	Acetophenone	2.398	2.210	7.8	116	0.00	4.83
24 I	Naphthalene-d8	1.000	1.000	0.0	117	0.00	5.54
27 t	Quinoline	0.762	0.713	6.4	111	0.00	5.86
40 t	2,3-Dichloroaniline	0.365	0.312	14.5	102	0.00	6.48
41 t	Caprolactam	0.233	0.214	8.2	104	0.00	5.92
45 t	1-Methylnaphthalene	0.647	0.579	10.5	108	0.00	6.30
46 t	Dimethylnaphthalene	0.664	0.626	5.7	114	0.00	6.83
47 I	Acenaphthene-d10	1.000	1.000	0.0	114	0.00	7.28
53 t	Biphenyl	1.777	1.653	7.0	111	0.00	6.67
69 I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	8.97
82 t	Octadecane	0.701	0.693	1.1	109	0.00	8.91
91 I	Perylene-d12	1.000	1.000	0.0	108	0.00	13.74
99 t	7,12-Dimethylbenz(a)anthr	0.453	0.458	-1.1	103	0.00	13.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 13:40:01 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICV2400
Lab FileID: 6P477030.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2400\6p477030.D Vial: 14
Acq On : 15 Nov 2018 4:37 pm Operator: angelar
Sample : icv2400-50 Inst : MS6P
Misc : op16488,e6p2400,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	116	0.00	12.14
88 t	3,3'-Dichlorobenzidine	0.395	0.462	-17.0	128	0.00	12.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 13:40:03 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2400-ICV2400
Lab FileID: 6P477031.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2400\6p477031.D Vial: 15
Acq On : 15 Nov 2018 5:04 pm Operator: angelar
Sample : icv2400-50 Inst : MS6P
Misc : op16488,e6p2400,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	138	0.00	4.53
5	S	2-Fluorophenol	1.538	1.495	2.8	132	0.00	3.55
8	S	Phenol-d5	2.028	1.968	3.0	135	0.00	4.27
24	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.54
25	S	Nitrobenzene-d5	0.483	0.454	6.0	125	0.00	4.95
47	I	Acenaphthene-d10	1.000	1.000	0.0	143	0.00	7.28
51	S	2-Fluorobiphenyl	1.495	1.331	11.0	133	0.00	6.57
69	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	8.97
73	S	2,4,6-Tribromophenol	0.101	0.106	-5.0	122	0.00	8.16
83	I	Chrysene-d12	1.000	1.000	0.0	129	0.00	12.14
85	S	Terphenyl-d14	0.837	0.904	-8.0	137	0.00	10.90

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 13:40:05 2018 ACLIMS

Initial Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2401-ICC2401
Lab FileID: 6P477041.D

Response Factor Report MS6P

Method : C:\MSDCHEM\1\METHODS\M6P2401.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

Calibration Files
2 =6p477036.D 5 =6p477037.D 25 =6p477041.D 80 =6p477040.D
100 =6p477039.D 50 =6p477034.D 1 =6p477035.D 10 =6p477038.D

Compound	2	5	25	80	100	50	1	10	Avg %RSD
101) 1,4-Dichlorobenzene-d	ISTD								
102) Benzaldehyde	1.394	1.390	1.411	1.261	1.235	1.298	1.378	1.399	1.346 5.18
103) Acenaphthene-d10a	ISTD								
104) 1,2,4,5-Tetr	0.549	0.556	0.547	0.485	0.462	0.516	0.521	0.540	0.522 6.42
105) Phenanthrene-d10a	ISTD								
106) 1-chloroocta	0.423	0.528	0.519	0.472	0.449	0.487	0.326	0.490	0.462 14.04
107) o-terphenyl	0.583	0.599	0.597	0.530	0.500	0.577	0.561	0.598	0.568 6.36
108) Atrazine	0.085	0.094	0.111	0.107	0.104	0.112		0.109	0.103 9.77
109) I Chrysene-d12a	ISTD								
110) benzidine	0.399	0.528	0.797	0.776	0.719	0.836		0.653	0.673 23.62

----- Quadratic regression ----- Coefficient = 0.9992
Response Ratio = -0.05772 + 0.99401 *A + -0.09863 *A^2

111) I Naphthalene-d8a	ISTD								
112) Hydroquinone	0.288	0.360	0.348	0.345	0.351		0.326	0.336	7.78
113) Phenanthrene-d10b	ISTD								
114) Pentachloron	0.038	0.042	0.045	0.042	0.041	0.044	0.031	0.043	0.041# 10.55

(#) = Out of Range ### Number of calibration levels exceeded format ###

M6P2400.M Fri Nov 16 14:22:37 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2401-ICV2401
Lab FileID: 6P477043.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2401\6p477043.D Vial: 11
Acq On : 15 Nov 2018 9:36 pm Operator: kristis
Sample : icv2401-50 Inst : MS6P
Misc : op16488,e6p2401,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	108	0.00	4.53
102	Benzaldehyde	1.346	1.143	15.1	95	0.00	4.19
105	Phenanthrene-d10a	1.000	1.000	0.0	106	0.00	8.97
108	Atrazine	0.103	0.116	-12.6	109	0.00	8.68

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 14:24:25 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2402-ICV2400
Lab FileID: 6P477047.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2402\6p477047.D Vial: 3
Acq On : 16 Nov 2018 10:10 am Operator: angelar
Sample : icv2400-50 Inst : MS6P
Misc : op16488,e6p2402,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	133	0.00	4.52
3	t	Pyridine	1.828	1.897	-3.8	138	0.11	2.48
10		Aniline	2.605	2.754	-5.7	152	0.00	4.28
16	t	Benzyl alcohol	1.012	1.105	-9.2	142	0.00	4.63
24	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.54
39	t	4-Chloroaniline	0.463	0.440	5.0	129	0.00	5.61
44	t	2-Methylnaphthalene	0.588	0.590	-0.3	136	0.00	6.19
47	I	Acenaphthene-d10	1.000	1.000	0.0	139	-0.01	7.26
54	t	2-Nitroaniline	0.528	0.424	19.7	108	0.00	6.79
58	t	3-Nitroaniline	0.411	0.346	15.8	113	0.00	7.23
62	t	Dibenzofuran	1.754	1.658	5.5	139	0.00	7.49
68	t	4-Nitroaniline	0.418	0.339	18.9	113	0.00	7.91
69	I	Phenanthrene-d10	1.000	1.000	0.0	125	-0.01	8.95
79	t	Carbazole	1.085	1.079	0.6	126	0.00	9.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 14:43:40 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2402-ICV2401
Lab FileID: 6P477047A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2402\6p477047a.D Vial: 3
Acq On : 16 Nov 2018 10:10 am Operator: angelar
Sample : icv2401-50 Inst : MS6P
Misc : op16488,e6p2402,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
113	Phenanthrene-d10b	1.000	1.000	0.0	131	-0.01	8.95
114	Pentachloronitrobenzene	0.041	0.042#	-2.4	124	-0.01	8.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 14:43:42 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2402-ICV2401
Lab FileID: 6P477048.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2402\6p477048.D Vial: 4
Acq On : 16 Nov 2018 10:34 am Operator: angelar
Sample : icv2401-50 Inst : MS6P
Misc : op16488,e6p2402,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
109 I	Chrysene-d12a	1.000	1.000	0.0	109	-0.01	12.13
	----------	True	Calc.	% Drift	----------		
110 T	benzidine	50.000	49.924	0.2	107	0.00	10.59

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 14:43:44 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2402-ICV2401
Lab FileID: 6P477049.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2402\6p477049.D Vial: 5
Acq On : 16 Nov 2018 10:58 am Operator: angelar
Sample : icv2401-50 Inst : MS6P
Misc : op16488,e6p2402,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	Acenaphthene-d10a	1.000	1.000	0.0	118	-0.01	7.26
104	1,2,4,5-Tetrachlorobenzen	0.522	0.572	-9.6	131	0.00	6.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 14:43:46 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2402-ICV2400
Lab FileID: 6P477051.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2402\6p477051.D Vial: 7
Acq On : 16 Nov 2018 11:53 am Operator: kristis
Sample : icv2400-50 Inst : MS6P
Misc : op16488,e6p2402,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	0.00	4.52
9	t	Phenol	2.258	2.054	9.0	117	0.00	4.27
12	t	2-Chlorophenol	1.543	1.498	2.9	122	0.00	4.37
19	t	2-Methylphenol	1.493	1.426	4.5	124	0.00	4.72
21	t	3&4-Methylphenol	1.574	1.458	7.4	119	0.00	4.84
24	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00	5.54
29	t	2-Nitrophenol	0.198	0.191	3.5	120	0.00	5.22
30	t	2,4-Dimethylphenol	0.370	0.366	1.1	123	0.00	5.26
33	t	2,4-Dichlorophenol	0.297	0.290	2.4	123	0.00	5.42
34	t	2,6-Dichlorophenol	0.293	0.267	8.9	118	0.00	5.62
43	t	4-Chloro-3-methylphenol	0.349	0.330	5.4	116	0.00	6.06
47	I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00	7.27
49	t	2,4,6-Trichlorophenol	0.353	0.335	5.1	127	0.00	6.48
50	t	2,4,5-Trichlorophenol	0.382	0.362	5.2	119	0.00	6.52
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	53.292	-6.6	148	0.00	7.34
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.192	0.200	-4.2	128	0.00	7.44
64		2,3,4,6-Tetrachlorophenol	0.288	0.311	-8.0	129	0.00	7.64
69	I	Phenanthrene-d10	1.000	1.000	0.0	124	0.00	8.96
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	46.830	6.3	116	0.00	7.95
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	54.420	-8.8	144	0.00	8.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Fri Nov 16 14:43:48 2018 ACLIMS

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2416-ICV2401
Lab FileID: 6P477393.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2416\6p477393.D Vial: 5
Acq On : 30 Nov 2018 1:07 am Operator: chriss2
Sample : icv2401-50 Inst : MS6P
Misc : op16488,e6p2416,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
Last Update : Fri Nov 16 11:17:24 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
		AvgRF	CCRF	% Dev			
111 I	Naphthalene-d8a	1.000	1.000	0.0	62	-0.09	5.46
112 T	Hydroquinone	0.336	0.393	-17.0	70	-0.07	5.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Wed Dec 05 10:16:11 2018 ACLIMS

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2423-CC2400
Lab FileID: 6P477590.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2423\6p477590.D Vial: 2
Acq On : 5 Dec 2018 7:30 pm Operator: sufiyana
Sample : cc2400-50 Inst : MS6P
Misc : op16488,e6p2423,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
Last Update : Wed Dec 05 12:09:54 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	-0.16	4.37
2	t	1,4-Dioxane	0.664	0.633	4.7	94	-0.21	1.80
3	t	Pyridine	1.828	1.734	5.1	96	-0.22	2.15
4	t	N-Nitrosodimethylamine	1.075	1.018	5.3	93	-0.20	2.11
5	S	2-Fluorophenol	1.538	1.561	-1.5	101	-0.16	3.39
6	t	Indene	2.642	2.793	-5.7	109	-0.16	4.56
7	t	Cumene	4.083	4.119	-0.9	103	-0.17	3.76
8	S	Phenol-d5	2.028	2.097	-3.4	106	-0.13	4.14
9	t	Phenol	2.258	2.425	-7.4	111	-0.13	4.15
10		Aniline	2.605	2.679	-2.8	114	-0.15	4.13
11	t	bis(2-Chloroethyl)ether	1.755	1.676	4.5	98	-0.15	4.18
12	t	2-Chlorophenol	1.543	1.598	-3.6	105	-0.15	4.22
13	t	Decane	2.394	2.283	4.6	99	-0.16	4.26
14	t	1,3-Dichlorobenzene	1.690	1.725	-2.1	107	-0.16	4.32
15	t	1,4-Dichlorobenzene	1.711	1.756	-2.6	107	-0.16	4.38
16	t	Benzyl alcohol	1.012	1.004	0.8	99	-0.15	4.48
17	t	1,2-Dichlorobenzene	1.591	1.605	-0.9	105	-0.16	4.49
18	t	Acetophenone	2.398	2.425	-1.1	106	-0.16	4.67
19	t	2-Methylphenol	1.493	1.627	-9.0	113	-0.14	4.58
20	t	2,2'-oxybis(1-Chloropropa	0.515	0.489	5.0	102	-0.16	4.57
21	t	3&4-Methylphenol	1.574	1.668	-6.0	109	-0.14	4.70
22	t	n-Nitroso-di-n-propylamin	1.346	1.322	1.8	103	-0.15	4.68
23	t	Hexachloroethane	0.561	0.586	-4.5	106	-0.17	4.75
24	I	Naphthalene-d8	1.000	1.000	0.0	98	-0.18	5.37
25	S	Nitrobenzene-d5	0.483	0.470	2.7	97	-0.16	4.79
26	t	Nitrobenzene	0.493	0.480	2.6	97	-0.16	4.80
27	t	Quinoline	0.762	0.800	-5.0	105	-0.17	5.69
28	t	Isophorone	0.833	0.819	1.7	100	-0.16	4.99
29	t	2-Nitrophenol	0.198	0.218	-10.1	109	-0.17	5.06
30	t	2,4-Dimethylphenol	0.370	0.396	-7.0	105	-0.16	5.10
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	61.613	-23.2#	124	-0.11	5.23
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.512	0.465	9.2	91	-0.17	5.17
33	t	2,4-Dichlorophenol	0.297	0.322	-8.4	108	-0.17	5.26
34	t	2,6-Dichlorophenol	0.293	0.311	-6.1	108	-0.17	5.45
35		1,3,5-Trichlorobenzene	0.334	0.355	-6.3	109	-0.17	5.06
36	t	1,2,4-Trichlorobenzene	0.325	0.336	-3.4	105	-0.18	5.32
37		1,2,3-Trichlorobenzene	0.318	0.339	-6.6	109	-0.18	5.51

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2423-CC2400
Lab FileID: 6P477590.D

38	t	Naphthalene	1.080	1.139	-5.5	106	-0.18	5.38
39	t	4-Chloroaniline	0.463	0.468	-1.1	103	-0.17	5.44
40	t	2,3-Dichloroaniline	0.365	0.389	-6.6	107	-0.19	6.29
41	t	Caprolactam	0.233	0.241	-3.4	99	-0.15	5.76
42	t	Hexachlorobutadiene	0.181	0.184	-1.7	106	-0.18	5.49
43	t	4-Chloro-3-methylphenol	0.349	0.365	-4.6	102	-0.16	5.91
44	t	2-Methylnaphthalene	0.588	0.593	-0.9	102	-0.19	6.01
45	t	1-Methylnaphthalene	0.647	0.667	-3.1	105	-0.19	6.10
46	t	Dimethylnaphthalene	0.664	0.712	-7.2	109	-0.20	6.63
47	I	Acenaphthene-d10	1.000	1.000	0.0	101	-0.21	7.07
48	t	Hexachlorocyclopentadiene	0.322	0.330	-2.5	97	-0.19	6.17
49	t	2,4,6-Trichlorophenol	0.353	0.408	-15.6	118	-0.18	6.30
50	t	2,4,5-Trichlorophenol	0.382	0.449	-17.5	112	-0.18	6.35
51	S	2-Fluorobiphenyl	1.495	1.534	-2.6	108	-0.19	6.37
52	t	2-Chloronaphthalene	1.284	1.332	-3.7	110	-0.19	6.49
53	t	Biphenyl	1.777	1.801	-1.4	107	-0.19	6.47
54	t	2-Nitroaniline	0.528	0.531	-0.6	99	-0.18	6.61
55	t	Dimethylphthalate	1.500	1.488	0.8	102	-0.19	6.80
56	t	Acenaphthylene	1.992	2.071	-4.0	105	-0.20	6.92
57	t	2,6-Dinitrotoluene	0.325	0.356	-9.5	107	-0.19	6.86
58	t	3-Nitroaniline	0.411	0.424	-3.2	101	-0.19	7.05
59	t	Acenaphthene	1.393	1.401	-0.6	104	-0.20	7.10

			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	142.120	-42.1#	147	-0.19	7.16

			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.192	0.208	-8.3	101	-0.16	7.29
62	t	Dibenzofuran	1.754	1.839	-4.8	112	-0.20	7.30
63	t	2,4-Dinitrotoluene	0.434	0.466	-7.4	106	-0.19	7.30
64		2,3,4,6-Tetrachlorophenol	0.288	0.384	-33.3#	122	-0.20	7.45
65	t	Diethylphthalate	1.447	1.427	1.4	101	-0.20	7.59
66	t	Fluorene	1.434	1.520	-6.0	111	-0.20	7.68
67	t	4-Chlorophenyl-phenylethe	0.677	0.697	-3.0	110	-0.21	7.69
68	t	4-Nitroaniline	0.418	0.435	-4.1	105	-0.18	7.73
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	-0.21	8.75

			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	66.772	-33.5#	145	-0.18	7.77

			AvgRF	CCRF	% Dev			
71	t	n-Nitrosodiphenylamine	0.563	0.595	-5.7	110	-0.20	7.83
72	t	1,2-Diphenylhydrazine	0.984	0.948	3.7	100	-0.20	7.87
73	S	2,4,6-Tribromophenol	0.101	0.135	-33.7#	127	-0.20	7.95
74	t	4-Bromophenyl-phenylether	0.212	0.224	-5.7	112	-0.21	8.24
75	t	Hexachlorobenzene	0.237	0.254	-7.2	116	-0.21	8.31

			True	Calc.	% Drift			
76	t	Pentachlorophenol	100.000	124.311	-24.3#	132	-0.21	8.55

			AvgRF	CCRF	% Dev			
77	t	Phenanthrene	1.120	1.158	-3.4	111	-0.21	8.78
78	t	Anthracene	1.127	1.205	-6.9	113	-0.21	8.84
79	t	Carbazole	1.085	1.118	-3.0	109	-0.21	9.05
80	t	Di-n-butylphthalate	1.268	1.296	-2.2	103	-0.21	9.51
81	t	Fluoranthene	1.179	1.269	-7.6	112	-0.21	10.19
82	t	Octadecane	0.701	0.699	0.3	101	-0.21	8.70

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2423-CC2400
Lab FileID: 6P477590.D

83	I	Chrysene-d12	1.000	1.000	0.0	104	-0.22	11.92
84	t	Pyrene	1.347	1.460	-8.4	112	-0.22	10.45
85	S	Terphenyl-d14	0.837	0.923	-10.3	113	-0.21	10.68
86	t	Butylbenzylphthalate	0.594	0.664	-11.8	104	-0.22	11.30
87	t	Benzo[a]anthracene	1.155	1.241	-7.4	114	-0.22	11.90
88	t	3,3'-Dichlorobenzidine	0.395	0.478	-21.0#	119	-0.22	11.90
89	t	Chrysene	1.212	1.285	-6.0	113	-0.22	11.94
90	t	bis(2-Ethylhexyl)phthalat	0.826	0.858	-3.9	101	-0.22	12.02
91	I	Perylene-d12	1.000	1.000	0.0	89	-0.23	13.51
92	t	Di-n-octylphthalate	1.251	1.641	-31.2#	102	-0.22	12.76
93	t	Benzo[b]fluoranthene	1.055	1.284	-21.7#	107	-0.22	13.12
94	t	Benzo[k]fluoranthene	1.109	1.161	-4.7	94	-0.22	13.15
95	t	Benzo[a]pyrene	0.966	1.116	-15.5	97	-0.22	13.45
96	t	Indeno[1,2,3-cd]pyrene	1.192	1.288	-8.1	89	-0.27	14.57
97	t	Dibenz(a,h)acridine	0.881	0.962	-9.2	89	-0.26	14.33
98	t	Dibenz[a,h]anthracene	0.988	1.084	-9.7	90	-0.27	14.59
99	t	7,12-Dimethylbenz(a)anthr	0.453	0.598	-32.0#	111	-0.22	13.12
100	t	Benzo[g,h,i]perylene	0.991	1.040	-4.9	89	-0.29	14.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0

6p477034a.D M6P2400.M Thu Dec 06 08:00:27 2018 ACLIMS

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: E6P2423-CC2401
Lab FileID: 6P477591.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P2423\6p477591.D Vial: 3
Acq On : 5 Dec 2018 7:54 pm Operator: sufiyana
Sample : cc2401-50 Inst : MS6P
Misc : op17120,e6p2423,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M6P2400.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
Last Update : Wed Dec 05 12:09:54 2018
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	81	-0.16	4.37
102	Benzaldehyde	1.346	1.380	-2.5	86	-0.16	4.04
103	Acenaphthene-d10a	1.000	1.000	0.0	78	-0.21	7.07
104	1,2,4,5-Tetrachlorobenzen	0.522	0.617	-18.2	93	-0.19	6.17
105	Phenanthrene-d10a	1.000	1.000	0.0	89	-0.22	8.75
106 S	1-chlorooctadecane	0.462	0.489	-5.8	90	-0.22	10.13
107 S	o-terphenyl	0.568	0.613	-7.9	95	-0.22	9.23
108	Atrazine	0.103	0.123	-19.4	98	-0.20	8.47
109 I	Chrysene-d12a	1.000	1.000	0.0	88	-0.23	11.91
	----------	True	Calc.	% Drift	----------		
110 T	benzidine	50.000	47.634	4.7	83	-0.21	10.38
	----------	AvgRF	CCRF	% Dev	----------		
111 I	Naphthalene-d8a	1.000	1.000	0.0	82	-0.18	5.36
112 T	Hydroquinone	0.336	0.460	-36.9#	108	-0.14	5.77
113	Phenanthrene-d10b	1.000	1.000	0.0	89	-0.22	8.75
114	Pentachloronitrobenzene	0.041	0.051	-24.4#	104	-0.21	8.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p477034a.D M6P2400.M Thu Dec 06 08:01:55 2018 ACLIMS

MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477613.D
Acq On : 6 Dec 2018 5:23 am
Operator : sufiyana
Sample : jc78619-2
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 06 08:59:50 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

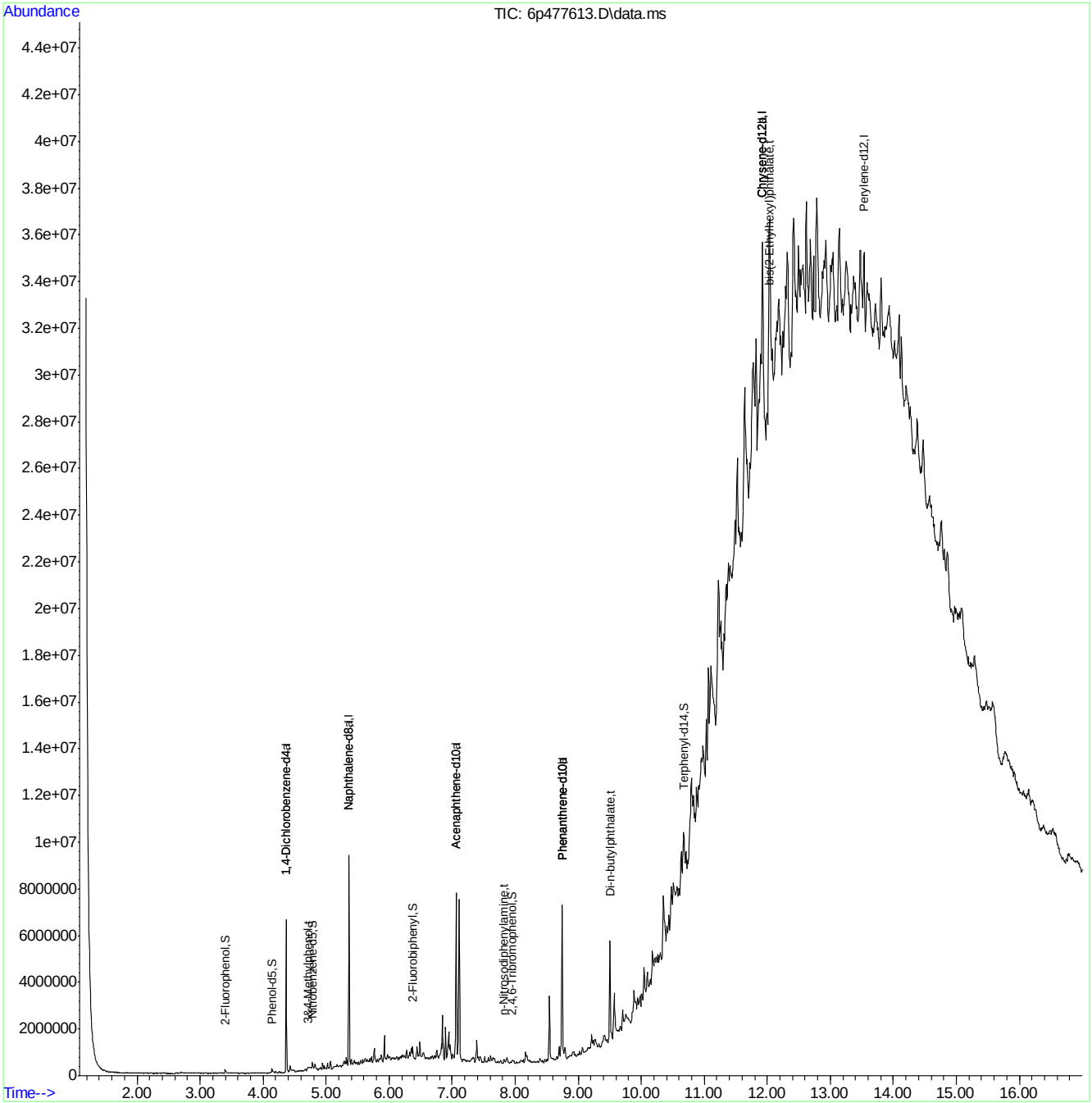
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.366	152	712680	40.00	ppm	-0.16
24) Naphthalene-d8	5.361	136	2932253	40.00	ppm	-0.18
47) Acenaphthene-d10	7.067	164	1420874	40.00	ppm	-0.21
69) Phenanthrene-d10	8.746	188	2492717	40.00	ppm	-0.22
83) Chrysene-d12	11.923	240	1852962	40.00	ppm	-0.21
91) Perylene-d12	13.533	264	1971639	40.00	ppm	-0.21
101) 1,4-Dichlorobenzene-d4a	4.366	152	712680	40.00	ppm	-0.15
103) Acenaphthene-d10a	7.067	164	1420874	40.00	ppm	-0.21
105) Phenanthrene-d10a	8.746	188	2492717	40.00	ppm	-0.22
109) Chrysene-d12a	11.923	240	1852962	40.00	ppm	-0.21
111) Naphthalene-d8a	5.361	136	2932706	40.00	ppm	-0.18
113) Phenanthrene-d10b	8.746	188	2492717	40.00	ppm	-0.22
115) Chrysene-d12b	11.923	240	1852962	40.00	ppm	-0.21
System Monitoring Compounds						
5) 2-Fluorophenol	3.398	112	60916	2.22	ppm	-0.15
Spiked Amount 50.000			Recovery =	4.44%		
8) Phenol-d5	4.141	99	80541	2.23	ppm	-0.13
Spiked Amount 50.000			Recovery =	4.46%		
25) Nitrobenzene-d5	4.788	82	82166	2.32	ppm	-0.16
Spiked Amount 50.000			Recovery =	4.64%		
51) 2-Fluorobiphenyl	6.371	172	149709	2.82	ppm	-0.19
Spiked Amount 50.000			Recovery =	5.64%		
73) 2,4,6-Tribromophenol	7.949	330	20014	3.19	ppm	-0.21
Spiked Amount 50.000			Recovery =	6.38%		
85) Terphenyl-d14	10.677	244	137551	3.55	ppm	-0.22
Spiked Amount 50.000			Recovery =	7.10%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0d	0.00	ppm	
Target Compounds						Qvalue
21) 3&4-Methylphenol	4.708	108	52984	1.89	ppm	# 65
71) n-Nitrosodiphenylamine	7.821	169	38597	1.10	ppm	91
80) Di-n-butylphthalate	9.506	149	2167241	27.44	ppm	100
90) bis(2-Ethylhexyl)phtha...	12.036	149	793374	20.74	ppm	99

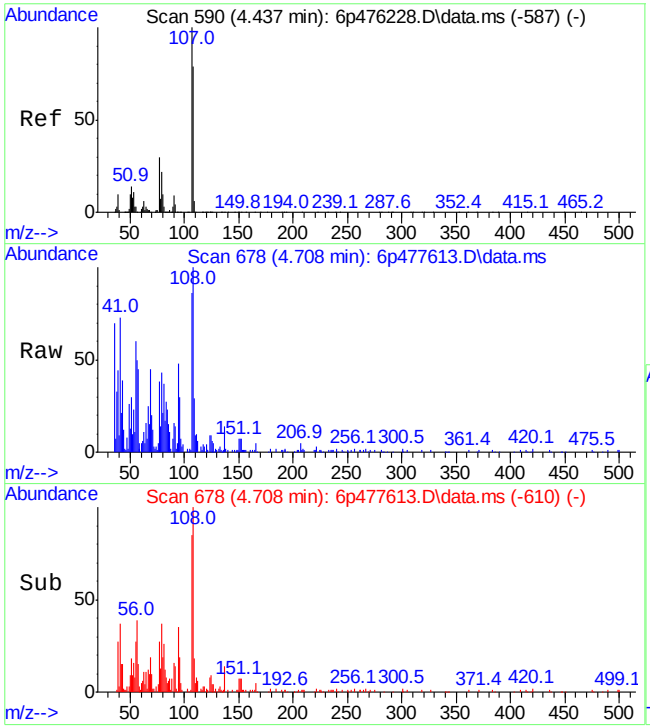
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477613.D
Acq On : 6 Dec 2018 5:23 am
Operator : sufiyana
Sample : jc78619-2
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 06 08:59:50 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

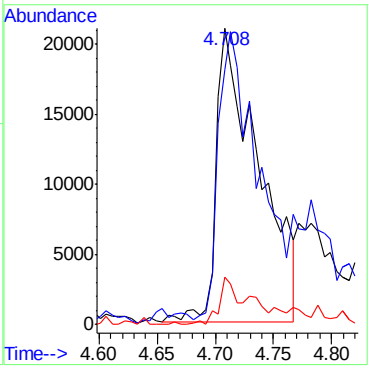


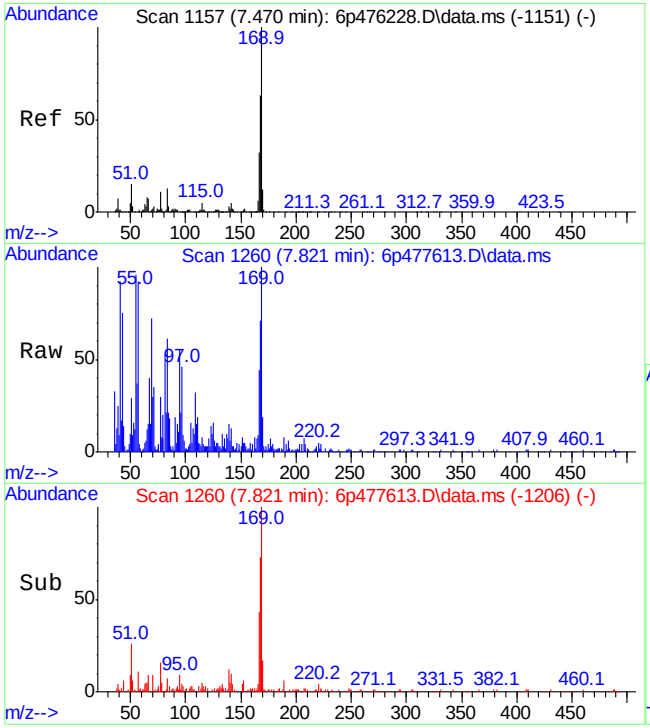


#21
3&4-Methylphenol
Concen: 1.89 ppm
RT: 4.708 min Scan# 678
Delta R.T. -0.134 min
Lab File: 6p477613.D
Acq: 6 Dec 2018 5:23 am

Tgt Ion:108 Resp: 52984

Ion	Ratio	Lower	Upper
108	100		
107	76.3	87.2	147.2#
90	15.2	0.0	40.7

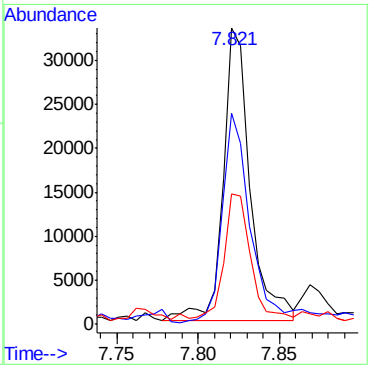


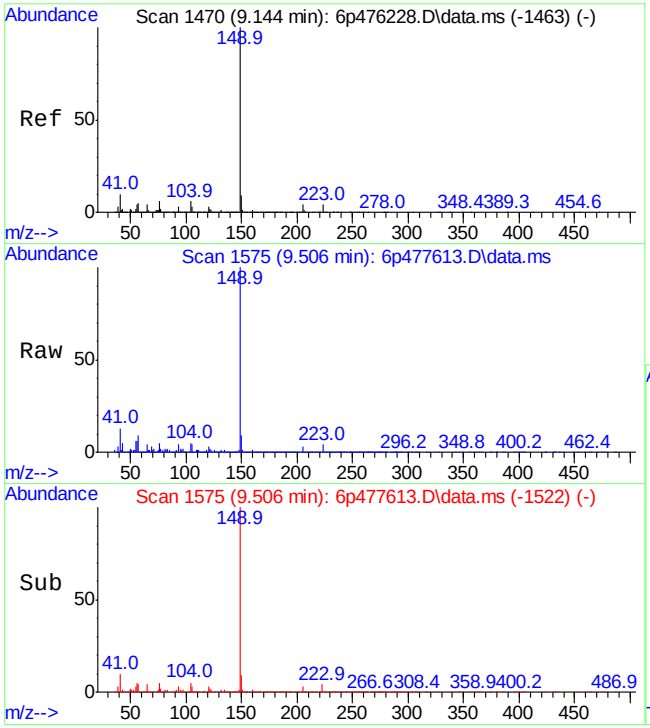


#71
n-Nitrosodiphenylamine
Concen: 1.10 ppm
RT: 7.821 min Scan# 1260
Delta R.T. -0.209 min
Lab File: 6p477613.D
Acq: 6 Dec 2018 5:23 am

Tgt Ion:169 Resp: 38597

Ion	Ratio	Lower	Upper
169	100		
168	68.6	33.3	93.3
167	42.5	4.5	64.5

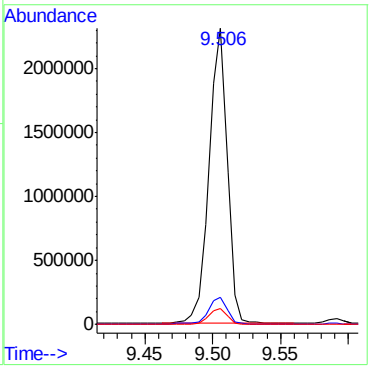


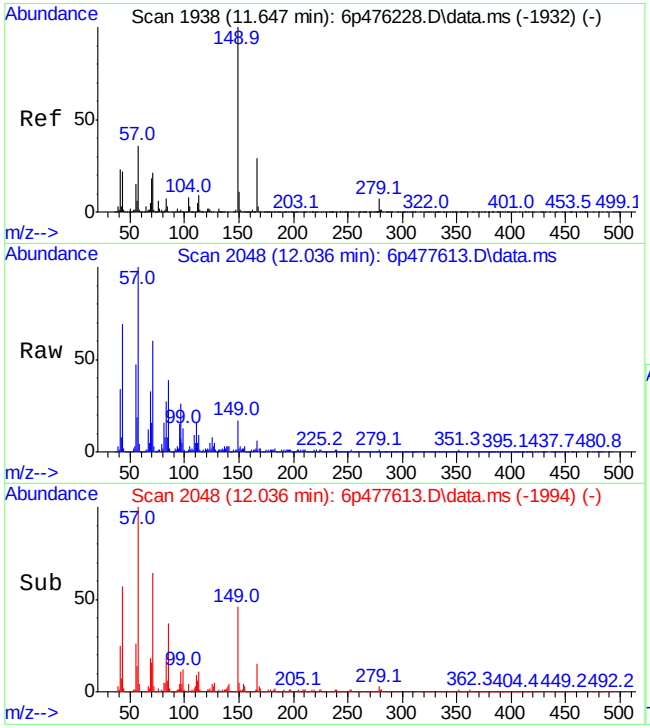


#80
Di-n-butylphthalate
Concen: 27.44 ppm
RT: 9.506 min Scan# 1575
Delta R.T. -0.214 min
Lab File: 6p477613.D
Acq: 6 Dec 2018 5:23 am

Tgt Ion:149 Resp: 2167241

Ion	Ratio	Lower	Upper
149	100		
150	9.1	0.0	39.3
104	5.4	0.0	35.4

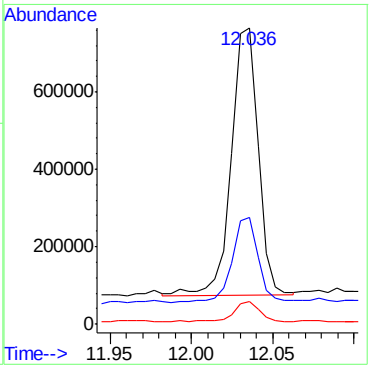




#90
bis(2-Ethylhexyl)phthalate
Concen: 20.74 ppm
RT: 12.036 min Scan# 2048
Delta R.T. -0.209 min
Lab File: 6p477613.D
Acq: 6 Dec 2018 5:23 am

Tgt Ion:149 Resp: 793374

Ion	Ratio	Lower	Upper
149	100		
167	31.7	1.2	61.2
279	7.4	0.0	36.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477595.D
Acq On : 5 Dec 2018 10:12 pm
Operator : sufiyana
Sample : op17120-mb1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 08:32:34 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

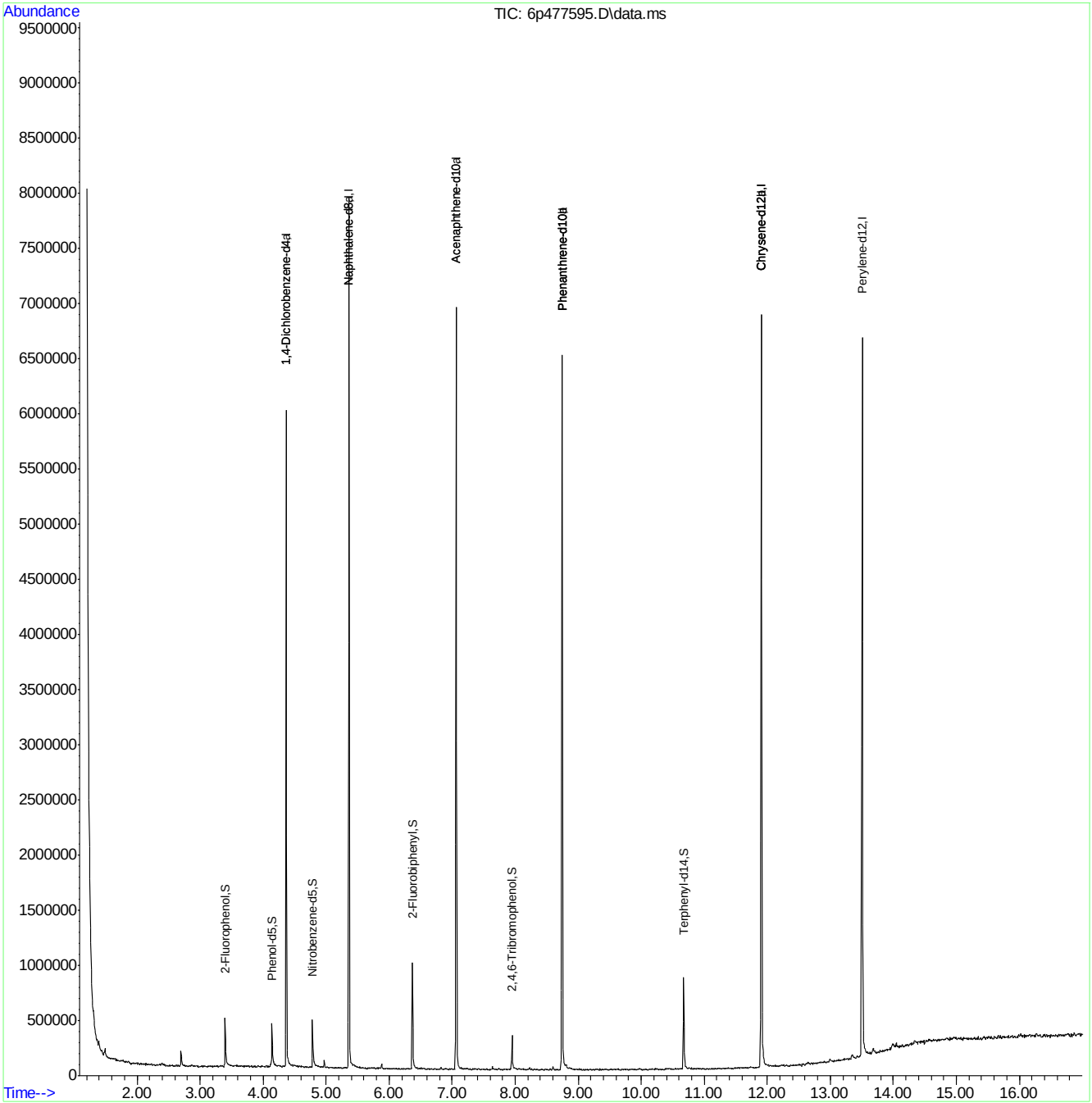
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	649077	40.00	ppm	-0.16
24) Naphthalene-d8	5.360	136	2614985	40.00	ppm	-0.18
47) Acenaphthene-d10	7.067	164	1387239	40.00	ppm	-0.21
69) Phenanthrene-d10	8.746	188	2650333	40.00	ppm	-0.22
83) Chrysene-d12	11.907	240	2559043	40.00	ppm	-0.23
91) Perylene-d12	13.506	264	2707954	40.00	ppm	-0.24
101) 1,4-Dichlorobenzene-d4a	4.365	152	649077	40.00	ppm	-0.16
103) Acenaphthene-d10a	7.067	164	1387239	40.00	ppm	-0.21
105) Phenanthrene-d10a	8.746	188	2650333	40.00	ppm	-0.22
109) Chrysene-d12a	11.907	240	2559043	40.00	ppm	-0.23
111) Naphthalene-d8a	5.360	136	2614985	40.00	ppm	-0.18
113) Phenanthrene-d10b	8.746	188	2650333	40.00	ppm	-0.22
115) Chrysene-d12b	11.907	240	2559043	40.00	ppm	-0.23
System Monitoring Compounds						
5) 2-Fluorophenol	3.397	112	119500	4.79	ppm	-0.15
Spiked Amount 50.000			Recovery = 9.58%			
8) Phenol-d5	4.141	99	155979	4.74	ppm	-0.13
Spiked Amount 50.000			Recovery = 9.48%			
25) Nitrobenzene-d5	4.788	82	168601	5.34	ppm	-0.16
Spiked Amount 50.000			Recovery = 10.68%			
51) 2-Fluorobiphenyl	6.371	172	303583	5.85	ppm	-0.19
Spiked Amount 50.000			Recovery = 11.70%			
73) 2,4,6-Tribromophenol	7.949	330	40250	6.04	ppm	-0.21
Spiked Amount 50.000			Recovery = 12.08%			
85) Terphenyl-d14	10.677	244	338499	6.32	ppm	-0.22
Spiked Amount 50.000			Recovery = 12.64%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477595.D
Acq On : 5 Dec 2018 10:12 pm
Operator : sufiyana
Sample : op17120-mb1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 08:32:34 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 12/06/18 10:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477596.D
Acq On : 5 Dec 2018 10:36 pm
Operator : sufiyana
Sample : op17120-bs1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 10:23:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.366	152	561711	40.00	ppm		-0.16
24) Naphthalene-d8	5.360	136	2230319	40.00	ppm		-0.18
47) Acenaphthene-d10	7.061	164	1164556	40.00	ppm		-0.21
69) Phenanthrene-d10	8.741	188	2174561	40.00	ppm		-0.22
83) Chrysene-d12	11.907	240	2076269	40.00	ppm		-0.23
91) Perylene-d12	13.506	264	2171332	40.00	ppm		-0.24
101) 1,4-Dichlorobenzene-d4a	4.366	152	561711	40.00	ppm		-0.16
103) Acenaphthene-d10a	7.061	164	1164556	40.00	ppm		-0.21
105) Phenanthrene-d10a	8.741	188	2174561	40.00	ppm		-0.22
109) Chrysene-d12a	11.907	240	2076269	40.00	ppm		-0.23
111) Naphthalene-d8a	5.360	136	2230319	40.00	ppm		-0.18
113) Phenanthrene-d10b	8.741	188	2174561	40.00	ppm		-0.22
115) Chrysene-d12b	11.907	240	2076269	40.00	ppm		-0.23
System Monitoring Compounds							
5) 2-Fluorophenol	3.403	112	106138	4.91	ppm		-0.14
Spiked Amount 50.000			Recovery	=	9.82%		
8) Phenol-d5	4.141	99	146199	5.13	ppm		-0.13
Spiked Amount 50.000			Recovery	=	10.26%		
25) Nitrobenzene-d5	4.783	82	144316	5.36	ppm		-0.16
Spiked Amount 50.000			Recovery	=	10.72%		
51) 2-Fluorobiphenyl	6.366	172	248506	5.71	ppm		-0.20
Spiked Amount 50.000			Recovery	=	11.42%		
73) 2,4,6-Tribromophenol	7.949	330	35269	6.45	ppm		-0.21
Spiked Amount 50.000			Recovery	=	12.90%		
85) Terphenyl-d14	10.672	244	268573	6.18	ppm		-0.22
Spiked Amount 50.000			Recovery	=	12.36%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	1.804	88	49987	5.36	ppm		97
3) Pyridine	2.205	79	79638	3.10	ppm		74
4) N-Nitrosodimethylamine	2.125	74	68501	4.54	ppm		91
6) Indene	4.553	116	233080	6.28	ppm		97
7) Cumene	3.761	105	311508	5.43	ppm		97
9) Phenol	4.152	94	172831	5.45	ppm	#	60
10) Aniline	4.136	93	108194	2.96	ppm	#	49
11) bis(2-Chloroethyl)ether	4.178	93	139198	5.65	ppm		98
12) 2-Chlorophenol	4.227	128	118838	5.48	ppm		95
13) Decane	4.253	43	185975	5.53	ppm		99
14) 1,3-Dichlorobenzene	4.323	146	128546	5.42	ppm		98
15) 1,4-Dichlorobenzene	4.376	146	133300	5.55	ppm		96
16) Benzyl alcohol	4.489	108	46138	3.25	ppm	#	79
17) 1,2-Dichlorobenzene	4.489	146	125683	5.63	ppm		93
18) Acetophenone	4.670	105	181457	5.39	ppm		88
19) 2-Methylphenol	4.585	108	132705	6.33	ppm		96
20) 2,2'-oxybis(1-Chloropr...	4.574	121	41399	5.73	ppm	#	78
21) 3&4-Methylphenol	4.703	108	131007	5.93	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477596.D
Acq On : 5 Dec 2018 10:36 pm
Operator : sufiyana
Sample : op17120-bs1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 10:23:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.670	70	100115	5.30	ppm		100
23) Hexachloroethane	4.740	201	43076	5.47	ppm		95
26) Nitrobenzene	4.799	77	143219	5.21	ppm		97
27) Quinoline	5.687	129	236482	5.57	ppm		99
28) Isophorone	4.986	82	247085	5.32	ppm		94
29) 2-Nitrophenol	5.050	139	65696	5.94	ppm		87
30) 2,4-Dimethylphenol	5.104	107	129902	6.29	ppm		99
31) Benzoic acid	5.184	105	87440	8.74	ppm		93
32) bis(2-Chloroethoxy)met...	5.163	93	149548	5.24	ppm		97
33) 2,4-Dichlorophenol	5.270	162	96208	5.80	ppm		92
34) 2,6-Dichlorophenol	5.446	162	97583	5.98	ppm		97
36) 1,2,4-Trichlorobenzene	5.318	180	107985	5.96	ppm		97
38) Naphthalene	5.377	128	372969	6.19	ppm		98
39) 4-Chloroaniline	5.441	127	104492	4.05	ppm		94
40) 2,3-Dichloroaniline	6.286	161	112166	5.51	ppm		89
41) Caprolactam	5.735	55	68952	5.30	ppm		88
42) Hexachlorobutadiene	5.494	225	63468	6.28	ppm		96
43) 4-Chloro-3-methylphenol	5.901	107	107453	5.52	ppm		77
44) 2-Methylnaphthalene	6.008	141	196675	6.00	ppm		95
45) 1-Methylnaphthalene	6.099	141	193434	5.36	ppm		94
46) Dimethylnaphthalene	6.628	156	221297	5.97	ppm		98
48) Hexachlorocyclopentadiene	6.163	237	63710	6.80	ppm		97
49) 2,4,6-Trichlorophenol	6.296	196	64024	6.23	ppm		94
50) 2,4,5-Trichlorophenol	6.350	196	66891	6.02	ppm		96
52) 2-Chloronaphthalene	6.484	162	214126	5.73	ppm		98
53) Biphenyl	6.468	154	310294	6.00	ppm		98
54) 2-Nitroaniline	6.601	65	83297	5.42	ppm		98
55) Dimethylphthalate	6.794	163	246350	5.64	ppm		97
56) Acenaphthylene	6.912	152	334700	5.77	ppm		98
57) 2,6-Dinitrotoluene	6.853	165	49914	5.27	ppm		95
58) 3-Nitroaniline	7.040	138	53312	4.46	ppm		93
59) Acenaphthene	7.099	153	242903	5.99	ppm		98
60) 2,4-Dinitrophenol	7.163	184	34126	12.19	ppm	#	71
61) 4-Nitrophenol	7.307	109	19044	3.40	ppm	#	83
62) Dibenzofuran	7.286	168	321946	6.31	ppm		97
63) 2,4-Dinitrotoluene	7.297	165	65204	5.16	ppm		96
64) 2,3,4,6-Tetrachlorophenol	7.446	232	50893	6.08	ppm		88
65) Diethylphthalate	7.575	149	229751	5.46	ppm		95
66) Fluorene	7.671	166	240110	5.75	ppm		98
67) 4-Chlorophenyl-phenyle...	7.682	204	118302	6.00	ppm		98
68) 4-Nitroaniline	7.714	138	57799	4.75	ppm		86
70) 4,6-Dinitro-2-methylph...	7.757	198	31818	6.65	ppm		90
71) n-Nitrosodiphenylamine	7.821	169	171576	5.60	ppm		95
72) 1,2-Diphenylhydrazine	7.858	77	294680	5.51	ppm		98
74) 4-Bromophenyl-phenylether	8.238	248	67071	5.81	ppm		91
75) Hexachlorobenzene	8.302	284	80131	6.22	ppm		97
76) Pentachlorophenol	8.554	266	39624	9.57	ppm		93
77) Phenanthrene	8.768	178	362275	5.95	ppm		99
78) Anthracene	8.826	178	366585	5.98	ppm		97
79) Carbazole	9.040	167	333181	5.65	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477596.D
Acq On : 5 Dec 2018 10:36 pm
Operator : sufiyana
Sample : op17120-bs1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 10:23:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

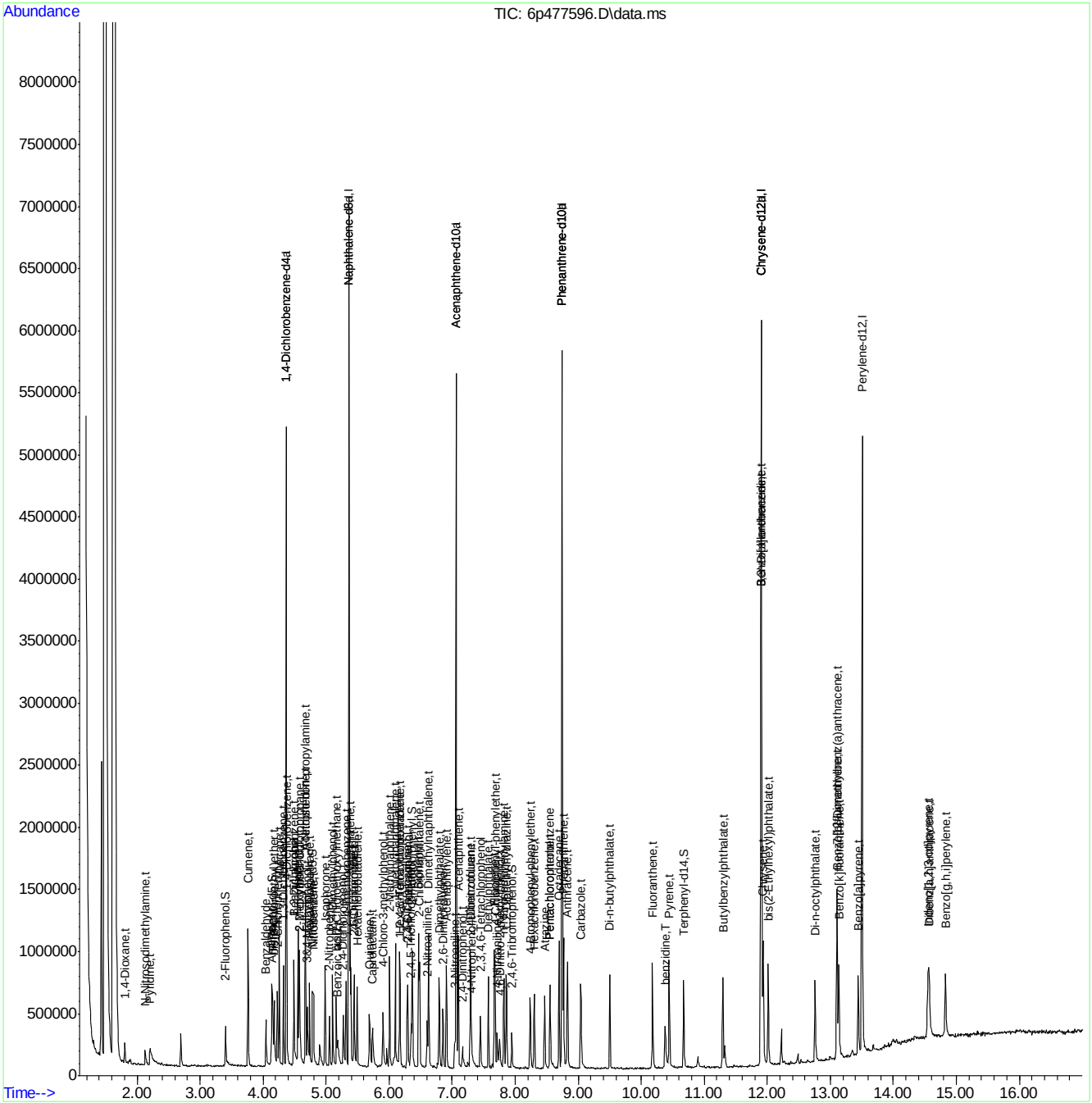
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.500	149	382840	5.56	ppm	98
81) Fluoranthene	10.180	202	377595	5.89	ppm	97
82) Octadecane	8.693	57	213779	5.61	ppm	95
84) Pyrene	10.447	202	405184	5.79	ppm	98
86) Butylbenzylphthalate	11.297	149	163928	5.32	ppm	99
87) Benzo[a]anthracene	11.896	228	363004	6.06	ppm	96
88) 3,3'-Dichlorobenzidine	11.896	252	181384	8.85	ppm	99
89) Chrysene	11.934	228	370085	5.88	ppm	98
90) bis(2-Ethylhexyl)phtha...	12.020	149	224094	5.23	ppm	97
92) Di-n-octylphthalate	12.758	149	361552	5.32	ppm	96
93) Benzo[b]fluoranthene	13.111	252	337801	5.90	ppm	95
94) Benzo[k]fluoranthene	13.137	252	368222	6.12	ppm	97
95) Benzo[a]pyrene	13.442	252	312629	5.96	ppm	100
96) Indeno[1,2,3-cd]pyrene	14.549	276	374942	5.79	ppm	97
98) Dibenz[a,h]anthracene	14.571	278	316235	5.90	ppm	95
99) 7,12-Dimethylbenz(a)an...	13.105	256	160912	6.55	ppm	96
100) Benzo[g,h,i]perylene	14.828	276	321537m	5.97	ppm	
102) Benzaldehyde	4.045	105	78978	4.18	ppm	93
104) 1,2,4,5-Tetrachloroben...	6.173	216	112235	7.38	ppm	98
108) Atrazine	8.468	215	35923	6.42	ppm	86
110) benzidine	10.383	184	223449	6.77	ppm	96
114) Pentachloronitrobenzene	8.554	295	13135	5.92	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477596.D
Acq On : 5 Dec 2018 10:36 pm
Operator : sufiyana
Sample : op17120-bs1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 10:23:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration



Manual Integration Approval Summary

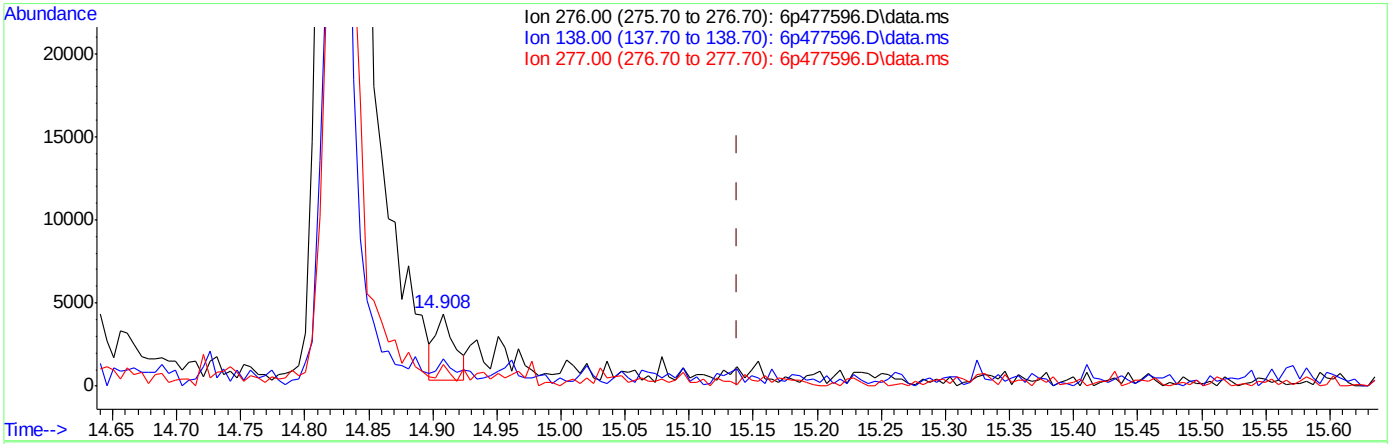
Sample Number: OP17120-BS1
Lab FileID: 6P477596.D
Injection Time: 12/05/18 22:36
Method: SW846 8270D
Analyst approved: 12/06/18 08:42 Ying Li
Supervisor approved: 12/06/18 10:21 Kristi Schollenberger

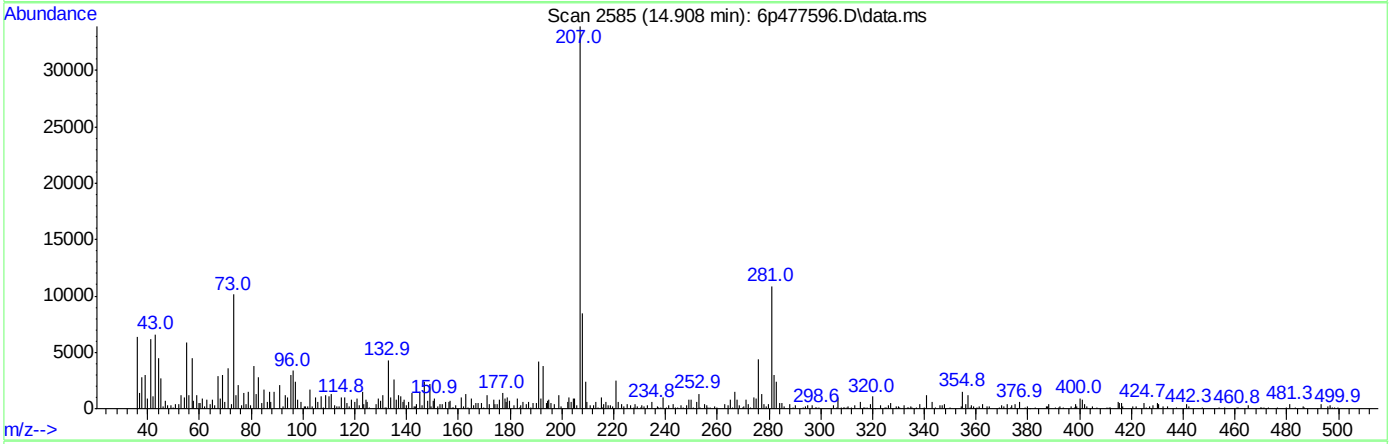
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(g,h,i)perylene	191-24-2		14.83	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477596.D
Acq On : 5 Dec 2018 10:36 pm
Operator : sufiyana
Sample : op17120-bs1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 05 22:53:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration





TIC: 6p477596.D\data.ms

(100) Benzo[g,h,i]perylene (t)

14.908min (-0.230) 0.08ppm

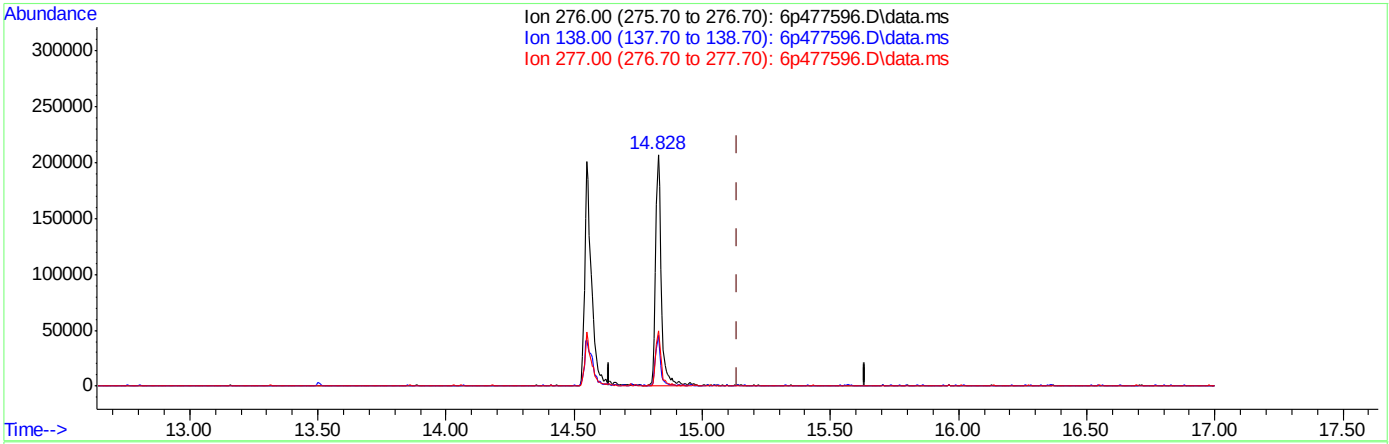
response 4058

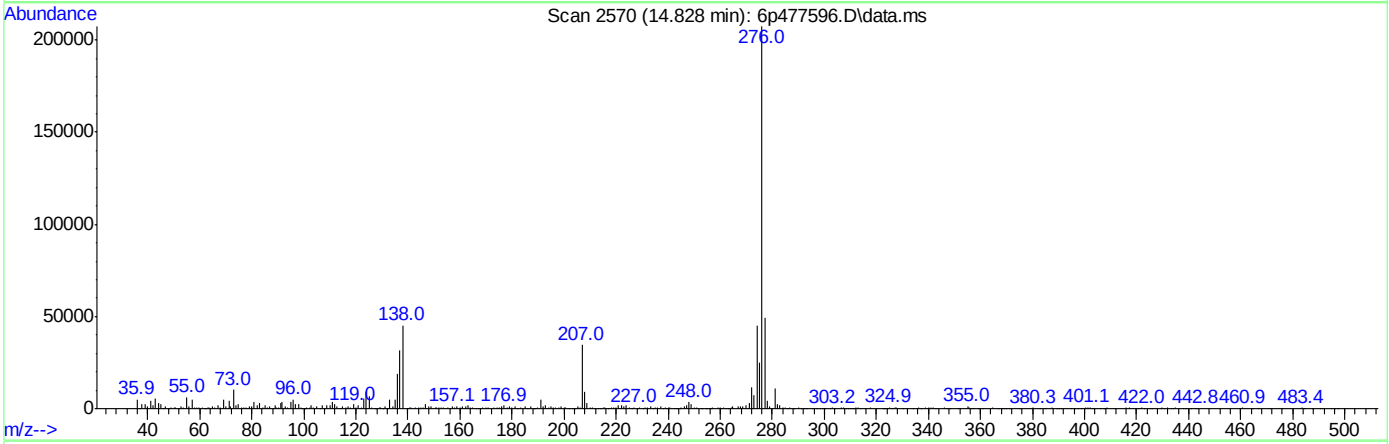
Ion	Exp%	Act%
276.00	100	100
138.00	22.20	42.77
277.00	23.20	25.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477596.D
Acq On : 5 Dec 2018 10:36 pm
Operator : sufiyana
Sample : op17120-bs1
Misc : op17120,e6p2423,1.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 05 22:53:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration





TIC: 6p477596.D\data.ms

(100) Benzo[g,h,i]perylene (t)

14.828min (-0.310) 5.97ppm m

response 321537

Ion	Exp%	Act%
276.00	100	100
138.00	22.20	21.81
277.00	23.20	23.80
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 12/06/18 10:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:52:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.366	152	692225	40.00	ppm		-0.16
24) Naphthalene-d8	5.360	136	2840494	40.00	ppm		-0.18
47) Acenaphthene-d10	7.067	164	1386656	40.00	ppm		-0.21
69) Phenanthrene-d10	8.741	188	2421934	40.00	ppm		-0.22
83) Chrysene-d12	11.918	240	1819827	40.00	ppm		-0.22
91) Perylene-d12	13.528	264	1857819	40.00	ppm		-0.21
101) 1,4-Dichlorobenzene-d4a	4.366	152	692225	40.00	ppm		-0.16
103) Acenaphthene-d10a	7.067	164	1386656	40.00	ppm		-0.21
105) Phenanthrene-d10a	8.741	188	2421934	40.00	ppm		-0.22
109) Chrysene-d12a	11.918	240	1819827	40.00	ppm		-0.22
111) Naphthalene-d8a	5.360	136	2840341	40.00	ppm		-0.18
113) Phenanthrene-d10b	8.741	188	2421934	40.00	ppm		-0.22
115) Chrysene-d12b	11.918	240	1819827	40.00	ppm		-0.22
System Monitoring Compounds							
5) 2-Fluorophenol	3.403	112	56334	2.12	ppm		-0.14
Spiked Amount 50.000			Recovery =	4.24%			
8) Phenol-d5	4.141	99	86371	2.46	ppm		-0.13
Spiked Amount 50.000			Recovery =	4.92%			
25) Nitrobenzene-d5	4.783	82	81423	2.37	ppm		-0.16
Spiked Amount 50.000			Recovery =	4.74%			
51) 2-Fluorobiphenyl	6.366	172	137527	2.65	ppm		-0.20
Spiked Amount 50.000			Recovery =	5.30%			
73) 2,4,6-Tribromophenol	7.949	330	20128	3.30	ppm		-0.21
Spiked Amount 50.000			Recovery =	6.60%			
85) Terphenyl-d14	10.677	244	121337	3.19	ppm		-0.22
Spiked Amount 50.000			Recovery =	6.38%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	1.809	88	30897	2.69	ppm		91
3) Pyridine	2.221	79	44073	1.39	ppm		87
4) N-Nitrosodimethylamine	2.135	74	37353	2.01	ppm		90
6) Indene	4.553	116	138182	3.02	ppm		98
7) Cumene	3.761	105	184150	2.61	ppm		99
9) Phenol	4.152	94	111146	2.84	ppm	#	54
10) Aniline	4.136	93	67967	1.51	ppm	#	43
11) bis(2-Chloroethyl)ether	4.178	93	84025	2.77	ppm		98
12) 2-Chlorophenol	4.226	128	73996	2.77	ppm		99
13) Decane	4.253	43	120239	2.90	ppm		98
14) 1,3-Dichlorobenzene	4.323	146	76562	2.62	ppm		97
15) 1,4-Dichlorobenzene	4.376	146	81425	2.75	ppm		99
16) Benzyl alcohol	4.489	108	38281	2.18	ppm		82
17) 1,2-Dichlorobenzene	4.489	146	75177	2.73	ppm		95
18) Acetophenone	4.670	105	113559	2.74	ppm		92
19) 2-Methylphenol	4.585	108	79493	3.08	ppm		99
20) 2,2'-oxybis(1-Chloropr...	4.574	121	24483	2.75	ppm	#	71
21) 3&4-Methylphenol	4.702	108	141963	5.21	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:52:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.670	70	65458	2.81	ppm		94
23) Hexachloroethane	4.740	201	27356	2.82	ppm		92
26) Nitrobenzene	4.799	77	99545	2.84	ppm		96
27) Quinoline	5.687	129	129359	2.39	ppm		93
28) Isophorone	4.986	82	163908	2.77	ppm		96
29) 2-Nitrophenol	5.050	139	37082	2.63	ppm		90
30) 2,4-Dimethylphenol	5.104	107	76776	2.92	ppm		98
31) Benzoic acid	5.184	105	34716	5.01	ppm		82
32) bis(2-Chloroethoxy)met...	5.162	93	89075	2.45	ppm		93
33) 2,4-Dichlorophenol	5.269	162	54930	2.60	ppm		98
34) 2,6-Dichlorophenol	5.446	162	56446	2.72	ppm		90
36) 1,2,4-Trichlorobenzene	5.318	180	63255	2.74	ppm		94
38) Naphthalene	5.376	128	226873	2.96	ppm		97
39) 4-Chloroaniline	5.441	127	52995	1.61	ppm		88
40) 2,3-Dichloroaniline	6.286	161	69140	2.66	ppm		96
41) Caprolactam	5.735	55	48718	2.94	ppm		97
42) Hexachlorobutadiene	5.494	225	37244	2.89	ppm		94
43) 4-Chloro-3-methylphenol	5.901	107	71285	2.88	ppm		93
44) 2-Methylnaphthalene	6.008	141	129932	3.11	ppm		92
45) 1-Methylnaphthalene	6.098	141	120287	2.62	ppm		98
46) Dimethylnaphthalene	6.628	156	128538	2.72	ppm		92
48) Hexachlorocyclopentadiene	6.163	237	22841	2.05	ppm		95
49) 2,4,6-Trichlorophenol	6.296	196	33195	2.71	ppm		87
50) 2,4,5-Trichlorophenol	6.350	196	38704	2.92	ppm		94
52) 2-Chloronaphthalene	6.484	162	121409	2.73	ppm		99
53) Biphenyl	6.468	154	175475	2.85	ppm		99
54) 2-Nitroaniline	6.601	65	51144	2.80	ppm		96
55) Dimethylphthalate	6.794	163	141551	2.72	ppm		96
56) Acenaphthylene	6.911	152	205562	2.98	ppm		98
57) 2,6-Dinitrotoluene	6.847	165	154371m	13.70	ppm		
58) 3-Nitroaniline	7.045	138	31574	2.22	ppm		78
59) Acenaphthene	7.099	153	141637	2.93	ppm		98
60) 2,4-Dinitrophenol	7.163	184	9931	5.96	ppm	#	80
61) 4-Nitrophenol	7.115	109	15099	2.26	ppm	#	1
62) Dibenzofuran	7.286	168	170838	2.81	ppm		93
63) 2,4-Dinitrotoluene	7.297	165	37963	2.52	ppm		81
64) 2,3,4,6-Tetrachlorophenol	7.446	232	26355	2.64	ppm		85
65) Diethylphthalate	7.575	149	141002	2.81	ppm		94
66) Fluorene	7.666	166	146057	2.94	ppm		99
67) 4-Chlorophenyl-phenyle...	7.682	204	62857	2.68	ppm		89
68) 4-Nitroaniline	7.719	138	27549	1.90	ppm		88
70) 4,6-Dinitro-2-methylph...	7.757	198	14324	3.66	ppm		77
71) n-Nitrosodiphenylamine	7.821	169	122011	3.58	ppm		98
72) 1,2-Diphenylhydrazine	7.858	77	175347	2.94	ppm		99
74) 4-Bromophenyl-phenylether	8.238	248	30498	2.37	ppm		77
75) Hexachlorobenzene	8.302	284	37280	2.60	ppm		86
76) Pentachlorophenol	8.554	266	18851	6.40	ppm		93
77) Phenanthrene	8.767	178	199857	2.95	ppm		97
78) Anthracene	8.826	178	194789	2.85	ppm		98
79) Carbazole	9.040	167	178627	2.72	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:52:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration

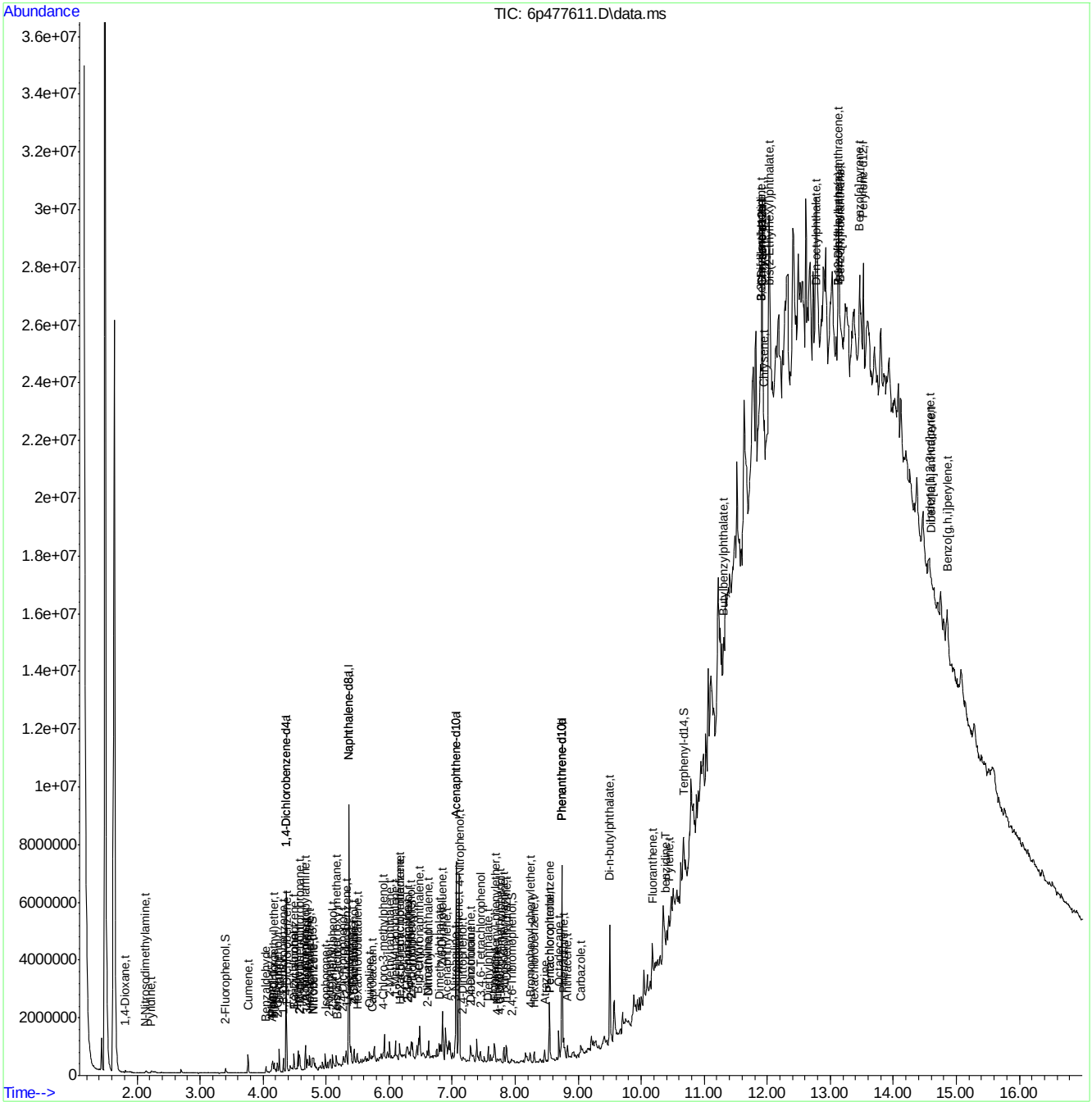
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Di-n-butylphthalate	9.500	149	2084523	27.16	ppm	98
81) Fluoranthene	10.180	202	204667	2.87	ppm	98
82) Octadecane	8.698	57	217566	5.13	ppm	90
84) Pyrene	10.447	202	202191	3.30	ppm	99
86) Butylbenzylphthalate	11.297	149	111726	4.13	ppm	94
87) Benzo[a]anthracene	11.907	228	159224	3.03	ppm	98
88) 3,3'-Dichlorobenzidine	11.907	252	90448	5.03	ppm	92
89) Chrysene	11.950	228	153936	2.79	ppm	96
90) bis(2-Ethylhexyl)phtha...	12.030	149	777763	20.71	ppm	98
92) Di-n-octylphthalate	12.774	149	208195m	3.58	ppm	
93) Benzo[b]fluoranthene	13.132	252	148241	3.03	ppm	69
94) Benzo[k]fluoranthene	13.159	252	131824	2.56	ppm	86
95) Benzo[a]pyrene	13.469	252	122512	2.73	ppm	94
96) Indeno[1,2,3-cd]pyrene	14.581	276	154968	2.80	ppm	77
98) Dibenz[a,h]anthracene	14.597	278	126480	2.76	ppm	92
99) 7,12-Dimethylbenz(a)an...	13.127	256	65028	3.09	ppm	88
100) Benzo[g,h,i]perylene	14.860	276	135183	2.94	ppm	95
102) Benzaldehyde	4.045	105	53786	2.31	ppm	86
104) 1,2,4,5-Tetrachloroben...	6.173	216	58249	3.22	ppm	95
108) Atrazine	8.468	215	17618	2.83	ppm	86
110) benzidine	10.383	184	78057	4.09	ppm	93
114) Pentachloronitrobenzene	8.554	295	6769	2.74	ppm	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:52:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration



Manual Integration Approval Summary

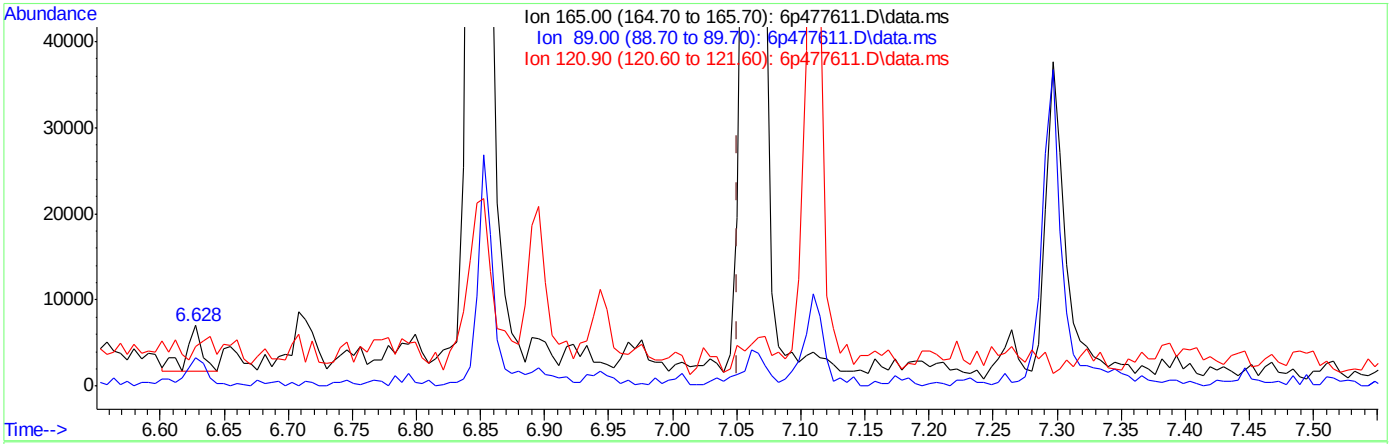
Sample Number:	OP17120-MS	**Method:**	SW846 8270D
Lab FileID:	6P477611.D	**Analyst approved:**	12/06/18 09:06 Ying Li
Injection Time:	12/06/18 04:35	**Supervisor approved:**	12/06/18 10:21 Kristi Schollenberger

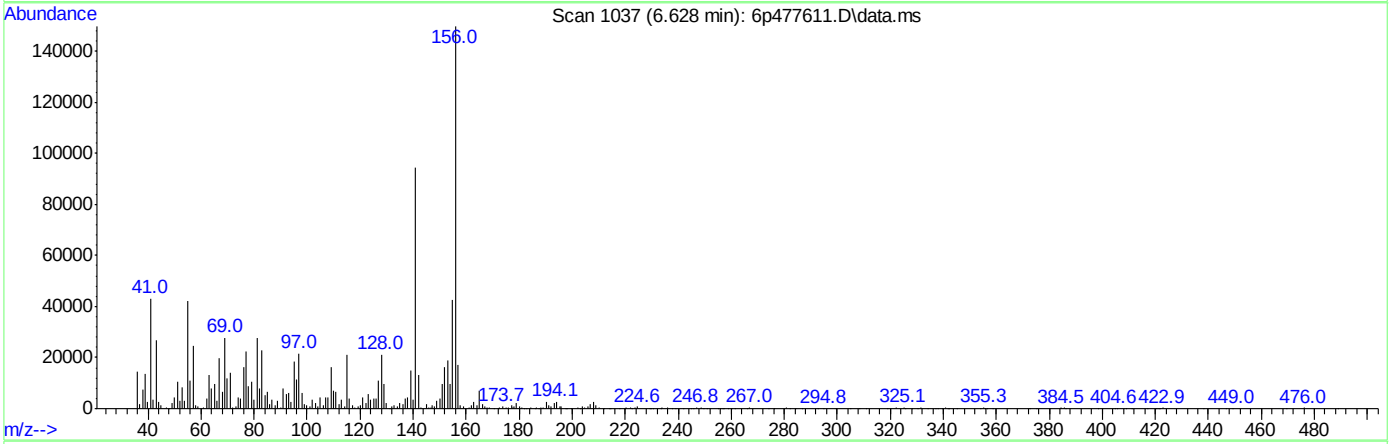
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,6-Dinitrotoluene	606-20-2		6.85	Poor instrument integration
Di-n-octyl phthalate	117-84-0		12.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:47:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration





TIC: 6p477611.D\data.ms

(57) 2,6-Dinitrotoluene (t)

6.628min (-0.423) 0.41ppm

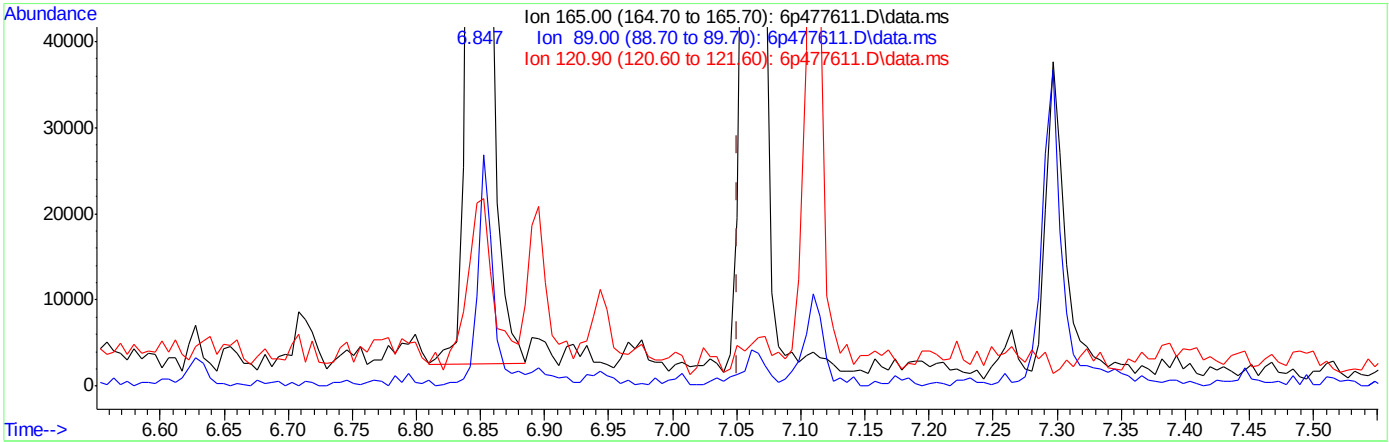
response 4670

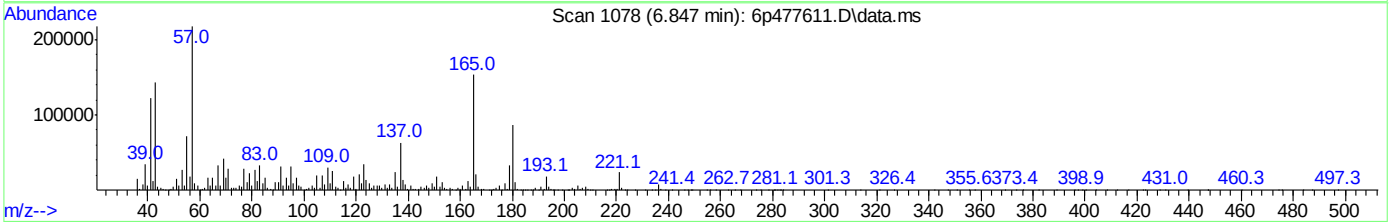
Ion	Exp%	Act%
165.00	100	100
89.00	72.00	51.98
120.90	22.10	0.82
0.00	0.00	0.00

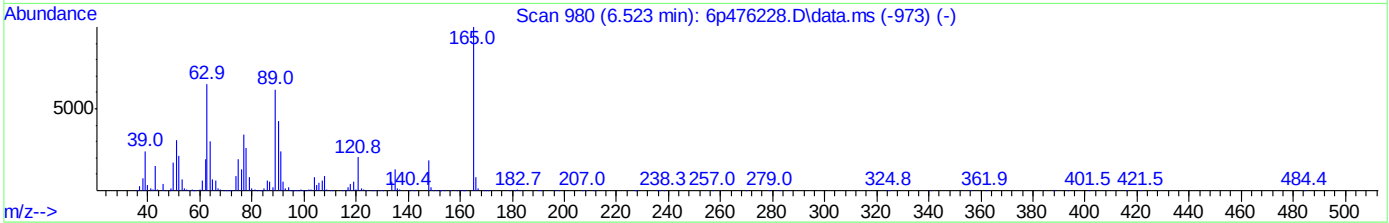
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:47:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration







TIC: 6p477611.D\data.ms

(57) 2,6-Dinitrotoluene (t)

6.847min (-0.203) 13.70ppm m

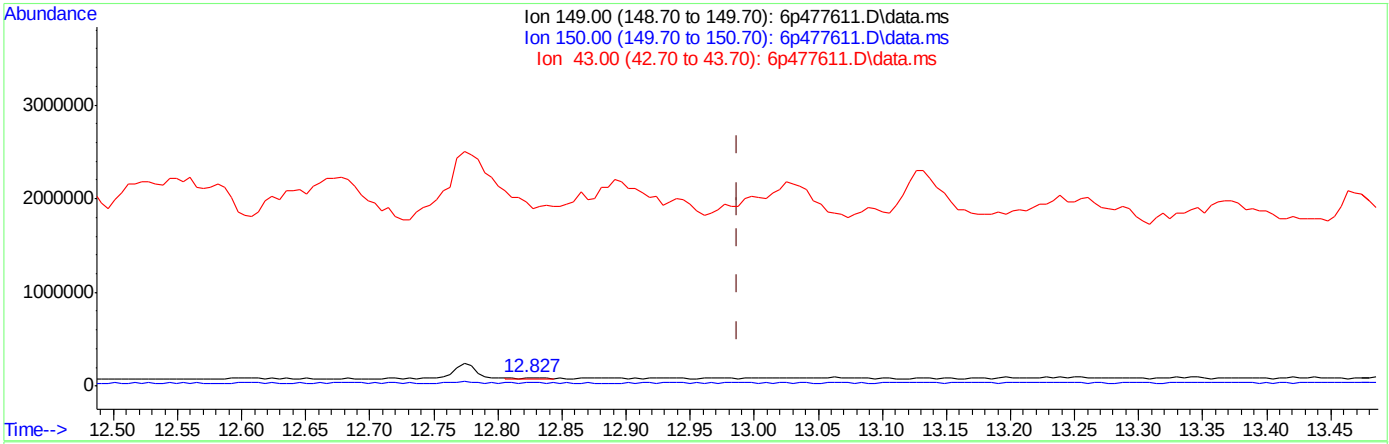
response 154371

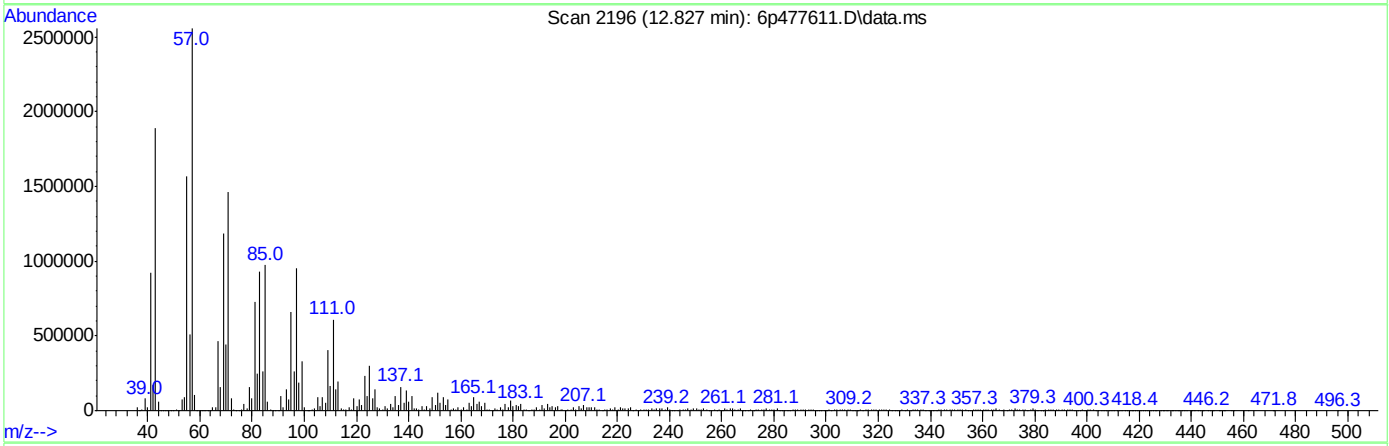
Ion	Exp%	Act%
165.00	100	100
89.00	72.00	6.86#
120.90	22.10	13.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:49:30 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration





TIC: 6p477611.D\data.ms

(92) Di-n-octylphthalate (t)

12.827min (-0.160) 0.30ppm

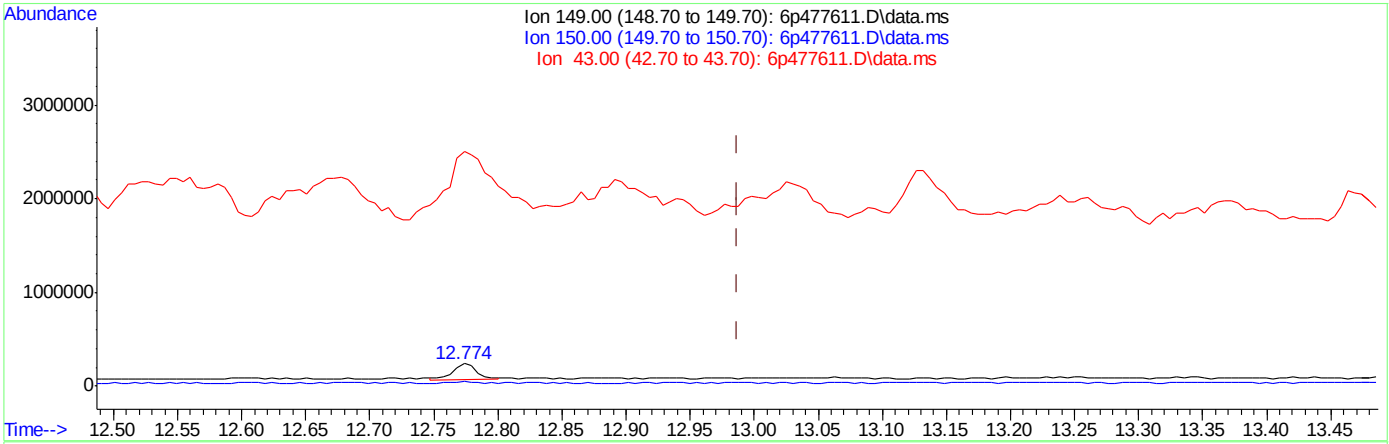
response 17370

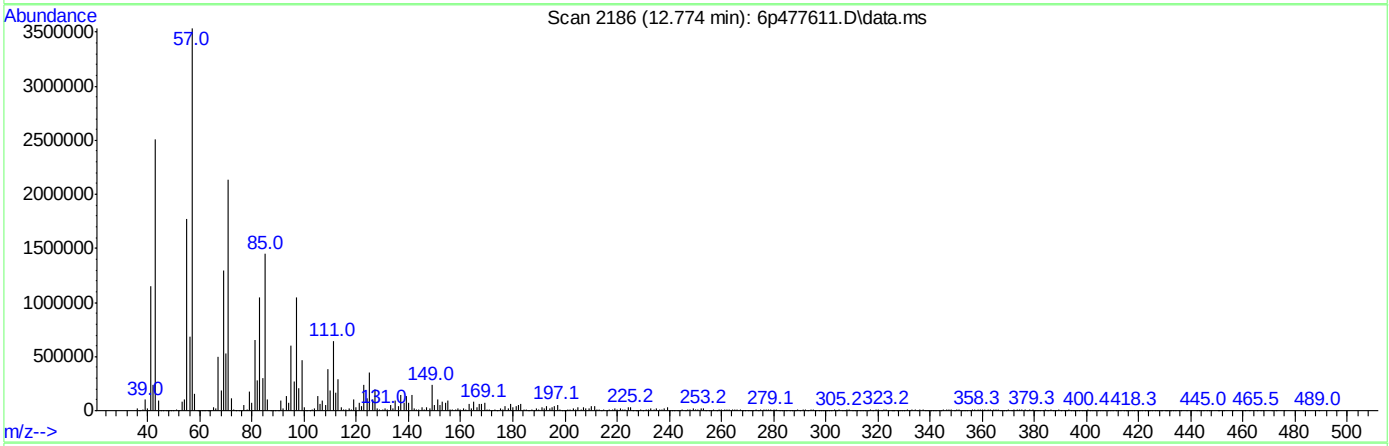
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	19.19
43.00	15.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477611.D
Acq On : 6 Dec 2018 4:35 am
Operator : sufiyana
Sample : op17120-ms
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 08:49:30 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration





TIC: 6p477611.D\data.ms

(92) Di-n-octylphthalate (t)

12.774min (-0.213) 3.58ppm m

response 208195

Ion	Exp%	Act%
149.00	100	100
150.00	10.00	21.51
43.00	15.20	1051.63#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 12/06/18 10:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 09:08:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.365	152	590402	40.00	ppm		-0.16
24) Naphthalene-d8	5.360	136	2470777	40.00	ppm		-0.18
47) Acenaphthene-d10	7.066	164	1217735	40.00	ppm		-0.21
69) Phenanthrene-d10	8.741	188	2113492	40.00	ppm		-0.22
83) Chrysene-d12	11.918	240	1542043	40.00	ppm		-0.22
91) Perylene-d12	13.522	264	1600472	40.00	ppm		-0.22
101) 1,4-Dichlorobenzene-d4a	4.365	152	590402	40.00	ppm		-0.16
103) Acenaphthene-d10a	7.066	164	1217735	40.00	ppm		-0.21
105) Phenanthrene-d10a	8.741	188	2113492	40.00	ppm		-0.22
109) Chrysene-d12a	11.918	240	1542043	40.00	ppm		-0.22
111) Naphthalene-d8a	5.360	136	2470551	40.00	ppm		-0.18
113) Phenanthrene-d10b	8.741	188	2113492	40.00	ppm		-0.22
115) Chrysene-d12b	11.918	240	1542043	40.00	ppm		-0.22
System Monitoring Compounds							
5) 2-Fluorophenol	3.403	112	53757	2.37	ppm		-0.14
Spiked Amount 50.000			Recovery =	4.74%			
8) Phenol-d5	4.141	99	82570	2.76	ppm		-0.13
Spiked Amount 50.000			Recovery =	5.52%			
25) Nitrobenzene-d5	4.783	82	81716	2.74	ppm		-0.16
Spiked Amount 50.000			Recovery =	5.48%			
51) 2-Fluorobiphenyl	6.366	172	132708	2.92	ppm		-0.20
Spiked Amount 50.000			Recovery =	5.84%			
73) 2,4,6-Tribromophenol	7.949	330	17120	3.22	ppm		-0.21
Spiked Amount 50.000			Recovery =	6.44%			
85) Terphenyl-d14	10.677	244	111683	3.46	ppm		-0.22
Spiked Amount 50.000			Recovery =	6.92%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	1.803	88	25505	2.60	ppm		68
3) Pyridine	2.226	79	35851	1.33	ppm		96
4) N-Nitrosodimethylamine	2.140	74	27844	1.76	ppm		81
6) Indene	4.553	116	125210	3.21	ppm		97
7) Cumene	3.761	105	171390	2.84	ppm		98
9) Phenol	4.152	94	103197	3.10	ppm	#	59
10) Aniline	4.135	93	63168	1.64	ppm	#	47
11) bis(2-Chloroethyl)ether	4.178	93	80287	3.10	ppm		99
12) 2-Chlorophenol	4.226	128	66300	2.91	ppm		93
13) Decane	4.253	43	108389	3.07	ppm		98
14) 1,3-Dichlorobenzene	4.323	146	68121	2.73	ppm		90
15) 1,4-Dichlorobenzene	4.376	146	76182	3.02	ppm		91
16) Benzyl alcohol	4.488	108	21286	1.42	ppm		78
17) 1,2-Dichlorobenzene	4.488	146	68607	2.92	ppm		96
18) Acetophenone	4.670	105	103428	2.92	ppm		94
19) 2-Methylphenol	4.585	108	69545	3.16	ppm		89
20) 2,2'-oxybis(1-Chloropr...	4.574	121	23699	3.12	ppm	#	86
21) 3&4-Methylphenol	4.702	108	130456	5.62	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 09:08:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22)	n-Nitroso-di-n-propyla...	4.670	70	60968	3.07	ppm		98
23)	Hexachloroethane	4.740	201	23453	2.83	ppm		89
26)	Nitrobenzene	4.799	77	86889	2.85	ppm		97
27)	Quinoline	5.687	129	129336	2.75	ppm		97
28)	Isophorone	4.986	82	150387	2.92	ppm		98
29)	2-Nitrophenol	5.050	139	34062	2.78	ppm		89
30)	2,4-Dimethylphenol	5.104	107	73806	3.23	ppm		92
31)	Benzoic acid	5.184	105	34684	5.27	ppm		86
32)	bis(2-Chloroethoxy)met...	5.162	93	95359	3.02	ppm		93
33)	2,4-Dichlorophenol	5.269	162	54697	2.98	ppm		94
34)	2,6-Dichlorophenol	5.446	162	54917	3.04	ppm		92
36)	1,2,4-Trichlorobenzene	5.317	180	56117	2.79	ppm		99
38)	Naphthalene	5.376	128	203141	3.04	ppm		97
39)	4-Chloroaniline	5.441	127	56447	1.97	ppm		94
40)	2,3-Dichloroaniline	6.286	161	61231	2.71	ppm		81
41)	Caprolactam	5.735	55	47502	3.30	ppm		86
42)	Hexachlorobutadiene	5.494	225	31716	2.83	ppm		94
43)	4-Chloro-3-methylphenol	5.901	107	69199	3.21	ppm		91
44)	2-Methylnaphthalene	6.007	141	116445	3.20	ppm		96
45)	1-Methylnaphthalene	6.098	141	109524	2.74	ppm		96
46)	Dimethylnaphthalene	6.628	156	121807	2.97	ppm		92
48)	Hexachlorocyclopentadiene	6.163	237	19767	2.02	ppm		91
49)	2,4,6-Trichlorophenol	6.296	196	33649	3.13	ppm		97
50)	2,4,5-Trichlorophenol	6.350	196	35879	3.09	ppm		96
52)	2-Chloronaphthalene	6.484	162	108203	2.77	ppm		97
53)	Biphenyl	6.467	154	168503	3.12	ppm		95
54)	2-Nitroaniline	6.601	65	48199	3.00	ppm		81
55)	Dimethylphthalate	6.794	163	138163	3.03	ppm		99
56)	Acenaphthylene	6.911	152	184123	3.04	ppm		99
57)	2,6-Dinitrotoluene	6.847	165	156600	15.82	ppm	#	35
58)	3-Nitroaniline	7.040	138	27850	2.23	ppm		88
59)	Acenaphthene	7.099	153	135612	3.20	ppm		94
60)	2,4-Dinitrophenol	7.168	184	7702	5.72	ppm	#	54
61)	4-Nitrophenol	7.109	109	15189	2.59	ppm	#	1
62)	Dibenzofuran	7.286	168	166696	3.12	ppm		96
63)	2,4-Dinitrotoluene	7.297	165	33782	2.55	ppm		100
64)	2,3,4,6-Tetrachlorophenol	7.446	232	30090	3.44	ppm		92
65)	Diethylphthalate	7.575	149	127508	2.90	ppm		97
66)	Fluorene	7.671	166	128430	2.94	ppm		98
67)	4-Chlorophenyl-phenyle...	7.682	204	58478	2.84	ppm		94
68)	4-Nitroaniline	7.719	138	26685	2.10	ppm		87
70)	4,6-Dinitro-2-methylph...	7.756	198	11439	3.49	ppm		83
71)	n-Nitrosodiphenylamine	7.821	169	120590	4.05	ppm		93
72)	1,2-Diphenylhydrazine	7.858	77	164170	3.16	ppm		95
74)	4-Bromophenyl-phenylether	8.238	248	32139	2.87	ppm		85
75)	Hexachlorobenzene	8.302	284	36740	2.93	ppm		98
76)	Pentachlorophenol	8.553	266	16947	6.47	ppm		83
77)	Phenanthrene	8.767	178	193546	3.27	ppm		97
78)	Anthracene	8.832	178	185145	3.11	ppm		96
79)	Carbazole	9.040	167	182405	3.18	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 09:08:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration

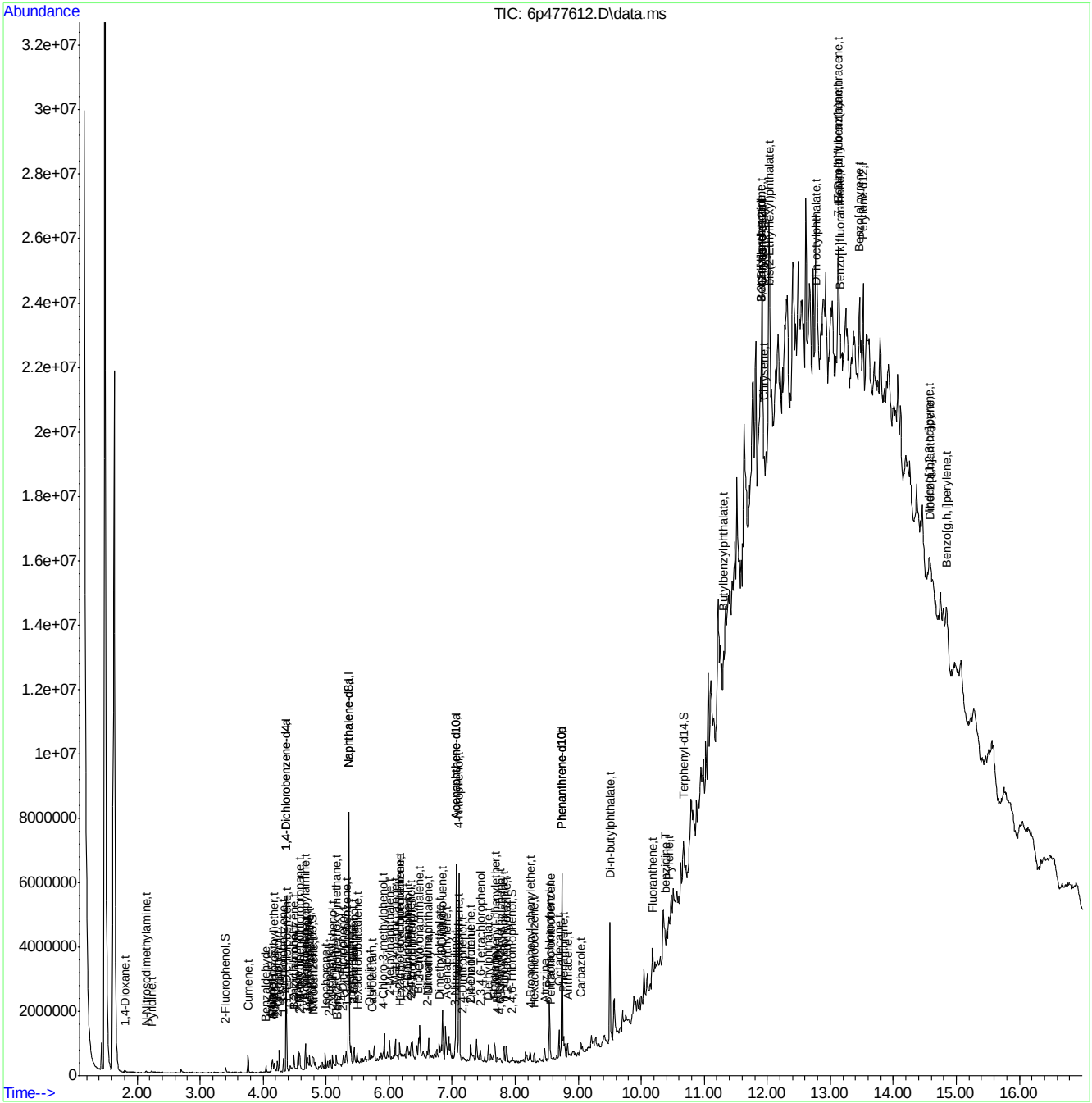
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Di-n-butylphthalate	9.505	149	1972290m	29.45	ppm		
81) Fluoranthene	10.185	202	172358	2.77	ppm		94
82) Octadecane	8.698	57	191429	5.17	ppm		97
84) Pyrene	10.447	202	184644	3.56	ppm		96
86) Butylbenzylphthalate	11.303	149	95404	4.17	ppm		93
87) Benzo[a]anthracene	11.907	228	144636	3.25	ppm		97
88) 3,3'-Dichlorobenzidine	11.907	252	84077	5.52	ppm		91
89) Chrysene	11.950	228	136760	2.93	ppm		97
90) bis(2-Ethylhexyl)phtha...	12.030	149	734039	23.06	ppm		98
92) Di-n-octylphthalate	12.774	149	199278m	3.98	ppm		
93) Benzo[b]fluoranthene	13.127	252	135120	3.20	ppm		85
94) Benzo[k]fluoranthene	13.159	252	121755	2.74	ppm		90
95) Benzo[a]pyrene	13.463	252	112548	2.91	ppm		96
96) Indeno[1,2,3-cd]pyrene	14.576	276	136364	2.86	ppm		84
98) Dibenz[a,h]anthracene	14.592	278	115974	2.93	ppm		99
99) 7,12-Dimethylbenz(a)an...	13.121	256	62286	3.44	ppm		87
100) Benzo[g,h,i]perylene	14.854	276	119106	3.00	ppm		93
102) Benzaldehyde	4.045	105	45751	2.30	ppm		92
104) 1,2,4,5-Tetrachloroben...	6.173	216	58650	3.69	ppm		93
108) Atrazine	8.468	215	19120	3.51	ppm	#	79
110) benzidine	10.383	184	72089	4.25	ppm		95
114) Pentachloronitrobenzene	8.559	295	6365	2.95	ppm		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 09:08:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration



Manual Integration Approval Summary

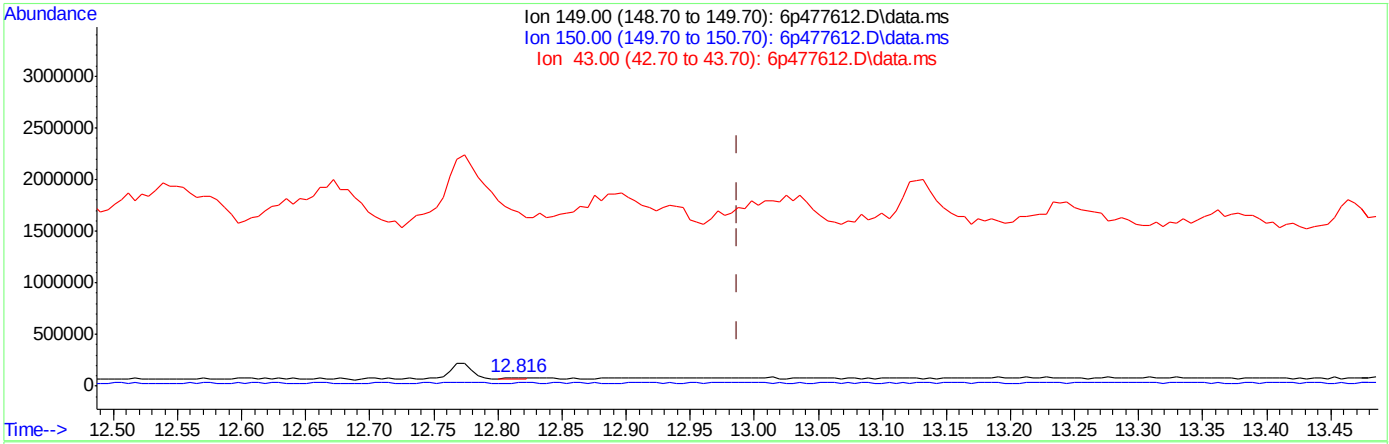
Sample Number:	OP17120-MSD	**Method:**	SW846 8270D
Lab FileID:	6P477612.D	**Analyst approved:**	12/06/18 09:10 Ying Li
Injection Time:	12/06/18 04:59	**Supervisor approved:**	12/06/18 10:21 Kristi Schollenberger

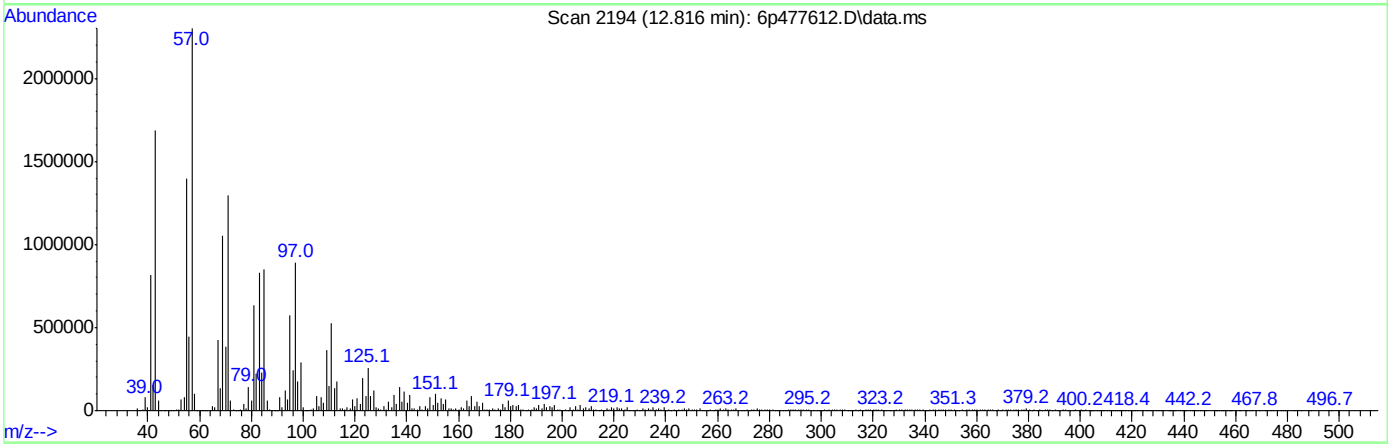
Parameter	CAS	Sig#	R.T. (min.)	Reason
Di-n-butyl phthalate	84-74-2		9.51	Missed peak
Di-n-octyl phthalate	117-84-0		12.77	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 08:48:38 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration





TIC: 6p477612.D\data.ms

(92) Di-n-octylphthalate (t)

12.816min (-0.171) 0.26ppm

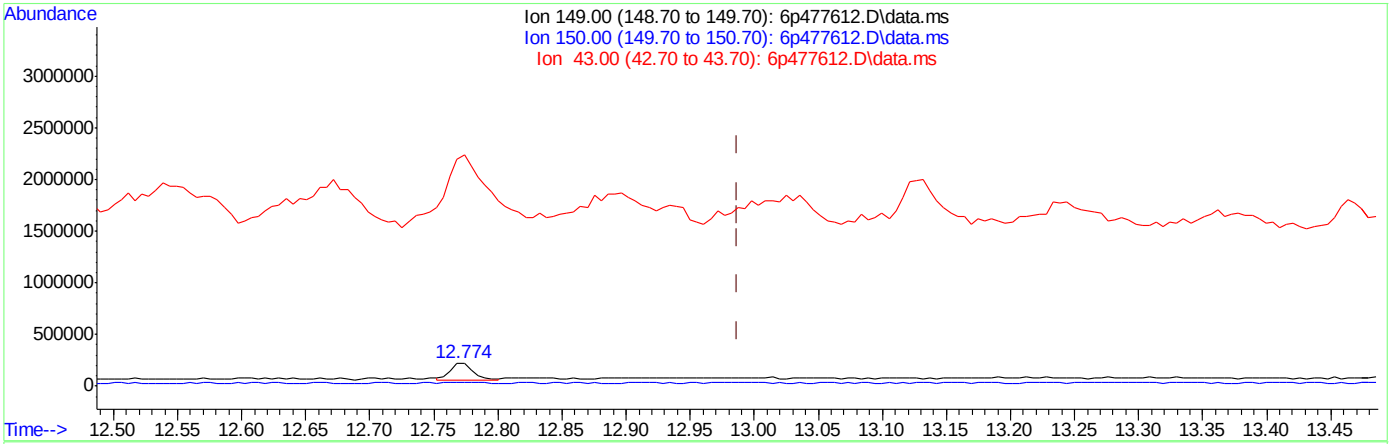
response 12852

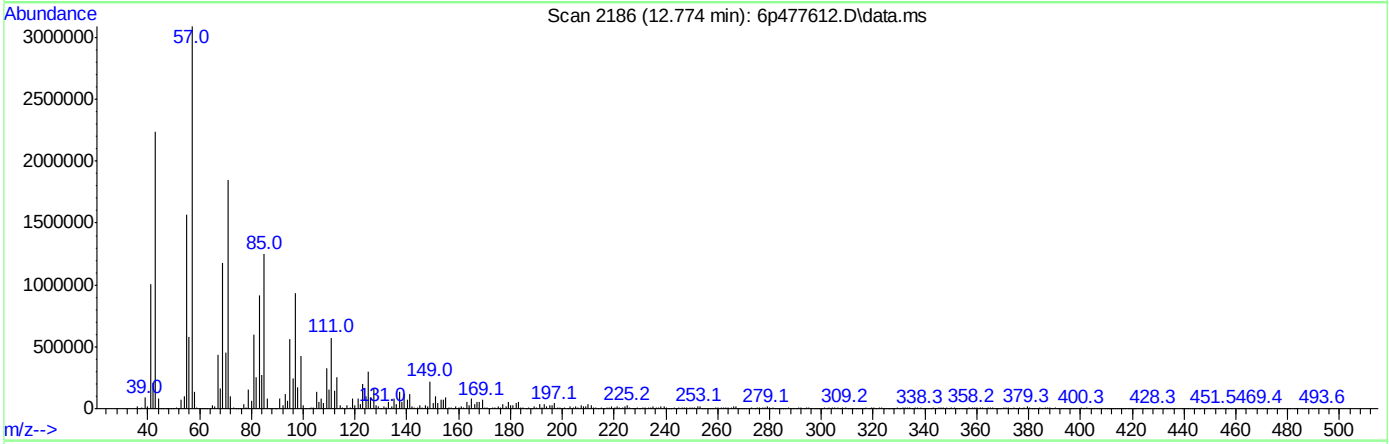
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	0.00
43.00	15.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 08:48:38 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration





TIC: 6p477612.D\data.ms

(92) Di-n-octylphthalate (t)

12.774min (-0.213) 3.98ppm m

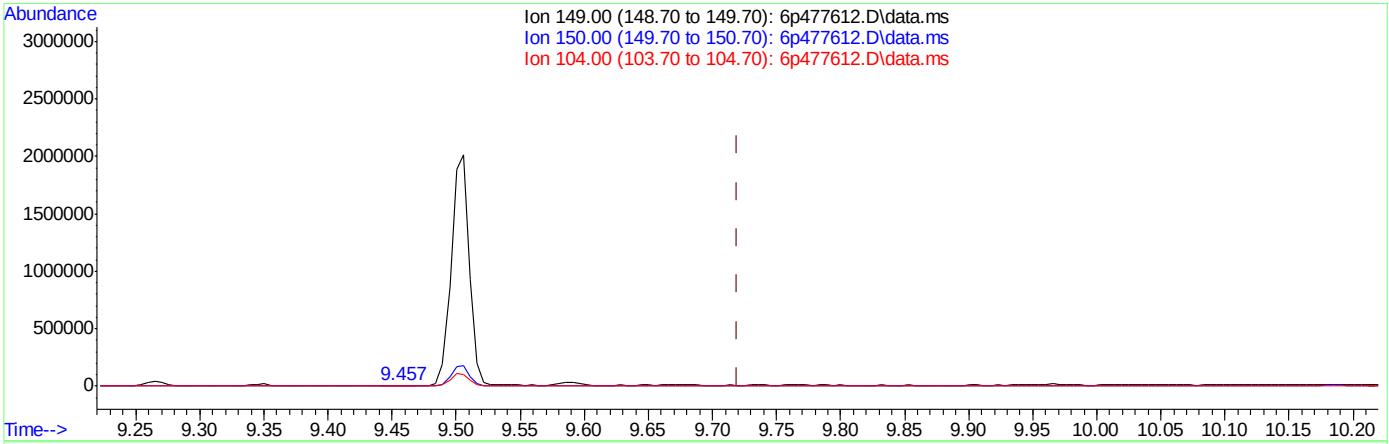
response 199278

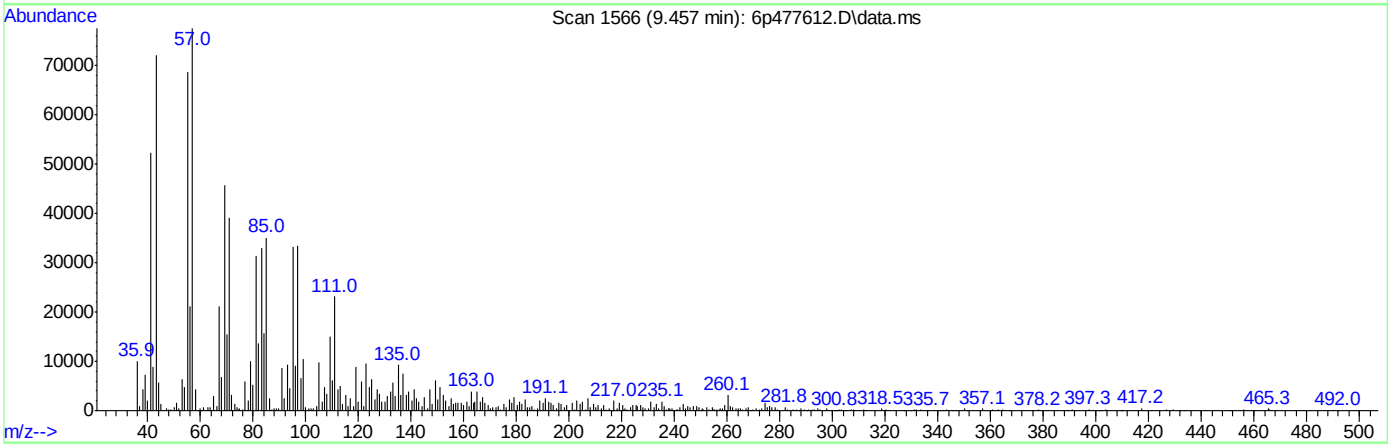
Ion	Exp%	Act%
149.00	100	100
150.00	10.00	18.78
43.00	15.20	1011.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 08:52:49 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration





TIC: 6p477612.D\data.ms

(80) Di-n-butylphthalate (t)

9.457min (-0.262) 0.02ppm

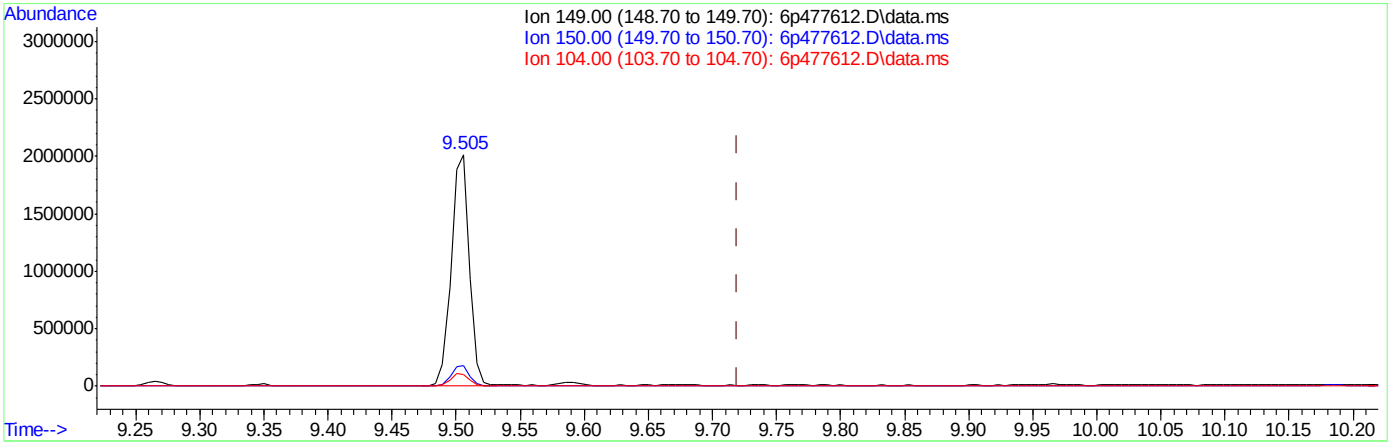
response 1061

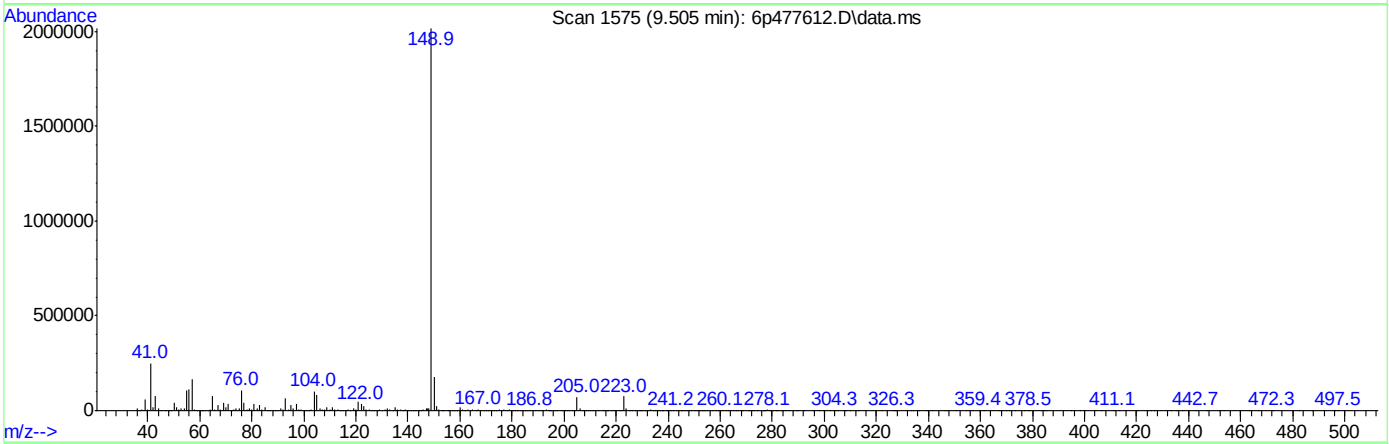
Ion	Exp%	Act%
149.00	100	100
150.00	9.30	11.09
104.00	5.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477612.D
Acq On : 6 Dec 2018 4:59 am
Operator : sufiyana
Sample : op17120-msd
Misc : op17120,e6p2423,1.0,,,10,2
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 08:52:49 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Dec 06 08:43:09 2018
QLast Update : Thu Dec 06 08:43:09 2018
Response via : Initial Calibration





TIC: 6p477612.D\data.ms

(80) Di-n-butylphthalate (t)

9.505min (-0.214) 29.45ppm m

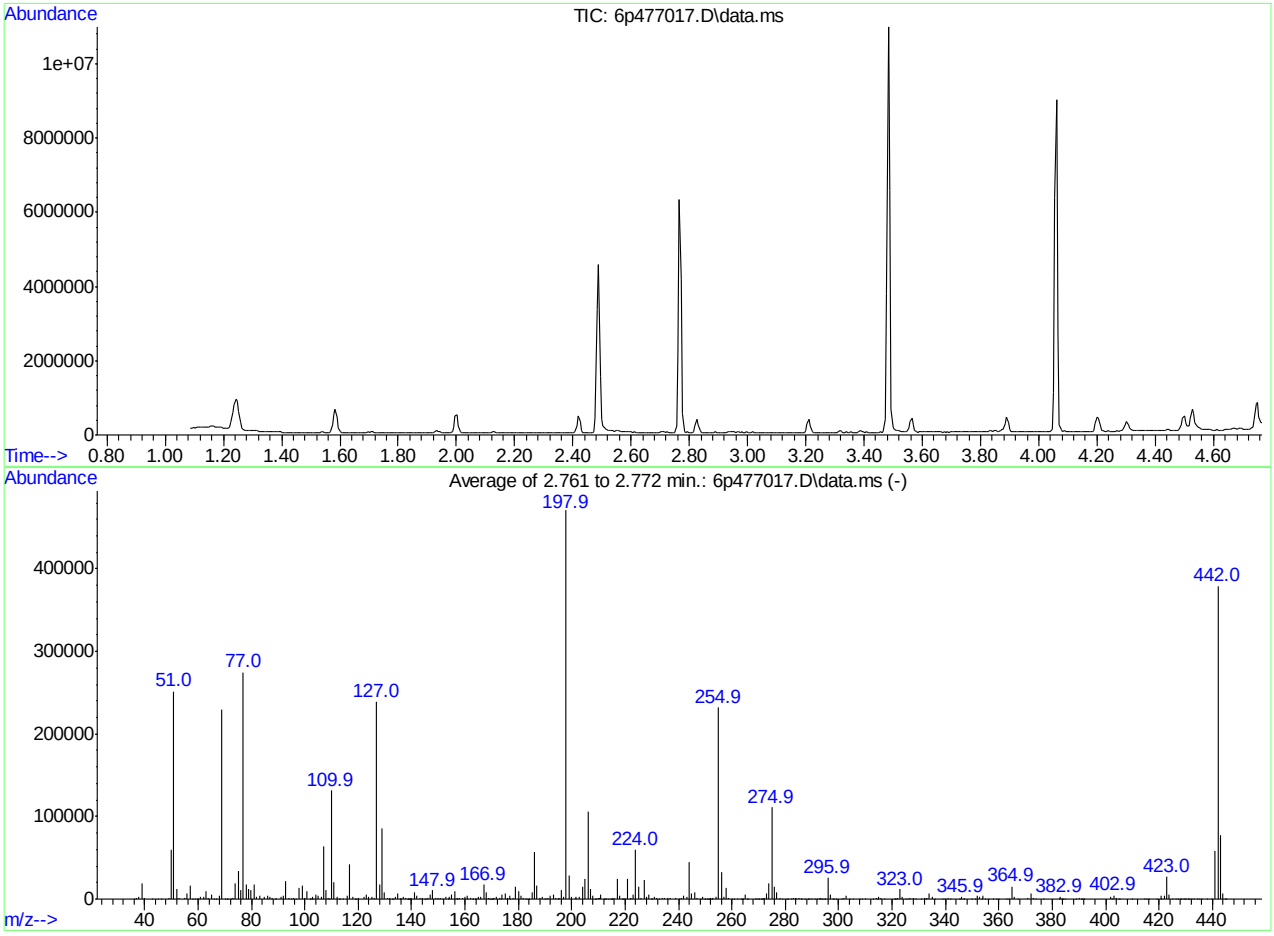
response 1972290

Ion	Exp%	Act%
149.00	100	100
150.00	9.30	8.73
104.00	5.40	5.02
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E6P2400\6p477017.D Vial: 1
Acq On : 15 Nov 2018 11:27 am Operator: angelar
Sample : dftpp Inst : MS6P
Misc : op16488,e6p2400,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 307

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.4	251277	PASS
68	69	0.00	2	2.0	4507	PASS
69	198	0.00	100	48.9	230085	PASS
70	69	0.00	2	0.1	195	PASS
127	198	40	60	50.7	238656	PASS
197	198	0.00	1	0.6	2802	PASS
198	198	100	100	100.0	470784	PASS
199	198	5	9	6.2	29149	PASS
275	198	10	30	23.6	110954	PASS
365	198	1	100	3.3	15513	PASS
441	443	0.10	100	74.7	57982	PASS
442	198	40	100	80.6	379498	PASS
443	442	17	23	20.4	77605	PASS

6p477017.D DFTPP6P.M Fri Nov 16 13:49:11 2018 ACLIMS

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	416	51.95	12556	63.00	9989	72.85	1711
37.00	738	52.85	988	63.95	1299	73.95	19384
37.85	2194	55.00	879	64.95	4864	74.90	34033
38.95	19153	55.90	6916	65.95	621	75.95	10679
39.90	1134	57.00	15710	66.80	636	76.95	274688
42.95	323	57.85	660	68.00	4507	78.00	17905
44.95	456	58.85	252	68.90	230085	78.90	12455
46.00	120	59.40	135	69.90	195	79.90	10774
48.90	906	59.90	347	70.90	403	80.85	17369
50.00	59656	60.95	2355	71.10	398	81.90	2841
50.95	251277	62.00	2780	72.20	283	82.90	4656

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
84.95	3091	95.85	1534	104.95	4516	114.00	252
85.85	3915	96.60	160	106.00	2170	115.95	3504
87.00	2140	97.90	14178	106.90	63705	116.90	41882
87.85	906	98.95	15972	107.95	11001	117.95	3107
88.80	168	99.90	1350	108.85	1431	118.80	166
89.00	257	100.90	9053	109.10	357	119.40	147
90.90	3190	101.80	132	109.90	131649	119.90	1177
91.90	3663	102.00	321	110.90	20013	121.95	3211
92.90	21652	102.80	661	111.95	2360	122.90	5292
93.85	1553	102.95	2564	112.80	586	123.90	2522
94.95	397	103.95	4909	113.00	432	124.90	2688

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.05	1496	135.80	403	142.95	2063	152.95	2809
126.95	238656	136.00	1478	143.95	761	153.70	403
127.95	17692	136.90	3028	144.85	488	153.95	2169
128.90	84968	137.90	811	145.10	106	154.95	5181
129.90	7929	138.45	331	145.95	1962	156.00	9012
130.95	1538	138.70	223	146.90	4948	156.90	893
131.95	1406	138.95	345	147.95	10581	157.20	433
132.50	281	139.20	156	148.95	1956	157.90	1772
133.00	704	139.90	904	149.85	870	158.95	1557
133.90	2601	140.95	8248	150.85	914	159.90	2773
134.95	7054	142.00	3818	151.50	630	160.80	472

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
160.95	3816	169.10	413	176.60	418	184.95	7717
161.90	1390	169.70	162	176.90	3663	186.00	57594
162.80	609	169.90	129	177.95	1515	187.00	16404
163.00	132	170.30	258	178.90	14478	187.95	1703
163.80	247	170.75	761	180.00	9137	188.90	2562
164.10	374	171.85	2157	180.95	4711	189.90	365
164.95	2713	172.95	2037	181.95	858	190.20	296
165.90	2820	173.20	412	182.50	146	191.05	1868
166.90	17181	173.95	5059	183.10	329	191.95	4313
167.95	7913	174.95	7413	183.90	469	192.95	5160
168.80	1273	175.85	2038	184.10	583	193.95	943

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
194.80	399	205.00	24070	212.90	183	220.00	393
195.10	861	206.00	105616	213.75	247	220.90	24490
195.95	11508	207.00	12246	214.50	167	221.60	570
197.05	2802	208.00	3706	214.80	493	222.00	1948

197.90	470784	208.85	721	215.00	315	222.90	5653
198.90	29149	209.10	314	215.95	1787	224.00	59205
199.95	2286	209.95	1498	216.90	25037	224.95	14733
201.40	2444	210.50	875	217.90	3558	226.00	1476
201.70	955	210.95	4840	218.95	439	226.95	23258
202.90	2402	211.90	632	219.20	178	227.95	2884
203.95	15347	212.40	171	219.80	283	228.90	5357

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.80	260	240.95	1414	250.80	215	258.85	1889
229.95	621	241.95	3871	251.00	144	259.95	322
230.95	2205	242.95	3004	251.50	170	260.85	295
231.95	791	244.00	44754	251.95	918	261.85	261
232.80	493	245.00	6270	252.40	182	263.10	114
233.80	1601	245.90	7530	252.95	1551	263.50	171
234.90	1697	246.95	1761	254.00	2325	264.00	508
236.00	1120	248.00	527	254.90	232112	264.90	4926
236.95	1721	248.95	2304	256.00	33269	265.80	476
238.80	928	249.70	271	256.95	3004	265.95	618
240.00	723	250.00	218	258.00	12944	268.90	186

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
269.20	107	276.90	8589	286.10	104	294.60	221
269.90	196	277.95	1654	287.20	107	294.90	252
270.10	115	278.80	496	288.50	126	295.95	25716
270.70	212	280.70	229	289.05	369	296.95	4857
271.05	482	281.00	3	289.80	607	297.80	102
271.60	195	282.05	602	290.90	241	298.00	208
271.90	739	282.85	1478	292.00	367	298.80	249
272.95	7497	283.80	100	292.50	132	300.95	447
273.90	19266	283.95	946	292.90	2072	302.00	861
274.95	110954	284.95	1285	293.60	138	302.95	3745
276.00	15514	285.80	200	294.05	463	303.95	648

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
305.10	137	321.10	672	332.05	937	345.50	102
307.95	660	321.40	230	332.60	149	345.95	2186
308.70	209	321.95	761	332.95	889	346.70	210
310.05	335	323.00	11750	333.95	6546	347.00	451
313.00	473	323.95	2849	334.95	2902	349.80	141
313.90	1536	324.90	418	335.95	644	350.95	314
314.70	347	325.90	117	339.00	355	351.95	3871
314.90	2734	326.85	2009	339.90	135	352.90	2494
315.85	1607	327.80	810	340.85	1415	353.50	207
317.00	530	328.90	466	341.80	378	353.95	4224
320.80	501	330.80	123	345.10	195	354.95	371

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
356.00	101	372.90	1483	390.85	305	414.60	176
357.80	137	373.95	378	391.10	159	415.30	164
358.95	386	376.80	236	391.60	171	416.20	114
360.00	129	382.60	124	392.00	704	419.20	140
363.00	214	382.90	2181	401.85	2203	420.80	301
363.80	192	383.40	179	402.10	280	420.95	4485
364.90	15513	383.80	124	402.95	4720	421.95	3817
365.85	2386	384.00	443	404.00	1481	423.00	27059
367.00	185	384.80	231	404.90	425	423.90	4916
370.95	1129	388.70	140	405.10	185	424.85	417
372.00	7395	389.95	1220	409.90	125	426.40	279

Average of 2.761 to 2.772 min.: 6p477017.D\data.ms

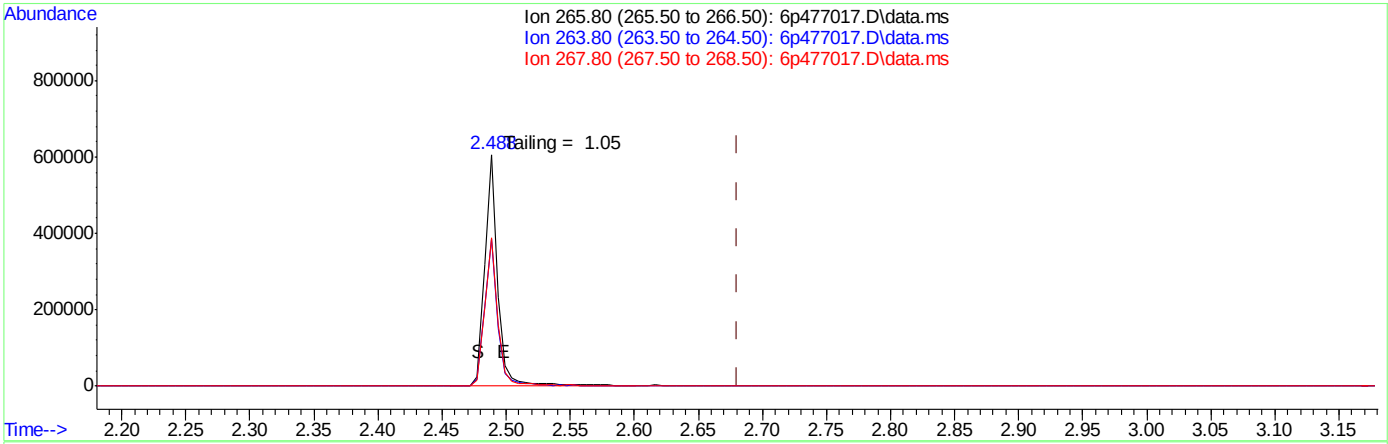
dftpp
Modified:subtracted

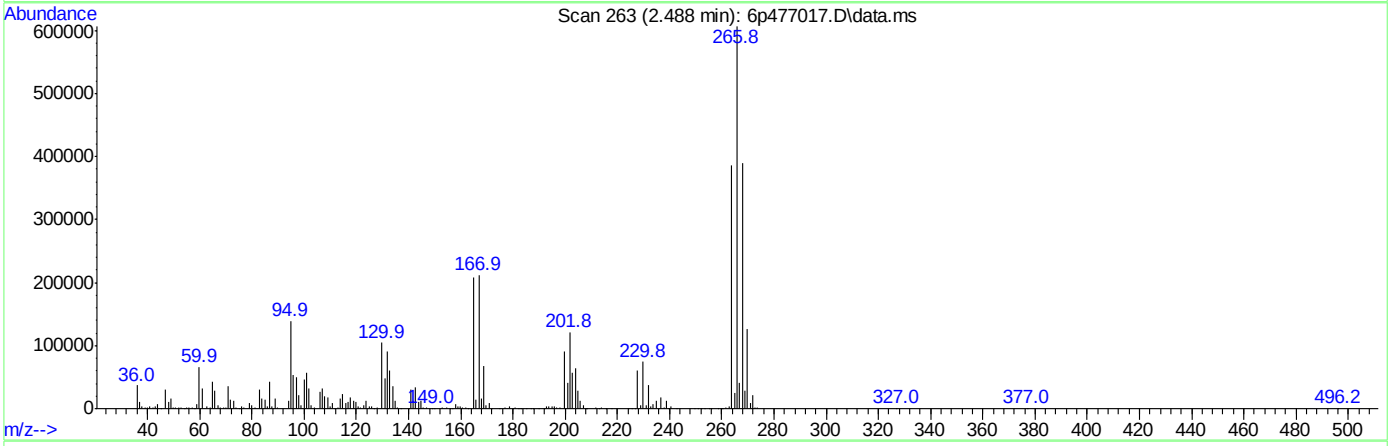
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
427.00	107	435.20	493				
427.95	430	436.05	320				
428.30	117	437.80	210				
429.30	110	439.60	113				
429.50	181	441.00	57982				
429.90	118	442.00	379498				
430.70	351	442.95	77605				
431.40	194	443.95	6823				
432.30	177	444.80	247				
433.10	221	445.00	231				
434.20	159						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477017.D
Acq On : 15 Nov 2018 11:27 am
Operator : angelar
Sample : dftpp
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 15 11:33:00 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477017.D\data.ms

(1) Pentachlorophenol (t)

2.488min (-0.192) 0.00ppb

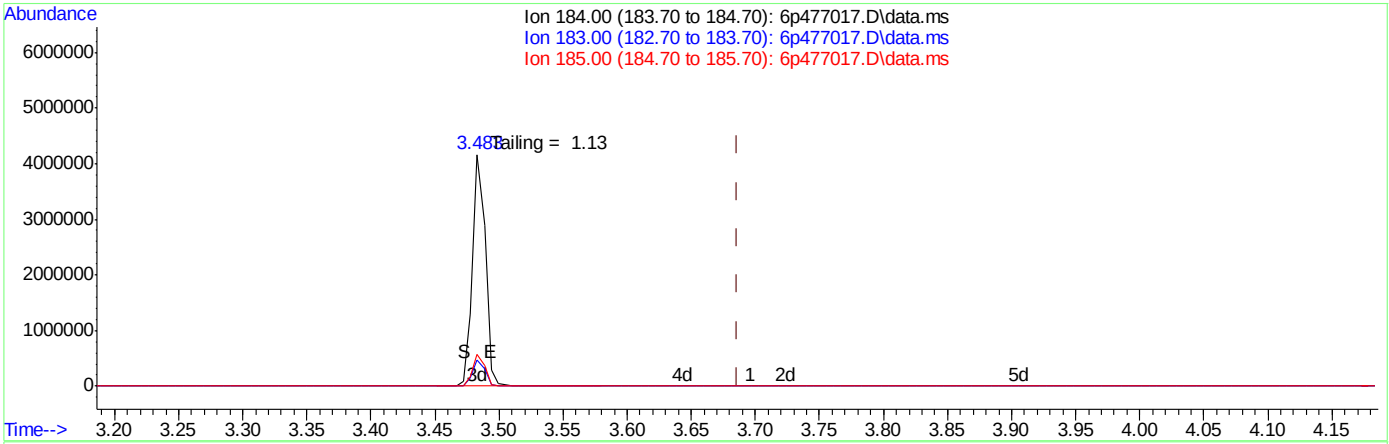
response 435690

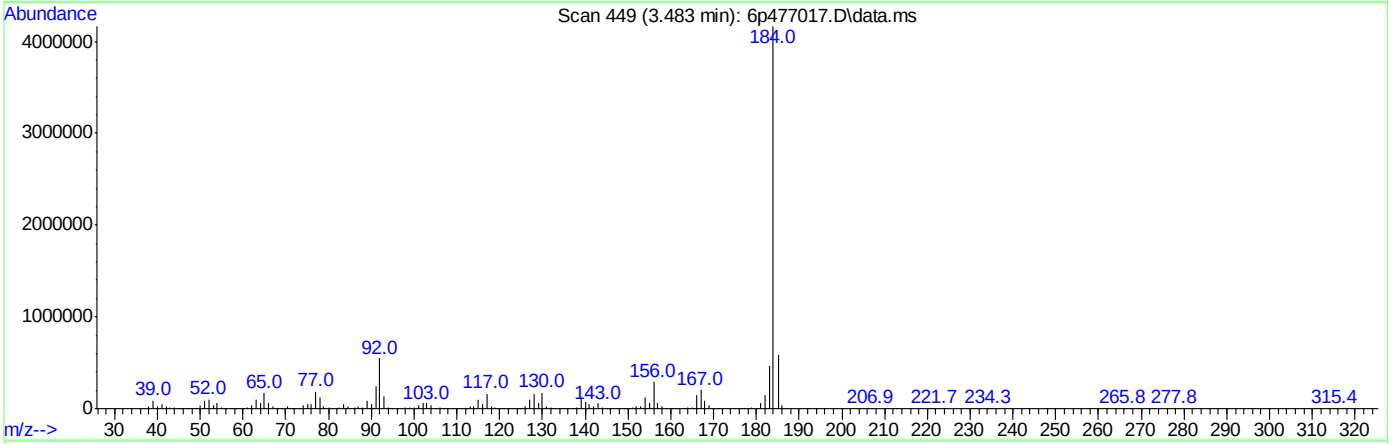
Ion	Exp%	Act%
265.80	100	100
263.80	63.40	63.62
267.80	63.30	64.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477017.D
Acq On : 15 Nov 2018 11:27 am
Operator : angelar
Sample : dftpp
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 15 11:33:00 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477017.D\data.ms

(2) Benzidine (t)

3.483min (-0.203) 0.00ppb m

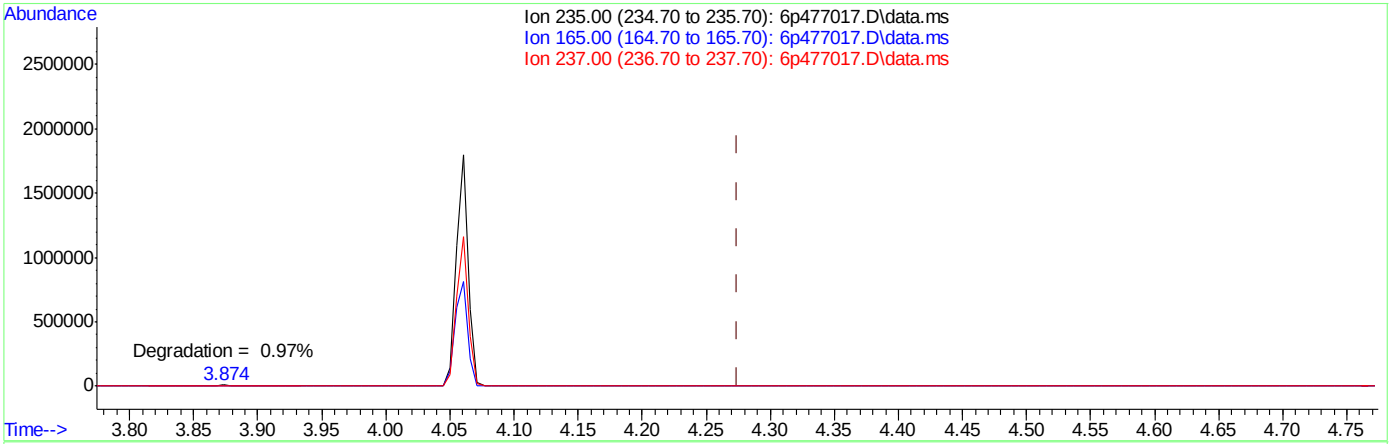
response 2868879

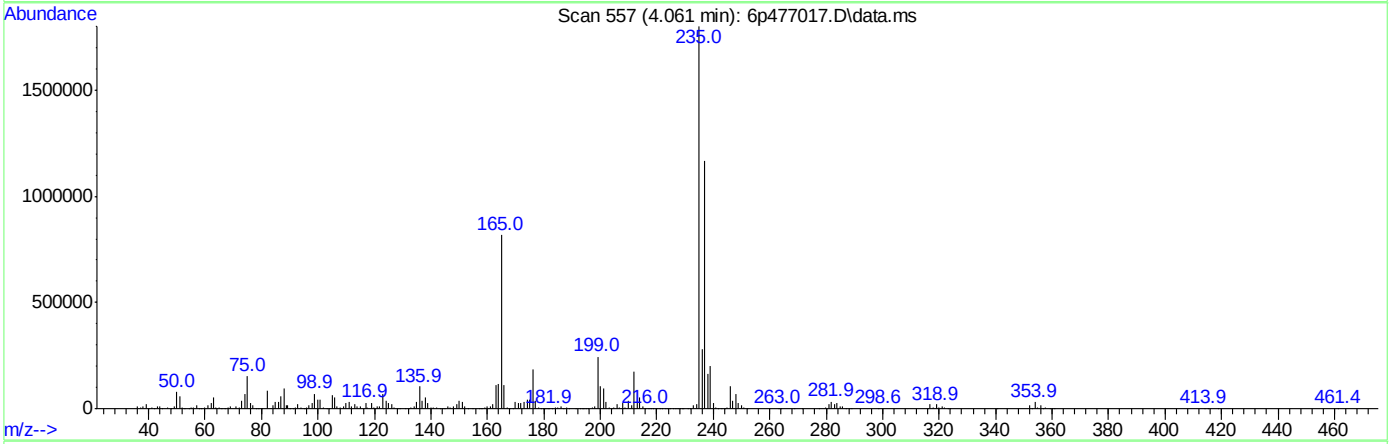
Ion	Exp%	Act%
184.00	100	100
183.00	11.90	11.13
185.00	14.20	13.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477017.D
Acq On : 15 Nov 2018 11:27 am
Operator : angelar
Sample : dftpp
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 15 11:33:00 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477017.D\data.ms

(3) PP-DDT (t)

4.061min (-0.214) 0.00ppb

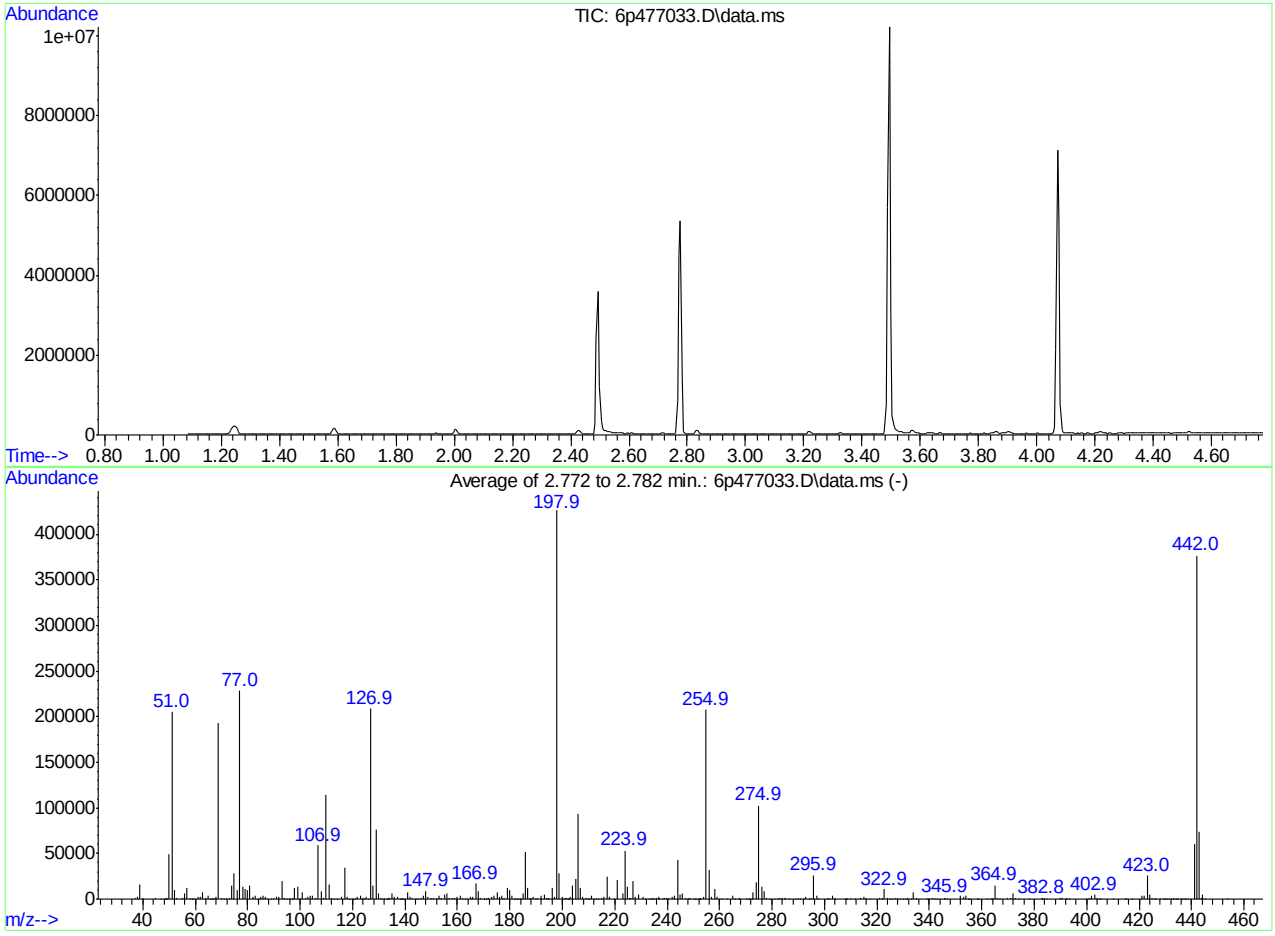
response 1178149

Ion	Exp%	Act%
235.00	100	100
165.00	61.50	48.26
237.00	62.60	64.56
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E6P2401\6p477033.D Vial: 1
Acq On : 15 Nov 2018 5:48 pm Operator: kristis
Sample : dftpp Inst : MS6P
Misc : op16488,e6p2401,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 316, 317, 318; Background Corrected with Scan 309

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.1	205093	PASS
68	69	0.00	2	1.5	2988	PASS
69	198	0.00	100	45.3	193080	PASS
70	69	0.00	2	0.6	1082	PASS
127	198	40	60	48.9	208341	PASS
197	198	0.00	1	0.7	2992	PASS
198	198	100	100	100.0	426005	PASS
199	198	5	9	6.8	28899	PASS
275	198	10	30	24.1	102522	PASS
365	198	1	100	3.6	15327	PASS
441	443	0.10	100	81.9	60488	PASS
442	198	40	100	88.3	376320	PASS
443	442	17	23	19.6	73880	PASS

6p477033.D DFTPP6P.M Fri Nov 16 14:20:29 2018 ACLIMS

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	981	51.00	205093	61.95	2299	71.00	428
37.95	2657	52.00	9428	62.90	7511	71.90	114
39.00	15916	52.95	669	63.90	868	73.00	1847
39.90	1131	54.95	1039	64.95	4327	73.90	14704
44.90	670	55.90	5586	65.75	423	74.90	28884
46.90	156	56.85	12252	66.10	178	76.00	9867
48.40	118	57.90	809	66.70	256	76.95	228525
48.60	188	58.80	159	67.20	164	77.95	13233
48.90	669	59.10	125	68.00	2988	78.90	11700
49.20	347	59.90	190	68.90	193080	79.95	9472
50.00	48993	60.95	2070	69.95	1082	80.90	14863

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.00	3060	91.90	3119	100.90	7176	111.85	1699
82.85	3562	92.90	19392	102.00	849	112.80	457
83.75	348	93.95	1008	102.95	2342	114.10	100
84.10	147	94.90	147	103.90	4312	115.90	2942
84.85	2478	95.90	1221	104.85	3762	116.90	34876
85.90	3693	96.80	159	105.90	1647	117.90	2624
86.90	2154	97.00	182	106.90	58861	118.70	164
87.75	532	97.90	12719	107.90	8642	119.90	266
88.95	531	98.90	13095	109.00	1159	120.70	131
89.90	154	99.80	586	109.90	113997	121.90	3054
90.95	2445	100.00	234	110.90	15458	122.90	4154

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.95	1633	132.90	128	139.90	460	150.00	805
124.40	153	133.40	156	140.90	7957	151.00	1275
125.00	2691	133.80	701	141.95	2474	152.00	761
126.10	200	134.00	939	142.85	1804	152.85	3198
126.90	208341	134.95	5639	143.80	153	153.90	1882
127.90	14570	135.95	2506	144.05	434	154.95	5147
128.90	75626	136.95	2388	144.85	330	155.95	6070
129.90	5937	137.90	646	145.95	1601	157.00	1816
130.85	955	138.60	121	146.90	4089	157.90	1867
131.20	123	138.90	189	147.90	9149	158.85	1126
131.95	366	139.50	145	148.90	2124	159.95	1956

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
160.90	4215	170.10	521	179.90	9396	187.80	730
161.90	1312	170.80	363	180.95	3944	188.00	801
162.95	397	171.10	390	181.80	199	188.90	2411
163.80	398	171.90	1625	182.10	439	189.80	391
164.90	2996	172.95	2394	182.90	282	190.80	1222
165.50	118	173.95	3231	183.10	315	191.70	449
165.90	2306	175.00	7830	183.80	524	191.95	3670
166.90	16659	175.90	2332	184.00	432	193.00	4405
167.95	8584	176.90	3129	184.95	6156	193.95	1327
169.00	1783	177.80	1214	186.00	51212	194.60	229
169.90	189	178.85	12455	186.95	12253	194.90	715

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
195.95	12483	203.95	14354	213.80	163	226.00	1096
196.90	2992	205.00	22581	214.85	1226	226.90	19353
197.90	426005	206.00	93973	215.90	2341	227.90	2584
198.90	28899	206.90	12759	216.90	24332	228.90	4468

199.90	2125	207.90	2839	217.85	2914	230.95	2306
200.50	202	209.00	1691	219.70	318	231.60	180
201.30	772	209.90	1171	220.95	21415	233.00	449
201.50	1003	210.30	301	222.90	6321	233.80	403
202.00	190	210.95	4080	223.95	52896	233.95	458
202.70	196	211.95	506	225.00	13208	234.80	1317
202.95	2149	212.90	131	225.80	678	235.00	298

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.90	1284	245.90	6744	253.90	2708	267.10	128
236.70	285	246.95	1588	254.90	207656	267.70	846
236.95	2119	247.70	111	255.95	31470	270.10	153
238.20	129	247.90	233	256.95	3020	270.90	387
238.90	896	248.85	1545	257.95	10744	271.50	345
239.90	927	250.00	300	258.95	2255	272.10	235
240.75	1233	250.50	147	259.95	354	272.90	7517
241.95	2767	251.05	370	260.60	114	273.95	18336
242.95	3374	251.85	485	262.90	486	274.90	102522
244.00	42789	252.40	160	264.90	4143	275.90	13330
244.95	5185	252.80	1223	265.80	482	276.90	8122

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	1320	290.85	278	303.80	430	320.90	1420
279.05	323	291.80	491	304.10	531	321.80	168
280.80	494	292.85	2232	307.90	558	322.00	252
282.05	367	293.95	435	308.10	127	322.90	10603
282.85	1027	294.85	841	308.70	133	323.90	1849
283.90	764	295.90	26068	309.95	355	324.80	128
284.60	297	296.90	4011	311.70	237	325.80	301
284.90	819	297.70	112	313.95	1871	326.90	1622
286.20	108	301.00	280	314.90	2854	328.00	1322
288.80	436	301.85	752	315.90	1734	328.60	241
289.95	401	302.95	4204	316.95	418	330.10	133

Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
330.80	138	345.70	538	363.40	138	377.90	111
331.90	686	345.90	1611	363.65	294	382.80	1206
332.85	569	346.70	497	364.00	101	383.00	403
333.95	7084	351.90	3940	364.90	15327	383.85	837
334.95	1711	352.95	2398	365.95	1795	384.90	165
338.90	172	353.95	3762	366.70	160	389.80	473
339.50	141	354.90	413	369.90	701	390.00	696
339.90	152	355.05	591	370.95	941	390.85	831
340.95	1087	358.10	112	371.90	6368	391.85	389
341.85	482	358.70	101	372.85	1193	392.50	108
342.90	174	362.10	122	373.85	257	393.10	148

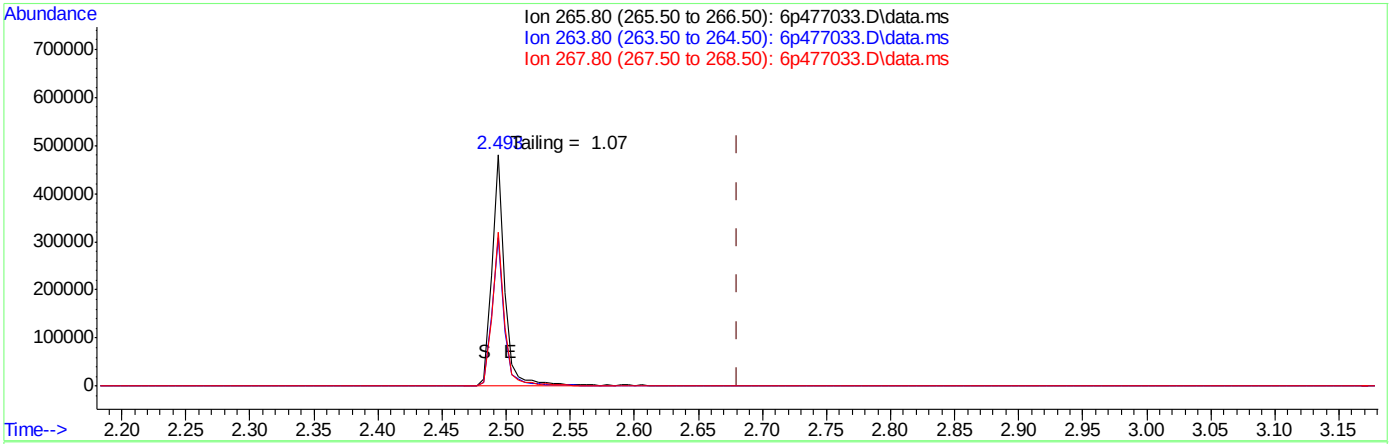
Average of 2.772 to 2.782 min.: 6p477033.D\data.ms
dftpp
Modified:subtracted

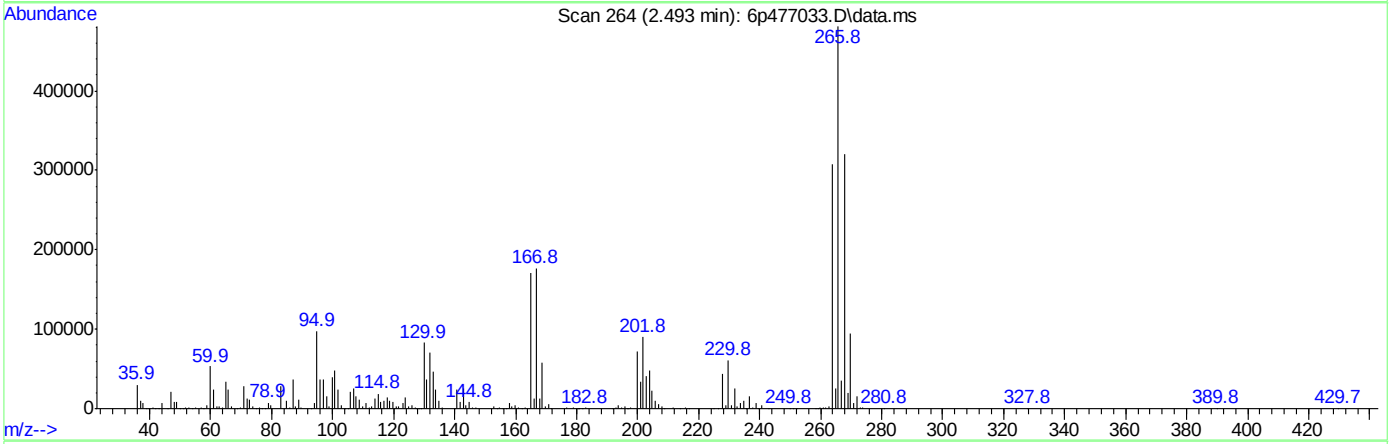
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
399.60	120	420.90	3767	430.50	464	437.60	108
400.85	674	421.80	3219	431.20	315	438.40	119
401.90	3375	423.00	25298	432.35	366	440.95	60488
402.95	4664	423.90	5514	432.85	364	442.00	376320
403.90	1708	424.90	915	433.20	230	443.00	73880
404.60	127	425.70	148	433.70	156	443.80	1230
405.10	167	426.20	202	434.40	168	443.95	5425
410.00	126	428.00	106	434.90	104	444.80	223
414.60	150	429.10	191	436.20	186	453.40	104
414.90	133	429.45	451	436.40	125		
417.40	120	430.10	204	437.10	124		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477033.D
Acq On : 15 Nov 2018 5:48 pm
Operator : kristis
Sample : dftpp
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 15 17:54:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477033.D\data.ms

(1) Pentachlorophenol (t)

2.493min (-0.187) 0.00ppb

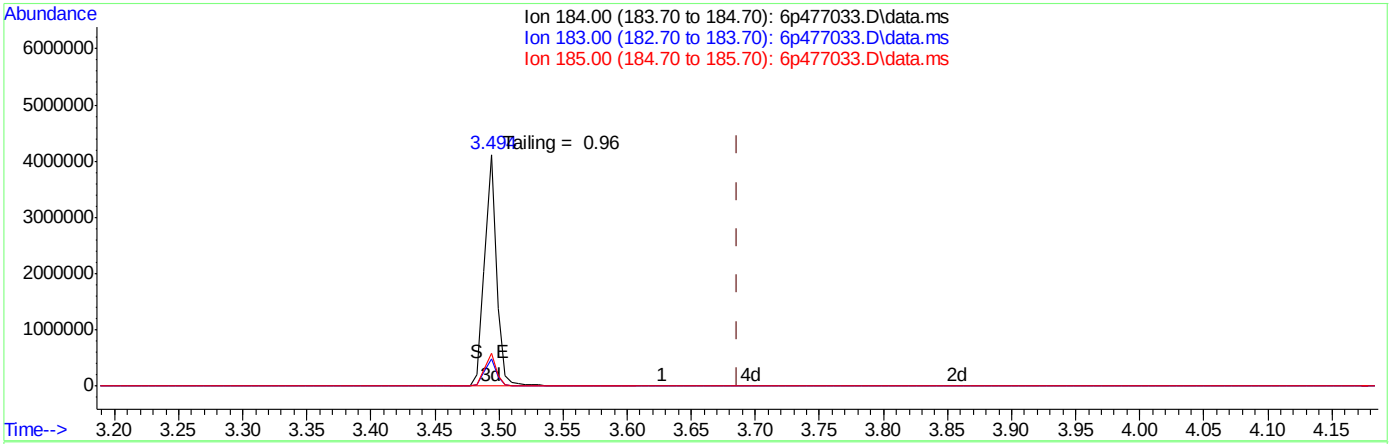
response 338108

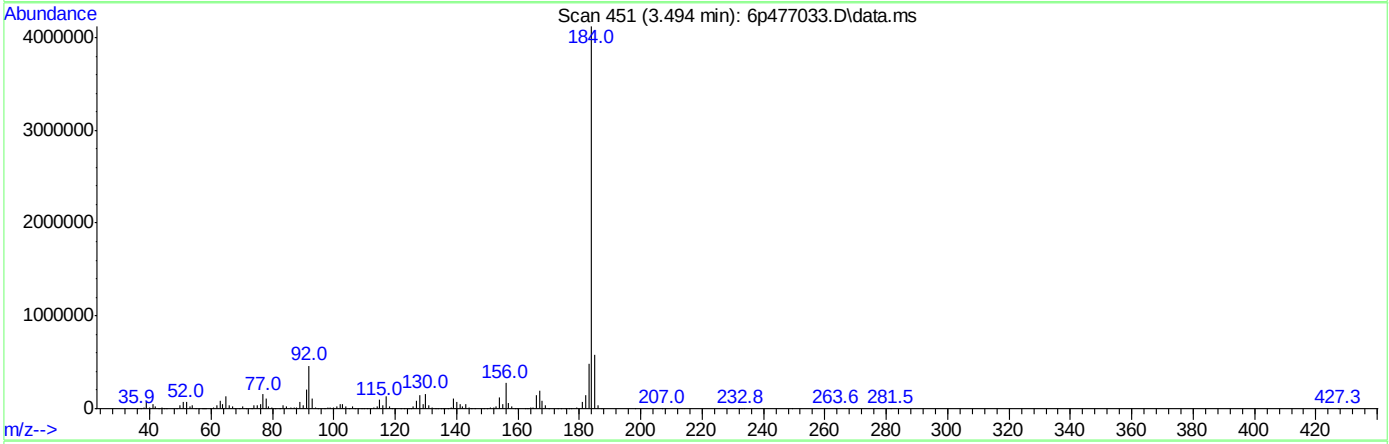
Ion	Exp%	Act%
265.80	100	100
263.80	63.40	63.91
267.80	63.30	66.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477033.D
Acq On : 15 Nov 2018 5:48 pm
Operator : kristis
Sample : dftpp
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 15 17:54:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477033.D\data.ms

(2) Benzidine (t)

3.494min (-0.193) 0.00ppb m

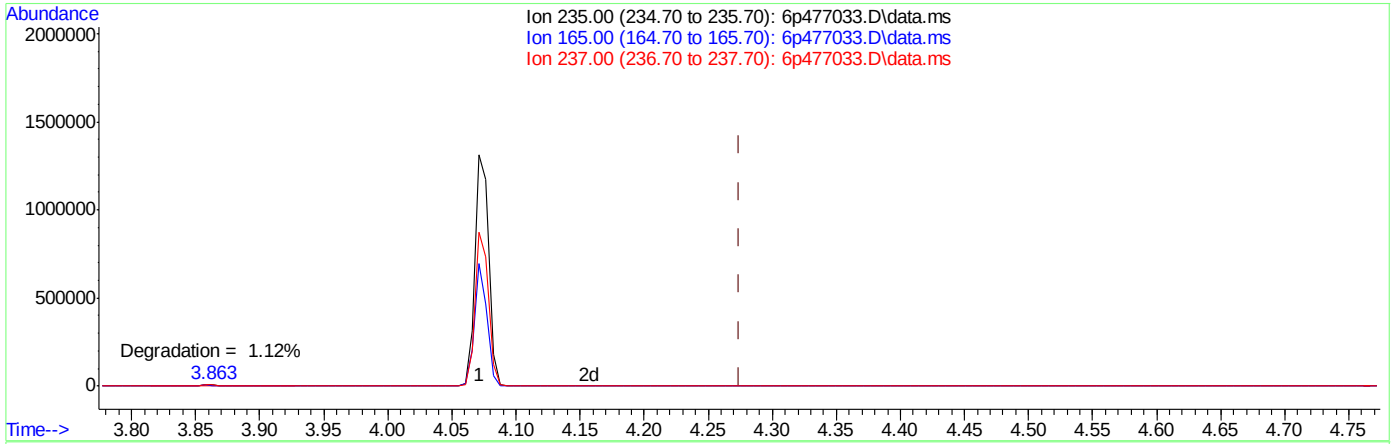
response 2649950

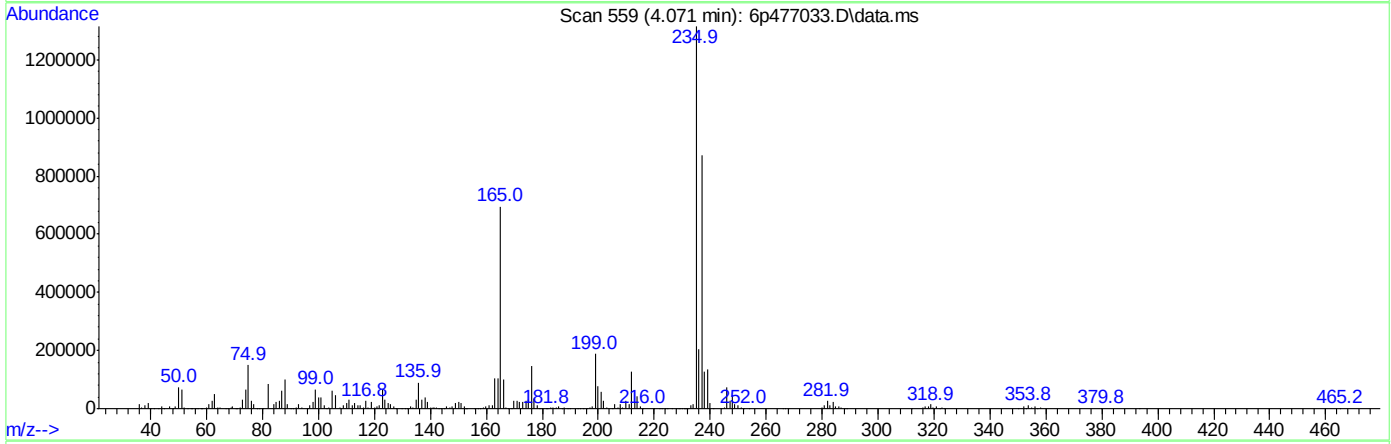
Ion	Exp%	Act%
184.00	100	100
183.00	11.90	11.75
185.00	14.20	14.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477033.D
Acq On : 15 Nov 2018 5:48 pm
Operator : kristis
Sample : dftpp
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 15 17:54:24 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477033.D\data.ms

(3) PP-DDT (t)

4.071min (-0.203) 0.00ppb

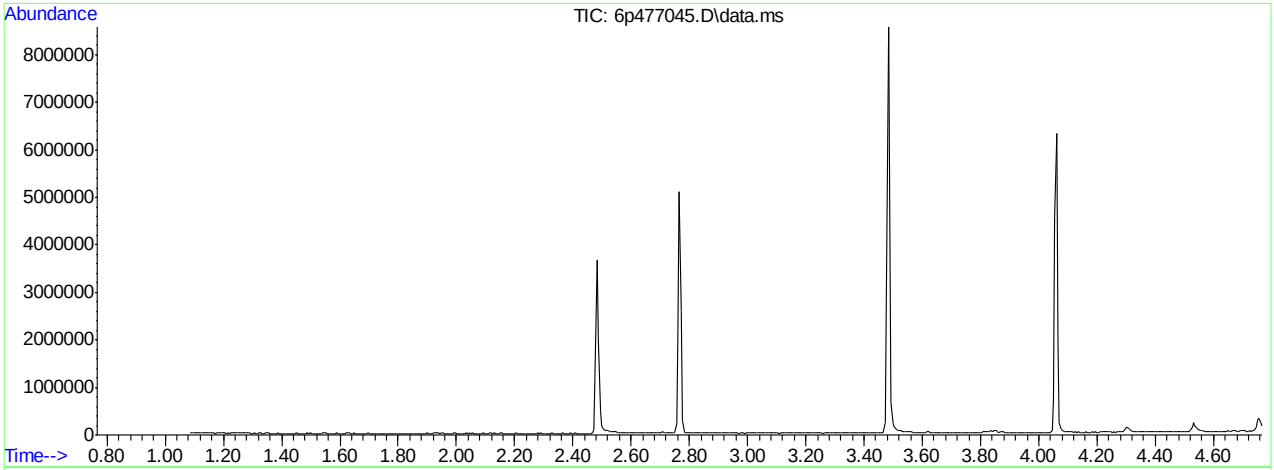
response 968168

Ion	Exp%	Act%
235.00	100	100
165.00	61.50	47.98
237.00	62.60	64.62
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E6P2402\6p477045.D Vial: 1
Acq On : 16 Nov 2018 9:34 am Operator: angelar
Sample : dftpp Inst : MS6P
Misc : op16488,e6p2402,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 314, 315, 316; Background Corrected with Scan 310

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.3	190051	PASS
68	69	0.00	2	1.5	2613	PASS
69	198	0.00	100	48.0	177816	PASS
70	69	0.00	2	0.6	1061	PASS
127	198	40	60	51.7	191200	PASS
197	198	0.00	1	0.2	601	PASS
198	198	100	100	100.0	370154	PASS
199	198	5	9	6.5	24123	PASS
275	198	10	30	23.7	87882	PASS
365	198	1	100	3.9	14441	PASS
441	443	0.10	100	75.8	47250	PASS
442	198	40	100	83.2	308085	PASS
443	442	17	23	20.2	62304	PASS

6p477045.D DFTPP6P.M Fri Nov 16 14:34:40 2018 ACLIMS

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	656	50.95	190051	62.00	2206	68.90	177816
36.60	344	52.00	9662	63.00	7230	69.90	1061
36.90	612	52.95	727	63.80	194	70.10	107
37.90	1651	53.80	288	64.00	798	70.85	305
39.00	14792	54.10	101	64.95	3483	73.00	1783
39.90	658	54.95	818	65.70	439	73.95	13945
40.95	290	55.85	5448	66.20	108	74.90	26351
43.90	849	56.90	12484	66.40	100	76.00	8633
44.90	944	58.00	802	66.80	195	76.95	204755
48.90	107	58.90	159	67.10	247	77.95	14293
49.95	42200	60.90	1568	67.95	2613	78.90	10378

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.90	7970	89.95	334	99.90	443	109.90	103402
80.90	13679	90.90	3294	100.90	6844	110.90	14119
81.95	3104	91.95	2736	101.95	581	111.90	1365
82.90	3151	92.90	15678	102.90	1998	112.80	221
83.75	143	93.95	1199	103.85	4226	114.80	107
84.90	2205	94.80	63	104.95	4529	115.80	652
85.80	3372	95.95	1322	105.80	997	115.95	2125
86.70	137	96.85	763	106.20	338	116.90	31160
87.00	1409	97.85	11454	106.90	49448	117.90	2126
87.90	904	98.90	11743	107.95	9038	118.70	311
88.90	293	99.70	262	108.95	1401	119.00	222

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.90	816	128.90	64760	138.05	746	146.90	3626
121.00	132	129.95	5354	138.95	566	147.90	8686
121.90	2407	130.75	438	139.85	892	148.90	1469
122.90	4633	131.00	620	140.95	6976	149.95	629
123.80	628	131.90	992	141.90	2415	150.80	977
124.00	1644	132.40	132	142.90	1891	151.30	324
124.95	2351	132.90	296	143.80	117	151.65	562
125.70	254	133.95	1702	144.05	472	152.80	220
125.90	265	134.90	4797	144.80	131	153.00	1720
126.90	191200	135.90	2526	145.00	333	154.00	2639
127.95	12891	137.00	3211	145.90	1276	154.95	4584

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.00	7181	164.90	2927	173.95	3068	183.00	161
156.95	1361	165.95	2213	174.95	6186	183.80	1283
157.95	1210	166.90	13295	175.95	2352	184.90	4823
158.90	678	167.95	6826	176.20	426	185.90	42634
159.95	2945	169.00	833	177.05	2210	187.00	11707
160.95	3622	169.85	716	178.00	1249	187.90	1082
161.60	273	170.40	189	178.90	12021	188.80	624
162.00	832	171.00	961	180.00	7328	188.95	1734
162.90	398	171.90	1524	180.90	3906	189.95	472
163.50	122	172.70	257	182.05	1090	190.95	1289
164.00	362	172.95	1522	182.70	462	191.90	3447

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
192.95	3809	201.30	1584	210.30	400	219.50	231
193.80	938	201.80	585	211.00	3253	219.85	436
194.10	159	202.90	1335	211.90	120	220.20	219
194.60	544	203.10	451	212.70	117	220.95	17669

195.05	1084	203.95	12054	214.60	262	221.60	2028
195.95	8295	204.95	19485	214.90	590	222.00	444
196.70	601	205.95	84957	215.10	123	222.90	5396
197.90	370154	206.95	9919	215.90	1444	223.95	45626
198.90	24123	207.95	2915	216.90	18946	224.95	10676
199.95	1482	208.95	829	217.95	2074	225.80	379
200.80	241	209.90	867	218.80	384	225.95	647

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.90	17100	234.85	1249	244.90	4439	252.60	340
227.90	2229	235.85	869	246.00	6556	252.90	775
228.80	726	236.85	1372	246.90	1407	253.70	807
228.95	3443	237.80	345	247.75	625	253.90	808
229.60	136	238.95	1018	248.90	1570	254.90	184360
230.00	431	239.95	668	249.80	133	255.90	27252
230.85	1838	240.85	1192	250.30	316	256.95	2361
231.80	214	242.00	2652	250.80	134	257.90	9531
233.00	229	242.70	482	251.45	410	258.85	1642
233.90	991	243.00	2602	251.80	207	259.70	281
234.70	333	244.00	35472	251.95	557	260.00	522

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.60	171	271.30	191	281.10	201	293.80	270
261.00	729	271.80	147	282.85	628	294.85	486
262.85	240	272.00	736	283.95	635	295.90	21826
263.70	379	272.85	5928	284.95	1072	296.95	2925
264.10	272	273.90	14368	288.80	316	297.90	250
264.95	4519	274.90	87882	290.00	157	301.50	130
265.75	843	275.90	11410	290.70	130	301.95	359
267.90	144	276.90	6935	291.50	120	302.20	104
268.50	122	277.80	1280	291.80	229	302.95	3779
269.65	73	279.00	479	292.05	410	303.70	278
270.95	594	280.90	101	292.90	1719	304.00	520

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
304.90	117	316.60	184	328.90	259	345.80	1763
307.80	174	317.10	431	331.80	255	346.80	163
308.00	205	320.95	1091	332.00	587	350.10	148
309.00	132	321.85	487	332.90	725	351.90	2700
309.60	119	323.00	8543	333.90	6155	352.95	1835
309.95	426	323.80	1747	334.95	1539	354.00	2759
312.95	257	324.95	266	335.90	217	354.90	790
313.80	773	325.85	249	339.80	247	358.70	125
314.00	448	326.60	505	340.00	234	361.90	233
314.90	3268	326.95	871	340.95	919	364.90	14441
315.85	1895	327.90	964	341.95	311	365.90	1867

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.50	100	377.60	142	403.60	133	423.95	2500
368.80	148	382.95	1741	403.85	1217	424.70	104
369.90	548	383.95	361	414.40	132	425.00	393
371.00	646	389.60	377	414.90	160	425.60	126
371.70	614	389.90	490	416.40	120	426.30	133
371.95	5123	390.95	740	419.70	122	426.70	101
373.00	1264	391.75	684	420.00	117	427.50	140
373.90	194	400.90	412	420.95	3059	427.90	107
374.30	101	401.70	326	421.95	2767	428.80	108
376.50	136	401.90	2466	422.90	20085	429.60	440
377.00	209	402.85	3570	423.80	644	430.30	101

Average of 2.761 to 2.772 min.: 6p477045.D\data.ms

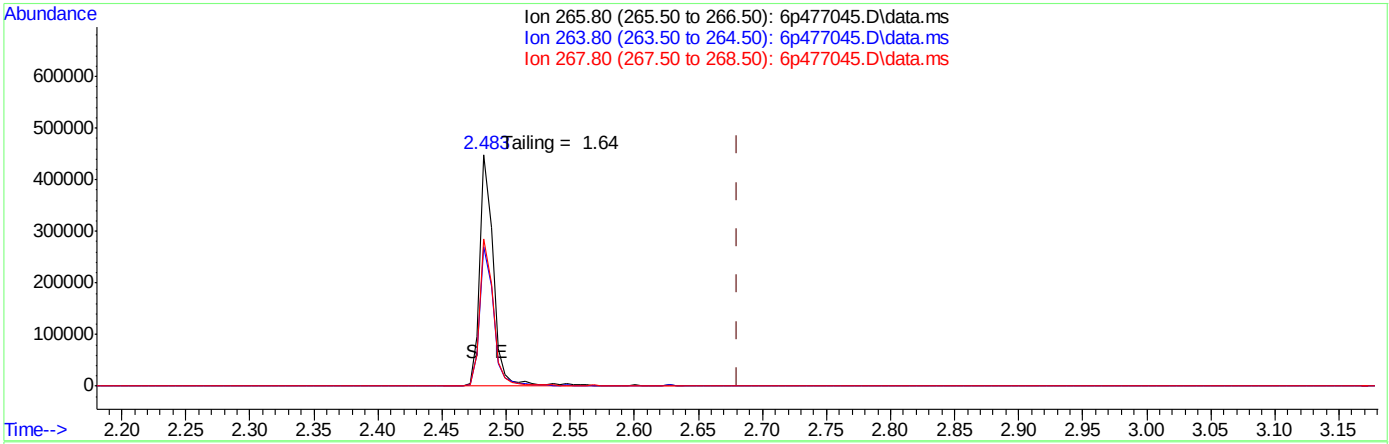
dftpp
Modified:subtracted

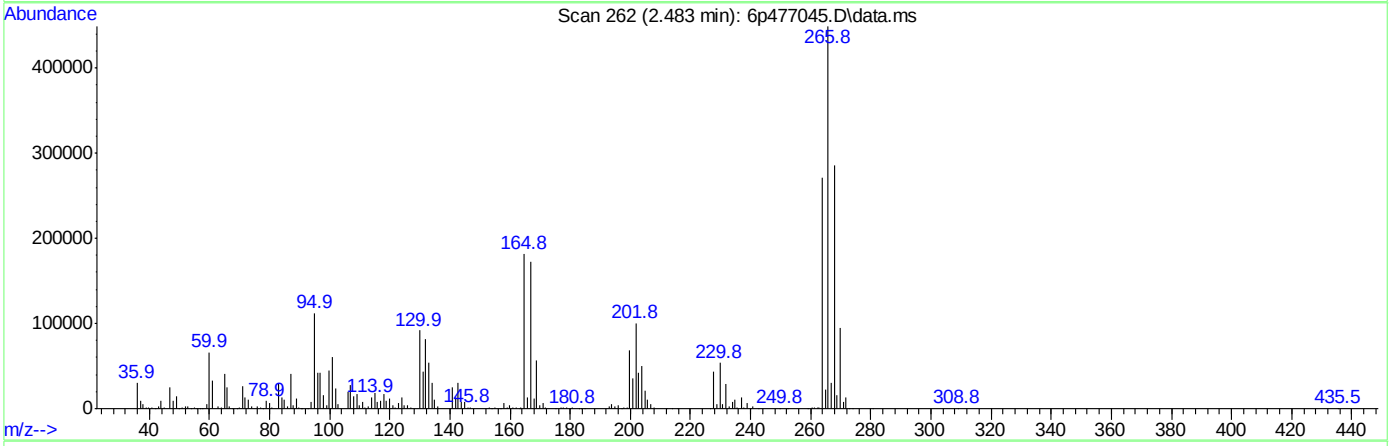
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
431.10	137	443.90	5688				
431.60	133	444.85	332				
432.10	230						
432.70	346						
434.00	137						
435.10	128						
435.40	104						
439.70	119						
440.95	47250						
441.95	308085						
443.00	62304						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477045.D
Acq On : 16 Nov 2018 9:34 am
Operator : angelar
Sample : dftpp
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 16 09:40:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477045.D\data.ms

(1) Pentachlorophenol (t)

2.483min (-0.198) 0.00ppb

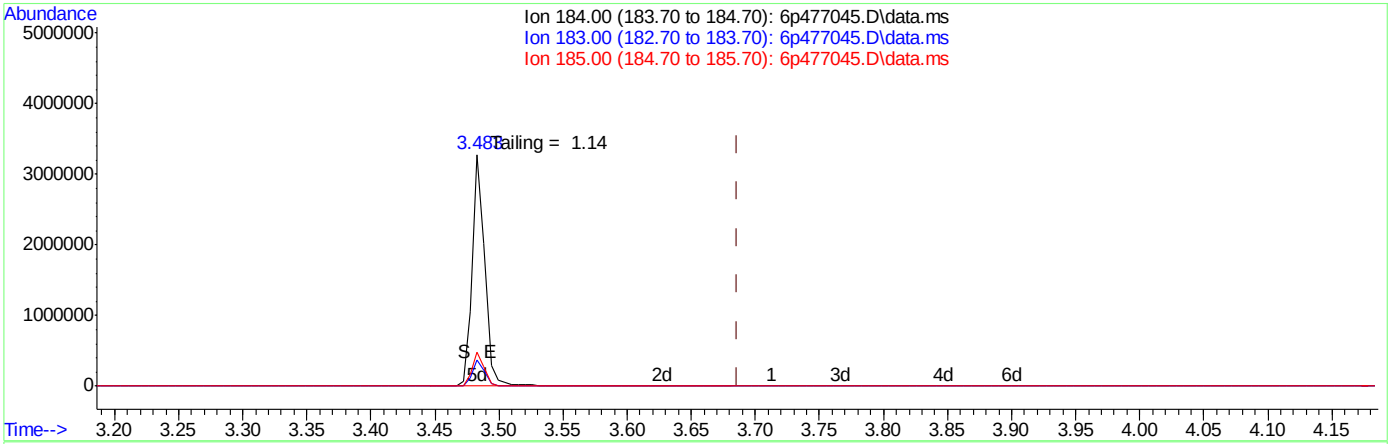
response 330941

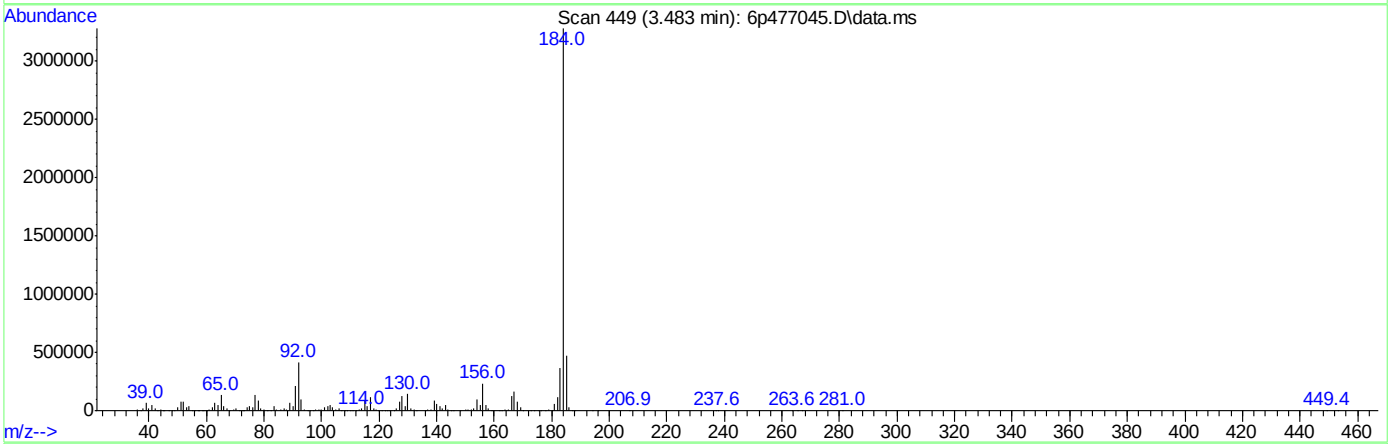
Ion	Exp%	Act%
265.80	100	100
263.80	63.40	60.29
267.80	63.30	63.50
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477045.D
Acq On : 16 Nov 2018 9:34 am
Operator : angelar
Sample : dftpp
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 16 09:40:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477045.D\data.ms

(2) Benzidine (t)

3.483min (-0.203) 0.00ppb m

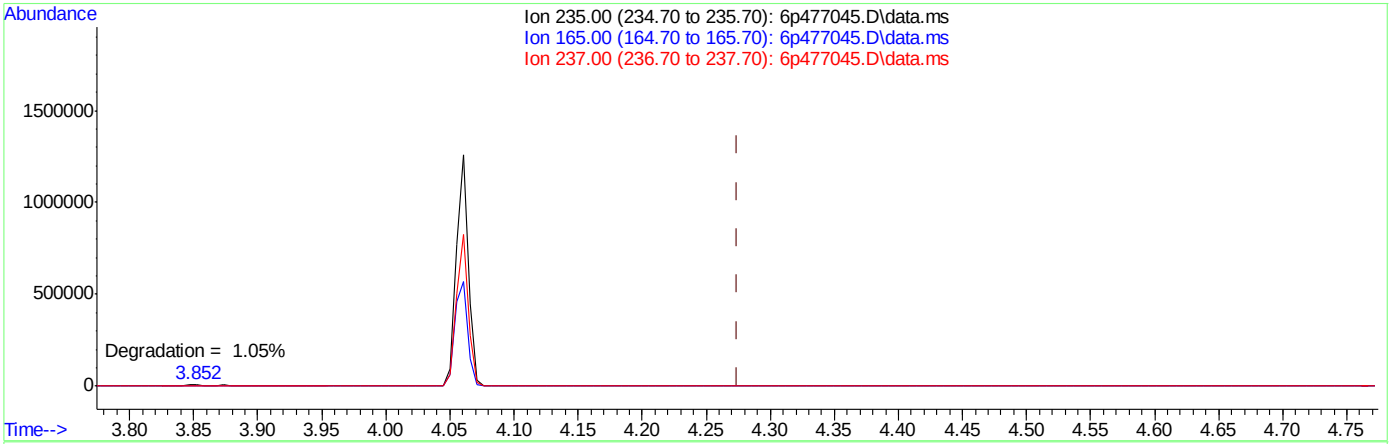
response 2250462

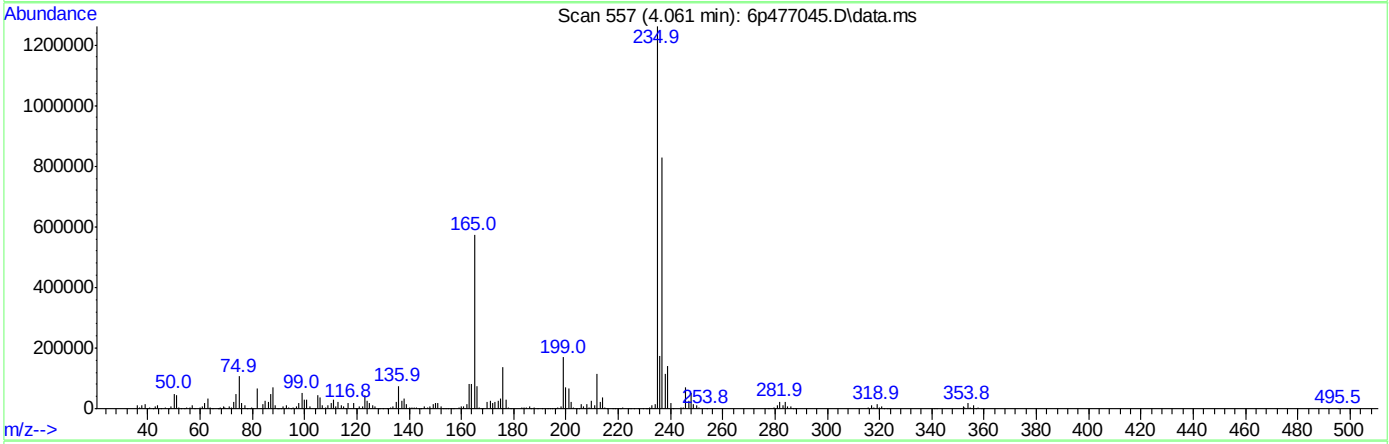
Ion	Exp%	Act%
184.00	100	100
183.00	11.90	11.23
185.00	14.20	14.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477045.D
Acq On : 16 Nov 2018 9:34 am
Operator : angelar
Sample : dftpp
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 16 09:40:12 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477045.D\data.ms

(3) PP-DDT (t)

4.061min (-0.214) 0.00ppb

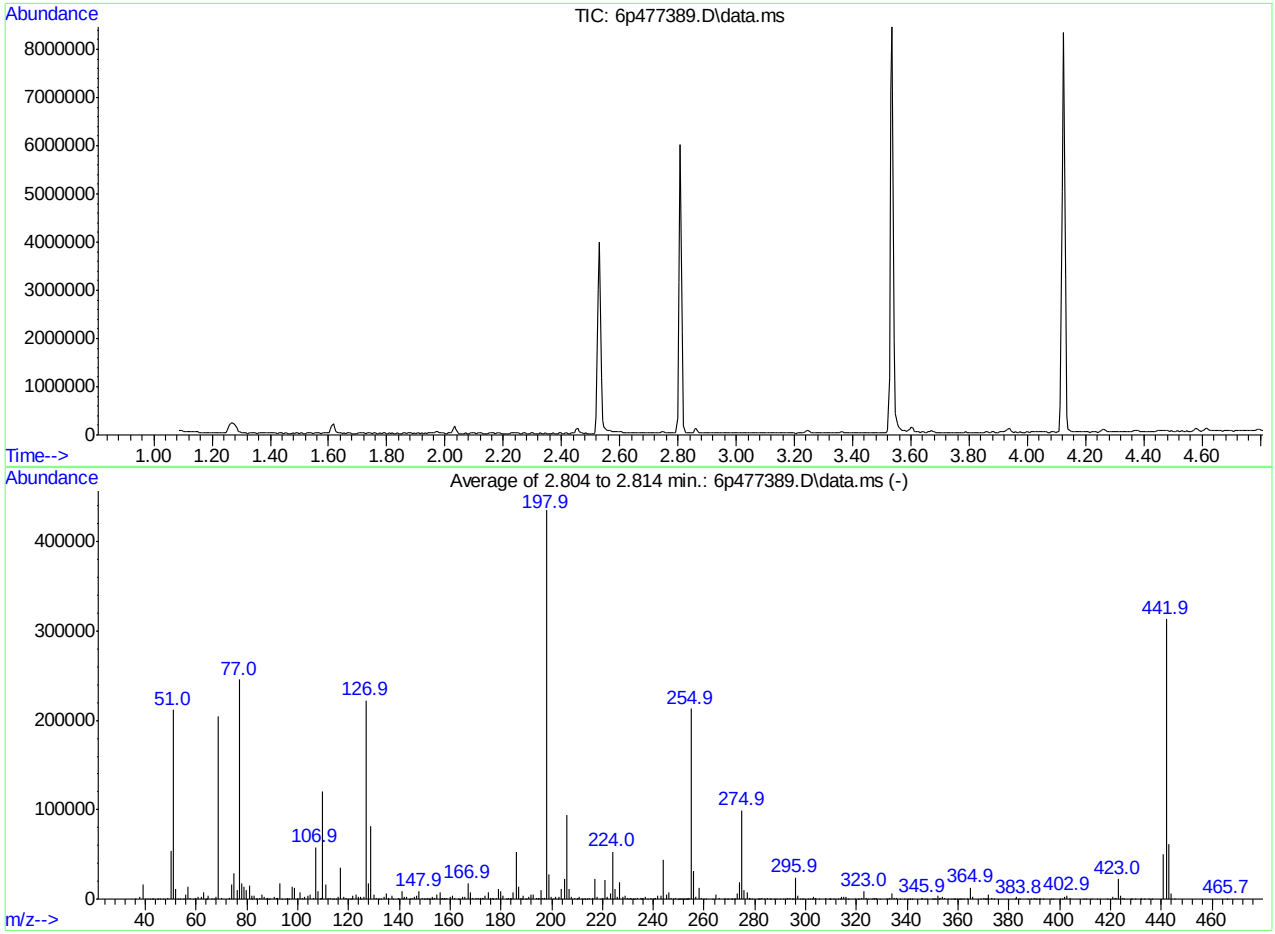
response 840122

Ion	Exp%	Act%
235.00	100	100
165.00	61.50	48.28
237.00	62.60	64.91
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E6P2416\6p477389.D Vial: 1
Acq On : 29 Nov 2018 10:02 pm Operator: chriss2
Sample : dftpp Inst : MS6P
Misc : op16488,e6p2416,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 322, 323, 324; Background Corrected with Scan 315

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.7	211729	PASS
68	69	0.00	2	1.3	2737	PASS
69	198	0.00	100	47.1	204845	PASS
70	69	0.00	2	0.8	1589	PASS
127	198	40	60	51.2	222664	PASS
197	198	0.00	1	0.4	1597	PASS
198	198	100	100	100.0	434986	PASS
199	198	5	9	6.3	27454	PASS
275	198	10	30	22.9	99730	PASS
365	198	1	100	3.0	12854	PASS
441	443	0.10	100	80.4	49710	PASS
442	198	40	100	72.0	313349	PASS
443	442	17	23	19.7	61832	PASS

6p477389.D DFTPP6P.M Fri Nov 30 09:00:29 2018 ACLIMS

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	537	47.10	314	59.00	148	68.90	204845
37.90	3174	49.00	1507	59.95	1086	69.85	1589
39.00	16512	49.95	53670	60.95	2925	72.90	1336
39.90	654	51.00	211729	61.90	2973	73.95	16553
40.90	57	52.00	10832	62.95	7031	74.90	29522
42.00	258	52.85	595	63.85	515	76.00	10495
42.80	216	53.80	189	64.20	227	77.00	245709
43.10	369	54.90	283	64.95	4129	77.90	17173
44.80	438	55.90	5047	65.90	517	78.90	13251
45.00	151	56.85	14191	67.00	397	79.90	9792
45.80	159	57.85	1638	67.95	2737	80.90	15662

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	3276	89.10	316	100.00	1153	109.90	120661
82.10	529	90.90	2518	100.90	7244	110.90	16124
82.90	3685	91.80	1317	101.85	850	112.00	1372
83.60	105	92.00	1387	102.90	2879	112.85	1155
83.85	583	92.90	17369	103.90	4221	113.90	174
84.90	1753	93.95	601	104.90	5095	114.20	211
85.95	4950	95.10	293	106.00	1500	115.10	322
86.85	1980	95.85	1429	106.90	58245	115.90	2841
87.80	356	96.70	116	107.95	9143	116.90	35700
88.00	693	97.90	13341	108.80	399	117.95	2140
88.70	229	98.90	12563	109.10	1394	118.95	894

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.00	438	128.90	81386	139.10	167	148.85	1838
120.70	138	129.90	5519	139.95	1095	149.70	145
121.20	178	130.85	1366	140.90	8626	150.10	569
121.85	3325	131.80	325	141.70	622	150.80	370
122.90	4484	132.00	476	141.95	2330	151.15	705
123.80	2161	132.70	127	142.85	2570	151.50	346
124.60	215	133.85	2377	144.10	451	151.90	6
124.90	2245	134.90	6343	145.00	774	152.85	2313
126.05	2298	135.85	1767	146.00	2007	153.10	532
126.90	222664	136.90	3543	146.90	3840	153.95	1830
127.90	17083	137.60	584	147.90	9056	154.90	5131

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.00	7884	163.80	416	173.00	1624	182.70	166
156.70	406	164.90	2012	173.95	3550	183.15	726
157.00	1774	165.90	2872	175.00	7800	183.70	116
157.40	425	166.90	18019	175.95	1754	183.95	749
157.70	325	167.80	7111	176.70	600	184.90	7519
157.95	1551	168.00	1955	177.00	1876	185.95	52144
158.75	1129	168.85	1500	178.05	693	187.00	13232
159.95	2333	170.05	1002	178.90	11652	187.85	1570
161.00	3790	170.90	1223	179.90	8916	188.10	211
161.90	1030	171.80	1671	180.90	3815	188.90	3441
163.10	211	172.80	713	181.95	658	189.70	105

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.90	492	197.90	434986	207.90	2044	216.00	1460
191.05	1955	198.90	27454	208.90	1368	216.90	22231
191.95	4585	199.90	1957	209.95	555	217.90	3095
192.90	4653	200.80	180	210.50	1857	219.00	102

193.85	1061	201.35	2021	210.95	2354	219.90	677
194.60	281	202.35	444	211.50	660	220.90	21531
195.00	1655	202.90	2138	211.95	606	221.65	2990
195.95	9721	203.95	11170	212.80	107	222.00	836
196.40	875	204.90	22528	213.00	473	222.95	5937
196.90	1597	206.00	94634	214.00	110	224.00	52861
197.10	841	206.90	11129	214.95	1326	225.00	11473

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.85	1983	233.90	970	241.90	3207	250.90	132
226.90	19424	234.90	1705	242.90	4104	251.40	113
227.85	3068	235.10	235	243.95	43442	251.80	388
228.90	4395	235.70	160	245.00	4573	252.20	171
229.85	968	235.90	1422	245.95	7403	252.80	284
230.10	371	236.85	2070	246.90	1020	253.10	376
230.90	518	237.70	354	247.90	340	253.30	529
231.05	1315	238.90	1271	248.85	1755	253.60	214
231.80	467	239.90	538	249.70	154	254.00	1323
232.55	464	240.20	341	249.90	156	254.90	212992
233.00	452	240.90	1625	250.70	254	255.90	30954

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.85	2458	269.50	138	278.00	801	288.50	107
257.90	12687	270.70	152	278.75	513	289.85	348
258.85	1608	270.95	671	281.20	123	290.90	571
259.95	227	271.70	293	281.60	141	291.90	263
260.80	164	272.00	348	282.00	168	292.95	1910
263.10	107	272.85	6833	282.85	723	293.85	829
264.85	4498	273.90	19158	283.80	569	294.70	251
265.90	859	274.90	99730	284.95	1068	295.00	217
267.60	34	275.85	10500	285.90	414	295.90	24328
268.00	103	276.90	7147	286.20	134	296.95	3371
268.90	163	277.80	542	287.60	109	297.90	422

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
298.80	188	309.60	159	320.90	337	331.80	344
299.00	405	309.80	309	321.95	685	332.00	333
300.80	403	311.10	150	323.00	8853	333.00	1370
301.80	613	312.55	492	323.95	1895	333.95	6577
302.80	602	313.60	270	324.85	382	335.00	1743
303.00	3010	313.95	2232	325.90	123	335.80	788
303.65	515	314.90	2557	326.70	238	337.10	161
304.10	968	315.85	2130	326.85	1385	338.85	645
305.10	229	316.90	217	327.80	211	340.00	195
307.95	680	319.40	124	327.95	827	340.80	374
309.00	154	320.70	585	329.05	360	341.00	598

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.70	241	352.90	1701	361.05	459	372.00	5518
345.30	114	353.10	760	361.40	132	373.00	1635
345.95	1581	353.85	3103	362.00	188	373.90	263
346.90	363	354.85	1018	363.50	162	382.50	175
347.80	103	355.90	122	364.90	12854	382.90	1965
349.70	126	357.50	119	365.85	2388	383.80	187
350.30	161	358.10	104	368.60	261	384.40	131
350.90	113	358.60	118	370.05	944	387.20	174
351.10	228	358.80	441	370.70	153	388.50	210
352.00	3380	359.60	184	370.90	625	389.90	893
352.60	132	360.25	345	371.50	143	390.60	299

Average of 2.804 to 2.814 min.: 6p477389.D\data.ms

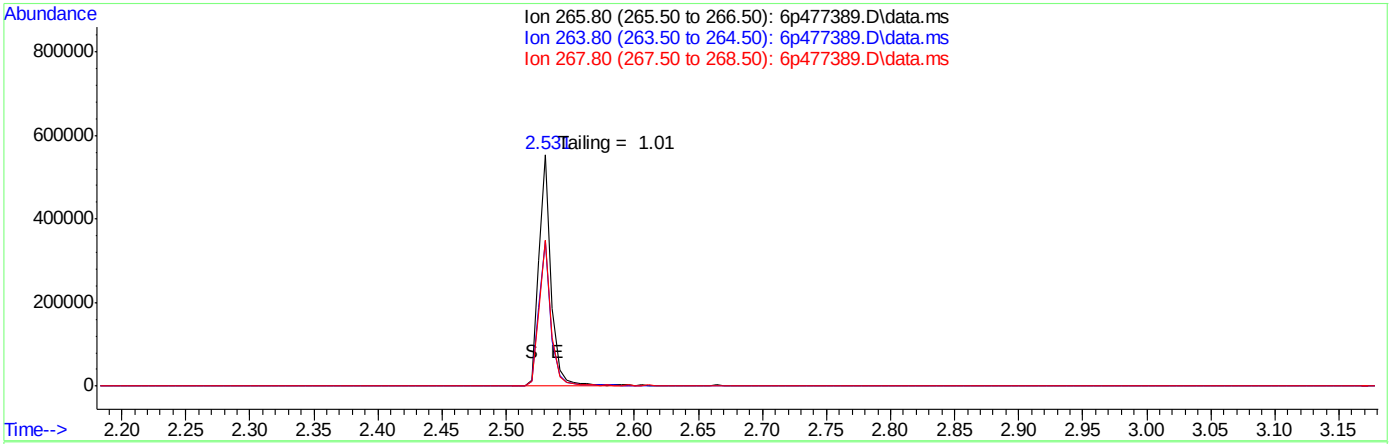
dftpp
Modified:subtracted

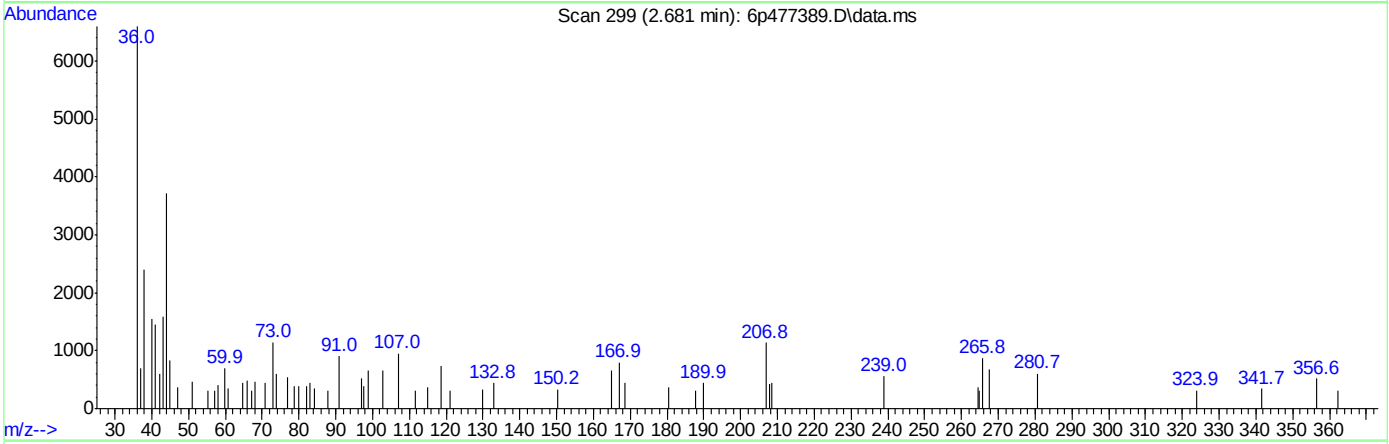
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
390.90	212	409.30	114	425.30	252	442.95	61832
391.60	235	410.10	147	427.90	317	443.95	5752
392.00	296	412.50	111	428.50	288	445.00	139
393.30	122	414.60	434	429.60	170	465.70	107
396.80	172	418.60	105	431.80	150		
397.40	129	420.85	2703	432.10	190		
400.00	108	421.80	1327	433.30	164		
400.80	294	422.00	1573	434.90	132		
401.90	2658	423.00	22031	436.30	101		
402.90	4254	423.95	4383	440.90	49710		
403.95	976	424.75	892	441.90	313349		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2416\
Data File : 6p477389.D
Acq On : 29 Nov 2018 10:02 pm
Operator : chriss2
Sample : dftpp
Misc : op16488,e6p2416,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 29 22:08:29 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477389.D\data.ms

(1) Pentachlorophenol (t)

2.681min 0.00ppb d

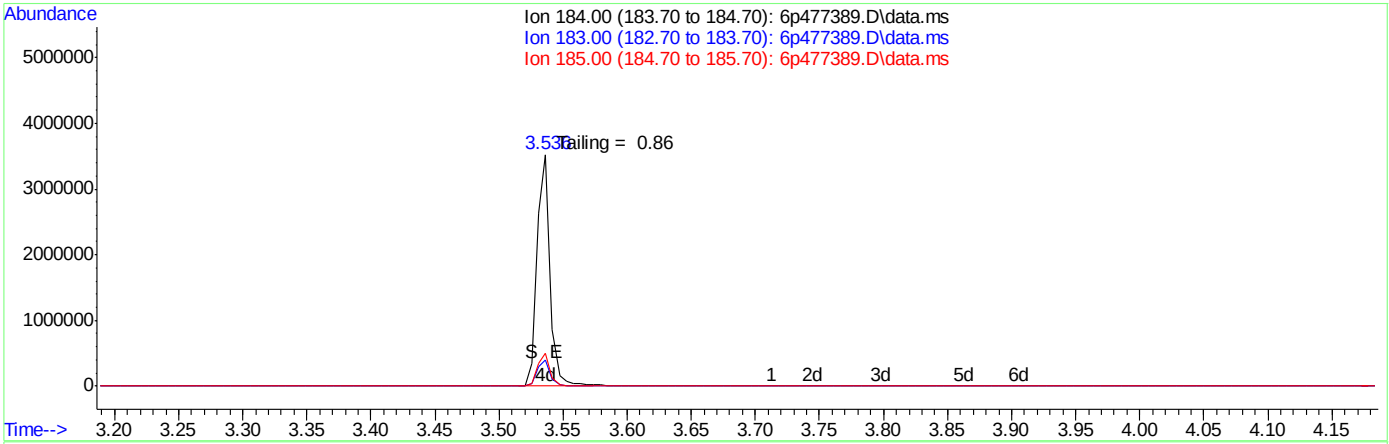
response 0

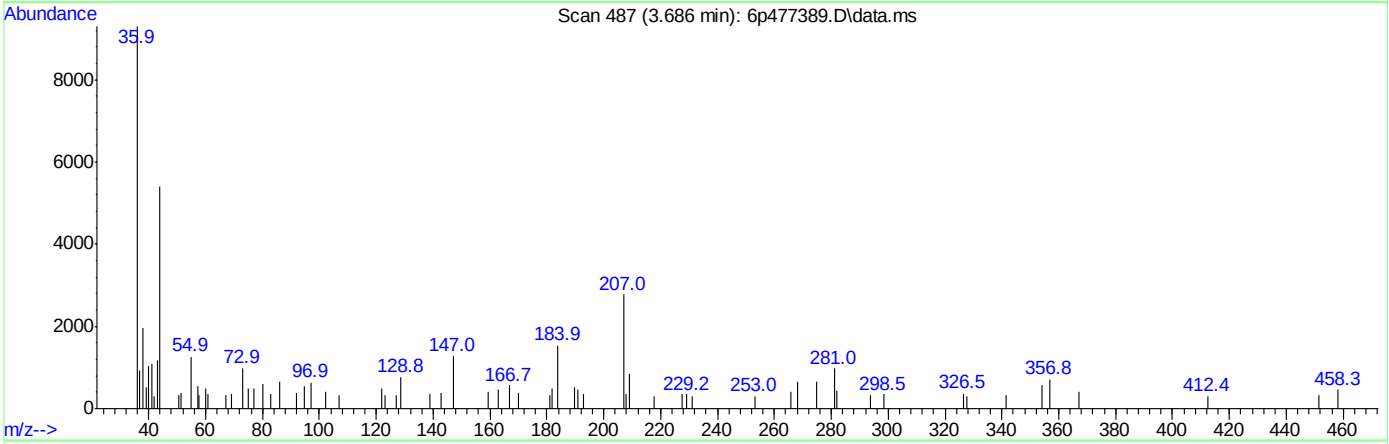
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.40	0.00
267.80	63.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2416\
Data File : 6p477389.D
Acq On : 29 Nov 2018 10:02 pm
Operator : chriss2
Sample : dftpp
Misc : op16488,e6p2416,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 29 22:08:29 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477389.D\data.ms

(2) Benzidine (t)

3.686min 0.00ppb d

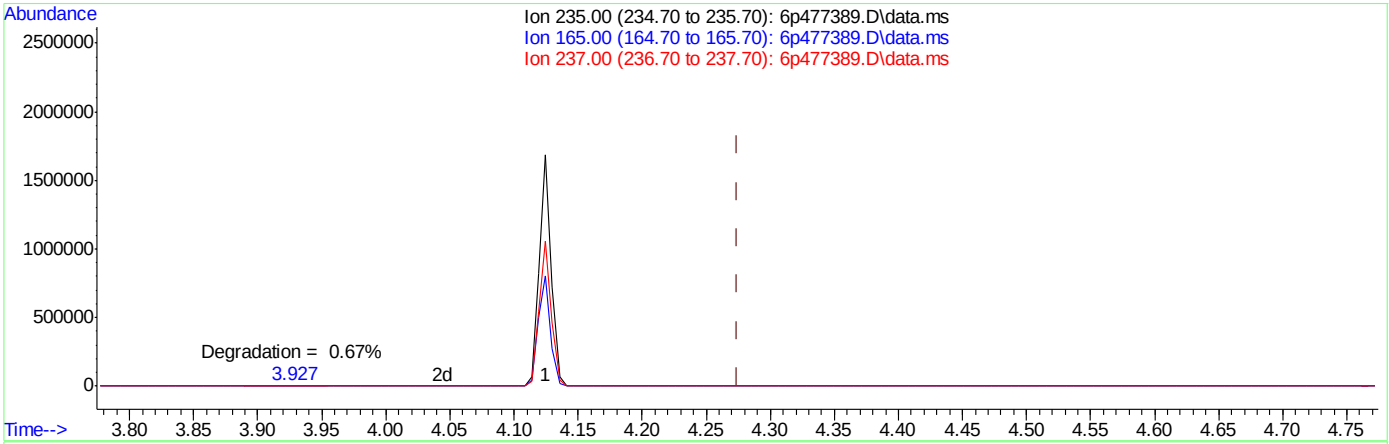
response 0

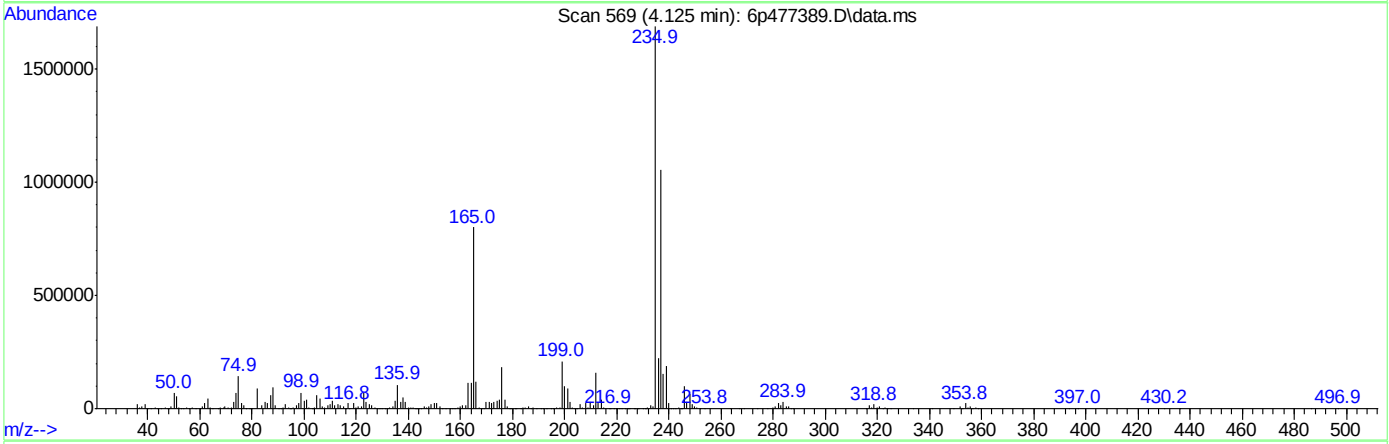
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.90	0.00
185.00	14.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2416\
Data File : 6p477389.D
Acq On : 29 Nov 2018 10:02 pm
Operator : chriss2
Sample : dftpp
Misc : op16488,e6p2416,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 29 22:08:29 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477389.D\data.ms

(3) PP-DDT (t)

4.125min (-0.150) 0.00ppb

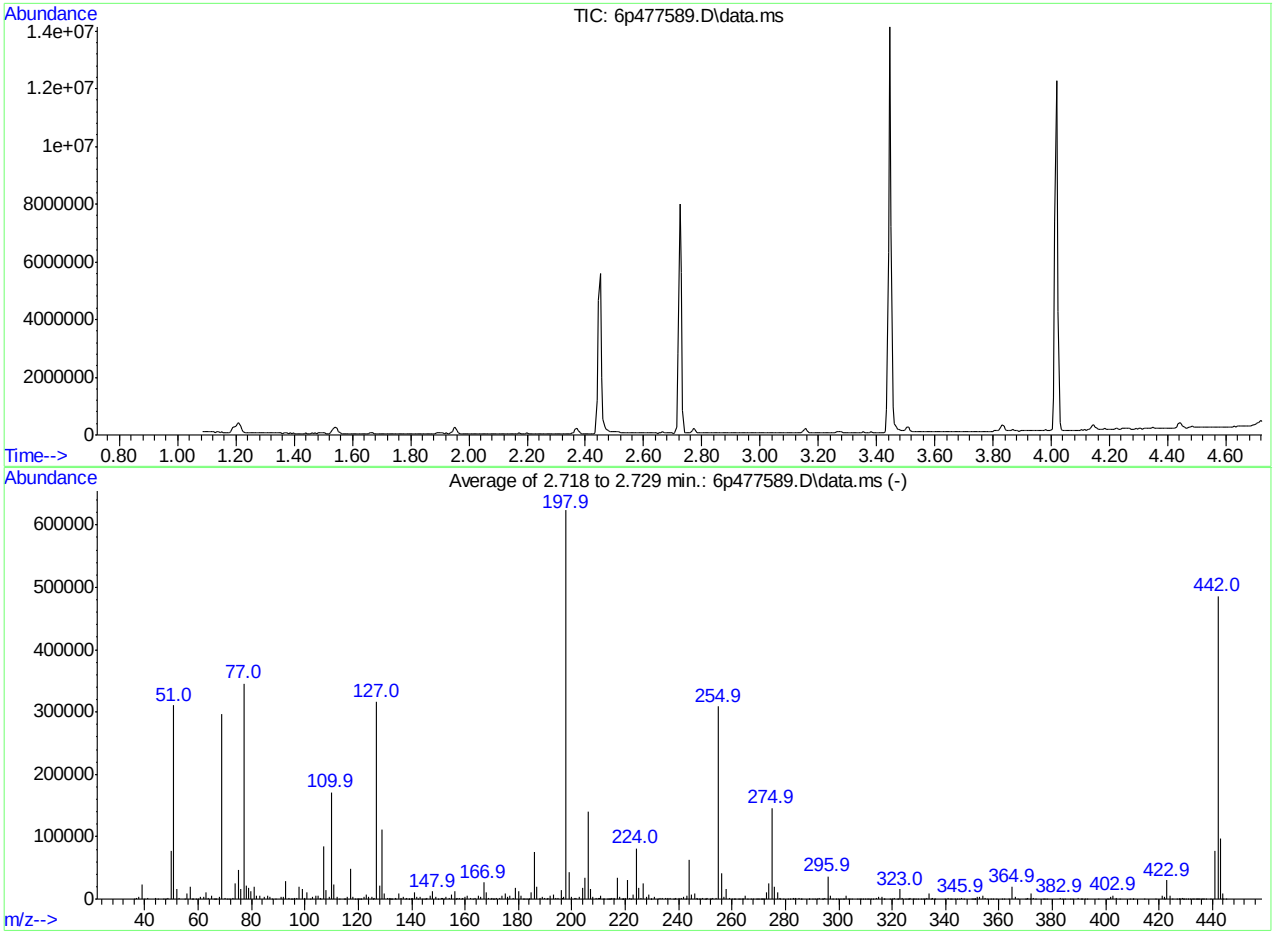
response 1083761

Ion	Exp%	Act%
235.00	100	100
165.00	61.50	49.07
237.00	62.60	63.66
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E6P2423\6p477589.D Vial: 1
Acq On : 5 Dec 2018 7:17 pm Operator: sufiyana
Sample : dftpp Inst : MS6P
Misc : op16488,e6p2423,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 306, 307, 308; Background Corrected with Scan 302

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.9	311015	PASS
68	69	0.00	2	1.5	4551	PASS
69	198	0.00	100	47.6	296607	PASS
70	69	0.00	2	0.5	1494	PASS
127	198	40	60	50.7	315904	PASS
197	198	0.00	1	0.6	3772	PASS
198	198	100	100	100.0	623338	PASS
199	198	5	9	6.9	43173	PASS
275	198	10	30	23.4	146159	PASS
365	198	1	100	3.1	19012	PASS
441	443	0.10	100	79.0	76550	PASS
442	198	40	100	78.0	486208	PASS
443	442	17	23	19.9	96849	PASS

6p477589.D DFTPP6P.M Thu Dec 06 07:57:25 2018 ACLIMS

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	326	50.00	76674	60.95	3242	70.95	532
36.90	1329	50.95	311015	62.00	3153	71.90	101
37.90	3934	51.95	15409	62.95	10243	72.90	1181
38.95	24162	53.05	1368	63.95	1305	73.90	24840
39.90	698	54.90	758	64.95	6280	75.00	46176
41.00	1525	55.90	9232	65.90	460	76.00	15570
43.85	1217	56.90	20638	66.10	134	77.00	345450
44.90	167	57.75	259	66.90	502	78.00	21702
46.80	61	58.00	445	67.95	4551	78.90	18853
47.70	311	59.05	472	68.90	296607	79.90	12262
48.85	1852	59.95	408	69.90	1494	80.85	20209

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	5455	94.80	441	104.95	6353	115.05	465
82.95	5696	95.10	576	105.80	686	115.95	4079
84.85	3547	96.00	1752	105.95	1696	116.90	48604
85.85	4676	97.00	1101	106.90	83877	117.95	4305
86.90	3078	97.90	19515	107.90	13595	118.95	495
87.85	812	98.95	16926	109.00	2784	119.60	304
88.90	793	99.95	1999	109.90	171061	119.90	505
90.90	3360	100.90	11659	110.95	23132	120.10	401
91.90	3814	101.95	739	111.90	2913	120.80	341
92.90	29355	102.85	3422	112.80	454	121.00	220
93.90	1701	103.90	6338	114.70	231	121.95	3974

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
122.90	7193	131.95	1175	138.95	460	145.85	2490
123.90	3602	132.40	413	139.60	324	146.90	5969
124.90	3541	132.60	254	139.90	185	147.95	12582
125.50	175	133.70	325	140.05	1033	148.95	3056
126.00	2190	134.00	1719	140.90	10192	149.80	712
126.95	315904	134.95	8637	141.95	3373	150.95	1438
127.95	22102	135.90	2226	142.50	583	151.65	1504
128.90	111194	136.95	4113	142.95	3420	151.90	588
129.90	9324	137.50	368	143.95	812	152.90	4157
130.95	1777	138.00	1330	145.00	99	153.95	2706
131.60	206	138.80	116	145.20	419	155.00	7091

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.00	12377	164.95	4857	173.95	4946	182.95	812
156.75	614	165.90	4338	174.95	8173	183.80	924
157.05	1594	166.95	26300	175.70	495	184.00	778
157.95	2373	167.95	11436	175.95	2878	184.90	10401
158.80	400	168.85	2601	176.85	4686	185.95	75050
159.00	1683	169.80	461	178.05	1960	187.00	20341
159.95	3846	170.05	981	178.90	18578	187.95	2450
160.95	6188	170.60	344	179.90	12982	188.85	3619
161.95	2036	170.95	655	180.90	5771	189.85	1367
162.95	628	171.90	1219	181.80	577	190.80	535
163.90	973	172.90	2753	182.20	281	191.05	1284

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
192.00	5505	201.50	1056	211.50	327	217.95	3960
192.95	6618	202.95	3690	212.00	383	218.80	383
194.05	2111	203.95	18459	213.20	118	219.10	540
194.95	1688	204.95	33680	213.80	152	219.30	275

195.85	14841	206.00	139901	214.00	101	220.05	1435
196.65	2598	206.95	17031	214.30	135	220.90	30340
197.00	3772	207.95	4523	214.60	273	221.60	2347
197.90	623338	208.95	1264	214.90	1183	222.00	776
198.90	43173	209.95	1306	215.60	304	222.95	7933
199.80	2975	210.40	1134	215.95	2177	224.00	81594
201.20	2011	210.90	4955	216.90	33939	225.00	18840

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.95	2758	235.85	1775	244.95	8138	252.00	418
226.90	25332	236.95	2039	246.00	8808	252.95	2410
227.90	3394	238.00	438	246.70	122	253.95	2632
228.90	6538	238.30	133	246.95	1926	254.90	309237
229.60	208	238.85	972	247.90	454	255.95	42042
229.80	479	239.95	1207	248.20	303	256.90	3544
230.95	4074	240.90	2084	248.95	2216	257.90	17060
232.05	128	241.90	3907	249.85	570	259.00	2492
232.90	976	242.50	115	250.10	167	259.70	152
233.90	1447	242.95	4800	250.85	1347	260.70	256
234.95	2376	244.00	62826	251.80	396	261.00	222

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
262.50	169	270.70	89	279.05	579	290.00	471
262.90	142	271.05	892	280.80	201	290.90	322
263.70	547	271.70	119	281.90	566	291.85	716
263.90	173	272.10	844	282.90	312	292.80	2599
264.95	5963	272.95	10412	283.10	1486	293.75	574
265.75	773	273.90	24604	283.95	1035	294.10	355
267.00	310	274.90	146159	284.95	2319	294.95	1168
267.70	271	275.95	19231	285.80	279	295.90	36541
269.30	178	276.90	11071	286.10	104	297.00	5782
269.75	411	277.80	187	288.80	318	297.65	315
270.00	411	277.95	1789	289.00	250	298.90	268

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
299.95	333	309.20	311	319.30	218	327.80	679
300.80	299	310.00	705	319.90	206	328.00	481
301.40	290	310.90	112	320.95	1221	328.90	284
301.95	816	311.10	133	321.90	479	329.80	147
302.90	6332	311.85	389	322.10	424	330.90	198
303.70	132	312.85	482	323.00	15692	331.80	529
303.95	356	313.95	2396	323.90	2207	332.00	400
304.80	125	314.90	3508	324.90	389	333.00	1628
306.90	127	316.00	2862	325.80	341	333.90	9317
307.70	162	316.80	148	326.40	175	334.80	384
308.00	641	317.05	305	326.85	2310	334.95	2110

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
335.80	315	349.70	215	357.70	111	371.70	349
336.00	106	350.10	142	358.90	504	371.90	9004
339.80	291	350.60	337	361.10	425	372.95	1924
341.00	2398	350.90	221	361.90	318	373.85	333
341.75	848	351.10	242	363.80	124	376.70	124
342.20	183	351.90	4307	364.90	19012	376.95	321
343.60	155	352.85	4041	366.00	3131	377.90	134
344.50	116	354.00	5259	366.90	159	382.95	2459
345.00	154	355.00	1110	369.95	800	383.75	535
345.90	2532	355.75	343	370.40	124	384.80	371
346.95	828	356.80	189	370.90	1571	386.70	120

Average of 2.718 to 2.729 min.: 6p477589.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
387.70	142	403.90	2363	424.00	6265	431.50	316
389.85	1201	405.00	391	425.00	769	432.50	160
390.80	835	409.10	109	426.60	253	433.00	367
391.10	337	410.20	194	427.30	411	433.85	361
392.05	907	410.40	133	427.60	141	434.30	213
393.10	284	414.60	148	427.90	394	434.50	109
397.05	313	418.60	174	428.55	966	435.00	123
400.70	528	420.95	4977	429.10	144	435.70	322
401.00	556	421.80	197	429.30	184	436.40	114
401.90	2959	421.95	3689	429.95	358	436.90	262
402.85	5976	422.90	30273	431.00	183	437.50	175

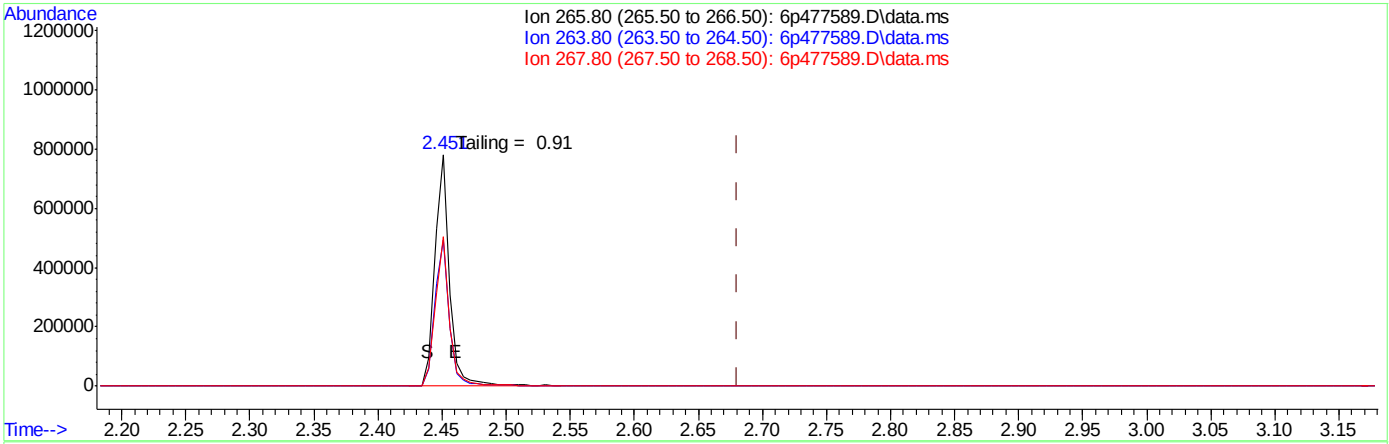
Average of 2.718 to 2.729 min.: 6p477589.D\data.ms
dftpp
Modified:subtracted

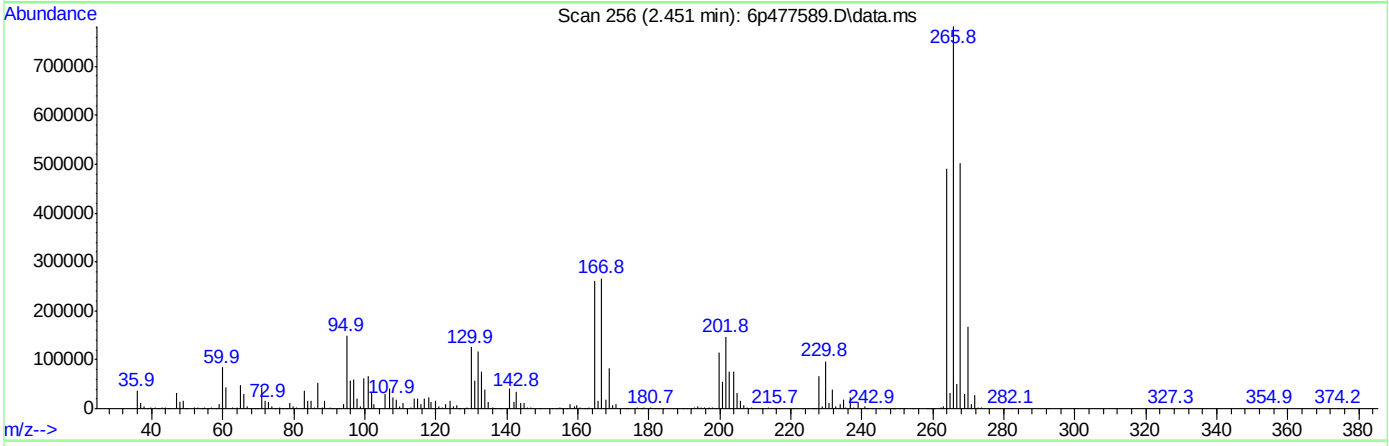
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
439.10	134						
441.00	76550						
442.00	486208						
443.00	96849						
443.80	867						
444.00	8199						
444.95	463						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477589.D
Acq On : 5 Dec 2018 7:17 pm
Operator : sufiyana
Sample : dftpp
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 19:23:54 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477589.D\data.ms

(1) Pentachlorophenol (t)

2.451min (-0.230) 0.00ppb

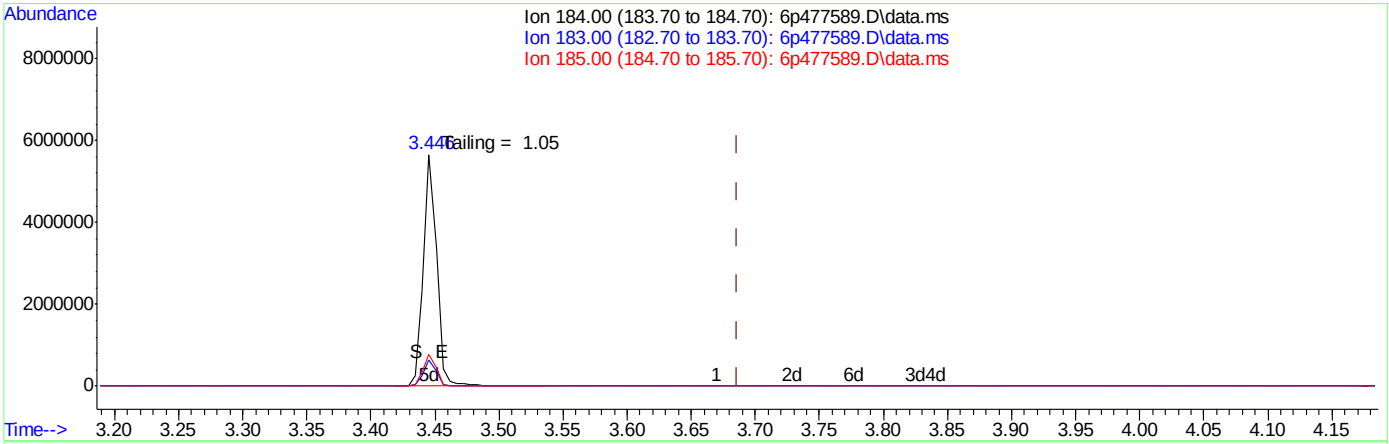
response 615672

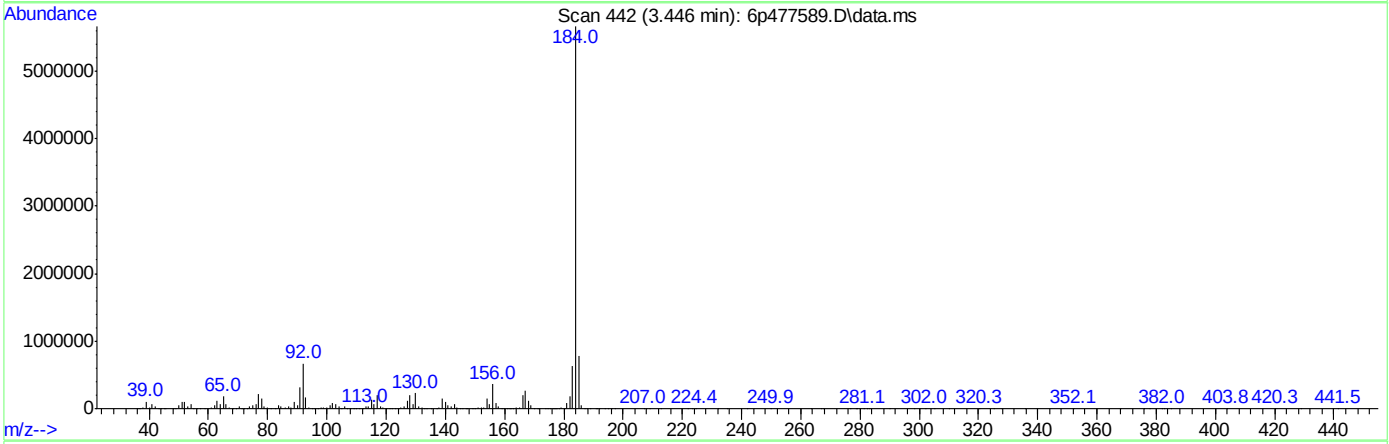
Ion	Exp%	Act%
265.80	100	100
263.80	63.40	62.80
267.80	63.30	64.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477589.D
Acq On : 5 Dec 2018 7:17 pm
Operator : sufiyana
Sample : dftpp
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 19:23:54 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477589.D\data.ms

(2) Benzidine (t)

3.446min (-0.241) 0.00ppb m

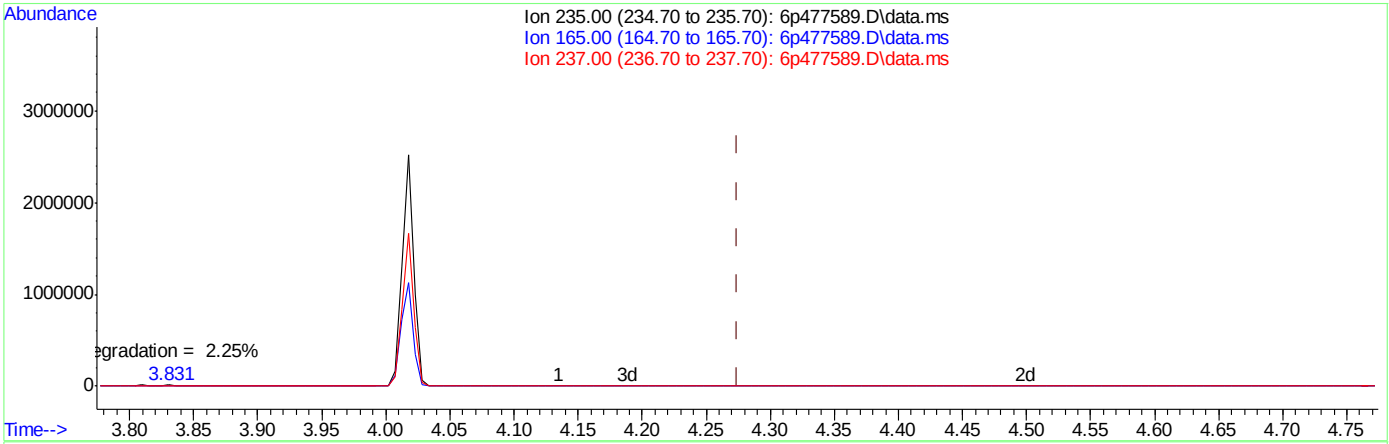
response 4057738

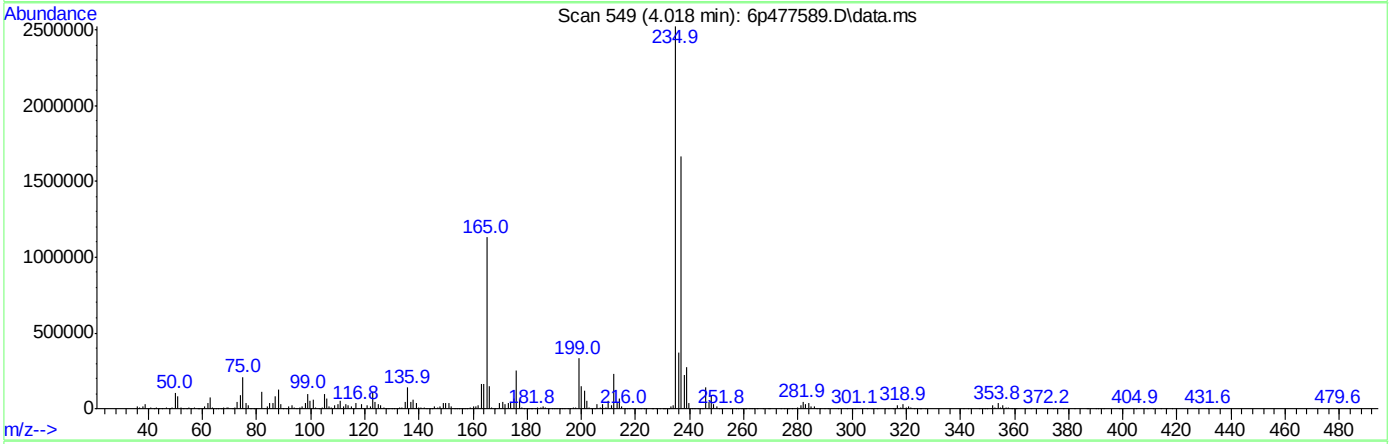
Ion	Exp%	Act%
184.00	100	100
183.00	11.90	11.12
185.00	14.20	13.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477589.D
Acq On : 5 Dec 2018 7:17 pm
Operator : sufiyana
Sample : dftpp
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 19:23:54 2018
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Thu Nov 08 16:53:32 2018
Response via : Initial Calibration





TIC: 6p477589.D\data.ms

(3) PP-DDT (t)

4.018min (-0.257) 0.00ppb m

response 1664651

Ion	Exp%	Act%
235.00	100	100
165.00	61.50	0.00#
237.00	62.60	0.09#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477018.D
Acq On : 15 Nov 2018 11:45 am
Operator : angelar
Sample : ic2400-100
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 13:42:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 11:39:13 2018
QLast Update : Thu Nov 15 13:40:58 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.526	152	930950	40.00	ppm		0.00
24) Naphthalene-d8	5.548	136	3874007	40.00	ppm		0.00
47) Acenaphthene-d10	7.281	164	2023519	40.00	ppm		0.00
69) Phenanthrene-d10	8.971	188	3717928	40.00	ppm		0.00
83) Chrysene-d12	12.148	240	3338285	40.00	ppm		0.00
91) Perylene-d12	13.747	264	3747429	40.00	ppm		0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	930950	40.00	ppm		0.00
103) Acenaphthene-d10a	7.281	164	2023519	40.00	ppm		0.00
105) Phenanthrene-d10a	8.971	188	3717928	40.00	ppm		0.00
109) Chrysene-d12a	12.148	240	3338285	40.00	ppm		0.00
111) Naphthalene-d8a	5.548	136	3874007	40.00	ppm		0.00
113) Phenanthrene-d10b	8.971	188	3717928	40.00	ppm		0.00
115) Chrysene-d12b	12.148	240	3338285	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	3.547	112	3436178	101.40	ppm		0.00
Spiked Amount 50.000			Recovery =	202.80%			
8) Phenol-d5	4.280	99	4181356	98.36	ppm		0.00
Spiked Amount 50.000			Recovery =	196.72%			
25) Nitrobenzene-d5	4.954	82	4268177	110.34	ppm		0.00
Spiked Amount 50.000			Recovery =	220.68%			
51) 2-Fluorobiphenyl	6.575	172	6407909	83.46	ppm		0.00
Spiked Amount 50.000			Recovery =	166.92%			
73) 2,4,6-Tribromophenol	8.169	330	1025877	122.47	ppm		0.00
Spiked Amount 50.000			Recovery =	244.94%			
85) Terphenyl-d14	10.907	244	6503614	96.31	ppm		0.00
Spiked Amount 50.000			Recovery =	192.62%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.012	88	1453545	101.82	ppm		94
3) Pyridine	2.349	79	4151960	110.97	ppm		95
4) N-Nitrosodimethylamine	2.322	74	2389788	107.33	ppm		88
6) Indene	4.719	116	5448586	97.65	ppm		99
7) Cumene	3.927	105	7179175	86.53	ppm		92
9) Phenol	4.291	94	4579797	94.91	ppm		77
10) Aniline	4.285	93	4794831	88.93	ppm		53
11) bis(2-Chloroethyl)ether	4.339	93	3690092	108.18	ppm		99
12) 2-Chlorophenol	4.376	128	3289499	93.20	ppm		86
13) Decane	4.419	43	4653994	108.45	ppm		97
14) 1,3-Dichlorobenzene	4.483	146	3468137	90.94	ppm		99
15) 1,4-Dichlorobenzene	4.537	146	3367952	87.92	ppm		99
16) Benzyl alcohol	4.644	108	2200236	101.58	ppm		86
17) 1,2-Dichlorobenzene	4.654	146	3190834	87.14	ppm		98
18) Acetophenone	4.842	105	4795953	102.38	ppm		89
19) 2-Methylphenol	4.735	108	3065250	96.53	ppm		98
20) 2,2'-oxybis(1-Chloropr...	4.735	121	1043262	93.83	ppm	#	50
21) 3&4-Methylphenol	4.852	108	3216115	99.22	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477018.D
Acq On : 15 Nov 2018 11:45 am
Operator : angelar
Sample : ic2400-100
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 13:42:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 11:39:13 2018
QLast Update : Thu Nov 15 13:40:58 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.847	70	2609903	106.24	ppm		93
23) Hexachloroethane	4.917	201	1179613	103.10	ppm		93
26) Nitrobenzene	4.970	77	4253785	107.36	ppm		89
27) Quinoline	5.895	129	6930206	92.93	ppm		94
28) Isophorone	5.168	82	7214503	105.09	ppm		93
29) 2-Nitrophenol	5.227	139	1745053	90.02	ppm		86
30) 2,4-Dimethylphenol	5.275	107	3374511	97.12	ppm		97
31) Benzoic acid	5.430	105	2930737	175.25	ppm		93
32) bis(2-Chloroethoxy)met...	5.344	93	4374446	104.07	ppm		96
33) 2,4-Dichlorophenol	5.435	162	2677528	95.36	ppm		95
34) 2,6-Dichlorophenol	5.628	162	2493589	89.66	ppm		97
35) 1,3,5-Trichlorobenzene	5.237	180	2766333	90.59	ppm		98
36) 1,2,4-Trichlorobenzene	5.500	180	2827598	95.97	ppm		99
37) 1,2,3-Trichlorobenzene	5.697	180	2674566	91.37	ppm		97
38) Naphthalene	5.564	128	7544630	69.79	ppm		92
39) 4-Chloroaniline	5.623	127	3812199	82.09	ppm		94
40) 2,3-Dichloroaniline	6.484	161	3163911	90.24	ppm		96
41) Caprolactam	5.970	55	2211088	116.23	ppm		94
42) Hexachlorobutadiene	5.681	225	1513237	100.09	ppm		99
43) 4-Chloro-3-methylphenol	6.083	107	3206392	106.57	ppm		90
44) 2-Methylnaphthalene	6.206	141	4812260	84.69	ppm		94
45) 1-Methylnaphthalene	6.302	141	5333355	84.85	ppm		96
46) Dimethylnaphthalene	6.837	156	5547434	87.55	ppm		99
48) Hexachlorocyclopentadiene	6.366	237	3158918	197.50	ppm		100
49) 2,4,6-Trichlorophenol	6.494	196	1705455	96.33	ppm		95
50) 2,4,5-Trichlorophenol	6.543	196	1955933	103.63	ppm		97
52) 2-Chloronaphthalene	6.692	162	5512593	84.15	ppm		98
53) Biphenyl	6.676	154	7164214	81.41	ppm		94
54) 2-Nitroaniline	6.810	65	2535362	117.90	ppm		92
55) Dimethylphthalate	7.008	163	6773349	92.98	ppm		100
56) Acenaphthylene	7.126	152	8356930	80.34	ppm		90
57) 2,6-Dinitrotoluene	7.067	165	1561412	94.36	ppm		87
58) 3-Nitroaniline	7.249	138	1986022	98.11	ppm		84
59) Acenaphthene	7.318	153	5934288	87.22	ppm		99
60) 2,4-Dinitrophenol	7.366	184	1606133	252.86	ppm	#	72
61) 4-Nitrophenol	7.468	109	1060337	120.22	ppm	#	84
62) Dibenzofuran	7.511	168	7226495	79.39	ppm		97
63) 2,4-Dinitrotoluene	7.505	165	1937776	89.32	ppm		61
64) 2,3,4,6-Tetrachlorophenol	7.660	232	1603923	116.24	ppm		93
65) Diethylphthalate	7.799	149	6333175	88.24	ppm		97
66) Fluorene	7.890	166	5980045	81.56	ppm		97
67) 4-Chlorophenyl-phenyle...	7.901	204	2807490	88.19	ppm		97
68) 4-Nitroaniline	7.944	138	1927161	91.65	ppm		82
70) 4,6-Dinitro-2-methylph...	7.976	198	1216366	128.77	ppm	#	71
71) n-Nitrosodiphenylamine	8.045	169	4696399	85.38	ppm		99
72) 1,2-Diphenylhydrazine	8.083	77	8011411	101.78	ppm		97
74) 4-Bromophenyl-phenylether	8.463	248	1758108	93.10	ppm		95
75) Hexachlorobenzene	8.532	284	1967554	95.22	ppm		97
76) Pentachlorophenol	8.773	266	2474419	256.35	ppm		99
77) Phenanthrene	9.003	178	8692919	86.16	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477018.D
Acq On : 15 Nov 2018 11:45 am
Operator : angelar
Sample : ic2400-100
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 13:42:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 11:39:13 2018
QLast Update : Thu Nov 15 13:40:58 2018
Response via : Initial Calibration

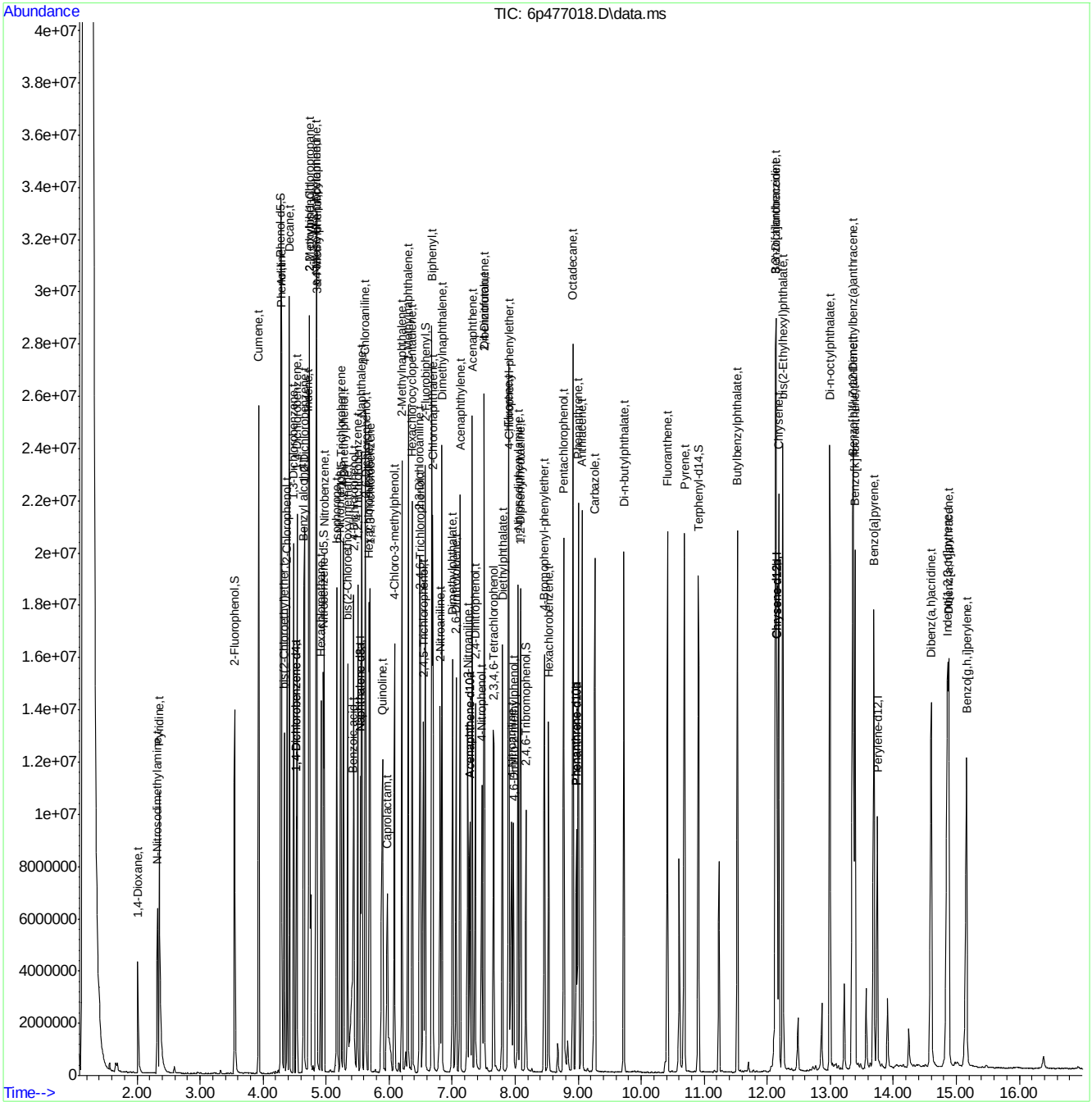
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.062	178	8976895	88.62	ppm	97
79) Carbazole	9.265	167	8788158	83.87	ppm	99
80) Di-n-butylphthalate	9.725	149	9687281	81.38	ppm	93
81) Fluoranthene	10.420	202	9559973	93.85	ppm	97
82) Octadecane	8.917	57	5772735	102.87	ppm	96
84) Pyrene	10.688	202	10063716	91.62	ppm	98
86) Butylbenzylphthalate	11.527	149	5086342	110.38	ppm	85
87) Benzo[a]anthracene	12.137	228	8559605	91.28	ppm	100
88) 3,3'-Dichlorobenzidine	12.137	252	3250939	111.36	ppm	99
89) Chrysene	12.185	228	8841020	92.18	ppm	98
90) bis(2-Ethylhexyl)phtha...	12.250	149	6796660	120.36	ppm	98
92) Di-n-octylphthalate	12.993	149	10968197	114.47	ppm	86
93) Benzo[b]fluoranthene	13.367	252	9750629	111.18	ppm	98
94) Benzo[k]fluoranthene	13.394	252	7886916	76.80	ppm	97
95) Benzo[a]pyrene	13.694	252	8515801	107.80	ppm	97
96) Indeno[1,2,3-cd]pyrene	14.860	276	10957208	112.39	ppm	93
97) Dibenz(a,h)acridine	14.603	279	8409960	127.70	ppm	98
98) Dibenz[a,h]anthracene	14.881	278	9321953	118.03	ppm	95
99) 7,12-Dimethylbenz(a)an...	13.362	256	4254928	94.64	ppm	99
100) Benzo[g,h,i]perylene	15.165	276	9044854	111.13	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477018.D
Acq On : 15 Nov 2018 11:45 am
Operator : angelar
Sample : ic2400-100
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 15 13:42:20 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 11:39:13 2018
QLast Update : Thu Nov 15 13:40:58 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477019.D
Acq On : 15 Nov 2018 12:09 pm
Operator : angelar
Sample : ic2400-2
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 13:46:17 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:44:05 2018
QLast Update : Thu Nov 15 13:45:00 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.521	152	846473	40.00	ppm		0.00
24) Naphthalene-d8	5.542	136	3524894	40.00	ppm		0.00
47) Acenaphthene-d10	7.275	164	1851396	40.00	ppm		0.00
69) Phenanthrene-d10	8.966	188	3461999	40.00	ppm		0.00
83) Chrysene-d12	12.137	240	3285955	40.00	ppm		0.00
91) Perylene-d12	13.736	264	3540399	40.00	ppm		0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	846473	40.00	ppm		0.00
103) Acenaphthene-d10a	7.275	164	1851396	40.00	ppm		0.00
105) Phenanthrene-d10a	8.966	188	3461999	40.00	ppm		0.00
109) Chrysene-d12a	12.137	240	3285955	40.00	ppm		0.00
111) Naphthalene-d8a	5.542	136	3524894	40.00	ppm		0.00
113) Phenanthrene-d10b	8.966	188	3461999	40.00	ppm		0.00
115) Chrysene-d12b	12.137	240	3285955	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	3.553	112	65639	2.13	ppm		0.00
Spiked Amount 50.000			Recovery =	4.26%			
8) Phenol-d5	4.275	99	90834	2.35	ppm		0.00
Spiked Amount 50.000			Recovery =	4.70%			
25) Nitrobenzene-d5	4.943	82	86443	2.46	ppm		0.00
Spiked Amount 50.000			Recovery =	4.92%			
51) 2-Fluorobiphenyl	6.564	172	149171	2.12	ppm		0.00
Spiked Amount 50.000			Recovery =	4.24%			
73) 2,4,6-Tribromophenol	8.158	330	15012	1.92	ppm		0.00
Spiked Amount 50.000			Recovery =	3.84%			
85) Terphenyl-d14	10.896	244	136840	2.06	ppm		0.00
Spiked Amount 50.000			Recovery =	4.12%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.018	88	27828	2.14	ppm		86
3) Pyridine	2.392	79	75964	2.23	ppm		98
4) N-Nitrosodimethylamine	2.328	74	44212	2.18	ppm		87
6) Indene	4.719	116	120130	2.37	ppm		98
7) Cumene	3.927	105	185519	2.46	ppm		96
9) Phenol	4.285	94	102484	2.34	ppm		57
10) Aniline	4.280	93	124394	2.54	ppm		68
11) bis(2-Chloroethyl)ether	4.328	93	78377	2.53	ppm		94
12) 2-Chlorophenol	4.376	128	68926	2.15	ppm		86
13) Decane	4.414	43	110846	2.84	ppm		96
14) 1,3-Dichlorobenzene	4.483	146	77397	2.23	ppm		94
15) 1,4-Dichlorobenzene	4.537	146	84580	2.43	ppm		97
16) Benzyl alcohol	4.633	108	41888	2.13	ppm		73
17) 1,2-Dichlorobenzene	4.649	146	74674	2.24	ppm		94
18) Acetophenone	4.826	105	107826	2.53	ppm		95
19) 2-Methylphenol	4.729	108	67043	2.32	ppm		94
20) 2,2'-oxybis(1-Chloropr...	4.729	121	23918	2.37	ppm	#	52
21) 3&4-Methylphenol	4.847	108	70568	2.39	ppm		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477019.D
Acq On : 15 Nov 2018 12:09 pm
Operator : angelar
Sample : ic2400-2
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 13:46:17 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:44:05 2018
QLast Update : Thu Nov 15 13:45:00 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22)	n-Nitroso-di-n-propyla...	4.831	70	61890	2.77	ppm		89
23)	Hexachloroethane	4.911	201	25437	2.45	ppm		93
26)	Nitrobenzene	4.959	77	88415	2.45	ppm		91
27)	Quinoline	5.858	129	139418	2.05	ppm		90
28)	Isophorone	5.152	82	153193	2.45	ppm		92
29)	2-Nitrophenol	5.221	139	34656	1.96	ppm		92
30)	2,4-Dimethylphenol	5.264	107	67650	2.14	ppm		93
31)	Benzoic acid	5.334	105	18611	1.22	ppm		88
32)	bis(2-Chloroethoxy)met...	5.334	93	94165	2.46	ppm		93
33)	2,4-Dichlorophenol	5.435	162	52758	2.07	ppm		99
34)	2,6-Dichlorophenol	5.617	162	56190	2.22	ppm		93
35)	1,3,5-Trichlorobenzene	5.232	180	66258	2.38	ppm		94
36)	1,2,4-Trichlorobenzene	5.494	180	62141	2.32	ppm		94
37)	1,2,3-Trichlorobenzene	5.687	180	62782	2.36	ppm		94
38)	Naphthalene	5.558	128	213522	2.17	ppm		96
39)	4-Chloroaniline	5.607	127	86402	2.04	ppm		91
40)	2,3-Dichloroaniline	6.478	161	67487	2.12	ppm		94
41)	Caprolactam	5.906	55	42154	2.44	ppm		90
42)	Hexachlorobutadiene	5.676	225	33737	2.45	ppm		97
43)	4-Chloro-3-methylphenol	6.067	107	61382	2.24	ppm		92
44)	2-Methylnaphthalene	6.195	141	109433	2.12	ppm		97
45)	1-Methylnaphthalene	6.291	141	117378	2.05	ppm		96
46)	Dimethylnaphthalene	6.826	156	123327	2.14	ppm		98
48)	Hexachlorocyclopentadiene	6.361	237	52723	3.60	ppm		97
49)	2,4,6-Trichlorophenol	6.484	196	33449	2.07	ppm		93
50)	2,4,5-Trichlorophenol	6.532	196	33583	1.94	ppm		99
52)	2-Chloronaphthalene	6.682	162	130256	2.17	ppm		96
53)	Biphenyl	6.666	154	178821	2.22	ppm		99
54)	2-Nitroaniline	6.789	65	41930	2.13	ppm		91
55)	Dimethylphthalate	6.992	163	143874	2.16	ppm		97
56)	Acenaphthylene	7.115	152	189516	1.99	ppm		99
57)	2,6-Dinitrotoluene	7.045	165	28124	1.86	ppm		85
58)	3-Nitroaniline	7.227	138	36451	1.97	ppm		84
59)	Acenaphthene	7.307	153	134423	2.16	ppm		95
60)	2,4-Dinitrophenol	7.361	184	7339	1.26	ppm	#	45
61)	4-Nitrophenol	7.457	109	15727	1.95	ppm	#	68
62)	Dibenzofuran	7.500	168	177655	2.13	ppm		98
63)	2,4-Dinitrotoluene	7.489	165	37676	1.90	ppm		76
64)	2,3,4,6-Tetrachlorophenol	7.650	232	22100	1.75	ppm		93
65)	Diethylphthalate	7.778	149	140302	2.14	ppm		96
66)	Fluorene	7.880	166	141966	2.12	ppm		86
67)	4-Chlorophenyl-phenyle...	7.896	204	70115	2.41	ppm		92
68)	4-Nitroaniline	7.906	138	39183	2.04	ppm		99
70)	4,6-Dinitro-2-methylph...	7.955	198	8344	0.95	ppm		85
71)	n-Nitrosodiphenylamine	8.030	169	102964	2.01	ppm		93
72)	1,2-Diphenylhydrazine	8.072	77	167551	2.29	ppm		97
74)	4-Bromophenyl-phenylether	8.457	248	37473	2.13	ppm		95
75)	Hexachlorobenzene	8.516	284	44378	2.31	ppm		97
76)	Pentachlorophenol	8.768	266	22303	2.48	ppm		90
77)	Phenanthrene	8.992	178	206848	2.20	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477019.D
Acq On : 15 Nov 2018 12:09 pm
Operator : angelar
Sample : ic2400-2
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 13:46:17 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:44:05 2018
QLast Update : Thu Nov 15 13:45:00 2018
Response via : Initial Calibration

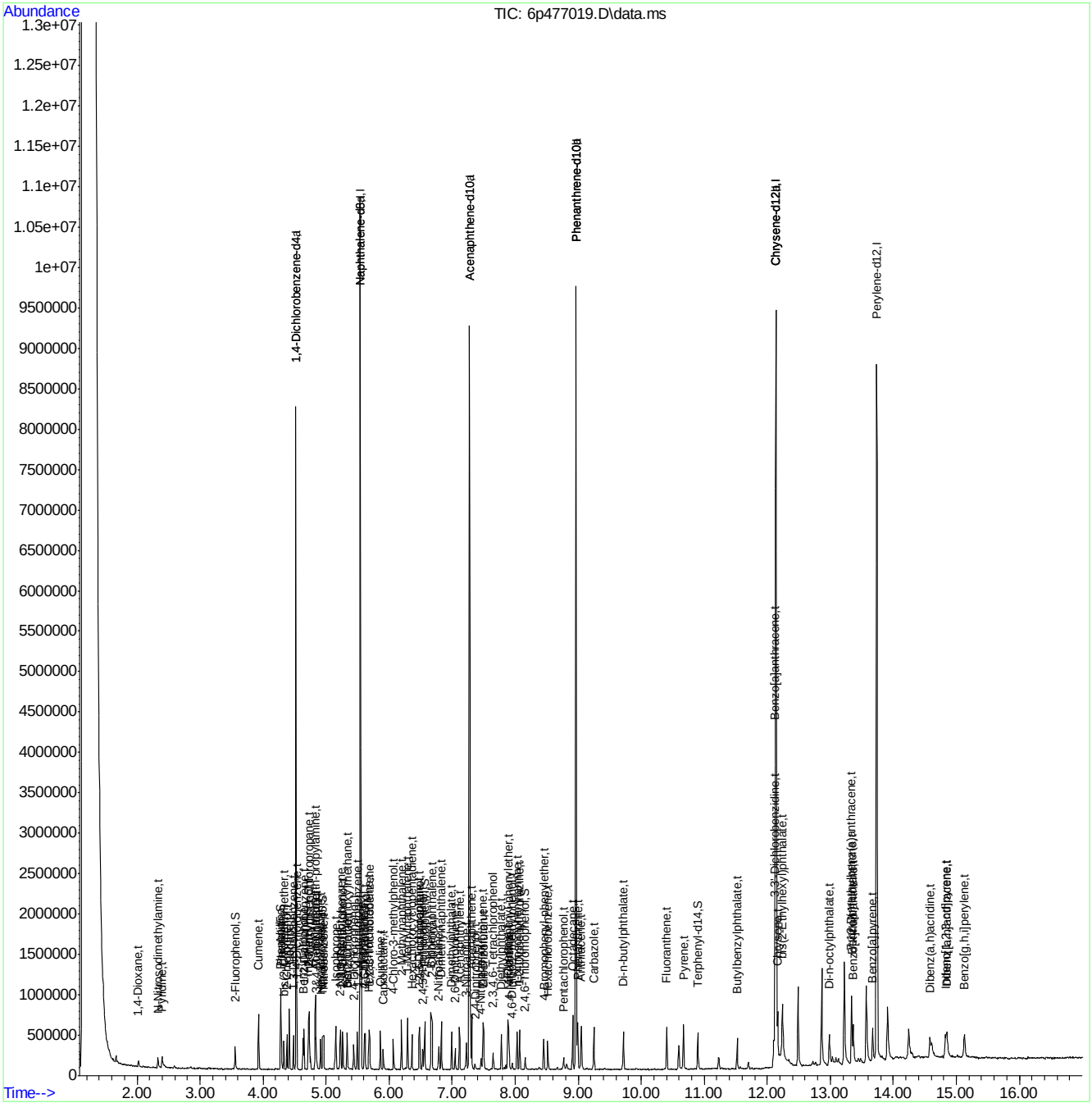
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.046	178	204228	2.17	ppm	96
79) Carbazole	9.249	167	196551	2.01	ppm	98
80) Di-n-butylphthalate	9.720	149	219887	1.98	ppm	98
81) Fluoranthene	10.404	202	209756	2.21	ppm	97
82) Octadecane	8.912	57	121480	2.32	ppm	95
84) Pyrene	10.672	202	216849	2.01	ppm	98
86) Butylbenzylphthalate	11.522	149	90134	1.99	ppm	95
87) Benzo[a]anthracene	12.127	228	205321	2.22	ppm	99
88) 3,3'-Dichlorobenzidine	12.121	252	73165	2.55	ppm	89
89) Chrysene	12.164	228	211080	2.24	ppm	96
90) bis(2-Ethylhexyl)phtha...	12.244	149	153037	2.75	ppm	99
92) Di-n-octylphthalate	12.988	149	217239	2.40	ppm	95
93) Benzo[b]fluoranthene	13.341	252	203886	2.46	ppm	90
94) Benzo[k]fluoranthene	13.367	252	210759	2.17	ppm	93
95) Benzo[a]pyrene	13.672	252	181432	2.43	ppm	99
96) Indeno[1,2,3-cd]pyrene	14.828	276	224477	2.44	ppm	88
97) Dibenz(a,h)acridine	14.582	279	160059	2.57	ppm	97
98) Dibenz[a,h]anthracene	14.849	278	184714	2.48	ppm	91
99) 7,12-Dimethylbenz(a)an...	13.335	256	82581	1.94	ppm	94
100) Benzo[g,h,i]perylene	15.127	276	182925	2.38	ppm	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477019.D
Acq On : 15 Nov 2018 12:09 pm
Operator : angelar
Sample : ic2400-2
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 15 13:46:17 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:44:05 2018
QLast Update : Thu Nov 15 13:45:00 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477020.D
Acq On : 15 Nov 2018 12:32 pm
Operator : angelar
Sample : ic2400-80
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 13:48:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:46:53 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.526	152	772825	40.00	ppm		0.00
24) Naphthalene-d8	5.548	136	3259661	40.00	ppm		0.00
47) Acenaphthene-d10	7.275	164	1696469	40.00	ppm		0.00
69) Phenanthrene-d10	8.971	188	3073867	40.00	ppm		0.00
83) Chrysene-d12	12.148	240	2802765	40.00	ppm		0.00
91) Perylene-d12	13.742	264	3157547	40.00	ppm		0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	772825	40.00	ppm		0.00
103) Acenaphthene-d10a	7.275	164	1696469	40.00	ppm		0.00
105) Phenanthrene-d10a	8.971	188	3073867	40.00	ppm		0.00
109) Chrysene-d12a	12.148	240	2802765	40.00	ppm		0.00
111) Naphthalene-d8a	5.548	136	3259661	40.00	ppm		0.00
113) Phenanthrene-d10b	8.971	188	3073867	40.00	ppm		0.00
115) Chrysene-d12b	12.148	240	2802765	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	3.542	112	2415910	85.88	ppm		0.00
Spiked Amount 50.000			Recovery =	171.76%			
8) Phenol-d5	4.275	99	3044041	86.26	ppm		0.00
Spiked Amount 50.000			Recovery =	172.52%			
25) Nitrobenzene-d5	4.954	82	2998203	92.12	ppm		0.00
Spiked Amount 50.000			Recovery =	184.24%			
51) 2-Fluorobiphenyl	6.575	172	4621682	71.80	ppm		0.00
Spiked Amount 50.000			Recovery =	143.60%			
73) 2,4,6-Tribromophenol	8.169	330	695165	100.38	ppm		0.00
Spiked Amount 50.000			Recovery =	200.76%			
85) Terphenyl-d14	10.907	244	4665063	82.29	ppm		0.00
Spiked Amount 50.000			Recovery =	164.58%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.007	88	1028255	86.77	ppm		99
3) Pyridine	2.349	79	2961932	95.36	ppm		98
4) N-Nitrosodimethylamine	2.312	74	1678215	90.80	ppm		86
6) Indene	4.719	116	3871725	83.59	ppm		99
7) Cumene	3.927	105	5943558	86.30	ppm		94
9) Phenol	4.285	94	3232073	80.69	ppm	#	56
10) Aniline	4.285	93	3491520	78.00	ppm	#	19
11) bis(2-Chloroethyl)ether	4.334	93	2616327	92.39	ppm		97
12) 2-Chlorophenol	4.376	128	2348155	80.14	ppm		89
13) Decane	4.414	43	3407367	95.65	ppm		94
14) 1,3-Dichlorobenzene	4.483	146	2442480	77.15	ppm		98
15) 1,4-Dichlorobenzene	4.537	146	2419438	76.08	ppm		99
16) Benzyl alcohol	4.638	108	1558975	86.70	ppm		81
17) 1,2-Dichlorobenzene	4.654	146	2318960	76.29	ppm		100
18) Acetophenone	4.836	105	3388651	87.14	ppm		90
19) 2-Methylphenol	4.729	108	2166085	82.17	ppm		99
20) 2,2'-oxybis(1-Chloropr...	4.735	121	738944	80.06	ppm	#	46
21) 3&4-Methylphenol	4.847	108	2271746	84.43	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477020.D
Acq On : 15 Nov 2018 12:32 pm
Operator : angelar
Sample : ic2400-80
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 13:48:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:46:53 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22)	n-Nitroso-di-n-propyla...	4.842	70	1860924	91.25	ppm		90
23)	Hexachloroethane	4.917	201	837903	88.22	ppm		94
26)	Nitrobenzene	4.965	77	3036180	91.07	ppm		86
27)	Quinoline	5.879	129	4821751	76.84	ppm		96
28)	Isophorone	5.163	82	5064837	87.68	ppm		92
29)	2-Nitrophenol	5.227	139	1241508	76.11	ppm		85
30)	2,4-Dimethylphenol	5.270	107	2367581	80.99	ppm		96
31)	Benzoic acid	5.409	105	1960133	139.30	ppm		92
32)	bis(2-Chloroethoxy)met...	5.339	93	3121647	88.26	ppm		96
33)	2,4-Dichlorophenol	5.435	162	1854934	78.51	ppm		96
34)	2,6-Dichlorophenol	5.628	162	1761703	75.29	ppm		98
35)	1,3,5-Trichlorobenzene	5.237	180	1988343	77.38	ppm		97
36)	1,2,4-Trichlorobenzene	5.500	180	1979552	79.85	ppm		98
37)	1,2,3-Trichlorobenzene	5.692	180	1914117	77.71	ppm		98
38)	Naphthalene	5.564	128	6355798	69.87	ppm		97
39)	4-Chloroaniline	5.617	127	2734102	69.97	ppm		91
40)	2,3-Dichloroaniline	6.484	161	2239029	75.89	ppm		96
41)	Caprolactam	5.960	55	1556401	97.23	ppm		95
42)	Hexachlorobutadiene	5.681	225	1064755	83.70	ppm		99
43)	4-Chloro-3-methylphenol	6.077	107	2276609	89.93	ppm		90
44)	2-Methylnaphthalene	6.200	141	3521199	73.65	ppm		95
45)	1-Methylnaphthalene	6.297	141	3879819	73.36	ppm		97
46)	Dimethylnaphthalene	6.837	156	4001323	75.05	ppm		99
48)	Hexachlorocyclopentadiene	6.366	237	2213784	165.10	ppm		99
49)	2,4,6-Trichlorophenol	6.494	196	1180478	79.53	ppm		96
50)	2,4,5-Trichlorophenol	6.537	196	1337392	84.52	ppm		97
52)	2-Chloronaphthalene	6.687	162	3992029	72.68	ppm		98
53)	Biphenyl	6.676	154	5393603	73.10	ppm		100
54)	2-Nitroaniline	6.805	65	1804294	100.08	ppm		92
55)	Dimethylphthalate	7.008	163	4795416	78.52	ppm		98
56)	Acenaphthylene	7.126	152	6375240	73.10	ppm		99
57)	2,6-Dinitrotoluene	7.061	165	1104990	79.65	ppm		86
58)	3-Nitroaniline	7.243	138	1389108	81.85	ppm		81
59)	Acenaphthene	7.313	153	4365174	76.53	ppm		97
60)	2,4-Dinitrophenol	7.361	184	1018864	191.33	ppm		85
61)	4-Nitrophenol	7.457	109	725889	98.16	ppm	#	74
62)	Dibenzofuran	7.505	168	5257392	68.89	ppm		97
63)	2,4-Dinitrotoluene	7.500	165	1391705	76.51	ppm		71
64)	2,3,4,6-Tetrachlorophenol	7.655	232	1089124	94.15	ppm		96
65)	Diethylphthalate	7.794	149	4595145	76.37	ppm		98
66)	Fluorene	7.890	166	4406418	71.68	ppm		97
67)	4-Chlorophenyl-phenyle...	7.901	204	2010389	75.33	ppm		96
68)	4-Nitroaniline	7.933	138	1382265	78.41	ppm		84
70)	4,6-Dinitro-2-methylph...	7.965	198	784691	100.48	ppm		98
71)	n-Nitrosodiphenylamine	8.040	169	3329613	73.22	ppm		98
72)	1,2-Diphenylhydrazine	8.083	77	5845055	89.81	ppm		97
74)	4-Bromophenyl-phenylether	8.463	248	1251852	80.18	ppm		98
75)	Hexachlorobenzene	8.527	284	1381408	80.86	ppm		95
76)	Pentachlorophenol	8.768	266	1661621	208.21	ppm		98
77)	Phenanthrene	8.998	178	6345005	76.06	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477020.D
Acq On : 15 Nov 2018 12:32 pm
Operator : angelar
Sample : ic2400-80
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 13:48:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:46:53 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

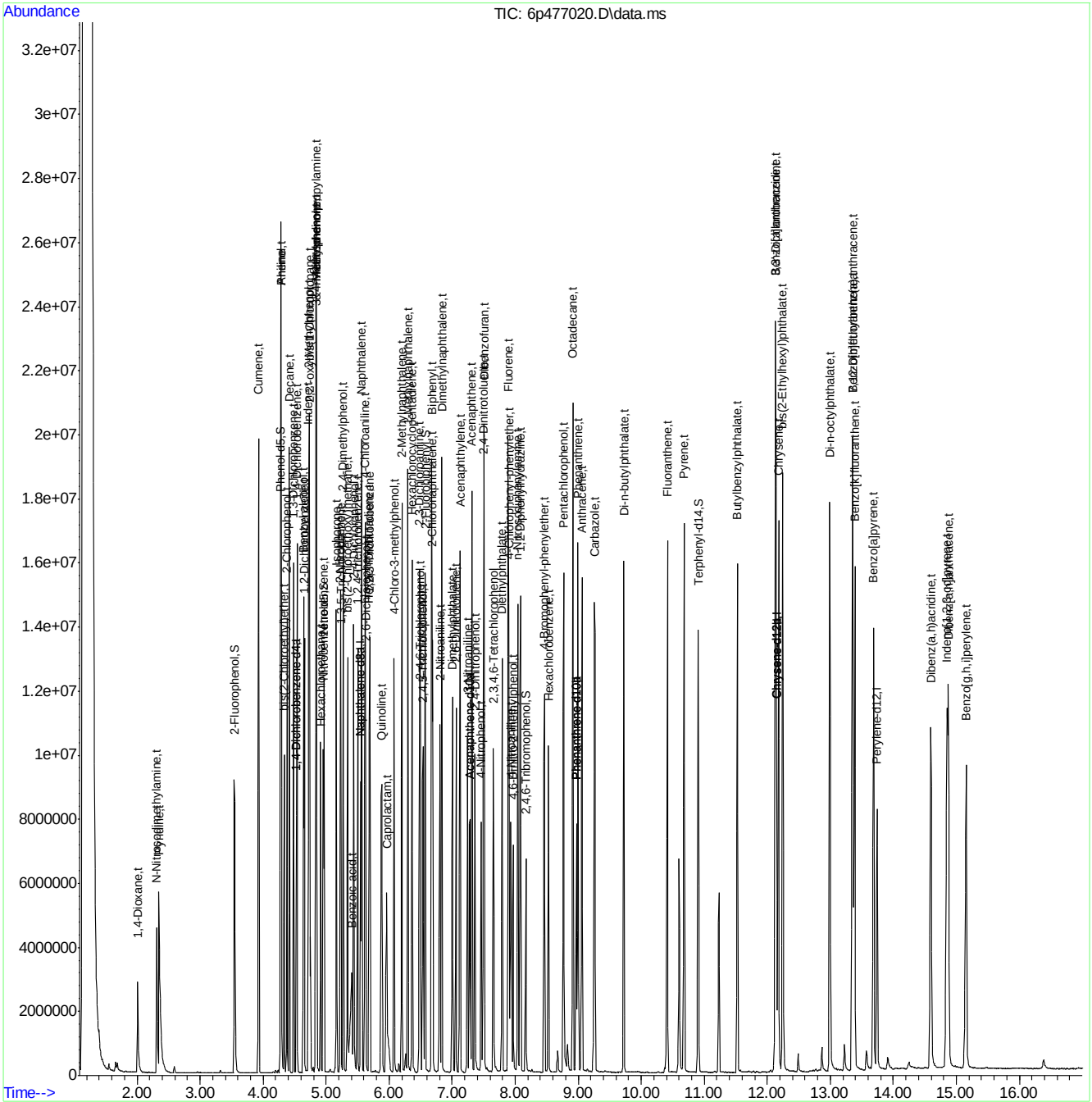
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	9.062	178	6580962	78.58	ppm	99
79)	Carbazole	9.260	167	6351664	73.32	ppm	99
80)	Di-n-butylphthalate	9.725	149	7754701	78.79	ppm	99
81)	Fluoranthene	10.415	202	7019087	83.34	ppm	98
82)	Octadecane	8.917	57	4171798	89.92	ppm	95
84)	Pyrene	10.682	202	7404585	80.30	ppm	99
86)	Butylbenzylphthalate	11.527	149	3647719	94.28	ppm	87
87)	Benzo[a]anthracene	12.132	228	6240117	79.26	ppm	100
88)	3,3'-Dichlorobenzidine	12.132	252	2342433	95.57	ppm	99
89)	Chrysene	12.180	228	6527223	81.06	ppm	99
90)	bis(2-Ethylhexyl)phtha...	12.244	149	4928487	103.95	ppm	100
92)	Di-n-octylphthalate	12.993	149	8775342	108.70	ppm	97
93)	Benzo[b]fluoranthene	13.357	252	6838748	92.54	ppm	98
94)	Benzo[k]fluoranthene	13.389	252	6121041	70.74	ppm	97
95)	Benzo[a]pyrene	13.688	252	6190856	93.01	ppm	96
96)	Indeno[1,2,3-cd]pyrene	14.854	276	7832194	95.35	ppm	90
97)	Dibenz(a,h)acridine	14.598	279	5942122	107.08	ppm	98
98)	Dibenz[a,h]anthracene	14.876	278	6643205	99.83	ppm	95
99)	7,12-Dimethylbenz(a)an...	13.357	256	3022805	79.79	ppm	98
100)	Benzo[g,h,i]perylene	15.159	276	6515575	95.01	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477020.D
Acq On : 15 Nov 2018 12:32 pm
Operator : angelar
Sample : ic2400-80
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 15 13:48:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:46:53 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
11/20/18 00:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477021.D
Acq On : 15 Nov 2018 12:56 pm
Operator : angelar
Sample : ic2400-1
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 13:50:28 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.521	152	892372	40.00	ppm		0.00
24) Naphthalene-d8	5.542	136	3622154	40.00	ppm		0.00
47) Acenaphthene-d10	7.275	164	1919869	40.00	ppm		0.00
69) Phenanthrene-d10	8.965	188	3629276	40.00	ppm		0.00
83) Chrysene-d12	12.137	240	3413556	40.00	ppm		-0.01
91) Perylene-d12	13.742	264	3615284	40.00	ppm		0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	892372	40.00	ppm		0.00
103) Acenaphthene-d10a	7.275	164	1919869	40.00	ppm		0.00
105) Phenanthrene-d10a	8.965	188	3629276	40.00	ppm		0.00
109) Chrysene-d12a	12.137	240	3413556	40.00	ppm		-0.01
111) Naphthalene-d8a	5.542	136	3622154	40.00	ppm		0.00
113) Phenanthrene-d10b	8.965	188	3629276	40.00	ppm		0.00
115) Chrysene-d12b	12.137	240	3413556	40.00	ppm		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	3.553	112	34250	1.05	ppm		0.00
Spiked Amount 50.000			Recovery =	2.10%			
8) Phenol-d5	4.275	99	46922	1.15	ppm		0.00
Spiked Amount 50.000			Recovery =	2.30%			
25) Nitrobenzene-d5	4.943	82	46384	1.28	ppm		-0.01
Spiked Amount 50.000			Recovery =	2.56%			
51) 2-Fluorobiphenyl	6.564	172	79790	1.10	ppm		-0.01
Spiked Amount 50.000			Recovery =	2.20%			
73) 2,4,6-Tribromophenol	8.158	330	7881	0.96	ppm		-0.01
Spiked Amount 50.000			Recovery =	1.92%			
85) Terphenyl-d14	10.896	244	70182	1.02	ppm		-0.01
Spiked Amount 50.000			Recovery =	2.04%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.023	88	14641	1.07	ppm		96
3) Pyridine	2.408	79	39378	1.10	ppm		82
4) N-Nitrosodimethylamine	2.333	74	23945	1.12	ppm		77
6) Indene	4.719	116	59199	1.11	ppm		85
7) Cumene	3.927	105	98084	1.23	ppm		95
9) Phenol	4.285	94	55291	1.20	ppm	#	48
10) Aniline	4.280	93	66330	1.28	ppm		75
11) bis(2-Chloroethyl)ether	4.328	93	40942	1.25	ppm		87
12) 2-Chlorophenol	4.376	128	34589	1.02	ppm		90
13) Decane	4.414	43	55350	1.35	ppm		97
14) 1,3-Dichlorobenzene	4.483	146	40158	1.10	ppm		94
15) 1,4-Dichlorobenzene	4.537	146	40339	1.10	ppm		100
16) Benzyl alcohol	4.633	108	22901	1.10	ppm		90
17) 1,2-Dichlorobenzene	4.649	146	35640	1.02	ppm		94
18) Acetophenone	4.831	105	59537	1.33	ppm		84
19) 2-Methylphenol	4.729	108	33737	1.11	ppm		95
20) 2,2'-oxybis(1-Chloropr...	4.735	121	12661	1.19	ppm	#	95
21) 3&4-Methylphenol	4.847	108	37479	1.21	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477021.D
Acq On : 15 Nov 2018 12:56 pm
Operator : angelar
Sample : ic2400-1
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 13:50:28 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.831	70	31544	1.34	ppm		85
23) Hexachloroethane	4.911	201	12105	1.10	ppm		92
26) Nitrobenzene	4.959	77	48011	1.30	ppm		92
27) Quinoline	5.863	129	71033	1.02	ppm		93
28) Isophorone	5.152	82	83166	1.30	ppm		92
29) 2-Nitrophenol	5.221	139	19070	1.05	ppm		88
30) 2,4-Dimethylphenol	5.264	107	33293	1.02	ppm		95
31) Benzoic acid	5.334	105	8113	0.52	ppm		83
32) bis(2-Chloroethoxy)met...	5.334	93	50265	1.28	ppm		92
33) 2,4-Dichlorophenol	5.441	162	28232	1.08	ppm		94
34) 2,6-Dichlorophenol	5.622	162	28431	1.09	ppm		93
35) 1,3,5-Trichlorobenzene	5.232	180	33291	1.17	ppm		89
36) 1,2,4-Trichlorobenzene	5.494	180	31654	1.15	ppm		89
37) 1,2,3-Trichlorobenzene	5.687	180	31059	1.13	ppm		96
38) Naphthalene	5.558	128	110456	1.09	ppm		97
39) 4-Chloroaniline	5.606	127	45639	1.05	ppm		92
40) 2,3-Dichloroaniline	6.478	161	34687	1.06	ppm		92
41) Caprolactam	5.906	55	19742	1.11	ppm		88
42) Hexachlorobutadiene	5.676	225	19790	1.40	ppm		90
43) 4-Chloro-3-methylphenol	6.066	107	31307	1.11	ppm		94
44) 2-Methylnaphthalene	6.195	141	57071	1.07	ppm		98
45) 1-Methylnaphthalene	6.291	141	66234	1.13	ppm		92
46) Dimethylnaphthalene	6.826	156	64597	1.09	ppm		98
48) Hexachlorocyclopentadiene	6.361	237	27558	1.82	ppm		97
49) 2,4,6-Trichlorophenol	6.484	196	15865	0.94	ppm		95
50) 2,4,5-Trichlorophenol	6.532	196	17038	0.95	ppm		95
52) 2-Chloronaphthalene	6.681	162	68959	1.11	ppm		96
53) Biphenyl	6.665	154	100805	1.21	ppm		97
54) 2-Nitroaniline	6.788	65	26382	1.29	ppm		86
55) Dimethylphthalate	6.992	163	76543	1.11	ppm		95
56) Acenaphthylene	7.115	152	99272	1.01	ppm		95
57) 2,6-Dinitrotoluene	7.051	165	14928	0.95	ppm		89
58) 3-Nitroaniline	7.227	138	18128	0.94	ppm		77
59) Acenaphthene	7.307	153	73558	1.14	ppm		97
60) 2,4-Dinitrophenol	7.361	184	5495	0.91	ppm	#	89
61) 4-Nitrophenol	7.457	109	5117	0.61	ppm	#	74
62) Dibenzofuran	7.500	168	90582	1.05	ppm		98
63) 2,4-Dinitrotoluene	7.489	165	22060	1.07	ppm		99
64) 2,3,4,6-Tetrachlorophenol	7.650	232	11234	0.86	ppm		92
65) Diethylphthalate	7.778	149	69022	1.01	ppm		95
66) Fluorene	7.880	166	76679	1.10	ppm		94
67) 4-Chlorophenyl-phenyle...	7.896	204	38838	1.29	ppm		89
68) 4-Nitroaniline	7.906	138	18320	0.92	ppm	#	60
70) 4,6-Dinitro-2-methylph...	7.954	198	4221	0.46	ppm		85
71) n-Nitrosodiphenylamine	8.029	169	51515	0.96	ppm		93
72) 1,2-Diphenylhydrazine	8.072	77	91011	1.18	ppm		97
74) 4-Bromophenyl-phenylether	8.452	248	20785	1.13	ppm		90
75) Hexachlorobenzene	8.516	284	23754	1.18	ppm		88
76) Pentachlorophenol	8.773	266	8293	0.88	ppm		92
77) Phenanthrene	8.987	178	109686	1.11	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477021.D
Acq On : 15 Nov 2018 12:56 pm
Operator : angelar
Sample : ic2400-1
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 13:50:28 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

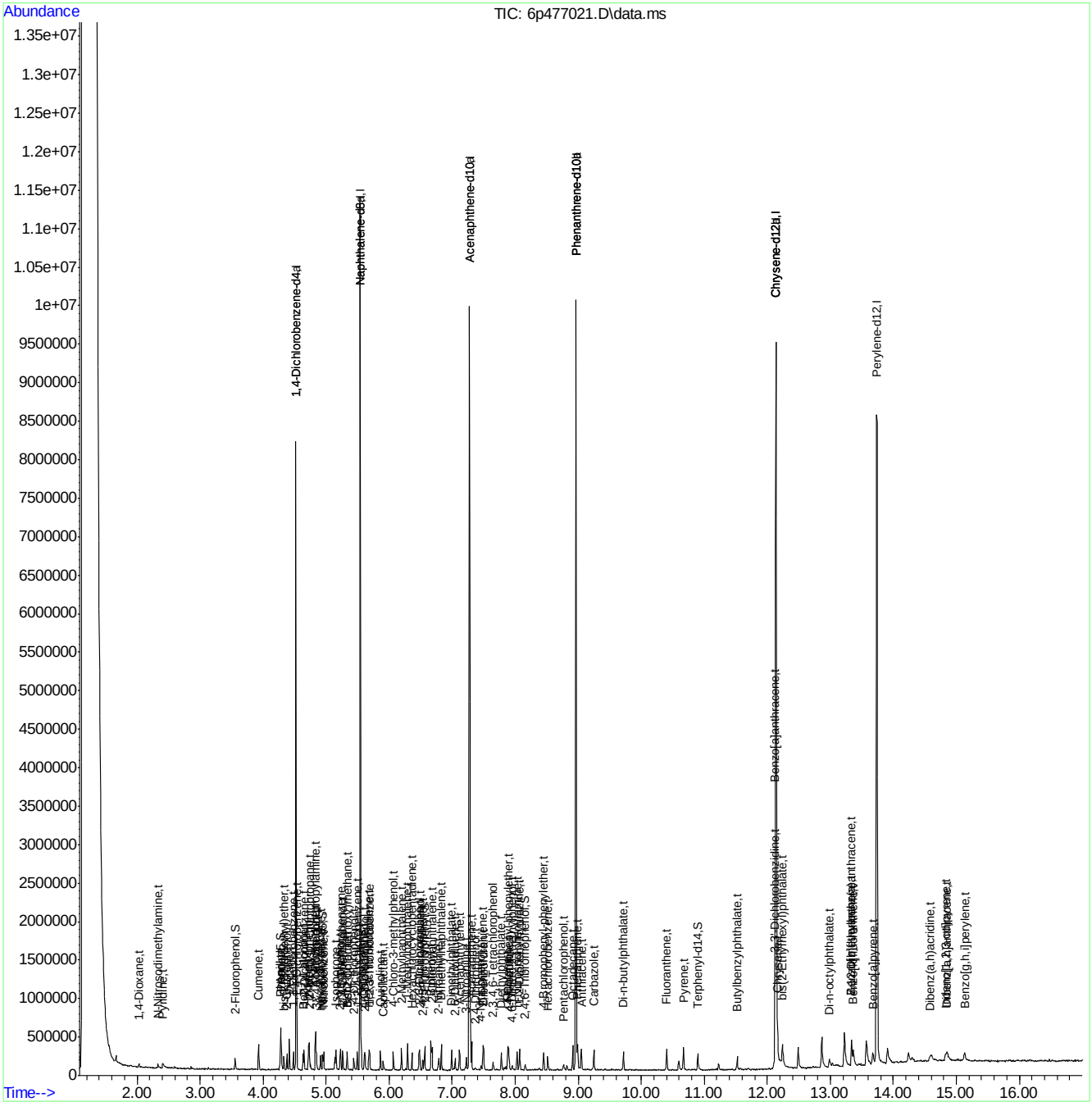
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	9.051	178	101544	1.03	ppm	97
79)	Carbazole	9.249	167	96453	0.94	ppm	96
80)	Di-n-butylphthalate	9.720	149	107895	0.93	ppm	96
81)	Fluoranthene	10.404	202	110004	1.11	ppm	97
82)	Octadecane	8.912	57	60351	1.10	ppm	90
84)	Pyrene	10.672	202	114486	1.02	ppm	97
86)	Butylbenzylphthalate	11.522	149	38584	0.82	ppm	93
87)	Benzo[a]anthracene	12.126	228	104308	1.09	ppm	98
88)	3,3'-Dichlorobenzidine	12.121	252	28561	0.96	ppm	88
89)	Chrysene	12.164	228	111237	1.13	ppm	95
90)	bis(2-Ethylhexyl)phtha...	12.244	149	59571	1.03	ppm	99
92)	Di-n-octylphthalate	12.988	149	77785	0.84	ppm	96
93)	Benzo[b]fluoranthene	13.335	252	81472m	0.96	ppm	
94)	Benzo[k]fluoranthene	13.367	252	115826	1.17	ppm	89
95)	Benzo[a]pyrene	13.678	252	79479	1.04	ppm	91
96)	Indeno[1,2,3-cd]pyrene	14.833	276	88622	0.94	ppm	88
97)	Dibenz(a,h)acridine	14.587	279	49752	0.78	ppm	94
98)	Dibenz[a,h]anthracene	14.854	278	73507	0.96	ppm	86
99)	7,12-Dimethylbenz(a)an...	13.335	256	32822	0.76	ppm	91
100)	Benzo[g,h,i]perylene	15.132	276	80271	1.02	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477021.D
Acq On : 15 Nov 2018 12:56 pm
Operator : angelar
Sample : ic2400-1
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 13:50:28 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration



Manual Integration Approval Summary

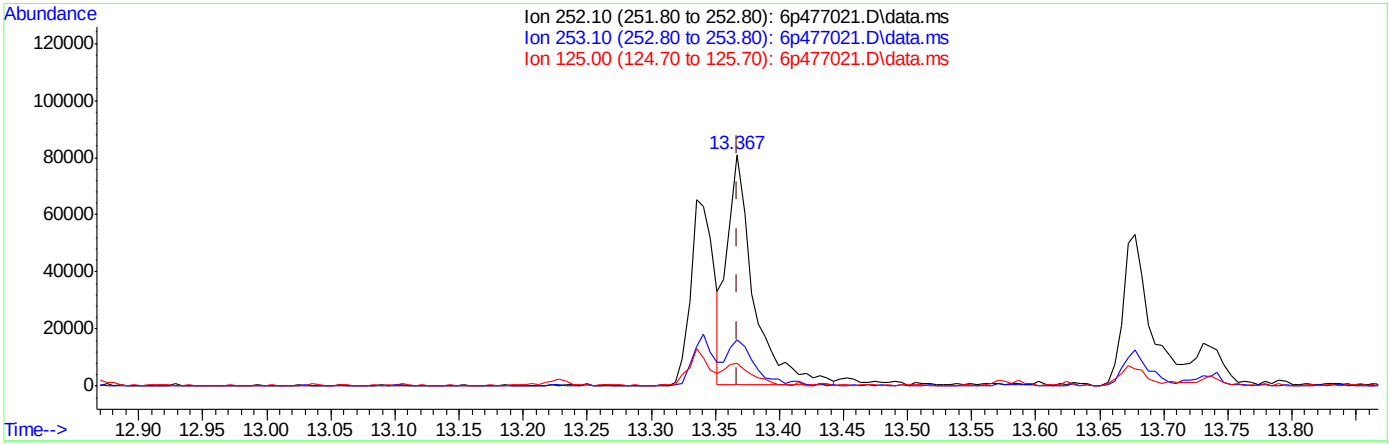
Sample Number:	E6P2400-IC2400	**Method:**	SW846 8270D
Lab FileID:	6P477021.D	**Analyst approved:**	11/16/18 14:06 Kristi Schollenberger
Injection Time:	11/15/18 12:56	**Supervisor approved:**	11/20/18 00:18 Nina Pandya

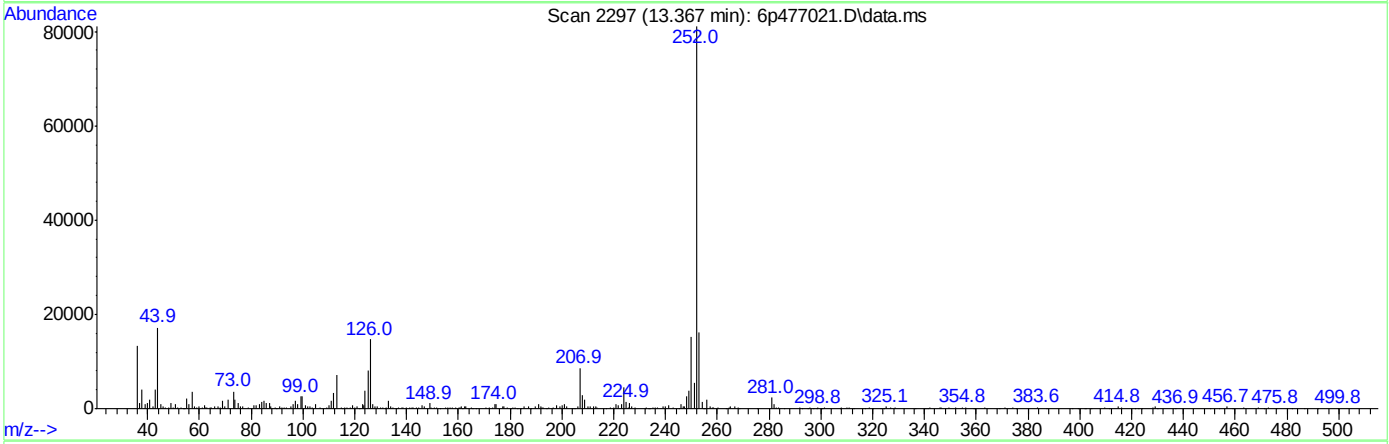
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		13.34	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477021.D
Acq On : 15 Nov 2018 12:56 pm
Operator : angelar
Sample : ic2400-1
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 13:48:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration





TIC: 6p477021.D\data.ms

(93) Benzo[b]fluoranthene (t)

13.367min (-0.000) 1.35ppm

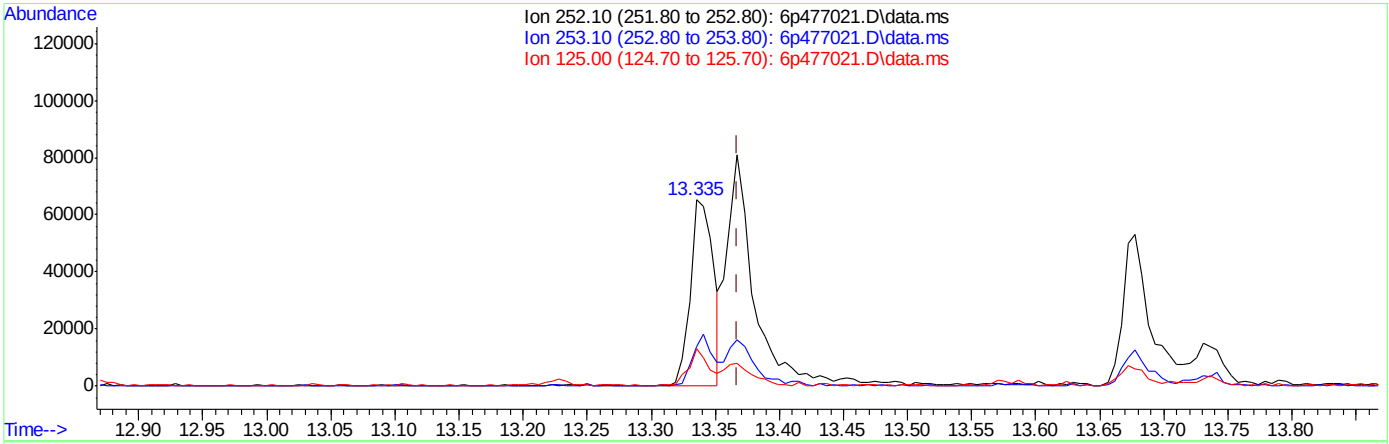
response 114216

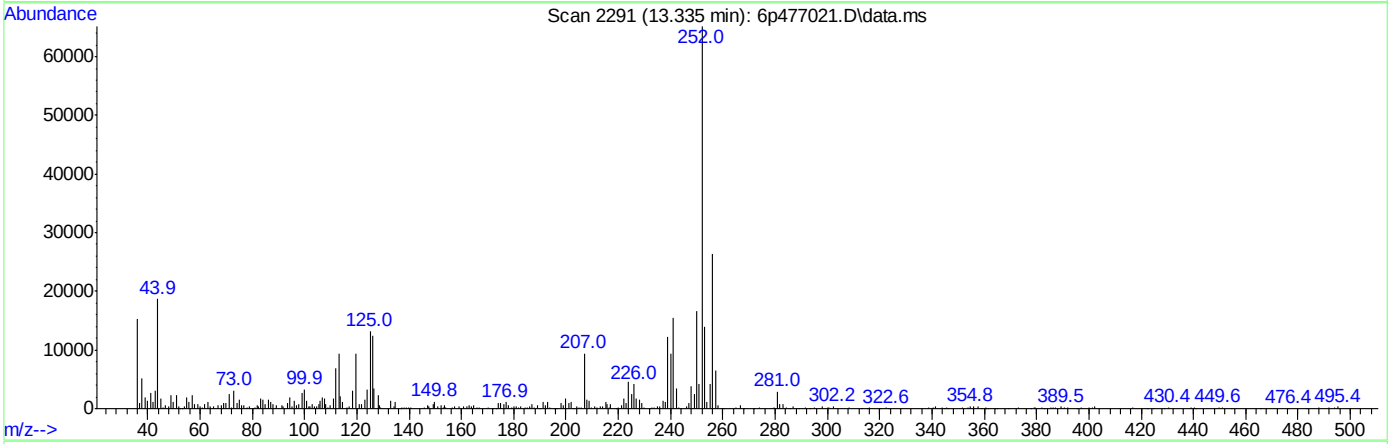
Ion	Exp%	Act%
252.10	100	100
253.10	26.00	18.30
125.00	17.50	9.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477021.D
Acq On : 15 Nov 2018 12:56 pm
Operator : angelar
Sample : ic2400-1
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 15 13:48:41 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration





TIC: 6p477021.D\data.ms

(93) Benzo[b]fluoranthene (t)

13.335min (-0.032) 0.96ppm m

response 81472

Ion	Exp%	Act%
252.10	100	100
253.10	26.00	21.54
125.00	17.50	20.39
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477022.D
Acq On : 15 Nov 2018 1:20 pm
Operator : angelar
Sample : icc2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 15 13:51:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.526	152	782001	40.00	ppm		0.00
24) Naphthalene-d8	5.542	136	3308871	40.00	ppm		0.00
47) Acenaphthene-d10	7.275	164	1703208	40.00	ppm		0.00
69) Phenanthrene-d10	8.965	188	3122807	40.00	ppm		0.00
83) Chrysene-d12	12.142	240	2850482	40.00	ppm		0.00
91) Perylene-d12	13.742	264	3056846	40.00	ppm		0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	782001	40.00	ppm		0.00
103) Acenaphthene-d10a	7.275	164	1703208	40.00	ppm		0.00
105) Phenanthrene-d10a	8.965	188	3122807	40.00	ppm		0.00
109) Chrysene-d12a	12.142	240	2850482	40.00	ppm		0.00
111) Naphthalene-d8a	5.542	136	3308871	40.00	ppm		0.00
113) Phenanthrene-d10b	8.965	188	3122807	40.00	ppm		0.00
115) Chrysene-d12b	12.142	240	2850482	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	3.542	112	1536268	53.97	ppm		0.00
Spiked Amount 50.000			Recovery = 107.94%				
8) Phenol-d5	4.275	99	1978529	55.41	ppm		0.00
Spiked Amount 50.000			Recovery = 110.82%				
25) Nitrobenzene-d5	4.949	82	1969138	59.60	ppm		0.00
Spiked Amount 50.000			Recovery = 119.20%				
51) 2-Fluorobiphenyl	6.569	172	3062079	47.38	ppm		0.00
Spiked Amount 50.000			Recovery = 94.76%				
73) 2,4,6-Tribromophenol	8.163	330	432676	61.50	ppm		0.00
Spiked Amount 50.000			Recovery = 123.00%				
85) Terphenyl-d14	10.902	244	3019648	52.37	ppm		0.00
Spiked Amount 50.000			Recovery = 104.74%				
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.007	88	667661	55.68	ppm		97
3) Pyridine	2.349	79	1791693	57.01	ppm		97
4) N-Nitrosodimethylamine	2.312	74	1093630	58.47	ppm		90
6) Indene	4.719	116	2548002	54.36	ppm		99
7) Cumene	3.927	105	3963219	56.87	ppm		94
9) Phenol	4.280	94	2170234	53.54	ppm	#	35
10) Aniline	4.280	93	2348498	51.85	ppm	#	38
11) bis(2-Chloroethyl)ether	4.333	93	1702963	59.43	ppm		99
12) 2-Chlorophenol	4.376	128	1519215	51.24	ppm		91
13) Decane	4.414	43	2289892	63.53	ppm		96
14) 1,3-Dichlorobenzene	4.483	146	1600085	49.95	ppm		96
15) 1,4-Dichlorobenzene	4.537	146	1627143	50.57	ppm		99
16) Benzyl alcohol	4.633	108	1011783	55.61	ppm		75
17) 1,2-Dichlorobenzene	4.649	146	1526703	49.63	ppm		98
18) Acetophenone	4.831	105	2268308	57.64	ppm		90
19) 2-Methylphenol	4.729	108	1428900	53.57	ppm		99
20) 2,2'-oxybis(1-Chloropr...	4.735	121	475066	50.86	ppm	#	57
21) 3&4-Methylphenol	4.842	108	1516343	55.69	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477022.D
Acq On : 15 Nov 2018 1:20 pm
Operator : angelar
Sample : icc2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 15 13:51:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
22) n-Nitroso-di-n-propyla...	4.836	70	1281116	62.08	ppm	88
23) Hexachloroethane	4.911	201	548193	57.04	ppm	93
26) Nitrobenzene	4.965	77	1999400	59.08	ppm	87
27) Quinoline	5.874	129	3097962	48.64	ppm	95
28) Isophorone	5.157	82	3316235	56.56	ppm	91
29) 2-Nitrophenol	5.221	139	813320	49.12	ppm	88
30) 2,4-Dimethylphenol	5.264	107	1525842	51.42	ppm	93
31) Benzoic acid	5.392	105	1154360	80.82	ppm	93
32) bis(2-Chloroethoxy)met...	5.339	93	2073990	57.77	ppm	95
33) 2,4-Dichlorophenol	5.435	162	1205886	50.28	ppm	97
34) 2,6-Dichlorophenol	5.622	162	1162226	48.93	ppm	96
35) 1,3,5-Trichlorobenzene	5.232	180	1315218	50.42	ppm	99
36) 1,2,4-Trichlorobenzene	5.494	180	1298834	51.61	ppm	98
37) 1,2,3-Trichlorobenzene	5.692	180	1254266	50.17	ppm	99
38) Naphthalene	5.564	128	4360418	47.22	ppm	100
39) 4-Chloroaniline	5.612	127	1848427	46.60	ppm	90
40) 2,3-Dichloroaniline	6.478	161	1476473	49.30	ppm	95
41) Caprolactam	5.943	55	991831	61.04	ppm	94
42) Hexachlorobutadiene	5.681	225	701507	54.32	ppm	100
43) 4-Chloro-3-methylphenol	6.072	107	1454546	56.60	ppm	91
44) 2-Methylnaphthalene	6.200	141	2347786	48.37	ppm	97
45) 1-Methylnaphthalene	6.296	141	2579148	48.04	ppm	97
46) Dimethylnaphthalene	6.831	156	2637740	48.74	ppm	99
48) Hexachlorocyclopentadiene	6.366	237	1463628	108.72	ppm	97
49) 2,4,6-Trichlorophenol	6.489	196	746585	50.10	ppm	94
50) 2,4,5-Trichlorophenol	6.532	196	862850	54.31	ppm	99
52) 2-Chloronaphthalene	6.687	162	2602204	47.19	ppm	98
53) Biphenyl	6.671	154	3611900	48.76	ppm	99
54) 2-Nitroaniline	6.799	65	1158807	64.02	ppm	92
55) Dimethylphthalate	7.002	163	3139728	51.21	ppm	99
56) Acenaphthylene	7.120	152	4250130	48.54	ppm	99
57) 2,6-Dinitrotoluene	7.056	165	713376	51.22	ppm	82
58) 3-Nitroaniline	7.238	138	908659	53.33	ppm	83
59) Acenaphthene	7.313	153	2899505	50.63	ppm	99
60) 2,4-Dinitrophenol	7.355	184	629174	117.68	ppm	76
61) 4-Nitrophenol	7.452	109	442190	59.56	ppm	87
62) Dibenzofuran	7.505	168	3545917	46.28	ppm	99
63) 2,4-Dinitrotoluene	7.494	165	944379	51.71	ppm	71
64) 2,3,4,6-Tetrachlorophenol	7.650	232	679722	58.53	ppm	98
65) Diethylphthalate	7.789	149	3032714	50.20	ppm	98
66) Fluorene	7.885	166	2950376	47.81	ppm	99
67) 4-Chlorophenyl-phenyle...	7.896	204	1370965	51.16	ppm	98
68) 4-Nitroaniline	7.928	138	891124	50.35	ppm	86
70) 4,6-Dinitro-2-methylph...	7.960	198	465283	58.64	ppm	97
71) n-Nitrosodiphenylamine	8.035	169	2194260	47.49	ppm	100
72) 1,2-Diphenylhydrazine	8.077	77	3874711	58.61	ppm	97
74) 4-Bromophenyl-phenylether	8.457	248	816958	51.51	ppm	94
75) Hexachlorobenzene	8.527	284	891867	51.39	ppm	98
76) Pentachlorophenol	8.767	266	996598	122.92	ppm	99
77) Phenanthrene	8.997	178	4232824	49.95	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477022.D
Acq On : 15 Nov 2018 1:20 pm
Operator : angelar
Sample : icc2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 15 13:51:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration

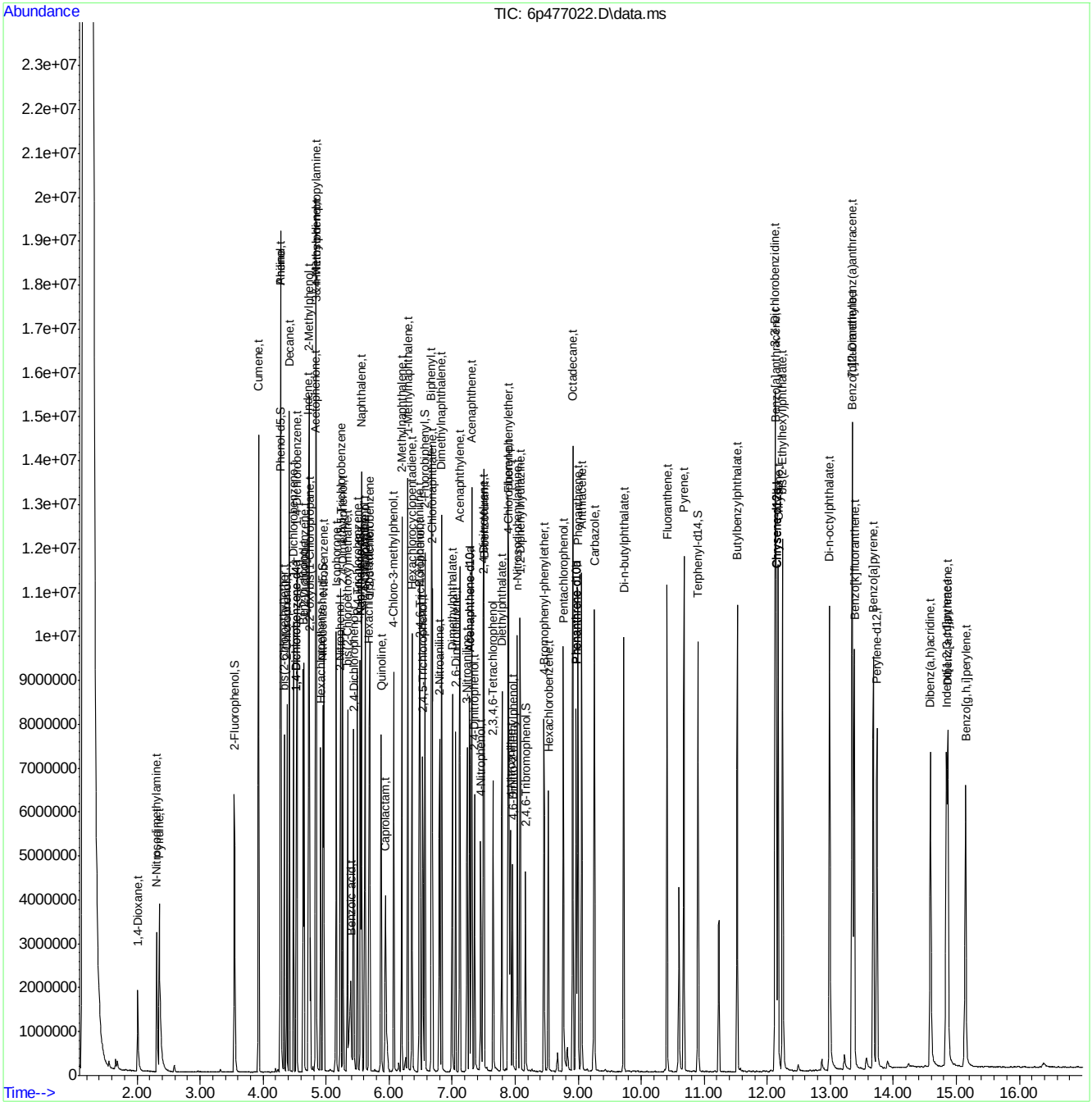
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.056	178	4351227	51.14	ppm	99
79) Carbazole	9.260	167	4183276	47.53	ppm	100
80) Di-n-butylphthalate	9.725	149	5140749	51.41	ppm	99
81) Fluoranthene	10.410	202	4609908	53.88	ppm	98
82) Octadecane	8.912	57	2803208	59.47	ppm	95
84) Pyrene	10.677	202	4811972	51.31	ppm	99
86) Butylbenzylphthalate	11.522	149	2356145	59.88	ppm	88
87) Benzo[a]anthracene	12.132	228	4011406	50.10	ppm	100
88) 3,3'-Dichlorobenzidine	12.126	252	1491171	59.82	ppm	99
89) Chrysene	12.175	228	4183516	51.08	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.244	149	3141332	65.15	ppm	99
92) Di-n-octylphthalate	12.988	149	5502490	70.40	ppm	95
93) Benzo[b]fluoranthene	13.346	252	4075623	56.97	ppm	96
94) Benzo[k]fluoranthene	13.383	252	4201931	50.16	ppm	94
95) Benzo[a]pyrene	13.683	252	3932720	61.03	ppm	95
96) Indeno[1,2,3-cd]pyrene	14.844	276	4915534	61.81	ppm	89
97) Dibenz(a,h)acridine	14.592	279	3673727	68.38	ppm	100
98) Dibenz[a,h]anthracene	14.865	278	4099409	63.63	ppm	94
99) 7,12-Dimethylbenz(a)an...	13.351	256	1829297	49.88	ppm	97
100) Benzo[g,h,i]perylene	15.148	276	3976268	59.89	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477022.D
Acq On : 15 Nov 2018 1:20 pm
Operator : angelar
Sample : icc2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 15 13:51:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 13:47:21 2018
QLast Update : Thu Nov 15 13:47:21 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477023.D
Acq On : 15 Nov 2018 1:44 pm
Operator : angelar
Sample : ic2400-5
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 14:22:10 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:37 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.526	152	778768	40.00	ppm		0.00
24) Naphthalene-d8	5.542	136	3262491	40.00	ppm		0.00
47) Acenaphthene-d10	7.275	164	1684896	40.00	ppm		0.00
69) Phenanthrene-d10	8.965	188	3135851	40.00	ppm		0.00
83) Chrysene-d12	12.137	240	2852573	40.00	ppm		-0.01
91) Perylene-d12	13.736	264	3006388	40.00	ppm		-0.01
101) 1,4-Dichlorobenzene-d4a	4.526	152	778768	40.00	ppm		0.00
103) Acenaphthene-d10a	7.275	164	1684896	40.00	ppm		0.00
105) Phenanthrene-d10a	8.965	188	3135851	40.00	ppm		0.00
109) Chrysene-d12a	12.137	240	2852573	40.00	ppm		-0.01
111) Naphthalene-d8a	5.542	136	3262491	40.00	ppm		0.00
113) Phenanthrene-d10b	8.965	188	3135851	40.00	ppm		0.00
115) Chrysene-d12b	12.137	240	2852573	40.00	ppm		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	3.552	112	150882	5.32	ppm		0.00
Spiked Amount 50.000			Recovery = 10.64%				
8) Phenol-d5	4.269	99	202753	5.70	ppm		-0.01
Spiked Amount 50.000			Recovery = 11.40%				
25) Nitrobenzene-d5	4.943	82	202150	6.21	ppm		-0.01
Spiked Amount 50.000			Recovery = 12.42%				
51) 2-Fluorobiphenyl	6.564	172	331628	5.19	ppm		-0.01
Spiked Amount 50.000			Recovery = 10.38%				
73) 2,4,6-Tribromophenol	8.158	330	35877	5.08	ppm		-0.01
Spiked Amount 50.000			Recovery = 10.16%				
85) Terphenyl-d14	10.896	244	309359	5.36	ppm		-0.01
Spiked Amount 50.000			Recovery = 10.72%				
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.017	88	67891	5.69	ppm		98
3) Pyridine	2.376	79	182977	5.85	ppm		96
4) N-Nitrosodimethylamine	2.322	74	107702	5.78	ppm		89
6) Indene	4.718	116	277767	5.95	ppm		97
7) Cumene	3.927	105	435215	6.27	ppm		93
9) Phenol	4.280	94	226840	5.62	ppm	#	18
10) Aniline	4.280	93	279771	6.20	ppm		57
11) bis(2-Chloroethyl)ether	4.328	93	179754	6.30	ppm		97
12) 2-Chlorophenol	4.376	128	150264	5.09	ppm		91
13) Decane	4.414	43	253468	7.06	ppm		93
14) 1,3-Dichlorobenzene	4.483	146	174119	5.46	ppm		98
15) 1,4-Dichlorobenzene	4.537	146	175342	5.47	ppm		98
16) Benzyl alcohol	4.633	108	103553	5.72	ppm		87
17) 1,2-Dichlorobenzene	4.649	146	163230	5.33	ppm		93
18) Acetophenone	4.831	105	244462	6.24	ppm		86
19) 2-Methylphenol	4.724	108	157582	5.93	ppm		96
20) 2,2'-oxybis(1-Chloropr...	4.735	121	54517	5.86	ppm	#	81
21) 3&4-Methylphenol	4.841	108	159279	5.87	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477023.D
Acq On : 15 Nov 2018 1:44 pm
Operator : angelar
Sample : ic2400-5
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 14:22:10 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:37 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.831	70	141623	6.89	ppm		87
23) Hexachloroethane	4.911	201	59420	6.21	ppm		96
26) Nitrobenzene	4.959	77	209824	6.29	ppm		86
27) Quinoline	5.858	129	319991	5.10	ppm		92
28) Isophorone	5.152	82	349931	6.05	ppm		93
29) 2-Nitrophenol	5.221	139	84516	5.18	ppm		91
30) 2,4-Dimethylphenol	5.264	107	149236	5.10	ppm		98
31) Benzoic acid	5.339	105	53199	3.78	ppm		89
32) bis(2-Chloroethoxy)met...	5.334	93	215613	6.09	ppm		96
33) 2,4-Dichlorophenol	5.430	162	125949	5.33	ppm		96
34) 2,6-Dichlorophenol	5.617	162	122468	5.23	ppm		97
35) 1,3,5-Trichlorobenzene	5.232	180	142794	5.55	ppm		98
36) 1,2,4-Trichlorobenzene	5.494	180	137183	5.53	ppm		95
37) 1,2,3-Trichlorobenzene	5.692	180	136837	5.55	ppm		98
38) Naphthalene	5.558	128	474346	5.21	ppm		99
39) 4-Chloroaniline	5.606	127	205025	5.24	ppm		88
40) 2,3-Dichloroaniline	6.478	161	152895	5.18	ppm		97
41) Caprolactam	5.906	55	92952	5.80	ppm		93
42) Hexachlorobutadiene	5.676	225	76984	6.05	ppm		94
43) 4-Chloro-3-methylphenol	6.066	107	143663	5.67	ppm		89
44) 2-Methylnaphthalene	6.195	141	258232	5.40	ppm		98
45) 1-Methylnaphthalene	6.291	141	279344	5.28	ppm		97
46) Dimethylnaphthalene	6.831	156	288036	5.40	ppm		93
48) Hexachlorocyclopentadiene	6.361	237	138287	10.38	ppm		98
49) 2,4,6-Trichlorophenol	6.484	196	74121	5.03	ppm		84
50) 2,4,5-Trichlorophenol	6.532	196	77912	4.96	ppm		92
52) 2-Chloronaphthalene	6.681	162	282944	5.19	ppm		95
53) Biphenyl	6.665	154	394605	5.39	ppm		99
54) 2-Nitroaniline	6.788	65	114036	6.37	ppm		85
55) Dimethylphthalate	6.992	163	330591	5.45	ppm		99
56) Acenaphthylene	7.115	152	448274	5.18	ppm		98
57) 2,6-Dinitrotoluene	7.050	165	68455	4.97	ppm		94
58) 3-Nitroaniline	7.227	138	89204	5.29	ppm		88
59) Acenaphthene	7.307	153	304182	5.37	ppm		98
60) 2,4-Dinitrophenol	7.350	184	30547	5.78	ppm	#	59
61) 4-Nitrophenol	7.452	109	33279	4.53	ppm		84
62) Dibenzofuran	7.500	168	405741	5.35	ppm		97
63) 2,4-Dinitrotoluene	7.489	165	94164	5.21	ppm		84
64) 2,3,4,6-Tetrachlorophenol	7.650	232	56166	4.89	ppm		92
65) Diethylphthalate	7.783	149	322283	5.39	ppm		98
66) Fluorene	7.880	166	318935	5.22	ppm		96
67) 4-Chlorophenyl-phenyle...	7.896	204	145135	5.48	ppm		99
68) 4-Nitroaniline	7.906	138	91772	5.24	ppm		87
70) 4,6-Dinitro-2-methylph...	7.954	198	27144	3.41	ppm		94
71) n-Nitrosodiphenylamine	8.029	169	225902	4.87	ppm		97
72) 1,2-Diphenylhydrazine	8.072	77	412413	6.21	ppm		97
74) 4-Bromophenyl-phenylether	8.457	248	84579	5.31	ppm		98
75) Hexachlorobenzene	8.521	284	96803	5.55	ppm		98
76) Pentachlorophenol	8.762	266	62201	7.64	ppm		99
77) Phenanthrene	8.992	178	467279	5.49	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477023.D
Acq On : 15 Nov 2018 1:44 pm
Operator : angelar
Sample : ic2400-5
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 14:22:10 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:37 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration

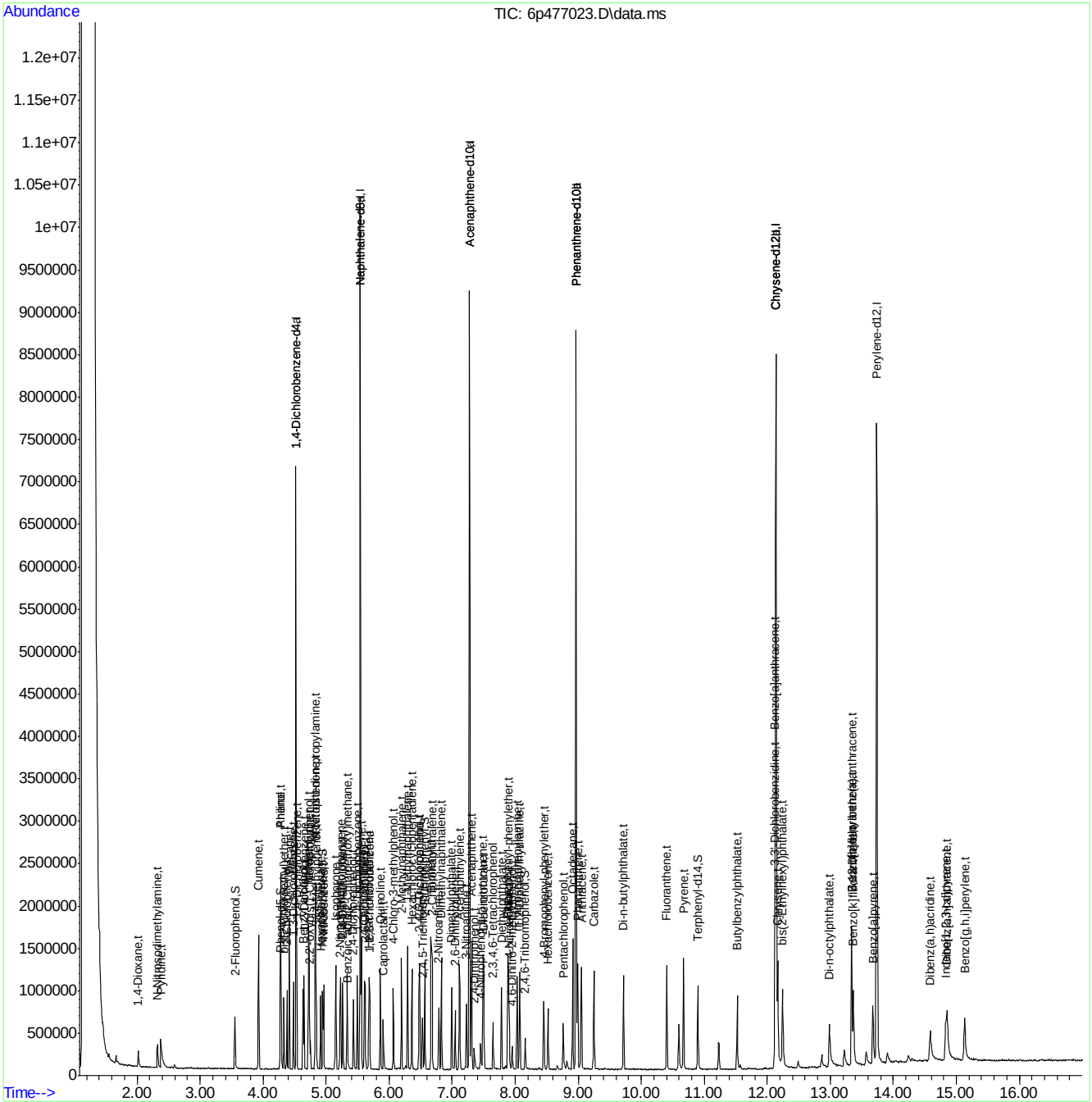
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.051	178	475733	5.57	ppm	99
79) Carbazole	9.249	167	451034	5.10	ppm	97
80) Di-n-butylphthalate	9.719	149	515926	5.14	ppm	98
81) Fluoranthene	10.404	202	477905	5.56	ppm	96
82) Octadecane	8.912	57	286165	6.05	ppm	97
84) Pyrene	10.672	202	509647	5.43	ppm	99
86) Butylbenzylphthalate	11.522	149	201532	5.12	ppm	88
87) Benzo[a]anthracene	12.126	228	413032	5.15	ppm	100
88) 3,3'-Dichlorobenzidine	12.121	252	134491	5.39	ppm	96
89) Chrysene	12.169	228	450274	5.49	ppm	97
90) bis(2-Ethylhexyl)phtha...	12.244	149	272642	5.65	ppm	97
92) Di-n-octylphthalate	12.987	149	390245	5.08	ppm	96
93) Benzo[b]fluoranthene	13.340	252	370186	5.26	ppm	92
94) Benzo[k]fluoranthene	13.367	252	449696	5.46	ppm	93
95) Benzo[a]pyrene	13.677	252	347345	5.48	ppm	92
96) Indeno[1,2,3-cd]pyrene	14.833	276	421438	5.39	ppm	89
97) Dibenz(a,h)acridine	14.587	279	281090	5.32	ppm	94
98) Dibenz[a,h]anthracene	14.854	278	338662	5.35	ppm	95
99) 7,12-Dimethylbenz(a)an...	13.340	256	164311	4.56	ppm	94
100) Benzo[g,h,i]perylene	15.132	276	356809	5.46	ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477023.D
Acq On : 15 Nov 2018 1:44 pm
Operator : angelar
Sample : ic2400-5
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 14:22:10 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:37 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477024.D
Acq On : 15 Nov 2018 2:08 pm
Operator : angelar
Sample : ic2400-25
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 14:26:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.526	152	754288	40.00	ppm		0.00
24) Naphthalene-d8	5.542	136	3114882	40.00	ppm		0.00
47) Acenaphthene-d10	7.275	164	1620241	40.00	ppm		0.00
69) Phenanthrene-d10	8.965	188	3002172	40.00	ppm		0.00
83) Chrysene-d12	12.143	240	2764550	40.00	ppm		0.00
91) Perylene-d12	13.742	264	2877080	40.00	ppm		0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	754288	40.00	ppm		0.00
103) Acenaphthene-d10a	7.275	164	1620241	40.00	ppm		0.00
105) Phenanthrene-d10a	8.965	188	3002172	40.00	ppm		0.00
109) Chrysene-d12a	12.143	240	2764550	40.00	ppm		0.00
111) Naphthalene-d8a	5.542	136	3114882	40.00	ppm		0.00
113) Phenanthrene-d10b	8.965	188	3002172	40.00	ppm		0.00
115) Chrysene-d12b	12.143	240	2764550	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	3.547	112	731105	26.63	ppm		0.00
Spiked Amount 50.000			Recovery = 53.26%				
8) Phenol-d5	4.269	99	977275	28.37	ppm		-0.01
Spiked Amount 50.000			Recovery = 56.74%				
25) Nitrobenzene-d5	4.949	82	973443	31.30	ppm		0.00
Spiked Amount 50.000			Recovery = 62.60%				
51) 2-Fluorobiphenyl	6.569	172	1528382	24.86	ppm		0.00
Spiked Amount 50.000			Recovery = 49.72%				
73) 2,4,6-Tribromophenol	8.163	330	200141	29.59	ppm		0.00
Spiked Amount 50.000			Recovery = 59.18%				
85) Terphenyl-d14	10.902	244	1493297	26.70	ppm		0.00
Spiked Amount 50.000			Recovery = 53.40%				
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0d	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	2.012	88	317879	27.48	ppm		97
3) Pyridine	2.355	79	840945	27.74	ppm		98
4) N-Nitrosodimethylamine	2.312	74	511305	28.34	ppm		88
6) Indene	4.719	116	1279591	28.30	ppm		98
7) Cumene	3.927	105	1989597	29.60	ppm		94
9) Phenol	4.280	94	1061320	27.15	ppm	#	29
10) Aniline	4.280	93	1228267	28.12	ppm	#	47
11) bis(2-Chloroethyl)ether	4.328	93	832298	30.11	ppm		95
12) 2-Chlorophenol	4.371	128	736256	25.75	ppm		82
13) Decane	4.414	43	1150519	33.09	ppm		95
14) 1,3-Dichlorobenzene	4.483	146	805975	26.08	ppm		98
15) 1,4-Dichlorobenzene	4.537	146	795747	25.64	ppm		99
16) Benzyl alcohol	4.633	108	483654	27.56	ppm		81
17) 1,2-Dichlorobenzene	4.649	146	767386	25.86	ppm		97
18) Acetophenone	4.831	105	1144011	30.14	ppm		90
19) 2-Methylphenol	4.724	108	714203	27.76	ppm		98
20) 2,2'-oxybis(1-Chloropr...	4.735	121	241698	26.83	ppm	#	70
21) 3&4-Methylphenol	4.842	108	757028	28.83	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477024.D
Acq On : 15 Nov 2018 2:08 pm
Operator : angelar
Sample : ic2400-25
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 14:26:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22)	n-Nitroso-di-n-propyla...	4.831	70	647892	32.55	ppm		82
23)	Hexachloroethane	4.911	201	269071	29.02	ppm		95
26)	Nitrobenzene	4.959	77	992637	31.16	ppm		86
27)	Quinoline	5.863	129	1503491	25.07	ppm		94
28)	Isophorone	5.152	82	1642188	29.75	ppm		90
29)	2-Nitrophenol	5.221	139	405280	26.00	ppm		87
30)	2,4-Dimethylphenol	5.264	107	744312	26.64	ppm		92
31)	Benzoic acid	5.371	105	479385	35.65	ppm		96
32)	bis(2-Chloroethoxy)met...	5.334	93	1023406	30.28	ppm		94
33)	2,4-Dichlorophenol	5.430	162	589404	26.11	ppm		96
34)	2,6-Dichlorophenol	5.623	162	572085	25.58	ppm		98
35)	1,3,5-Trichlorobenzene	5.232	180	660683	26.91	ppm		98
36)	1,2,4-Trichlorobenzene	5.494	180	624513	26.36	ppm		98
37)	1,2,3-Trichlorobenzene	5.692	180	622094	26.43	ppm		97
38)	Naphthalene	5.558	128	2165357	24.91	ppm		99
39)	4-Chloroaniline	5.612	127	924857	24.77	ppm		94
40)	2,3-Dichloroaniline	6.478	161	734346	26.05	ppm		95
41)	Caprolactam	5.927	55	471858	30.85	ppm		93
42)	Hexachlorobutadiene	5.676	225	350074	28.80	ppm		97
43)	4-Chloro-3-methylphenol	6.066	107	706343	29.20	ppm		90
44)	2-Methylnaphthalene	6.200	141	1192391	26.10	ppm		99
45)	1-Methylnaphthalene	6.296	141	1294381	25.61	ppm		97
46)	Dimethylnaphthalene	6.831	156	1335109	26.21	ppm		98
48)	Hexachlorocyclopentadiene	6.361	237	709845	55.43	ppm		99
49)	2,4,6-Trichlorophenol	6.489	196	376472	26.56	ppm		97
50)	2,4,5-Trichlorophenol	6.526	196	405049	26.80	ppm		99
52)	2-Chloronaphthalene	6.682	162	1321000	25.18	ppm		96
53)	Biphenyl	6.666	154	1804711	25.61	ppm		99
54)	2-Nitroaniline	6.794	65	562694	32.68	ppm		91
55)	Dimethylphthalate	6.997	163	1546290	26.51	ppm		100
56)	Acenaphthylene	7.120	152	2101013	25.23	ppm		100
57)	2,6-Dinitrotoluene	7.051	165	351111	26.50	ppm		83
58)	3-Nitroaniline	7.232	138	443358	27.35	ppm		88
59)	Acenaphthene	7.307	153	1452748	26.67	ppm		92
60)	2,4-Dinitrophenol	7.350	184	275956	54.26	ppm		95
61)	4-Nitrophenol	7.446	109	206742	29.27	ppm	#	85
62)	Dibenzofuran	7.500	168	1826601	25.06	ppm		97
63)	2,4-Dinitrotoluene	7.495	165	470134	27.06	ppm		76
64)	2,3,4,6-Tetrachlorophenol	7.650	232	315397	28.55	ppm		98
65)	Diethylphthalate	7.783	149	1545047	26.89	ppm		99
66)	Fluorene	7.885	166	1485019	25.29	ppm		99
67)	4-Chlorophenyl-phenyle...	7.896	204	697969	27.38	ppm		94
68)	4-Nitroaniline	7.917	138	461560	27.41	ppm		89
70)	4,6-Dinitro-2-methylph...	7.955	198	213286	27.96	ppm		99
71)	n-Nitrosodiphenylamine	8.035	169	1087637	24.49	ppm		98
72)	1,2-Diphenylhydrazine	8.078	77	1939998	30.52	ppm		98
74)	4-Bromophenyl-phenylether	8.457	248	411094	26.96	ppm		97
75)	Hexachlorobenzene	8.521	284	441603	26.47	ppm		95
76)	Pentachlorophenol	8.762	266	448708	57.57	ppm		96
77)	Phenanthrene	8.992	178	2144014	26.32	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477024.D
Acq On : 15 Nov 2018 2:08 pm
Operator : angelar
Sample : ic2400-25
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 14:26:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration

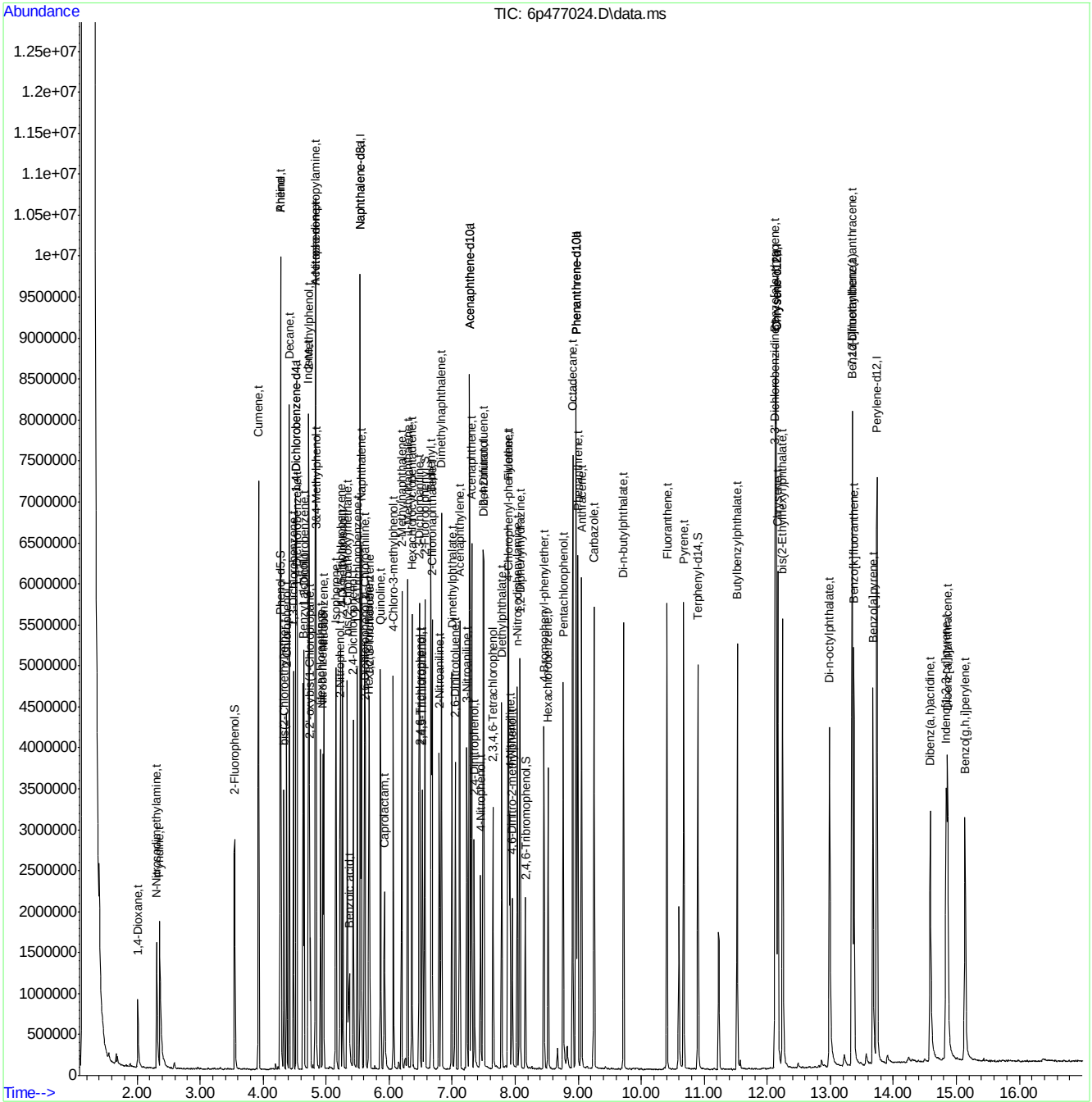
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.051	178	2203916	26.95	ppm	98
79) Carbazole	9.254	167	2118687	25.04	ppm	100
80) Di-n-butylphthalate	9.720	149	2587452	26.92	ppm	99
81) Fluoranthene	10.410	202	2273371	27.64	ppm	97
82) Octadecane	8.912	57	1402964	30.96	ppm	95
84) Pyrene	10.677	202	2436143	26.78	ppm	100
86) Butylbenzylphthalate	11.522	149	1136805	29.79	ppm	91
87) Benzo[a]anthracene	12.126	228	2054380	26.45	ppm	99
88) 3,3'-Dichlorobenzidine	12.121	252	716624	29.64	ppm	97
89) Chrysene	12.169	228	2118519	26.67	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.244	149	1509260	32.27	ppm	98
92) Di-n-octylphthalate	12.988	149	2519670	34.25	ppm	95
93) Benzo[b]fluoranthene	13.341	252	2085634	30.97	ppm	93
94) Benzo[k]fluoranthene	13.373	252	2044065	25.92	ppm	95
95) Benzo[a]pyrene	13.678	252	1894646	31.24	ppm	95
96) Indeno[1,2,3-cd]pyrene	14.838	276	2376792	31.75	ppm	88
97) Dibenz(a,h)acridine	14.587	279	1704328	33.71	ppm	98
98) Dibenz[a,h]anthracene	14.860	278	1951459	32.18	ppm	93
99) 7,12-Dimethylbenz(a)an...	13.346	256	896565	25.97	ppm	98
100) Benzo[g,h,i]perylene	15.143	276	1901985	30.44	ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477024.D
Acq On : 15 Nov 2018 2:08 pm
Operator : angelar
Sample : ic2400-25
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 14:26:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 14:20:56 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477025.D
Acq On : 15 Nov 2018 2:32 pm
Operator : angelar
Sample : ic2400-10
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 15 15:29:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 15:27:56 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.526	152	748013	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3091610	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	1590370	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	2961214	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	2747822	40.00	ppm	-0.01
91) Perylene-d12	13.742	264	2869038	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	748013	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	1590370	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	2961214	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	2747822	40.00	ppm	-0.01
111) Naphthalene-d8a	5.542	136	3091610	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	2961214	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	2747822	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.547	112	281494	10.34	ppm	0.00
Spiked Amount 50.000			Recovery = 20.68%			
8) Phenol-d5	4.269	99	379553	11.11	ppm	-0.01
Spiked Amount 50.000			Recovery = 22.22%			
25) Nitrobenzene-d5	4.943	82	379838	12.31	ppm	-0.01
Spiked Amount 50.000			Recovery = 24.62%			
51) 2-Fluorobiphenyl	6.564	172	611447	10.13	ppm	-0.01
Spiked Amount 50.000			Recovery = 20.26%			
73) 2,4,6-Tribromophenol	8.158	330	73434	11.01	ppm	-0.01
Spiked Amount 50.000			Recovery = 22.02%			
85) Terphenyl-d14	10.896	244	581788	10.47	ppm	-0.01
Spiked Amount 50.000			Recovery = 20.94%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0d	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.012	88	121905	10.63	ppm	95
3) Pyridine	2.365	79	348707	11.60	ppm	95
4) N-Nitrosodimethylamine	2.317	74	197743	11.05	ppm	91
6) Indene	4.719	116	490713	10.95	ppm	95
7) Cumene	3.927	105	786751	11.80	ppm	93
9) Phenol	4.280	94	430559	11.10	ppm #	27
10) Aniline	4.280	93	510313	11.78	ppm	52
11) bis(2-Chloroethyl)ether	4.328	93	321287	11.72	ppm	96
12) 2-Chlorophenol	4.371	128	294363	10.38	ppm	84
13) Decane	4.414	43	459657	13.33	ppm	95
14) 1,3-Dichlorobenzene	4.483	146	315104	10.28	ppm	99
15) 1,4-Dichlorobenzene	4.537	146	321067	10.43	ppm	100
16) Benzyl alcohol	4.633	108	187810	10.79	ppm	78
17) 1,2-Dichlorobenzene	4.649	146	304646	10.35	ppm	99
18) Acetophenone	4.831	105	459669	12.21	ppm	87
19) 2-Methylphenol	4.724	108	286089	11.21	ppm	97
20) 2,2'-oxybis(1-Chloropr...	4.735	121	93294	10.44	ppm #	73
21) 3&4-Methylphenol	4.842	108	298726	11.47	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477025.D
Acq On : 15 Nov 2018 2:32 pm
Operator : angelar
Sample : ic2400-10
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 15 15:29:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 15:27:56 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.831	70	266277	13.49	ppm		88
23) Hexachloroethane	4.911	201	103604	11.27	ppm		88
26) Nitrobenzene	4.959	77	388157	12.28	ppm		86
27) Quinoline	5.858	129	586691	9.86	ppm		93
28) Isophorone	5.152	82	658782	12.02	ppm		91
29) 2-Nitrophenol	5.221	139	152134	9.83	ppm		88
30) 2,4-Dimethylphenol	5.259	107	294854	10.63	ppm		93
31) Benzoic acid	5.344	105	146936	11.01	ppm		92
32) bis(2-Chloroethoxy)met...	5.334	93	400905	11.95	ppm		95
33) 2,4-Dichlorophenol	5.430	162	235451	10.51	ppm		96
34) 2,6-Dichlorophenol	5.617	162	235860	10.63	ppm		98
35) 1,3,5-Trichlorobenzene	5.232	180	254907	10.46	ppm		96
36) 1,2,4-Trichlorobenzene	5.494	180	256448	10.91	ppm		100
37) 1,2,3-Trichlorobenzene	5.692	180	246041	10.53	ppm		97
38) Naphthalene	5.558	128	871047	10.10	ppm		99
39) 4-Chloroaniline	5.607	127	364457	9.83	ppm		90
40) 2,3-Dichloroaniline	6.478	161	292188	10.44	ppm		96
41) Caprolactam	5.911	55	178673	11.77	ppm		95
42) Hexachlorobutadiene	5.676	225	141362	11.72	ppm		96
43) 4-Chloro-3-methylphenol	6.067	107	270570	11.27	ppm		94
44) 2-Methylnaphthalene	6.195	141	467063	10.30	ppm		96
45) 1-Methylnaphthalene	6.291	141	511261	10.19	ppm		95
46) Dimethylnaphthalene	6.831	156	530466	10.49	ppm		98
48) Hexachlorocyclopentadiene	6.361	237	270544	21.52	ppm		99
49) 2,4,6-Trichlorophenol	6.484	196	148020	10.64	ppm		97
50) 2,4,5-Trichlorophenol	6.527	196	151310	10.20	ppm		99
52) 2-Chloronaphthalene	6.682	162	514255	9.99	ppm		97
53) Biphenyl	6.666	154	725241	10.49	ppm		100
54) 2-Nitroaniline	6.789	65	215949	12.78	ppm		87
55) Dimethylphthalate	6.997	163	608074	10.62	ppm		99
56) Acenaphthylene	7.115	152	829711	10.15	ppm		96
57) 2,6-Dinitrotoluene	7.051	165	137076	10.54	ppm		89
58) 3-Nitroaniline	7.233	138	169244	10.64	ppm		91
59) Acenaphthene	7.307	153	579258	10.83	ppm		96
60) 2,4-Dinitrophenol	7.350	184	84895	17.01	ppm	#	63
61) 4-Nitrophenol	7.446	109	73052	10.54	ppm		89
62) Dibenzofuran	7.500	168	735815	10.29	ppm		98
63) 2,4-Dinitrotoluene	7.489	165	182987	10.73	ppm		80
64) 2,3,4,6-Tetrachlorophenol	7.650	232	116709	10.76	ppm		95
65) Diethylphthalate	7.783	149	609344	10.80	ppm		96
66) Fluorene	7.880	166	595304	10.33	ppm		95
67) 4-Chlorophenyl-phenyle...	7.896	204	269841	10.79	ppm		99
68) 4-Nitroaniline	7.906	138	174921	10.58	ppm		82
70) 4,6-Dinitro-2-methylph...	7.949	198	70458	9.37	ppm		93
71) n-Nitrosodiphenylamine	8.029	169	427802	9.76	ppm		99
72) 1,2-Diphenylhydrazine	8.072	77	748565	11.94	ppm		95
74) 4-Bromophenyl-phenylether	8.457	248	159794	10.62	ppm		98
75) Hexachlorobenzene	8.522	284	170313	10.35	ppm		92
76) Pentachlorophenol	8.762	266	140286	18.25	ppm		98
77) Phenanthrene	8.992	178	863188	10.74	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477025.D
Acq On : 15 Nov 2018 2:32 pm
Operator : angelar
Sample : ic2400-10
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 15 15:29:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 15:27:56 2018
Response via : Initial Calibration

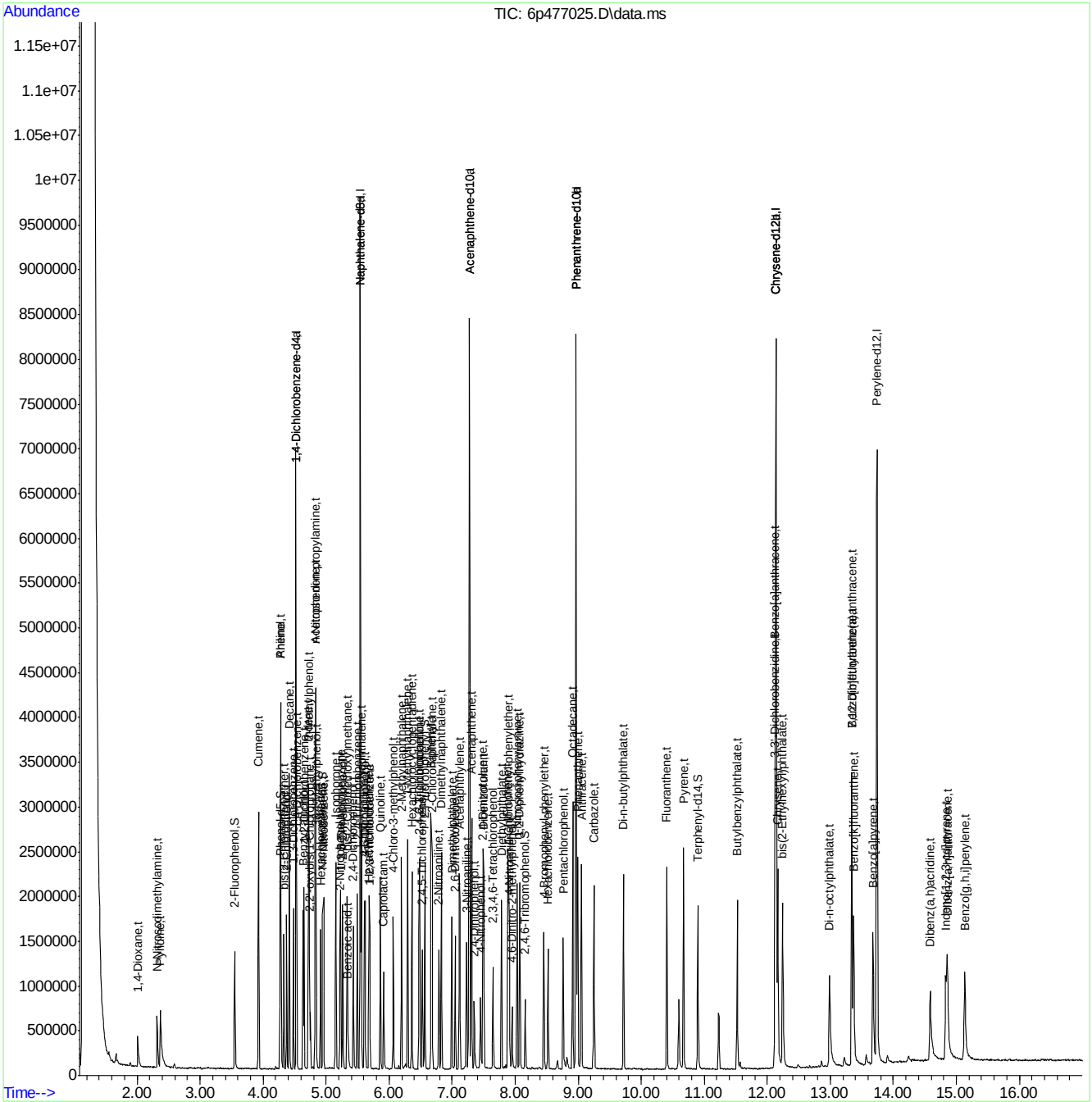
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Anthracene	9.051	178	872543	10.82	ppm	99
79) Carbazole	9.254	167	850733	10.19	ppm	99
80) Di-n-butylphthalate	9.720	149	1010700	10.66	ppm	98
81) Fluoranthene	10.404	202	904739	11.15	ppm	98
82) Octadecane	8.912	57	551403	12.34	ppm	96
84) Pyrene	10.672	202	961828	10.64	ppm	100
86) Butylbenzylphthalate	11.522	149	416321	10.98	ppm	88
87) Benzo[a]anthracene	12.127	228	792181	10.26	ppm	100
88) 3,3'-Dichlorobenzidine	12.121	252	249108	10.37	ppm	100
89) Chrysene	12.169	228	839022	10.63	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.244	149	523407	11.26	ppm	100
92) Di-n-octylphthalate	12.988	149	782308	10.66	ppm	95
93) Benzo[b]fluoranthene	13.341	252	752765	11.21	ppm	91
94) Benzo[k]fluoranthene	13.373	252	827045	10.52	ppm	92
95) Benzo[a]pyrene	13.678	252	664981	11.00	ppm	94
96) Indeno[1,2,3-cd]pyrene	14.833	276	824545	11.05	ppm	91
97) Dibenz(a,h)acridine	14.587	279	550463	10.92	ppm	100
98) Dibenz[a,h]anthracene	14.860	278	674933	11.16	ppm	93
99) 7,12-Dimethylbenz(a)an...	13.341	256	318847	9.26	ppm	94
100) Benzo[g,h,i]perylene	15.138	276	692158	11.11	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477025.D
Acq On : 15 Nov 2018 2:32 pm
Operator : angelar
Sample : ic2400-10
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 15 15:29:11 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 14:20:56 2018
QLast Update : Thu Nov 15 15:27:56 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477026.D
Acq On : 15 Nov 2018 2:56 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 16 13:38:50 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 15:36:18 2018
QLast Update : Thu Nov 15 15:36:18 2018
Response via : Initial Calibration

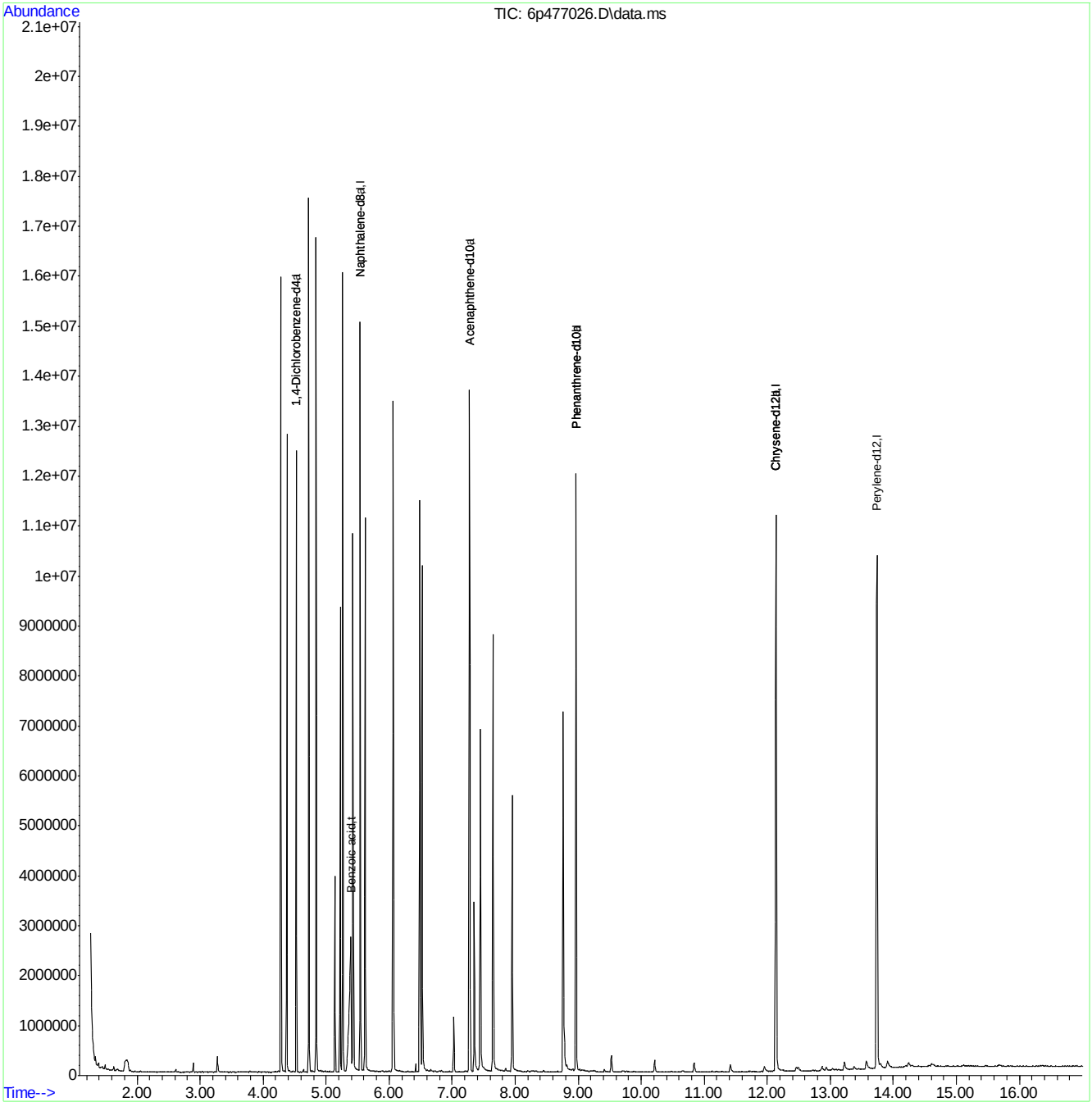
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.526	152	1267189	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	4876037	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	2612734	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	4402978	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	4063809	40.00	ppm	0.00
91) Perylene-d12	13.742	264	4261001	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	1267189	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	2612734	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	4402978	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	4063809	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	4876037	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	4402978	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	4063809	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
31) Benzoic acid	5.392	105	1373035	41.10	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477026.D
Acq On : 15 Nov 2018 2:56 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 16 13:38:50 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 15:36:18 2018
QLast Update : Thu Nov 15 15:36:18 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477027.D
Acq On : 15 Nov 2018 3:23 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 15 16:04:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 15:36:18 2018
QLast Update : Thu Nov 15 15:36:18 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.526	152	951025	40.00	ppm		0.00
24) Naphthalene-d8	5.542	136	3842191	40.00	ppm		0.00
47) Acenaphthene-d10	7.275	164	1893562	40.00	ppm		0.00
69) Phenanthrene-d10	8.965	188	3489226	40.00	ppm		0.00
83) Chrysene-d12	12.143	240	2953573	40.00	ppm		0.00
91) Perylene-d12	13.742	264	3142883	40.00	ppm		0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	951025	40.00	ppm		0.00
103) Acenaphthene-d10a	7.275	164	1893562	40.00	ppm		0.00
105) Phenanthrene-d10a	8.965	188	3489226	40.00	ppm		0.00
109) Chrysene-d12a	12.143	240	2953573	40.00	ppm		0.00
111) Naphthalene-d8a	5.542	136	3842191	40.00	ppm		0.00
113) Phenanthrene-d10b	8.965	188	3489226	40.00	ppm		0.00
115) Chrysene-d12b	12.143	240	2953573	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	0.000	112	0	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm		
Spiked Amount 50.000			Recovery =	0.00%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0	0.00	ppm		
Target Compounds							Qvalue
4) N-Nitrosodimethylamine	2.328	74	1114933	43.63	ppm		98
11) bis(2-Chloroethyl)ether	4.328	93	2003937	48.03	ppm		98
14) 1,3-Dichlorobenzene	4.483	146	1884768	46.91	ppm		98
15) 1,4-Dichlorobenzene	4.537	146	1900394	46.71	ppm		100
17) 1,2-Dichlorobenzene	4.649	146	1802698	47.65	ppm		99
20) 2,2'-oxybis(1-Chloropr...	4.735	121	610269	49.88	ppm	#	82
22) n-Nitroso-di-n-propyla...	4.831	70	1523160	47.61	ppm		98
23) Hexachloroethane	4.911	201	646738	48.48	ppm		95
26) Nitrobenzene	4.959	77	2082354	43.94	ppm		98
28) Isophorone	5.152	82	3658307	45.71	ppm		99
32) bis(2-Chloroethoxy)met...	5.334	93	2218320	45.12	ppm		98
36) 1,2,4-Trichlorobenzene	5.494	180	1509307	48.33	ppm		97
38) Naphthalene	5.564	128	4944759	47.66	ppm		100
42) Hexachlorobutadiene	5.681	225	870978	50.01	ppm		98
48) Hexachlorocyclopentadiene	6.366	237	684041	44.93	ppm		98
52) 2-Chloronaphthalene	6.687	162	2979480	49.01	ppm		97
55) Dimethylphthalate	7.003	163	3437005	48.39	ppm		100
56) Acenaphthylene	7.120	152	4559556	48.36	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477027.D
Acq On : 15 Nov 2018 3:23 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 15 16:04:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 15:36:18 2018
QLast Update : Thu Nov 15 15:36:18 2018
Response via : Initial Calibration

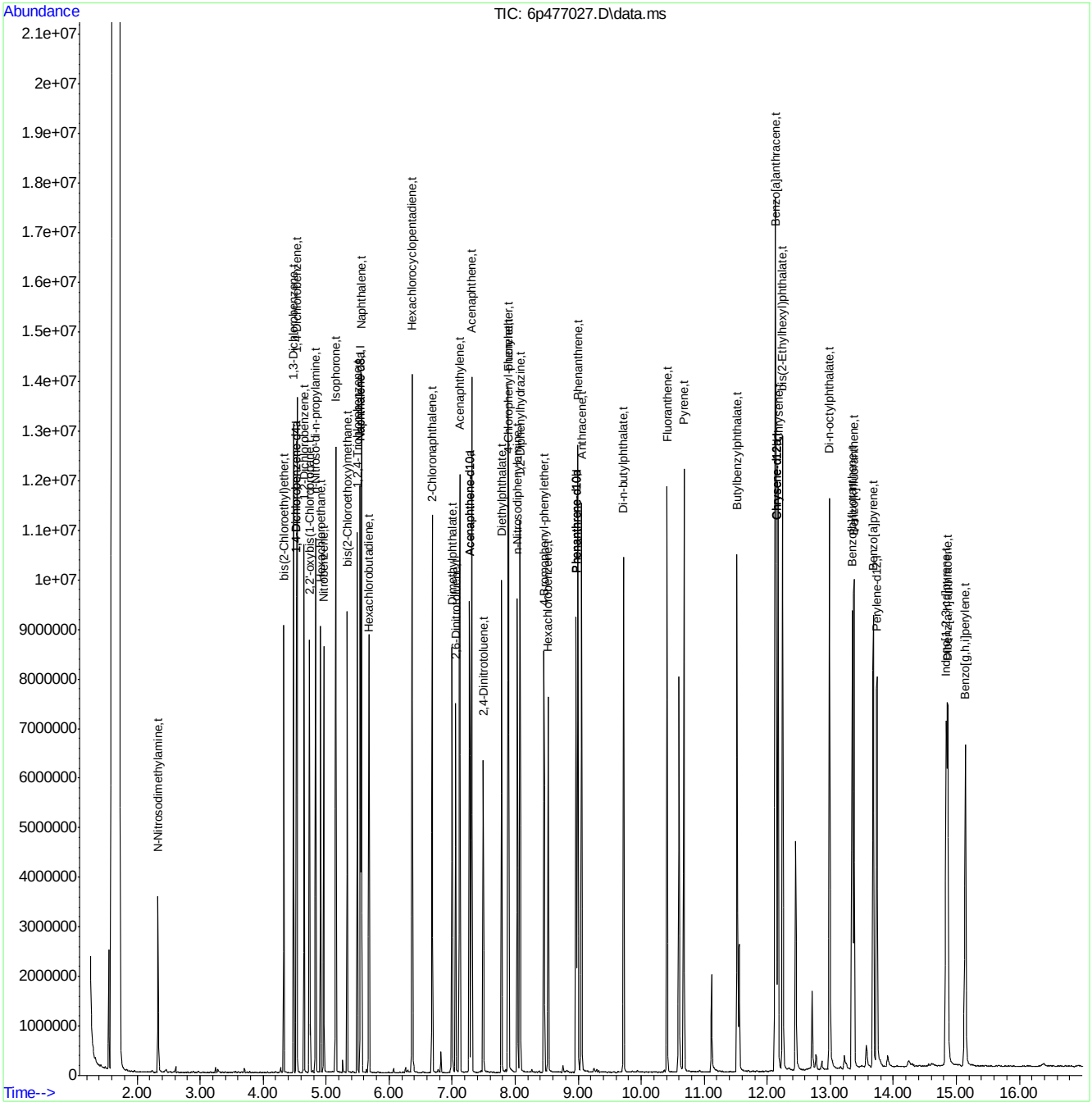
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 2,6-Dinitrotoluene	7.056	165	647047	42.04	ppm	94
59) Acenaphthene	7.313	153	3153795	47.83	ppm	100
63) 2,4-Dinitrotoluene	7.495	165	846452	41.16	ppm	81
65) Diethylphthalate	7.783	149	3239774	47.31	ppm	98
66) Fluorene	7.885	166	3319142	48.88	ppm	97
67) 4-Chlorophenyl-phenyle...	7.896	204	1507013	47.03	ppm	96
71) n-Nitrosodiphenylamine	8.035	169	2231845	45.43	ppm	99
72) 1,2-Diphenylhydrazine	8.078	77	4097054	47.72	ppm	97
74) 4-Bromophenyl-phenylether	8.457	248	911923	49.24	ppm	96
75) Hexachlorobenzene	8.522	284	1021782	49.44	ppm	93
77) Phenanthrene	8.992	178	4694616	48.07	ppm	99
78) Anthracene	9.051	178	4720383	48.01	ppm	99
80) Di-n-butylphthalate	9.720	149	5376826	48.63	ppm	100
81) Fluoranthene	10.410	202	4900070	47.66	ppm	99
84) Pyrene	10.677	202	5064310	50.91	ppm	100
86) Butylbenzylphthalate	11.522	149	2381670	54.31	ppm	99
87) Benzo[a]anthracene	12.132	228	4270058	50.08	ppm	99
89) Chrysene	12.175	228	4342769	48.52	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.244	149	3188116	52.30	ppm	98
92) Di-n-octylphthalate	12.988	149	5619347	57.16	ppm	99
93) Benzo[b]fluoranthene	13.346	252	4375128	52.79	ppm	93
94) Benzo[k]fluoranthene	13.378	252	4082486	46.87	ppm	98
95) Benzo[a]pyrene	13.683	252	3961694	52.20	ppm	99
96) Indeno[1,2,3-cd]pyrene	14.838	276	4920942	52.53	ppm	98
98) Dibenz[a,h]anthracene	14.865	278	4060285	52.30	ppm	98
100) Benzo[g,h,i]perylene	15.143	276	4117182	52.85	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477027.D
Acq On : 15 Nov 2018 3:23 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 15 16:04:33 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 15:36:18 2018
QLast Update : Thu Nov 15 15:36:18 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477029.D
Acq On : 15 Nov 2018 4:11 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 15 16:44:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 15:36:18 2018
QLast Update : Thu Nov 15 15:36:18 2018
Response via : Initial Calibration

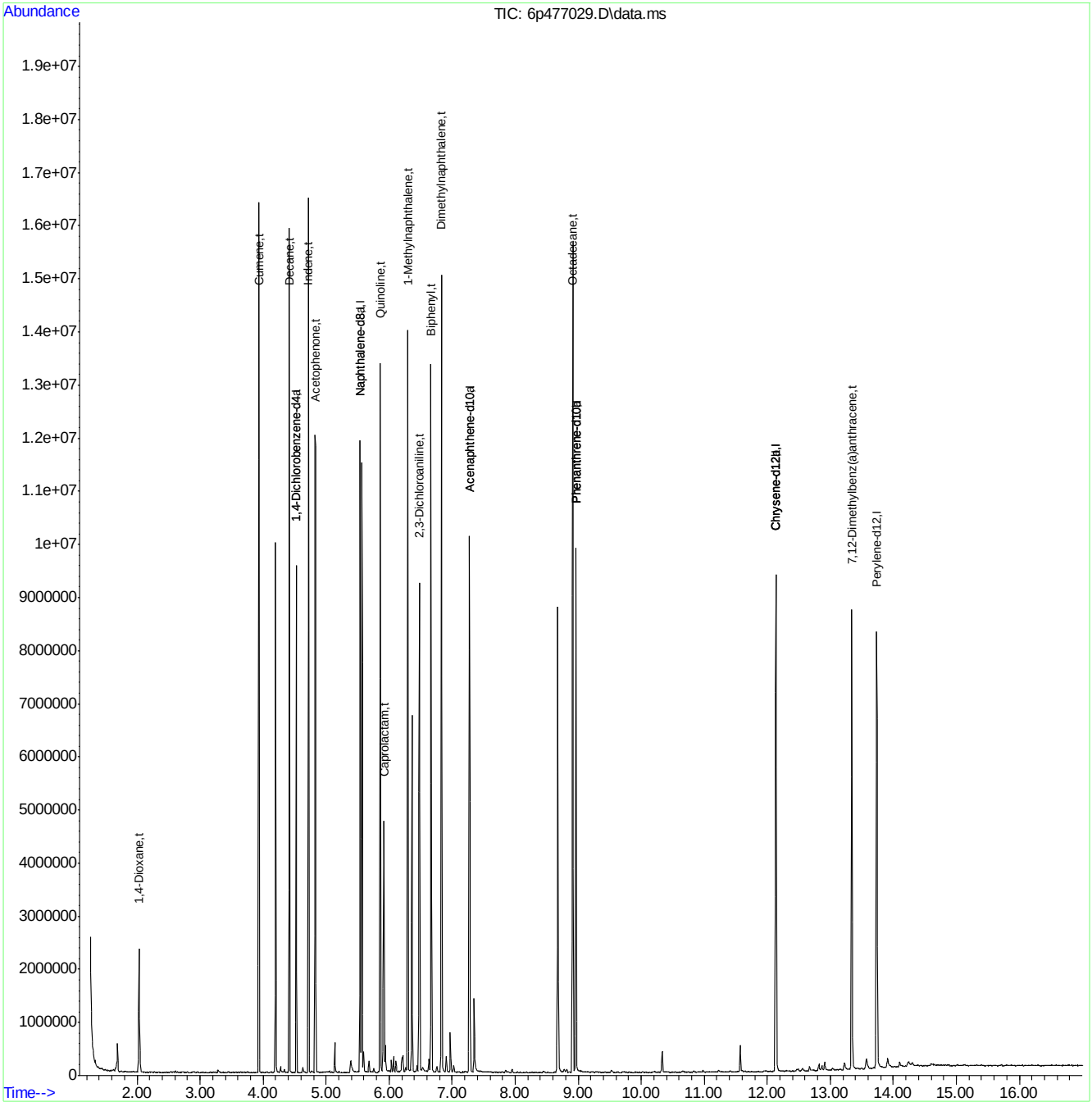
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.526	152	954381	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3854843	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	1946304	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3513508	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	3305520	40.00	ppm	0.00
91) Perylene-d12	13.736	264	3294490	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	954381	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	1946304	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3513508	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	3305520	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	3854843	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3513508	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	3305520	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.028	88	790028	49.88	ppm	99
6) Indene	4.718	116	3272353	51.91	ppm	99
7) Cumene	3.932	105	4518511	46.38	ppm	99
13) Decane	4.414	43	2589249	45.34	ppm	98
18) Acetophenone	4.831	105	2636603	46.08	ppm	94
27) Quinoline	5.858	129	3436276	46.80	ppm	99
40) 2,3-Dichloroaniline	6.478	161	1501811	42.65	ppm	98
41) Caprolactam	5.917	55	1029652	45.82	ppm	96
45) 1-Methylnaphthalene	6.296	141	2789012	44.71	ppm	98
46) Dimethylnaphthalene	6.831	156	3018253	47.13	ppm	98
53) Biphenyl	6.671	154	4021097	46.51	ppm	100
82) Octadecane	8.912	57	3045125	49.46	ppm	98
99) 7,12-Dimethylbenz(a)an...	13.340	256	1886513	50.60	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477029.D
Acq On : 15 Nov 2018 4:11 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 15 16:44:51 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 15:36:18 2018
QLast Update : Thu Nov 15 15:36:18 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477030.D
Acq On : 15 Nov 2018 4:37 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 15 16:57:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 16:46:26 2018
QLast Update : Thu Nov 15 16:46:26 2018
Response via : Initial Calibration

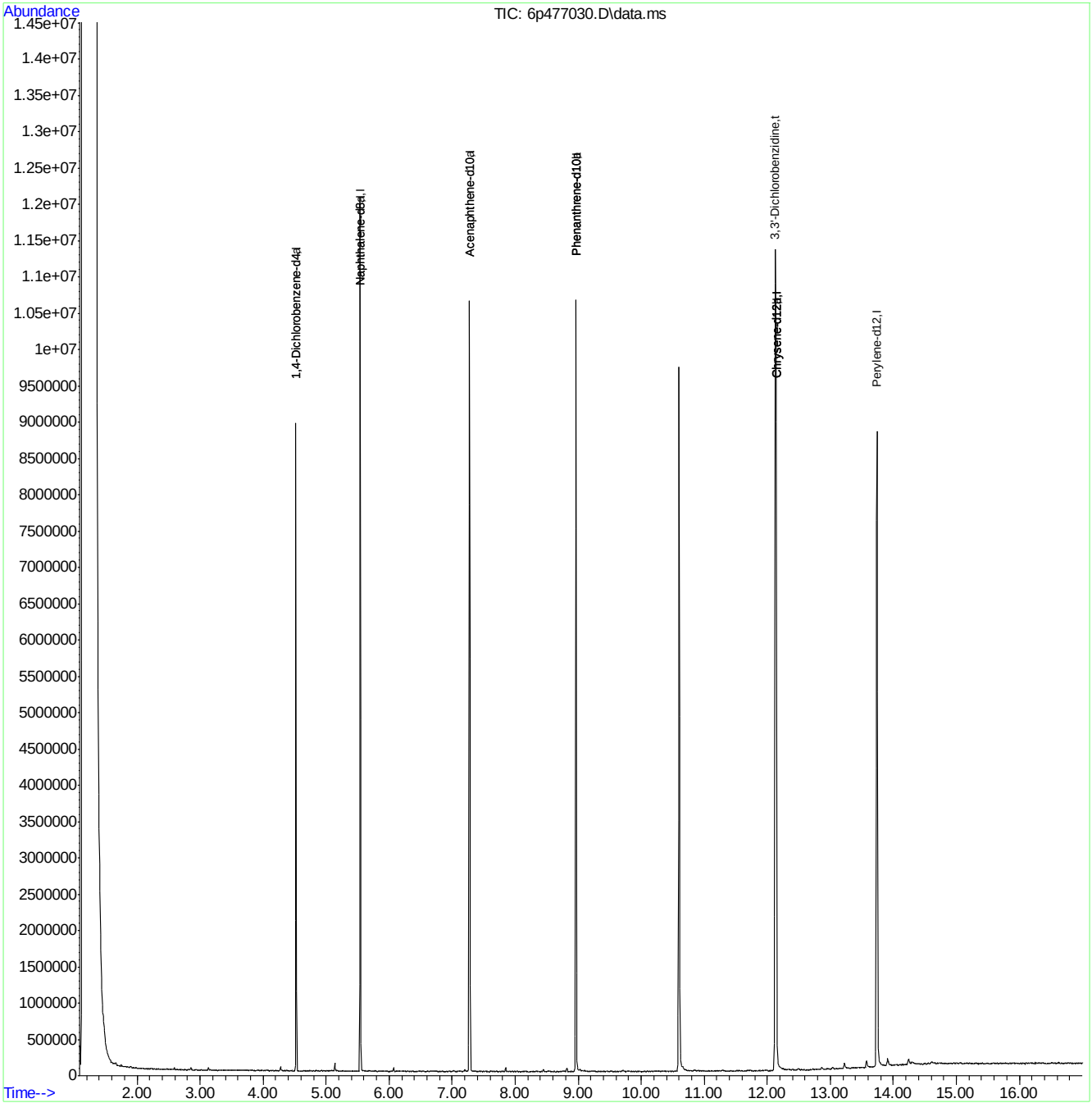
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	934875	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3842525	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	2005595	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3656565	40.00	ppm	0.00
83) Chrysene-d12	12.142	240	3297484	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3607975	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	934875	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	2005595	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3656565	40.00	ppm	0.00
109) Chrysene-d12a	12.142	240	3297484	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	3842525	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3656565	40.00	ppm	0.00
115) Chrysene-d12b	12.142	240	3297484	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
88) 3,3'-Dichlorobenzidine	12.126	252	1903056	58.43	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477030.D
Acq On : 15 Nov 2018 4:37 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 15 16:57:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 16:46:26 2018
QLast Update : Thu Nov 15 16:46:26 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477031.D
Acq On : 15 Nov 2018 5:04 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 15 17:30:49 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 16:56:35 2018
QLast Update : Thu Nov 15 16:56:35 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.526	152	1081767	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	4331861	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	2439539	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3984530	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	3668493	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3716632	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	1081767	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	2439539	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3984530	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	3668493	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	4331861	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3984530	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	3668493	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.547	112	2020959	48.59	ppm	0.00
Spiked Amount 50.000			Recovery = 97.18%			
8) Phenol-d5	4.269	99	2661301	48.52	ppm	0.00
Spiked Amount 50.000			Recovery = 97.04%			
25) Nitrobenzene-d5	4.949	82	2460572	47.01	ppm	0.00
Spiked Amount 50.000			Recovery = 94.02%			
51) 2-Fluorobiphenyl	6.569	172	4057677	44.49	ppm	0.00
Spiked Amount 50.000			Recovery = 88.98%			
73) 2,4,6-Tribromophenol	8.163	330	527488	52.61	ppm	0.00
Spiked Amount 50.000			Recovery = 105.22%			
85) Terphenyl-d14	10.902	244	4143396	54.00	ppm	0.00
Spiked Amount 50.000			Recovery = 108.00%			
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	

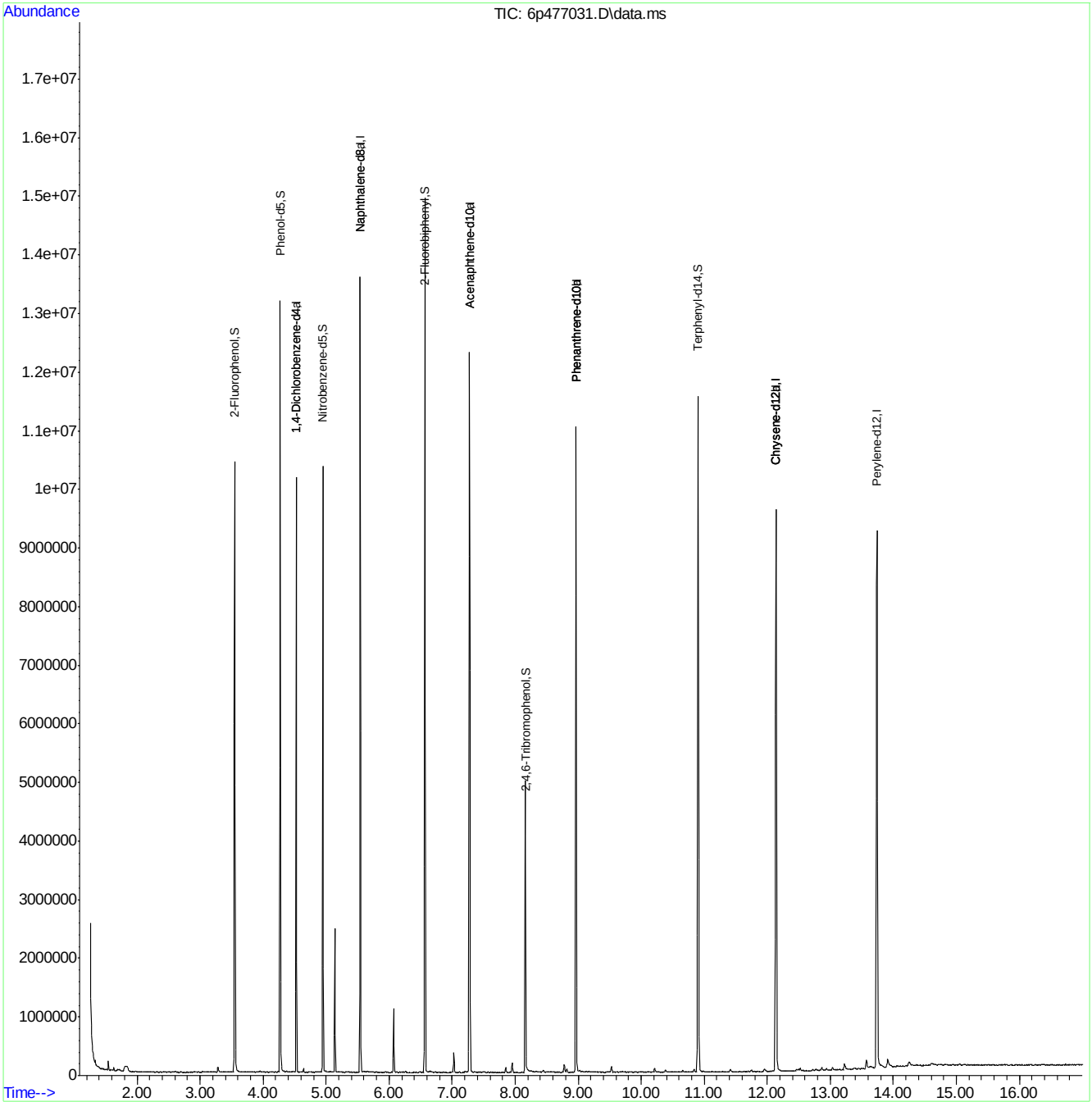
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2400\
Data File : 6p477031.D
Acq On : 15 Nov 2018 5:04 pm
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2400,1000,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 15 17:30:49 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Nov 15 16:56:35 2018
QLast Update : Thu Nov 15 16:56:35 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477034.D
Acq On : 15 Nov 2018 6:01 pm
Operator : kristis
Sample : ic2401-50
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 16 11:06:57 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 11:06:17 2018
Response via : Initial Calibration

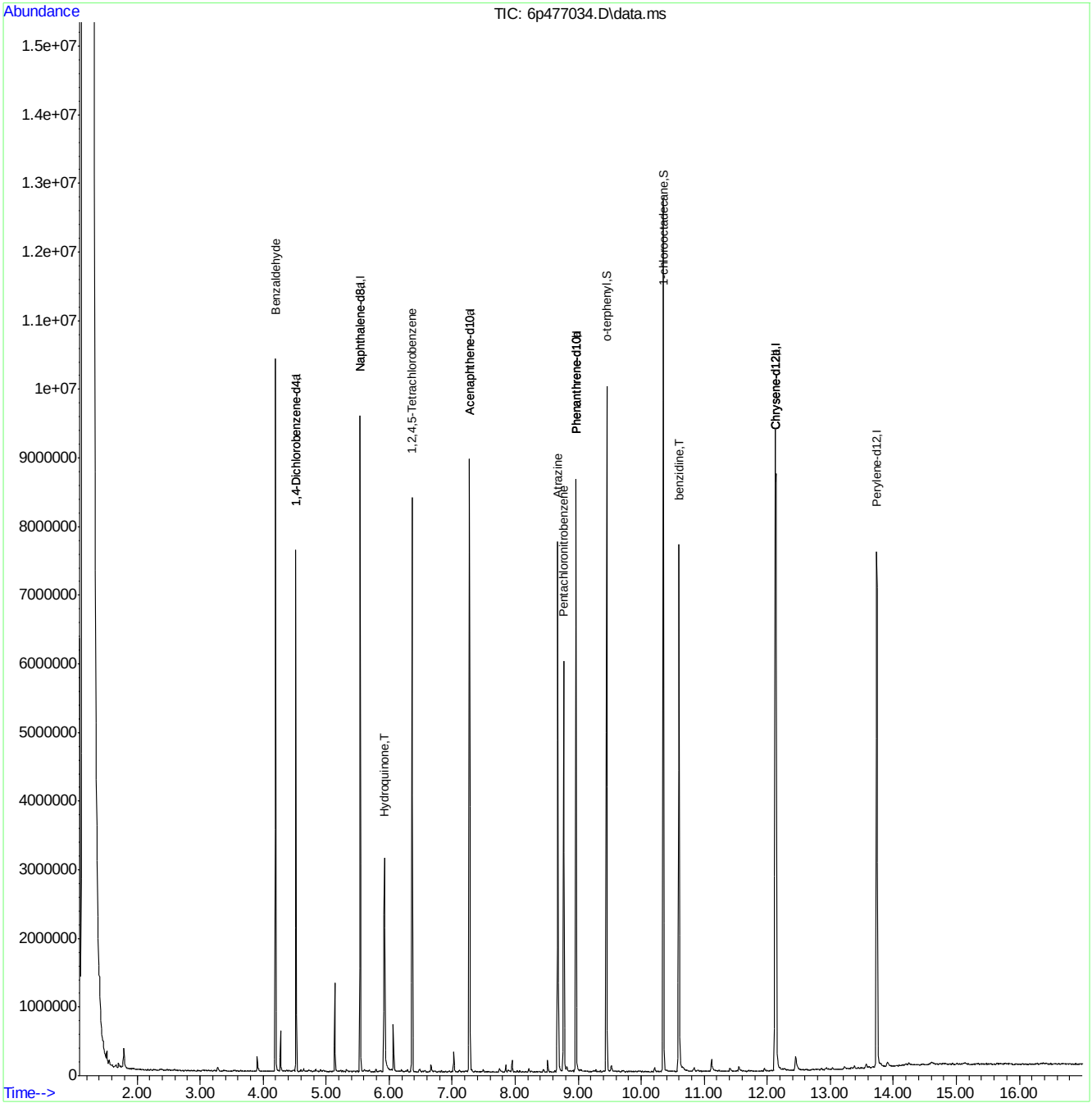
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	794246	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3220508	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	1784871	40.00	ppm	0.00
69) Phenanthrene-d10	8.966	188	2991926	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	2864989	40.00	ppm	0.00
91) Perylene-d12	13.736	264	3132860	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	794246	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	1784871	40.00	ppm	0.00
105) Phenanthrene-d10a	8.966	188	2991926	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	2864989	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	3220508	40.00	ppm	0.00
113) Phenanthrene-d10b	8.966	188	2991926	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	2864989	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.351	57	1820792	50.00	ppm	0.00
107) o-terphenyl	9.452	230	2158729	50.00	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.195	105	1289125	50.00	ppm	100
104) 1,2,4,5-Tetrachloroben...	6.366	216	1150573	50.00	ppm	100
108) Atrazine	8.677	215	419521	50.00	ppm	100
110) benzidine	10.597	184	2994949	50.00	ppm	100
112) Hydroquinone	5.927	110	1413544	50.00	ppm	100
114) Pentachloronitrobenzene	8.773	295	163504	50.00	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477034.D
Acq On : 15 Nov 2018 6:01 pm
Operator : kristis
Sample : ic2401-50
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 16 11:06:57 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 11:06:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477035.D
Acq On : 15 Nov 2018 6:24 pm
Operator : kristis
Sample : ic2401-1
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 16 10:59:07 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration

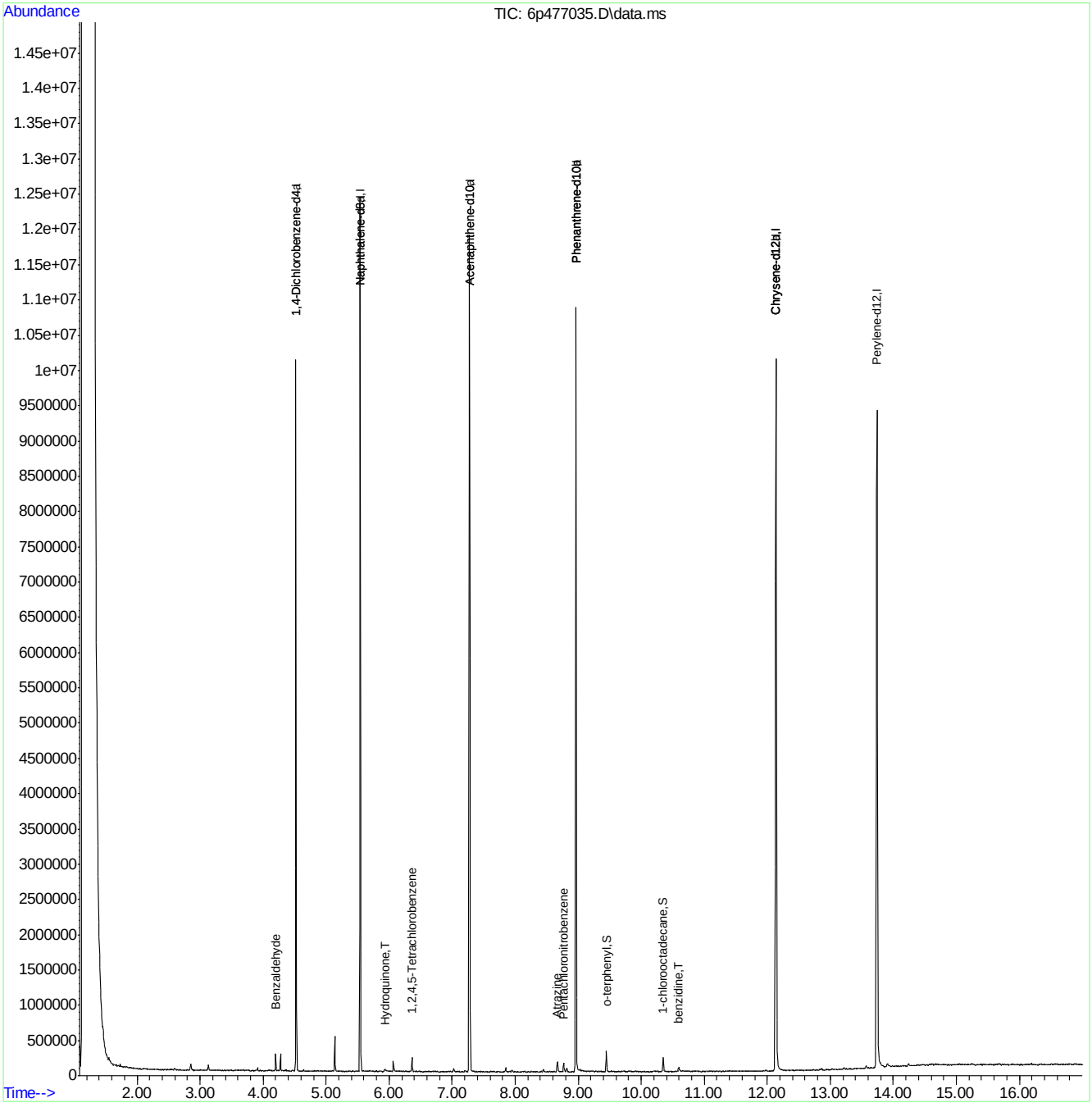
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	1004615	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	4177277	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	2293751	40.00	ppm	0.00
69) Phenanthrene-d10	8.966	188	3876433	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	3709695	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3815512	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	1004615	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	2293751	40.00	ppm	0.00
105) Phenanthrene-d10a	8.966	188	3876433	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	3709695	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	4177277	40.00	ppm	0.00
113) Phenanthrene-d10b	8.966	188	3876433	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	3709695	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.345	57	31564	1.34	ppm	0.00
107) o-terphenyl	9.447	230	54375	1.94	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.200	105	34611	2.12	ppm	91
104) 1,2,4,5-Tetrachloroben...	6.366	216	29886	2.02	ppm	94
108) Atrazine	8.671	215	6134	1.13	ppm	97
110) benzidine	10.591	184	31399	0.81	ppm	92
112) Hydroquinone	5.933	110	16099	0.88	ppm	84
114) Pentachloronitrobenzene	8.773	295	3030	1.43	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477035.D
Acq On : 15 Nov 2018 6:24 pm
Operator : kristis
Sample : ic2401-1
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 16 10:59:07 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477036.D
Acq On : 15 Nov 2018 6:48 pm
Operator : kristis
Sample : ic2401-2
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 10:59:53 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration

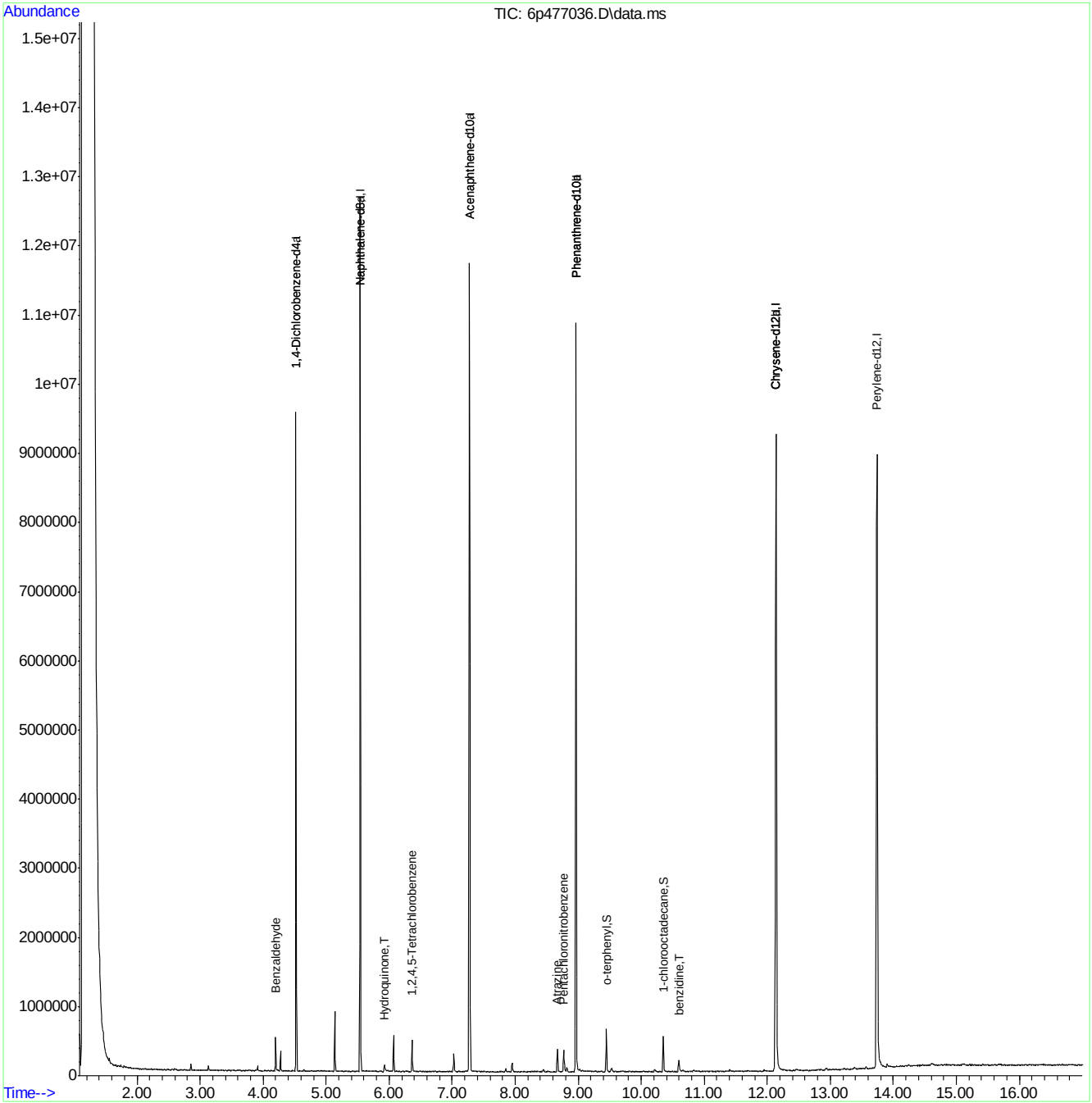
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	1008982	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	4187453	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	2279728	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3784160	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	3583219	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3660837	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	1008982	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	2279728	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3784160	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	3583219	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	4187453	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3784160	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	3583219	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.351	57	80019	3.48	ppm	0.00
107) o-terphenyl	9.447	230	110258	4.04	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.200	105	70321	4.29	ppm	90
104) 1,2,4,5-Tetrachloroben...	6.366	216	62602	4.26	ppm	99
108) Atrazine	8.671	215	16041	3.02	ppm	89
110) benzidine	10.597	184	71401	1.91	ppm	99
112) Hydroquinone	5.927	110	45593	2.48	ppm	96
114) Pentachloronitrobenzene	8.773	295	7265	3.51	ppm	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477036.D
Acq On : 15 Nov 2018 6:48 pm
Operator : kristis
Sample : ic2401-2
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 10:59:53 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477037.D
Acq On : 15 Nov 2018 7:12 pm
Operator : kristis
Sample : ic2401-5
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 16 11:00:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration

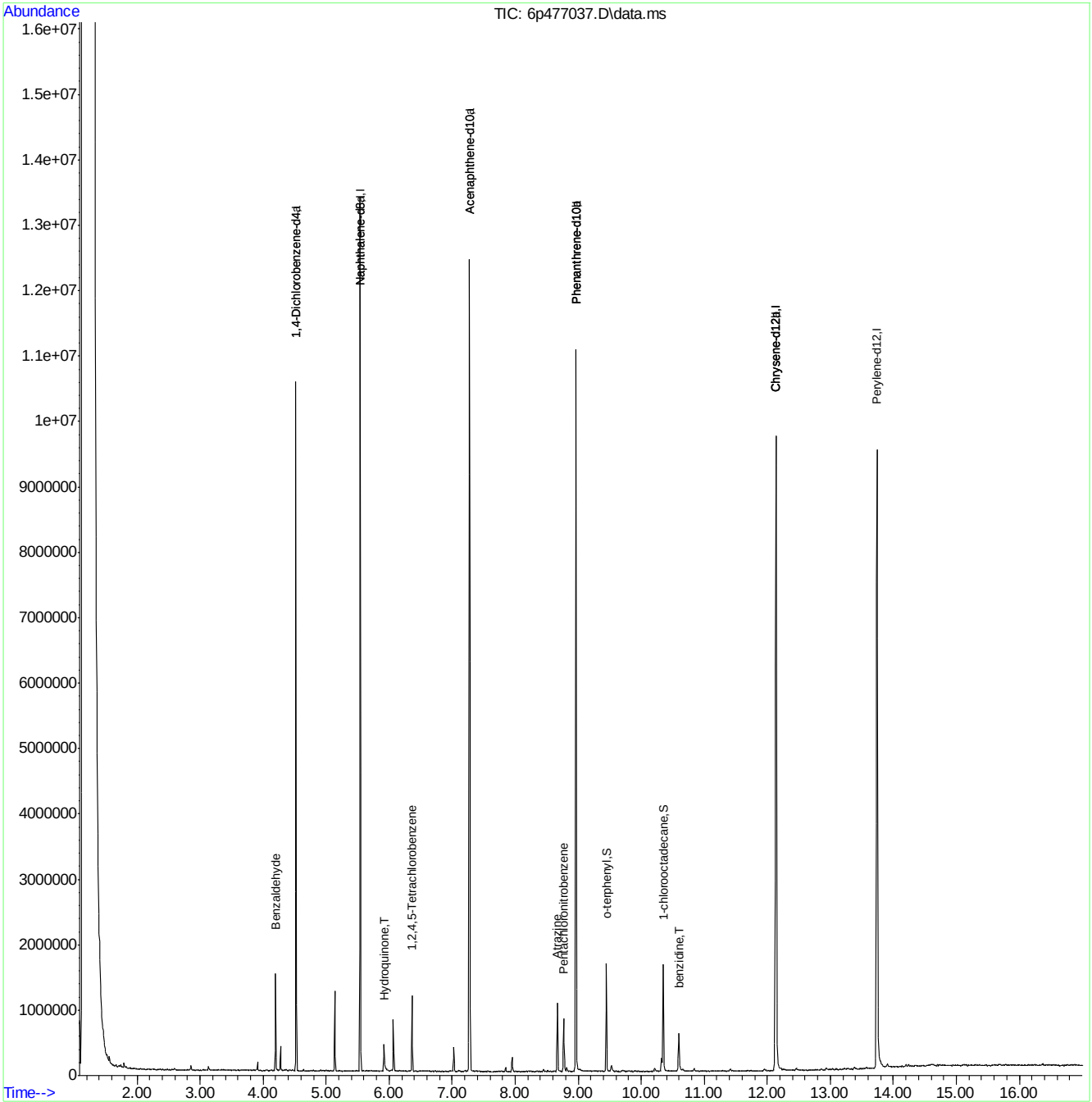
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	1061944	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	4358513	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	2388837	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3960168	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	3761936	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3909271	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	1061944	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	2388837	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3960168	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	3761936	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	4358513	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3960168	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	3761936	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.351	57	261290	10.85	ppm	0.00
107) o-terphenyl	9.447	230	296341	10.37	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.194	105	184516	10.70	ppm	96
104) 1,2,4,5-Tetrachloroben...	6.366	216	166028	10.78	ppm	97
108) Atrazine	8.671	215	46485	8.37	ppm	92
110) benzidine	10.597	184	248479	6.32	ppm	99
112) Hydroquinone	5.917	110	157087	8.21	ppm	97
114) Pentachloronitrobenzene	8.773	295	20899	9.66	ppm	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477037.D
Acq On : 15 Nov 2018 7:12 pm
Operator : kristis
Sample : ic2401-5
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 16 11:00:52 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477038.D
Acq On : 15 Nov 2018 7:36 pm
Operator : kristis
Sample : ic2401-10
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 11:01:45 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration

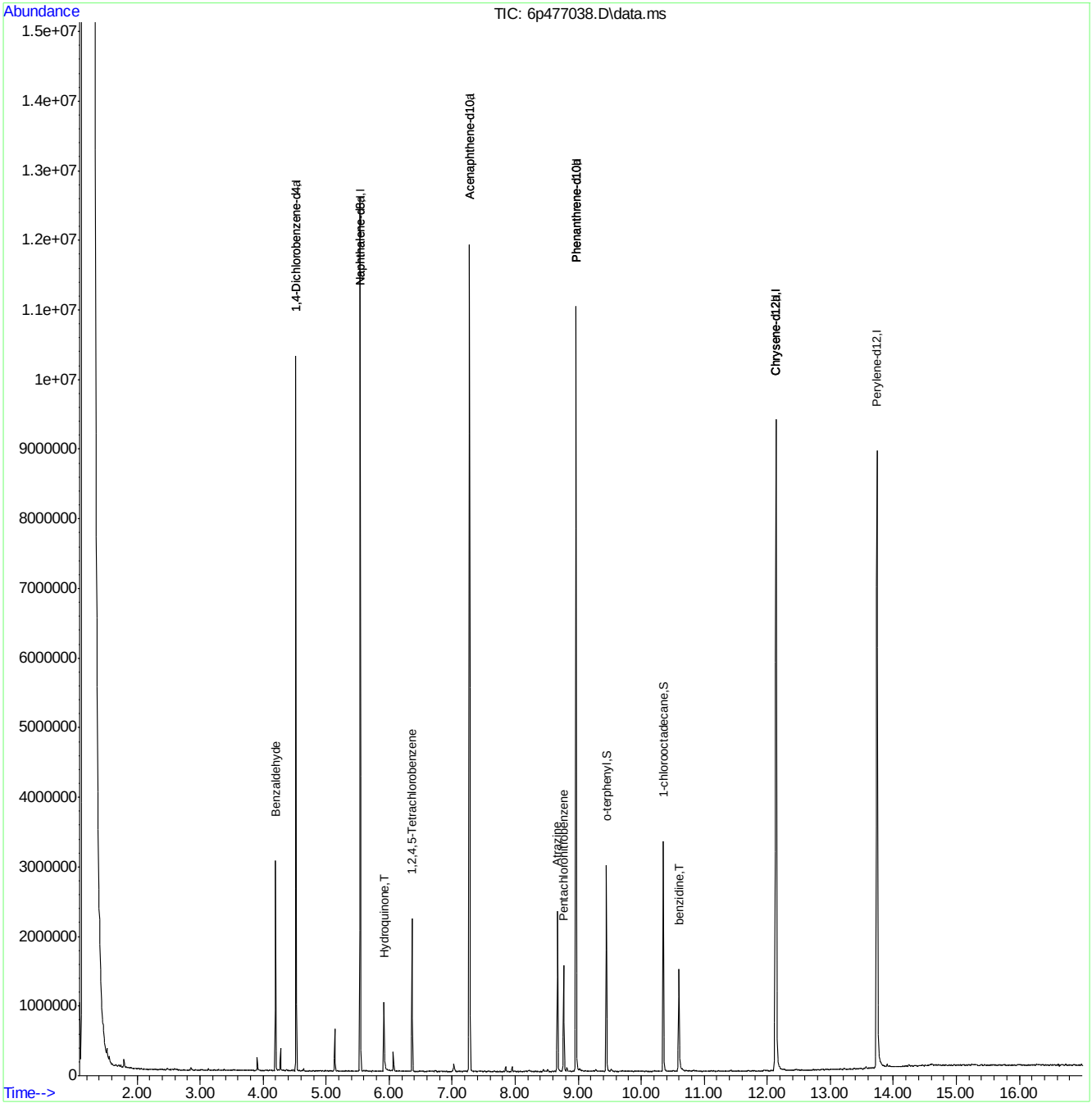
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	1008989	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	4210918	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	2312473	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3864786	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	3565960	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3667008	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	1008989	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	2312473	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3864786	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	3565960	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	4210918	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3864786	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	3565960	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.351	57	473733	20.16	ppm	0.00
107) o-terphenyl	9.447	230	577328	20.70	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.194	105	352814	21.54	ppm	99
104) 1,2,4,5-Tetrachloroben...	6.366	216	312430	20.96	ppm	98
108) Atrazine	8.671	215	104834	19.34	ppm	96
110) benzidine	10.597	184	582413	15.62	ppm	98
112) Hydroquinone	5.917	110	342907	18.55	ppm	97
114) Pentachloronitrobenzene	8.773	295	41601	19.70	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477038.D
Acq On : 15 Nov 2018 7:36 pm
Operator : kristis
Sample : ic2401-10
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 11:01:45 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477039.D
Acq On : 15 Nov 2018 8:00 pm
Operator : kristis
Sample : ic2401-100
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 16 11:02:39 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration

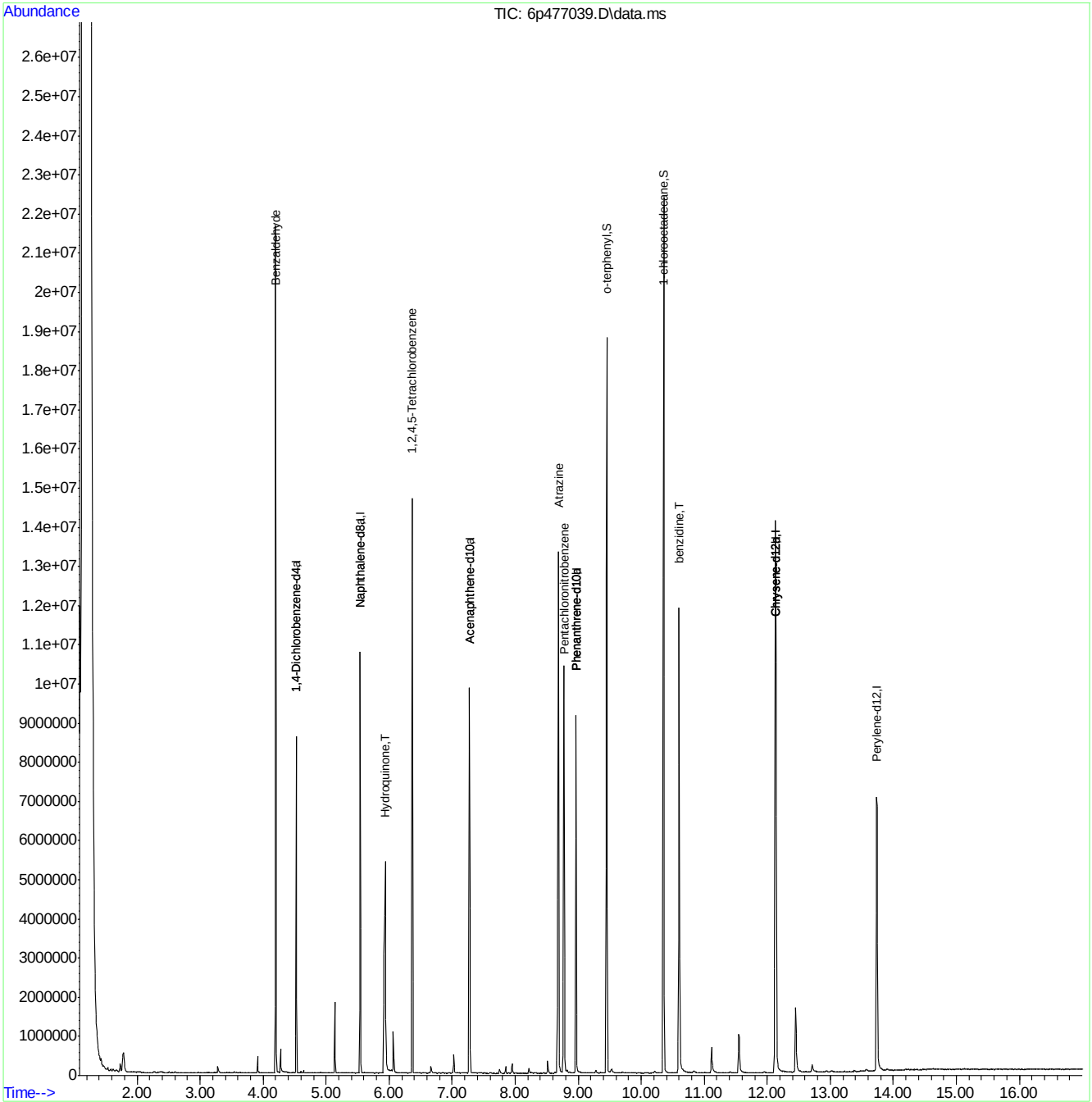
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.526	152	872279	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3599113	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	1967724	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3206025	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	2741952	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3012835	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	872279	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	1967724	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3206025	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	2741952	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	3599113	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3206025	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	2741952	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.356	57	3597206	184.54	ppm	0.00
107) o-terphenyl	9.452	230	4004955	173.12	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.200	105	2693416	190.20	ppm	97
104) 1,2,4,5-Tetrachloroben...	6.366	216	2273925	179.27	ppm	99
108) Atrazine	8.687	215	832561	185.18	ppm	96
110) benzidine	10.602	184	4930894	172.03	ppm	98
112) Hydroquinone	5.938	110	3104457	196.51	ppm	99
114) Pentachloronitrobenzene	8.778	295	328488	187.48	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477039.D
Acq On : 15 Nov 2018 8:00 pm
Operator : kristis
Sample : ic2401-100
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 16 11:02:39 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration



M6P2400.M Fri Nov 16 11:02:58 2018 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477040.D
Acq On : 15 Nov 2018 8:24 pm
Operator : kristis
Sample : ic2401-80
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 16 11:03:34 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration

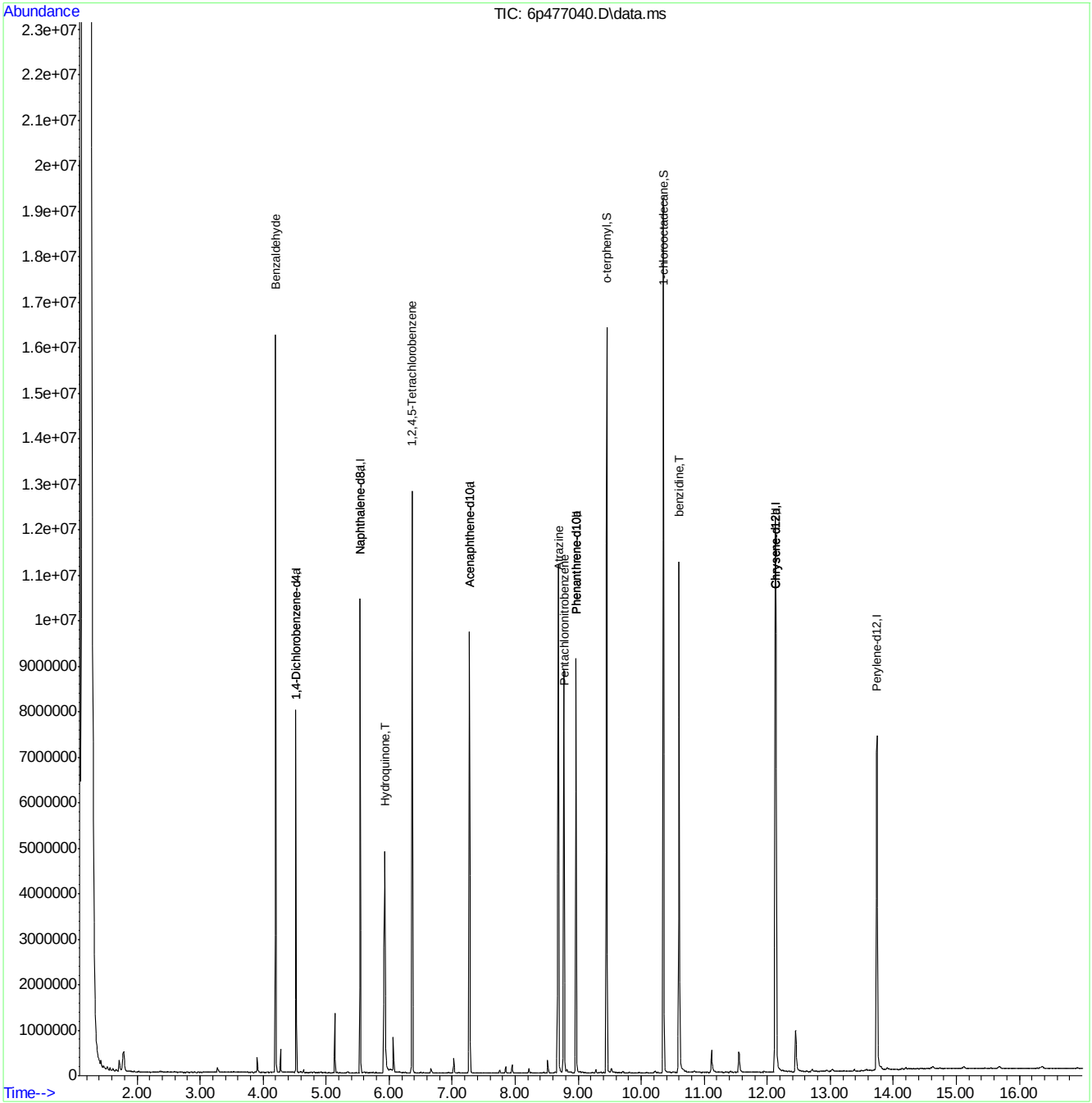
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.526	152	859910	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3573665	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	1924152	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3159506	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	2849513	40.00	ppm	0.00
91) Perylene-d12	13.742	264	3068089	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	859910	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	1924152	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3159506	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	2849513	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	3573665	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3159506	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	2849513	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.351	57	2979984	155.13	ppm	0.00
107) o-terphenyl	9.452	230	3348852	146.89	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.200	105	2169253	155.39	ppm	95
104) 1,2,4,5-Tetrachloroben...	6.366	216	1865734	150.42	ppm	98
108) Atrazine	8.687	215	675200	152.39	ppm #	87
110) benzidine	10.602	184	4424073	148.52	ppm	99
112) Hydroquinone	5.933	110	2485605	158.46	ppm	98
114) Pentachloronitrobenzene	8.778	295	264335	153.09	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477040.D
Acq On : 15 Nov 2018 8:24 pm
Operator : kristis
Sample : ic2401-80
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 16 11:03:34 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 10:56:09 2018
QLast Update : Fri Nov 16 10:56:09 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477041.D
Acq On : 15 Nov 2018 8:48 pm
Operator : kristis
Sample : icc2401-25
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 16 11:08:14 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:06:17 2018
QLast Update : Fri Nov 16 11:06:17 2018
Response via : Initial Calibration

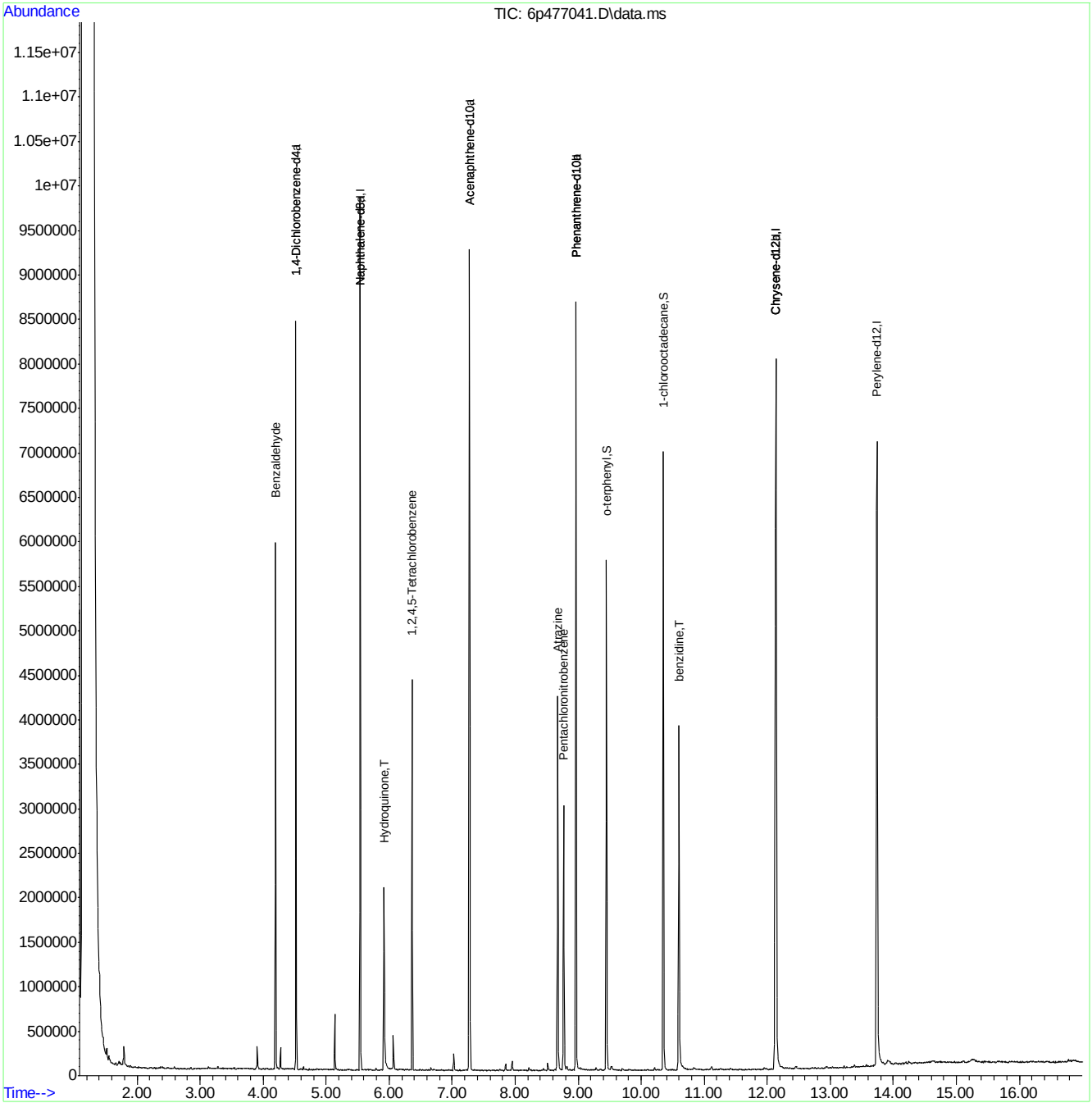
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	791224	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3335164	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	1810575	40.00	ppm	0.00
69) Phenanthrene-d10	8.965	188	3008159	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	2837996	40.00	ppm	0.00
91) Perylene-d12	13.742	264	2917935	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.521	152	791224	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	1810575	40.00	ppm	0.00
105) Phenanthrene-d10a	8.965	188	3008159	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	2837996	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	3335164	40.00	ppm	0.00
113) Phenanthrene-d10b	8.965	188	3008159	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	2837996	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.351	57	976327	26.67	ppm	0.00
107) o-terphenyl	9.447	230	1122867	25.87	ppm	0.00
Target Compounds						Qvalue
102) Benzaldehyde	4.194	105	697874	27.17	ppm	98
104) 1,2,4,5-Tetrachloroben...	6.366	216	619094	26.52	ppm	100
108) Atrazine	8.676	215	208500	24.72	ppm	94
110) benzidine	10.597	184	1413570	23.82	ppm	99
112) Hydroquinone	5.917	110	751368	25.66	ppm	98
114) Pentachloronitrobenzene	8.773	295	84252	25.63	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477041.D
Acq On : 15 Nov 2018 8:48 pm
Operator : kristis
Sample : icc2401-25
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 16 11:08:14 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:06:17 2018
QLast Update : Fri Nov 16 11:06:17 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477043.D
Acq On : 15 Nov 2018 9:36 pm
Operator : kristis
Sample : icv2401-50
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 16 14:22:06 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

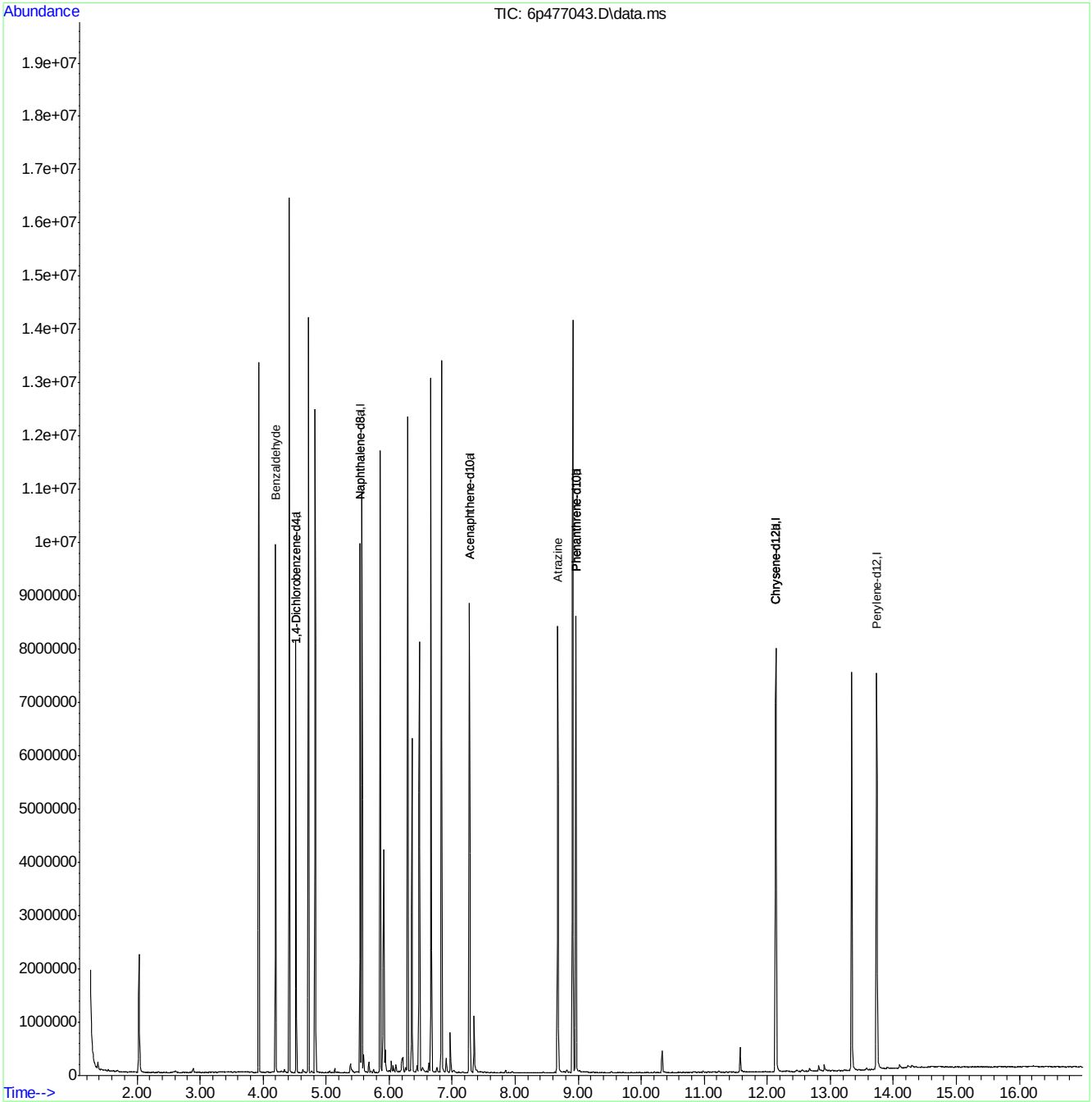
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.526	152	859187	40.00	ppm	0.00
24) Naphthalene-d8	5.542	136	3560943	40.00	ppm	0.00
47) Acenaphthene-d10	7.275	164	1783919	40.00	ppm	0.00
69) Phenanthrene-d10	8.966	188	3167115	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	2971484	40.00	ppm	0.00
91) Perylene-d12	13.736	264	2859332	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.526	152	859187	40.00	ppm	0.00
103) Acenaphthene-d10a	7.275	164	1783919	40.00	ppm	0.00
105) Phenanthrene-d10a	8.966	188	3167115	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	2971484	40.00	ppm	0.00
111) Naphthalene-d8a	5.542	136	3560943	40.00	ppm	0.00
113) Phenanthrene-d10b	8.966	188	3167115	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	2971484	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
102) Benzaldehyde	4.195	105	1227726	42.47	ppm	98
108) Atrazine	8.677	215	457884	56.15	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2401\
Data File : 6p477043.D
Acq On : 15 Nov 2018 9:36 pm
Operator : kristis
Sample : icv2401-50
Misc : op16488,e6p2401,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 16 14:22:06 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477047.D
Acq On : 16 Nov 2018 10:10 am
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 16 14:36:13 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

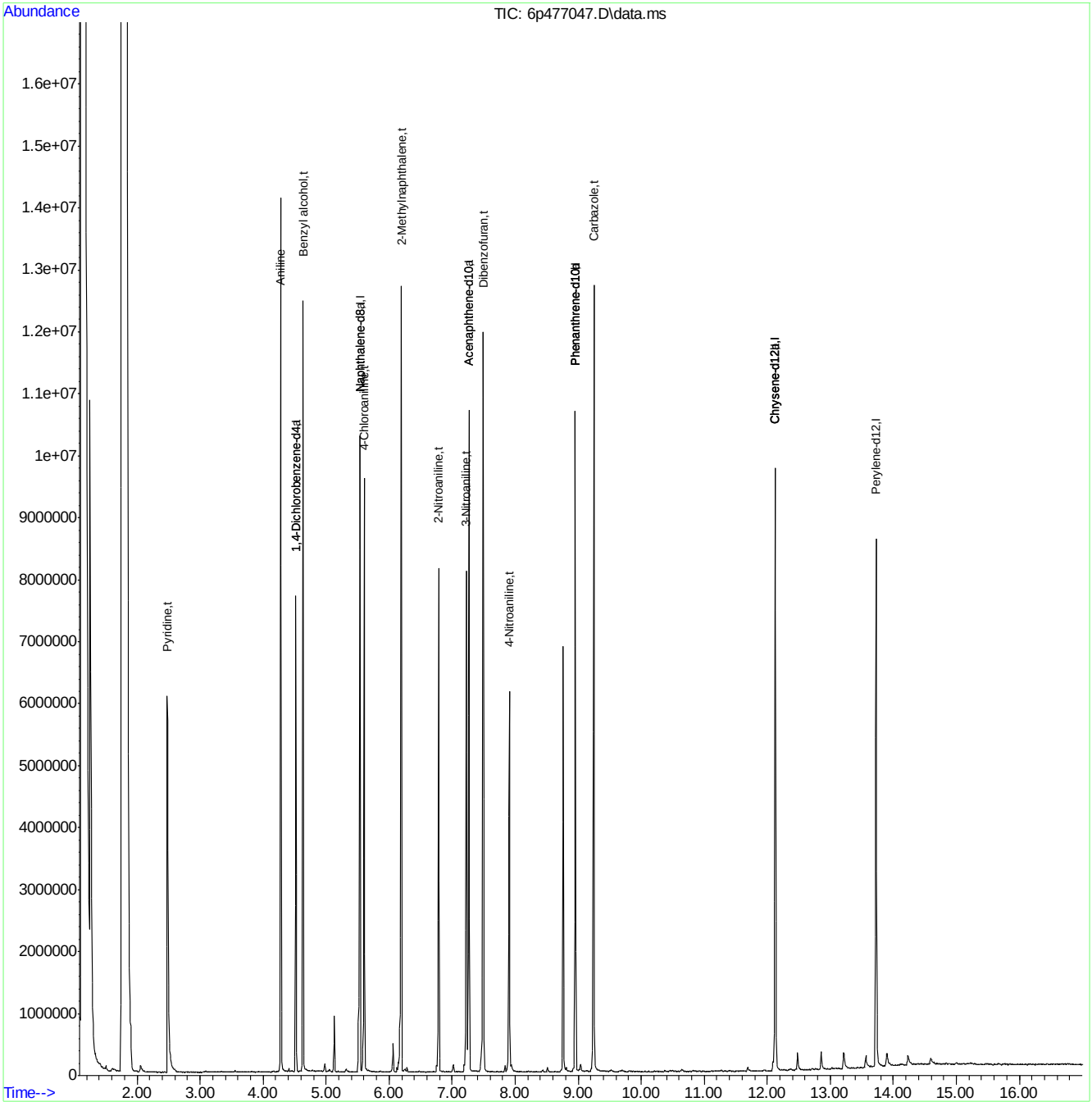
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	1039263	40.00	ppm	0.00
24) Naphthalene-d8	5.537	136	4333743	40.00	ppm	0.00
47) Acenaphthene-d10	7.265	164	2373685	40.00	ppm	-0.01
69) Phenanthrene-d10	8.955	188	3911032	40.00	ppm	-0.01
83) Chrysene-d12	12.126	240	3566644	40.00	ppm	-0.01
91) Perylene-d12	13.726	264	3561345	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.521	152	1039263	40.00	ppm	0.00
103) Acenaphthene-d10a	7.265	164	2373685	40.00	ppm	-0.01
105) Phenanthrene-d10a	8.955	188	3911032	40.00	ppm	-0.01
109) Chrysene-d12a	12.126	240	3566644	40.00	ppm	-0.01
111) Naphthalene-d8a	5.537	136	4333743	40.00	ppm	0.00
113) Phenanthrene-d10b	8.955	188	3911032	40.00	ppm	-0.01
115) Chrysene-d12b	12.126	240	3566644	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
3) Pyridine	2.478	79	2464931	51.91	ppm	93
10) Aniline	4.280	93	3577380	52.85	ppm	# 60
16) Benzyl alcohol	4.633	108	1435595	54.58	ppm	90
39) 4-Chloroaniline	5.606	127	2381794	47.49	ppm	95
44) 2-Methylnaphthalene	6.195	141	3195027	50.13	ppm	98
54) 2-Nitroaniline	6.789	65	1257211	40.16	ppm	95
58) 3-Nitroaniline	7.227	138	1026413	42.09	ppm	99
62) Dibenzofuran	7.495	168	4920623	47.28	ppm	98
68) 4-Nitroaniline	7.906	138	1004382	40.50	ppm	96
79) Carbazole	9.249	167	5274812	49.73	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477047.D
Acq On : 16 Nov 2018 10:10 am
Operator : angelar
Sample : icv2400-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 16 14:36:13 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477047a.D
Acq On : 16 Nov 2018 10:10 am
Operator : angelar
Sample : icv2401-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 16 14:36:50 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

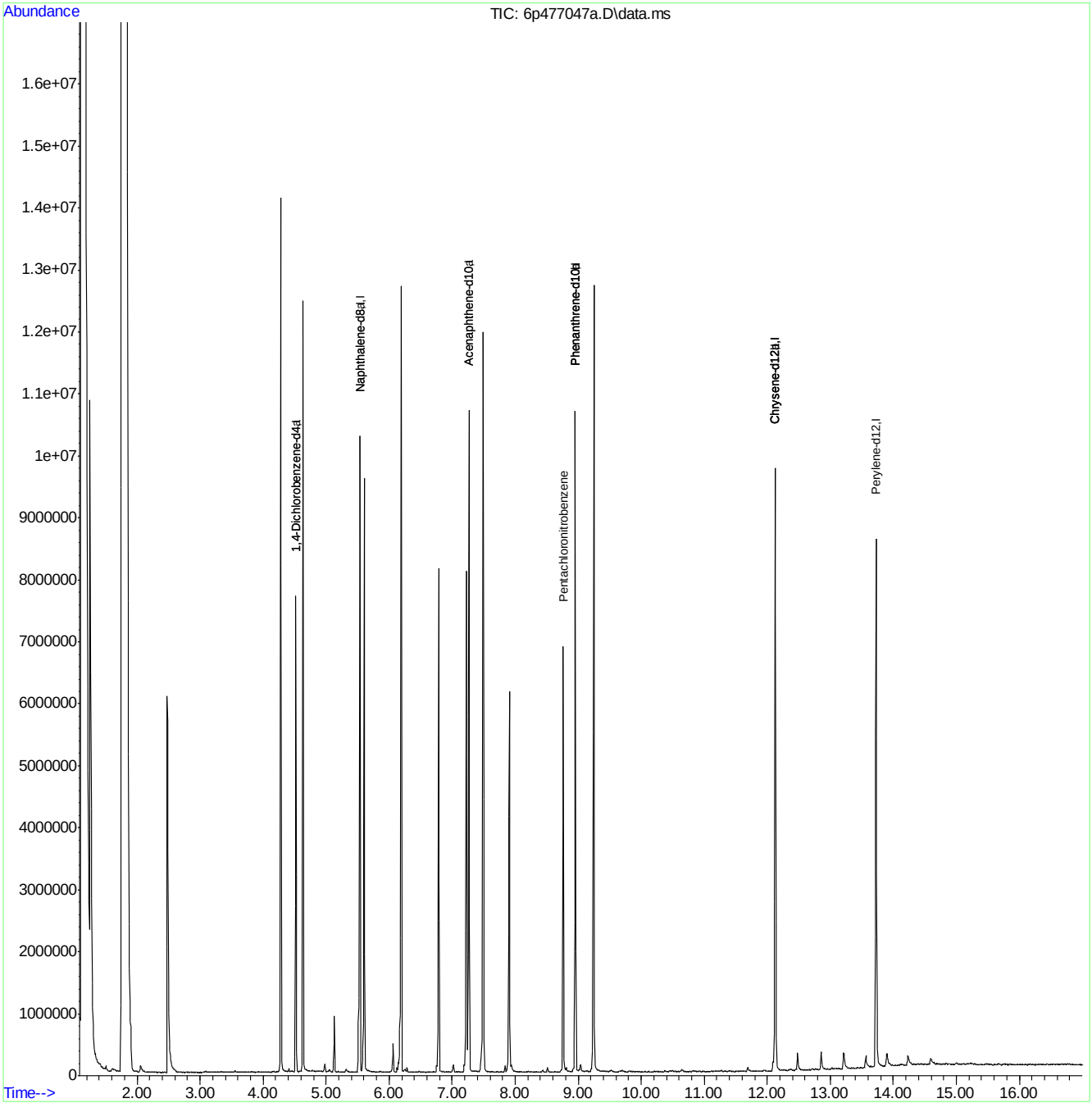
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	1039263	40.00	ppm	0.00
24) Naphthalene-d8	5.537	136	4333743	40.00	ppm	0.00
47) Acenaphthene-d10	7.265	164	2373685	40.00	ppm	-0.01
69) Phenanthrene-d10	8.955	188	3911032	40.00	ppm	-0.01
83) Chrysene-d12	12.126	240	3566644	40.00	ppm	-0.01
91) Perylene-d12	13.726	264	3561345	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.521	152	1039263	40.00	ppm	0.00
103) Acenaphthene-d10a	7.265	164	2373685	40.00	ppm	-0.01
105) Phenanthrene-d10a	8.955	188	3911032	40.00	ppm	-0.01
109) Chrysene-d12a	12.126	240	3566644	40.00	ppm	-0.01
111) Naphthalene-d8a	5.537	136	4333743	40.00	ppm	0.00
113) Phenanthrene-d10b	8.955	188	3911032	40.00	ppm	-0.01
115) Chrysene-d12b	12.126	240	3566644	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
114) Pentachloronitrobenzene	8.762	295	203396	51.00	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477047a.D
Acq On : 16 Nov 2018 10:10 am
Operator : angelar
Sample : icv2401-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 16 14:36:50 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477048.D
Acq On : 16 Nov 2018 10:34 am
Operator : angelar
Sample : icv2401-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 14:38:02 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

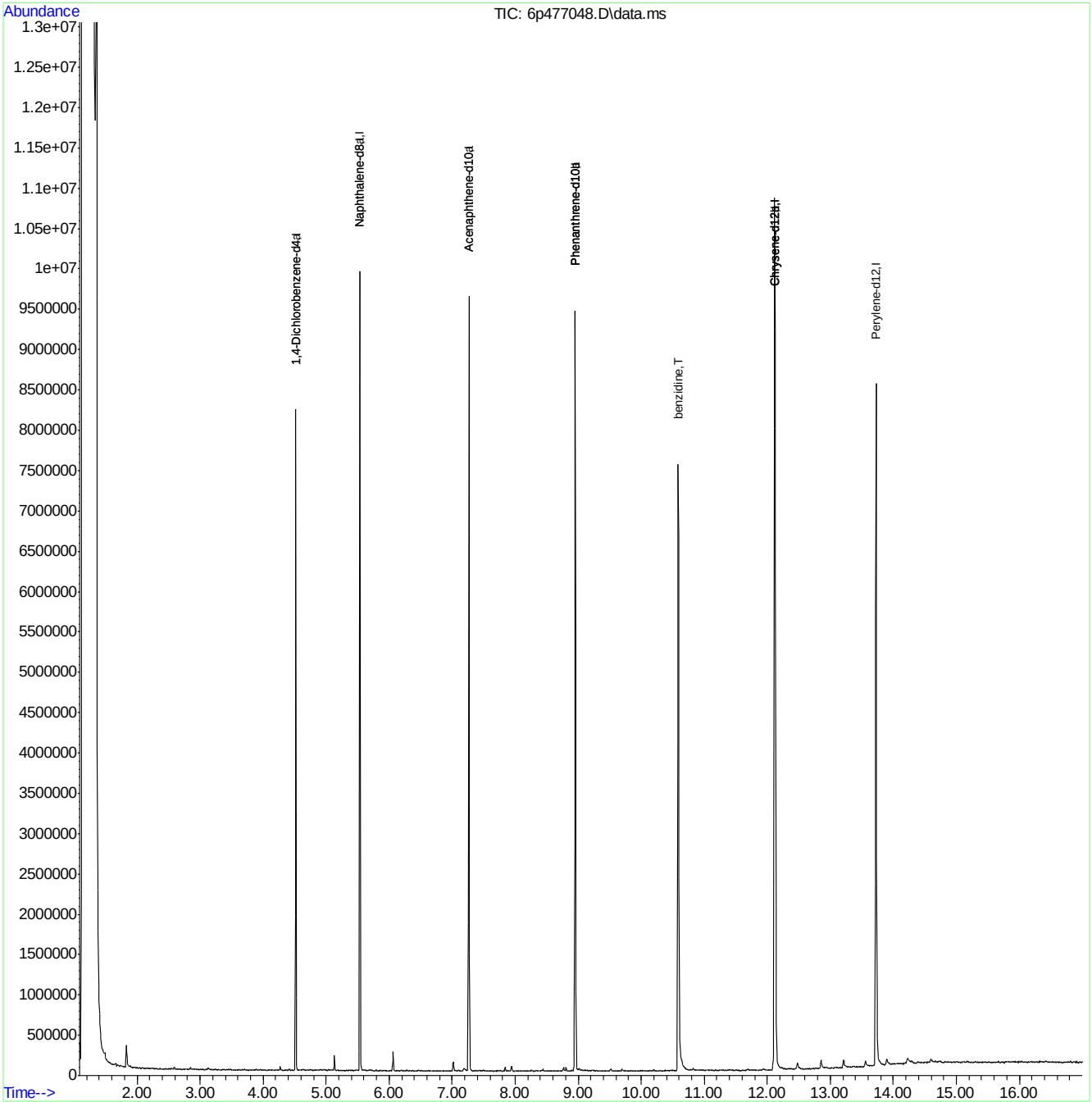
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.515	152	873963	40.00	ppm	-0.01
24) Naphthalene-d8	5.532	136	3534245	40.00	ppm	-0.01
47) Acenaphthene-d10	7.265	164	1837846	40.00	ppm	-0.01
69) Phenanthrene-d10	8.955	188	3367977	40.00	ppm	-0.01
83) Chrysene-d12	12.126	240	3110041	40.00	ppm	-0.01
91) Perylene-d12	13.726	264	3382304	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.515	152	873963	40.00	ppm	0.00
103) Acenaphthene-d10a	7.265	164	1837846	40.00	ppm	-0.01
105) Phenanthrene-d10a	8.955	188	3367977	40.00	ppm	-0.01
109) Chrysene-d12a	12.126	240	3110041	40.00	ppm	-0.01
111) Naphthalene-d8a	5.532	136	3534245	40.00	ppm	-0.01
113) Phenanthrene-d10b	8.955	188	3367977	40.00	ppm	-0.01
115) Chrysene-d12b	12.126	240	3110041	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
110) benzidine	10.586	184	3201006	49.92	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477048.D
Acq On : 16 Nov 2018 10:34 am
Operator : angelar
Sample : icv2401-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 16 14:38:02 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477049.D
Acq On : 16 Nov 2018 10:58 am
Operator : angelar
Sample : icv2401-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 16 14:39:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

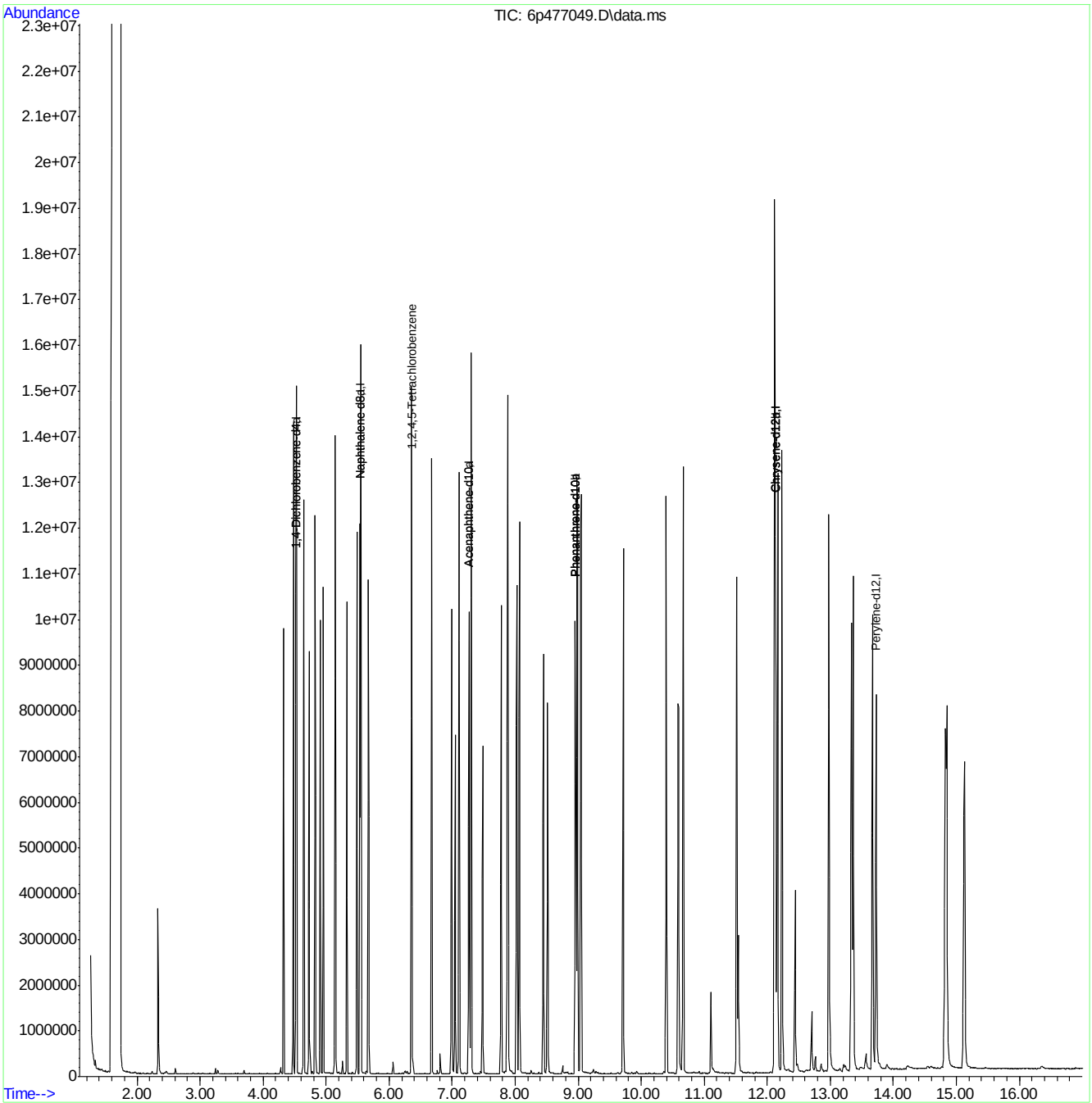
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	1062683	40.00	ppm	0.00
24) Naphthalene-d8	5.537	136	4182048	40.00	ppm	0.00
47) Acenaphthene-d10	7.265	164	2114337	40.00	ppm	-0.01
69) Phenanthrene-d10	8.955	188	3851312	40.00	ppm	-0.01
83) Chrysene-d12	12.132	240	3208476	40.00	ppm	0.00
91) Perylene-d12	13.731	264	3382158	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.521	152	1062683	40.00	ppm	0.00
103) Acenaphthene-d10a	7.265	164	2114337	40.00	ppm	-0.01
105) Phenanthrene-d10a	8.955	188	3851312	40.00	ppm	-0.01
109) Chrysene-d12a	12.132	240	3208476	40.00	ppm	0.00
111) Naphthalene-d8a	5.537	136	4182048	40.00	ppm	0.00
113) Phenanthrene-d10b	8.955	188	3851312	40.00	ppm	-0.01
115) Chrysene-d12b	12.132	240	3208476	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
104) 1,2,4,5-Tetrachloroben...	6.361	216	1511127	54.76	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477049.D
Acq On : 16 Nov 2018 10:58 am
Operator : angelar
Sample : icv2401-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 16 14:39:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477051.D
Acq On : 16 Nov 2018 11:53 am
Operator : kristis
Sample : icv2400-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 16 14:41:02 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.521	152	991081	40.00	ppm	0.00
24) Naphthalene-d8	5.537	136	4091713	40.00	ppm	0.00
47) Acenaphthene-d10	7.270	164	2260366	40.00	ppm	0.00
69) Phenanthrene-d10	8.960	188	3864370	40.00	ppm	0.00
83) Chrysene-d12	12.137	240	3537807	40.00	ppm	0.00
91) Perylene-d12	13.731	264	3872721	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.521	152	991081	40.00	ppm	0.00
103) Acenaphthene-d10a	7.270	164	2260366	40.00	ppm	0.00
105) Phenanthrene-d10a	8.960	188	3864370	40.00	ppm	0.00
109) Chrysene-d12a	12.137	240	3537807	40.00	ppm	0.00
111) Naphthalene-d8a	5.537	136	4091713	40.00	ppm	0.00
113) Phenanthrene-d10b	8.960	188	3864370	40.00	ppm	0.00
115) Chrysene-d12b	12.137	240	3537807	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
9) Phenol	4.275	94	2545044	45.49	ppm	90
12) 2-Chlorophenol	4.366	128	1855465	48.53	ppm	96
19) 2-Methylphenol	4.719	108	1766068	47.76	ppm	98
21) 3&4-Methylphenol	4.842	108	1805923	46.32	ppm	87
29) 2-Nitrophenol	5.216	139	976167	48.11	ppm	95
30) 2,4-Dimethylphenol	5.259	107	1874351	49.49	ppm	94
33) 2,4-Dichlorophenol	5.425	162	1482994	48.73	ppm	97
34) 2,6-Dichlorophenol	5.617	162	1366677	45.66	ppm	98
43) 4-Chloro-3-methylphenol	6.061	107	1689897	47.35	ppm	98
49) 2,4,6-Trichlorophenol	6.478	196	947593	47.51	ppm	96
50) 2,4,5-Trichlorophenol	6.521	196	1023743	47.45	ppm	99
60) 2,4-Dinitrophenol	7.345	184	407573	53.29	ppm #	64
61) 4-Nitrophenol	7.441	109	565339	51.99	ppm	97
64) 2,3,4,6-Tetrachlorophenol	7.644	232	879518	54.09	ppm	92
70) 4,6-Dinitro-2-methylph...	7.949	198	540044	46.83	ppm	99
76) Pentachlorophenol	8.757	266	647415	54.42	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477051.D
Acq On : 16 Nov 2018 11:53 am
Operator : kristis
Sample : icv2400-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 16 14:41:02 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

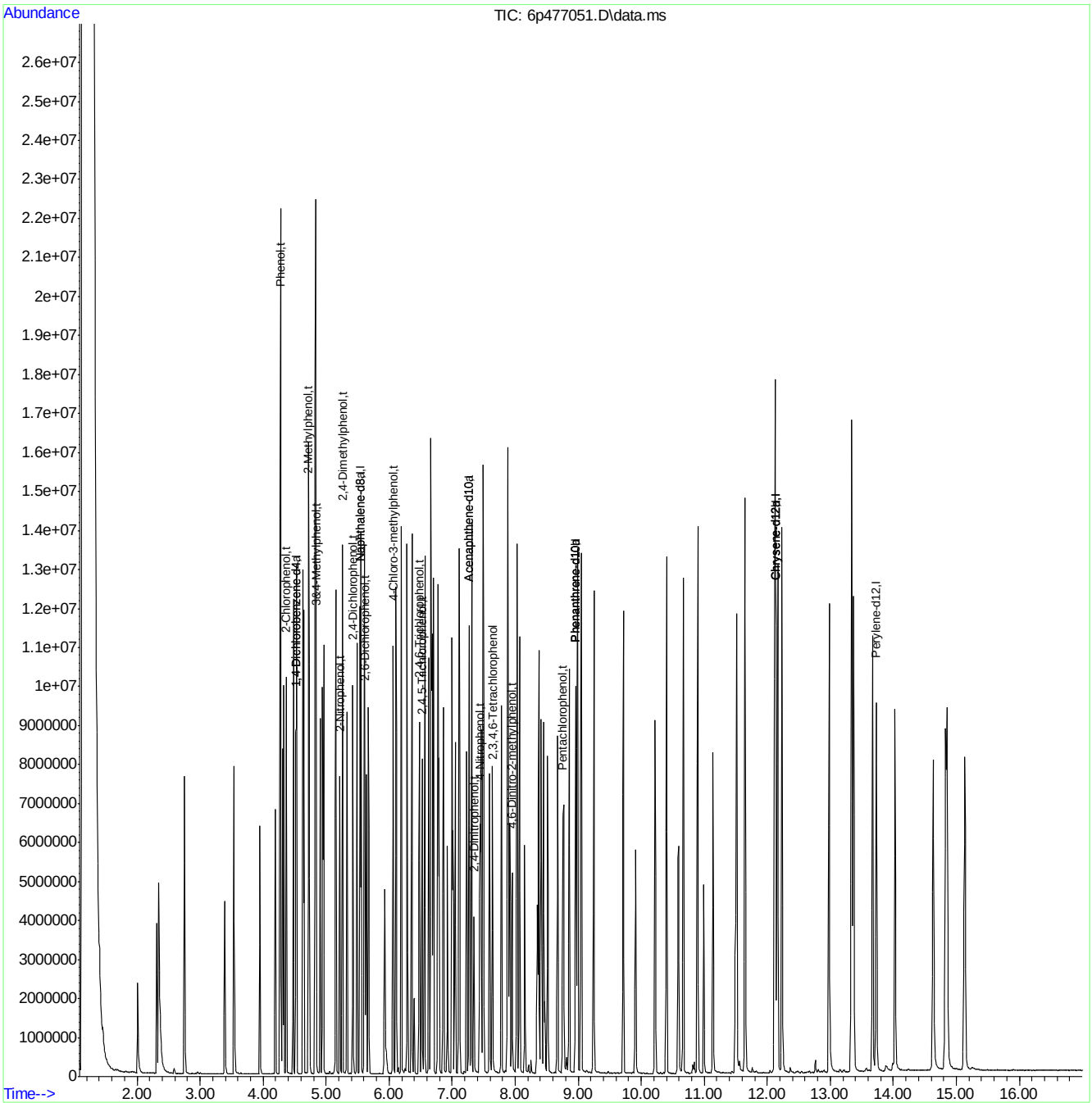
7.6.27

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2402\
Data File : 6p477051.D
Acq On : 16 Nov 2018 11:53 am
Operator : kristis
Sample : icv2400-50
Misc : op16488,e6p2402,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 16 14:41:02 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2416\
Data File : 6p477393.D
Acq On : 30 Nov 2018 1:07 am
Operator : chriss2
Sample : icv2401-50
Misc : op16488,e6p2416,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 10:22:32 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration

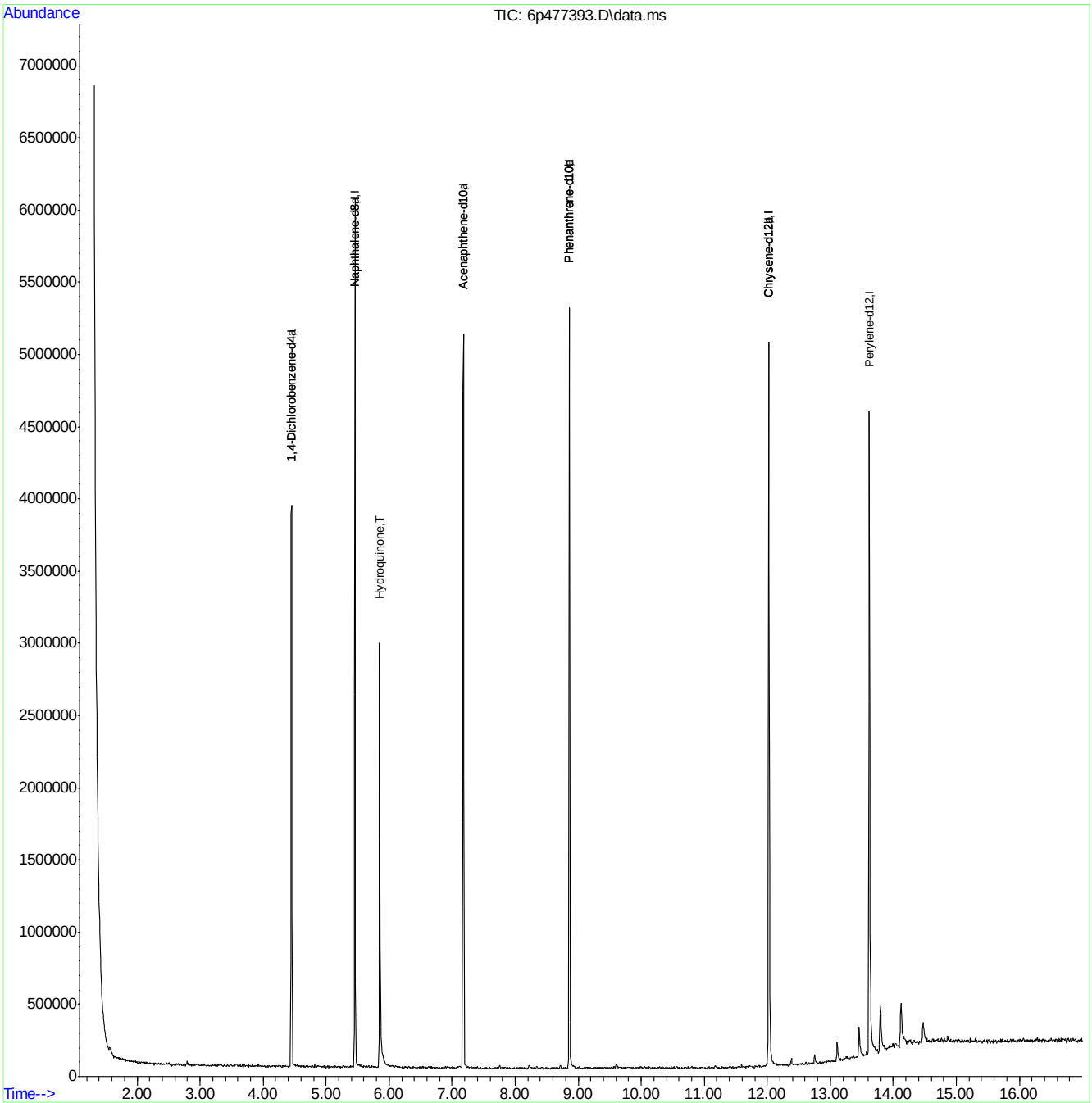
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.451	152	479653	40.00	ppm	-0.08
24) Naphthalene-d8	5.457	136	2004208	40.00	ppm	-0.09
47) Acenaphthene-d10	7.179	164	1022989	40.00	ppm	-0.10
69) Phenanthrene-d10	8.858	188	1930744	40.00	ppm	-0.11
83) Chrysene-d12	12.025	240	1813586	40.00	ppm	-0.11
91) Perylene-d12	13.619	264	1936065	40.00	ppm	-0.12
101) 1,4-Dichlorobenzene-d4a	4.451	152	479653	40.00	ppm	-0.07
103) Acenaphthene-d10a	7.179	164	1022989	40.00	ppm	-0.10
105) Phenanthrene-d10a	8.858	188	1930744	40.00	ppm	-0.11
109) Chrysene-d12a	12.025	240	1813586	40.00	ppm	-0.11
111) Naphthalene-d8a	5.457	136	2004208	40.00	ppm	-0.09
113) Phenanthrene-d10b	8.858	188	1930744	40.00	ppm	-0.11
115) Chrysene-d12b	12.025	240	1813586	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
107) o-terphenyl	0.000	230	0	0.00	ppm	
Target Compounds						Qvalue
112) Hydroquinone	5.847	110	984499	58.41	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2416\
Data File : 6p477393.D
Acq On : 30 Nov 2018 1:07 am
Operator : chriss2
Sample : icv2401-50
Misc : op16488,e6p2416,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 02 10:22:32 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Nov 16 11:17:24 2018
QLast Update : Fri Nov 16 11:17:24 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477590.D
Acq On : 5 Dec 2018 7:30 pm
Operator : sufiyana
Sample : cc2400-50
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 07:58:59 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.366	152	796475	40.00	ppm		-0.16
24) Naphthalene-d8	5.366	136	3240393	40.00	ppm		-0.18
47) Acenaphthene-d10	7.067	164	1723761	40.00	ppm		-0.21
69) Phenanthrene-d10	8.752	188	3254282	40.00	ppm		-0.21
83) Chrysene-d12	11.918	240	2954922	40.00	ppm		-0.22
91) Perylene-d12	13.512	264	2726414	40.00	ppm		-0.23
101) 1,4-Dichlorobenzene-d4a	4.366	152	796475	40.00	ppm		-0.15
103) Acenaphthene-d10a	7.067	164	1723761	40.00	ppm		-0.21
105) Phenanthrene-d10a	8.752	188	3254282	40.00	ppm		-0.21
109) Chrysene-d12a	11.918	240	2954922	40.00	ppm		-0.22
111) Naphthalene-d8a	5.366	136	3240393	40.00	ppm		-0.18
113) Phenanthrene-d10b	8.752	188	3254282	40.00	ppm		-0.21
115) Chrysene-d12b	11.918	240	2954922	40.00	ppm		-0.22
System Monitoring Compounds							
5) 2-Fluorophenol	3.392	112	1553634	50.73	ppm		-0.16
Spiked Amount 50.000			Recovery = 101.46%				
8) Phenol-d5	4.136	99	2088112	51.71	ppm		-0.13
Spiked Amount 50.000			Recovery = 103.42%				
25) Nitrobenzene-d5	4.788	82	1902090	48.58	ppm		-0.16
Spiked Amount 50.000			Recovery = 97.16%				
51) 2-Fluorobiphenyl	6.371	172	3304770	51.28	ppm		-0.19
Spiked Amount 50.000			Recovery = 102.56%				
73) 2,4,6-Tribromophenol	7.955	330	548237	66.95	ppm		-0.20
Spiked Amount 50.000			Recovery = 133.90%				
85) Terphenyl-d14	10.682	244	3409529	55.17	ppm		-0.21
Spiked Amount 50.000			Recovery = 110.34%				
106) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
107) o-terphenyl	0.000	230	0	0.00	ppm		
Target Compounds							Qvalue
2) 1,4-Dioxane	1.798	88	630662	47.72	ppm		99
3) Pyridine	2.146	79	1726572	47.44	ppm		98
4) N-Nitrosodimethylamine	2.114	74	1013232	47.35	ppm		97
6) Indene	4.558	116	2780491	52.85	ppm		97
7) Cumene	3.761	105	4100510	50.44	ppm		99
9) Phenol	4.146	94	2414656	53.71	ppm	#	58
10) Aniline	4.130	93	2666805	51.41	ppm	#	56
11) bis(2-Chloroethyl)ether	4.178	93	1669048	47.77	ppm		99
12) 2-Chlorophenol	4.221	128	1590747	51.77	ppm		96
13) Decane	4.259	43	2273432	47.70	ppm		97
14) 1,3-Dichlorobenzene	4.323	146	1717598	51.04	ppm		97
15) 1,4-Dichlorobenzene	4.376	146	1748318	51.31	ppm		96
16) Benzyl alcohol	4.483	108	999862	49.60	ppm		90
17) 1,2-Dichlorobenzene	4.494	146	1598143	50.44	ppm		97
18) Acetophenone	4.670	105	2414488	50.56	ppm		97
19) 2-Methylphenol	4.585	108	1619824	54.50	ppm		97
20) 2,2'-oxybis(1-Chloropr...	4.574	121	486717	47.50	ppm	#	89
21) 3&4-Methylphenol	4.697	108	1660357	52.99	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477590.D
Acq On : 5 Dec 2018 7:30 pm
Operator : sufiyana
Sample : cc2400-50
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 07:58:59 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
22) n-Nitroso-di-n-propyla...	4.681	70	1316612	49.14	ppm		92
23) Hexachloroethane	4.745	201	583175	52.20	ppm		84
26) Nitrobenzene	4.799	77	1942753	48.61	ppm		99
27) Quinoline	5.687	129	3242253	52.53	ppm		100
28) Isophorone	4.991	82	3316454	49.14	ppm		94
29) 2-Nitrophenol	5.056	139	883421	54.98	ppm		77
30) 2,4-Dimethylphenol	5.104	107	1602390	53.43	ppm		97
31) Benzoic acid	5.232	105	1435568	61.61	ppm		99
32) bis(2-Chloroethoxy)met...	5.168	93	1882161	45.40	ppm		99
33) 2,4-Dichlorophenol	5.264	162	1305433	54.17	ppm		99
34) 2,6-Dichlorophenol	5.446	162	1258100	53.08	ppm		99
35) 1,3,5-Trichlorobenzene	5.061	180	1439676	53.22	ppm		98
36) 1,2,4-Trichlorobenzene	5.318	180	1362384	51.73	ppm		99
37) 1,2,3-Trichlorobenzene	5.510	180	1372939	53.26	ppm		98
38) Naphthalene	5.382	128	4613230	52.72	ppm		99
39) 4-Chloroaniline	5.441	127	1895549	50.54	ppm		95
40) 2,3-Dichloroaniline	6.291	161	1577665	53.30	ppm		92
41) Caprolactam	5.762	55	977290	51.73	ppm		96
42) Hexachlorobutadiene	5.494	225	744599	50.69	ppm		99
43) 4-Chloro-3-methylphenol	5.906	107	1477191	52.26	ppm		95
44) 2-Methylnaphthalene	6.008	141	2403532	50.44	ppm		95
45) 1-Methylnaphthalene	6.104	141	2700956	51.51	ppm		97
46) Dimethylnaphthalene	6.633	156	2884597	53.59	ppm		95
48) Hexachlorocyclopentadiene	6.168	237	1420665	102.50	ppm		99
49) 2,4,6-Trichlorophenol	6.302	196	879156	57.80	ppm		96
50) 2,4,5-Trichlorophenol	6.350	196	967537	58.81	ppm		98
52) 2-Chloronaphthalene	6.489	162	2870961	51.88	ppm		95
53) Biphenyl	6.473	154	3880839	50.68	ppm		99
54) 2-Nitroaniline	6.607	65	1144311	50.34	ppm		94
55) Dimethylphthalate	6.805	163	3205898	49.59	ppm		99
56) Acenaphthylene	6.917	152	4463221	52.00	ppm		99
57) 2,6-Dinitrotoluene	6.863	165	766689	54.73	ppm		86
58) 3-Nitroaniline	7.045	138	913741	51.60	ppm		91
59) Acenaphthene	7.104	153	3018016	50.28	ppm		98
60) 2,4-Dinitrophenol	7.163	184	923230	142.12	ppm	#	97
61) 4-Nitrophenol	7.286	109	447494	53.96	ppm	#	22
62) Dibenzofuran	7.297	168	3963509	52.44	ppm		94
63) 2,4-Dinitrotoluene	7.302	165	1003148	53.59	ppm		94
64) 2,3,4,6-Tetrachlorophenol	7.452	232	828437	66.81	ppm		91
65) Diethylphthalate	7.586	149	3075399	49.33	ppm		98
66) Fluorene	7.676	166	3275773	52.99	ppm		98
67) 4-Chlorophenyl-phenyle...	7.687	204	1502363	51.50	ppm		88
68) 4-Nitroaniline	7.730	138	936383	51.99	ppm		93
70) 4,6-Dinitro-2-methylph...	7.767	198	674481	66.77	ppm		83
71) n-Nitrosodiphenylamine	7.826	169	2421776	52.86	ppm		99
72) 1,2-Diphenylhydrazine	7.869	77	3856248	48.16	ppm		93
74) 4-Bromophenyl-phenylether	8.243	248	911104	52.75	ppm		92
75) Hexachlorobenzene	8.313	284	1034199	53.65	ppm		96
76) Pentachlorophenol	8.554	266	1320381	124.31	ppm		99
77) Phenanthrene	8.778	178	4708911	51.70	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477590.D
Acq On : 5 Dec 2018 7:30 pm
Operator : sufiyana
Sample : cc2400-50
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 07:58:59 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

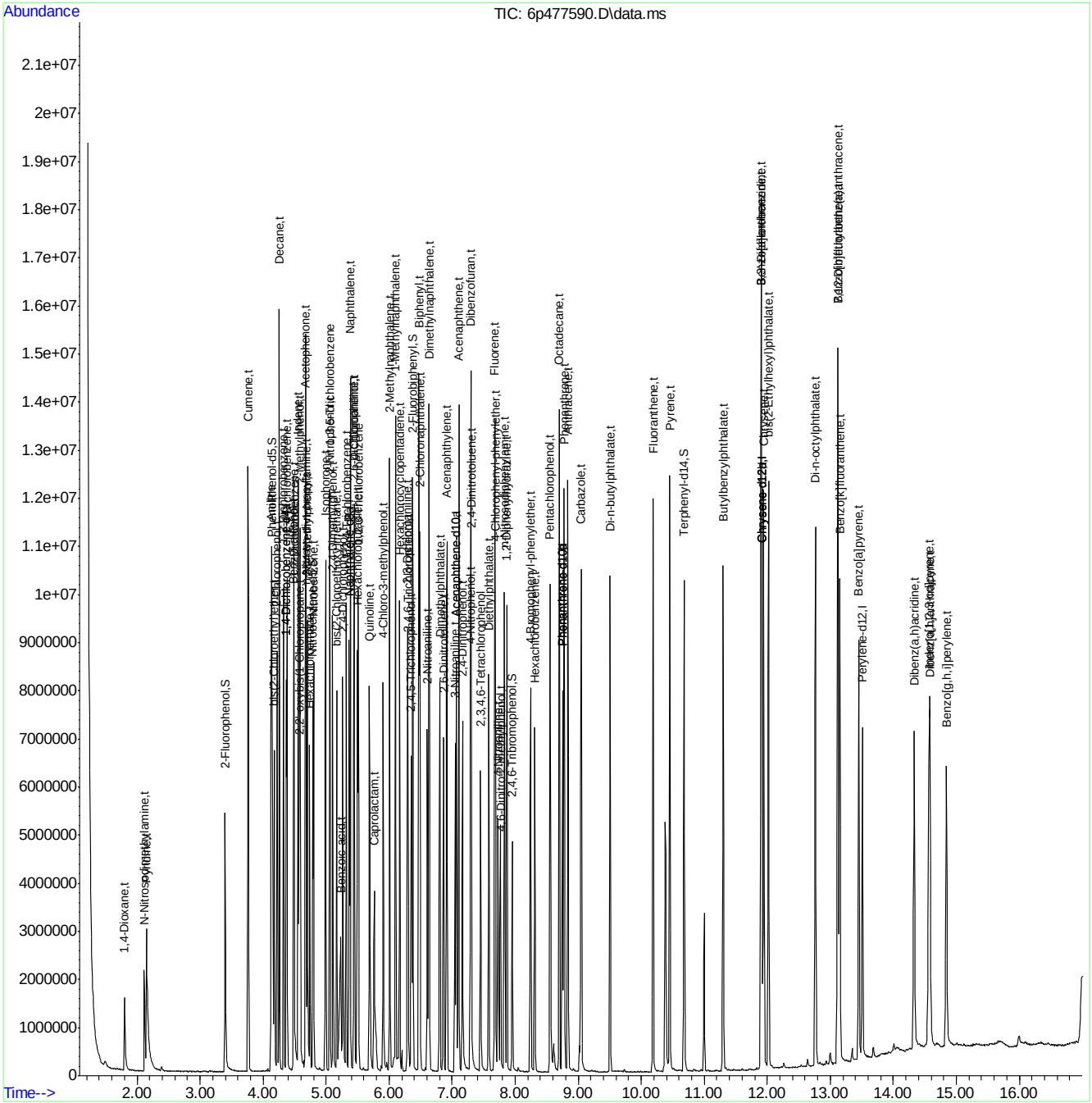
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	8.837	178	4901691	53.45	ppm	99
79)	Carbazole	9.046	167	4547480	51.53	ppm	98
80)	Di-n-butylphthalate	9.506	149	5270018	51.10	ppm	99
81)	Fluoranthene	10.190	202	5163004	53.85	ppm	98
82)	Octadecane	8.698	57	2841663	49.83	ppm	96
84)	Pyrene	10.452	202	5393874	54.20	ppm	98
86)	Butylbenzylphthalate	11.303	149	2452895	55.91	ppm	93
87)	Benzo[a]anthracene	11.902	228	4582457	53.72	ppm	98
88)	3,3'-Dichlorobenzidine	11.902	252	1767140	60.55	ppm	99
89)	Chrysene	11.945	228	4747247	53.02	ppm	98
90)	bis(2-Ethylhexyl)phtha...	12.020	149	3169642	51.97	ppm	97
92)	Di-n-octylphthalate	12.763	149	5593968	65.60	ppm	98
93)	Benzo[b]fluoranthene	13.121	252	4375254	60.86	ppm	96
94)	Benzo[k]fluoranthene	13.153	252	3957473	52.37	ppm	98
95)	Benzo[a]pyrene	13.453	252	3802702	57.76	ppm	99
96)	Indeno[1,2,3-cd]pyrene	14.565	276	4390632	54.03	ppm	98
97)	Dibenz(a,h)acridine	14.330	279	3279998	54.62	ppm	99
98)	Dibenz[a,h]anthracene	14.587	278	3692934	54.84	ppm	97
99)	7,12-Dimethylbenz(a)an...	13.121	256	2036483	66.00	ppm	97
100)	Benzo[g,h,i]perylene	14.849	276	3543375	52.43	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477590.D
Acq On : 5 Dec 2018 7:30 pm
Operator : sufiyana
Sample : cc2400-50
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 07:58:59 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477591.D
Acq On : 5 Dec 2018 7:54 pm
Operator : sufiyana
Sample : cc2401-50
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 08:01:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration

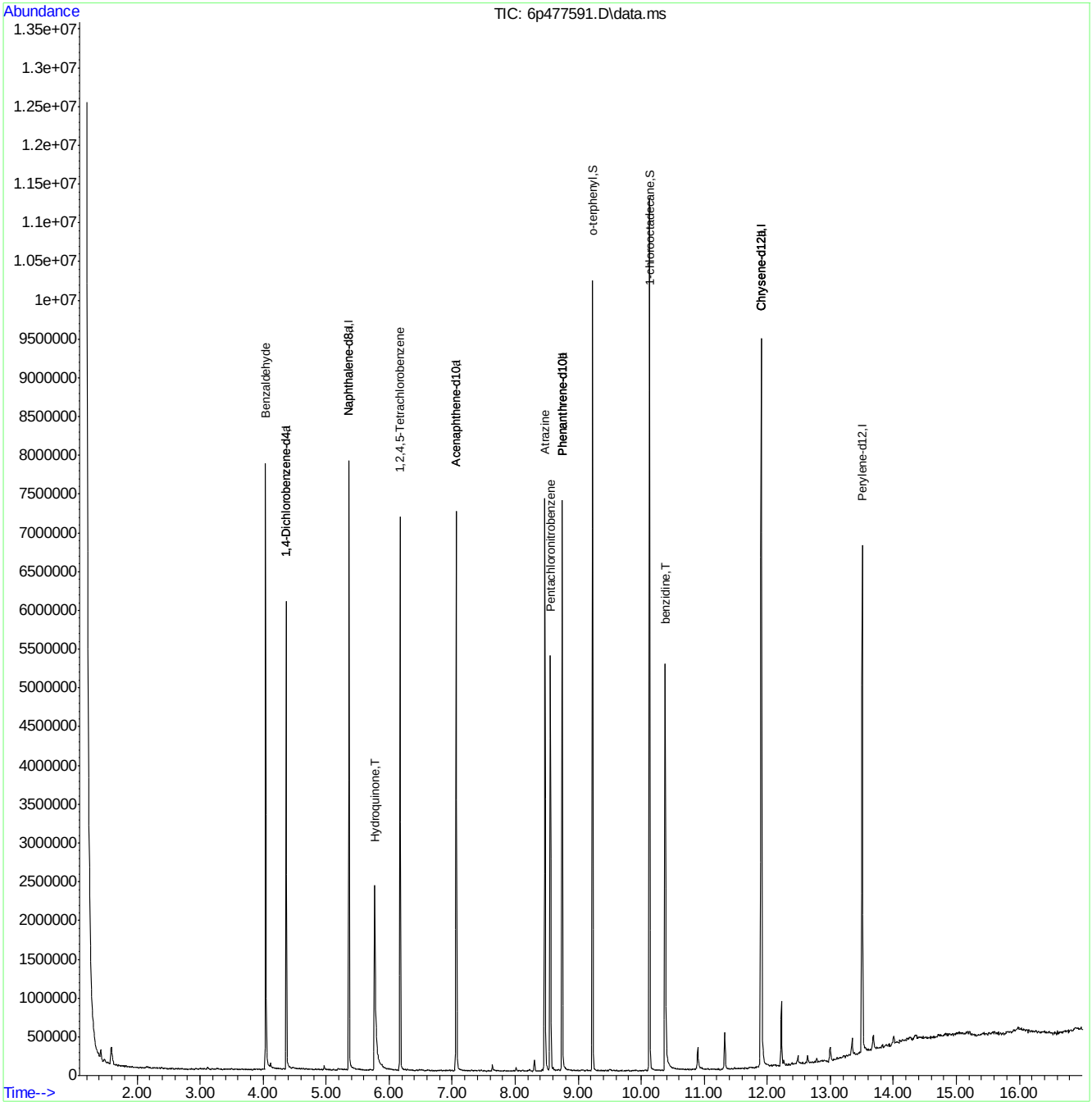
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	642340	40.00	ppm	-0.16
24) Naphthalene-d8	5.360	136	2647645	40.00	ppm	-0.18
47) Acenaphthene-d10	7.067	164	1384951	40.00	ppm	-0.21
69) Phenanthrene-d10	8.746	188	2673295	40.00	ppm	-0.22
83) Chrysene-d12	11.907	240	2525795	40.00	ppm	-0.23
91) Perylene-d12	13.506	264	2696816	40.00	ppm	-0.24
101) 1,4-Dichlorobenzene-d4a	4.365	152	642340	40.00	ppm	-0.16
103) Acenaphthene-d10a	7.067	164	1384951	40.00	ppm	-0.21
105) Phenanthrene-d10a	8.746	188	2673295	40.00	ppm	-0.22
109) Chrysene-d12a	11.907	240	2525795	40.00	ppm	-0.23
111) Naphthalene-d8a	5.360	136	2647645	40.00	ppm	-0.18
113) Phenanthrene-d10b	8.746	188	2673295	40.00	ppm	-0.22
115) Chrysene-d12b	11.907	240	2525795	40.00	ppm	-0.23
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
106) 1-chlorooctadecane	10.131	57	1633251	52.93	ppm	-0.22
107) o-terphenyl	9.227	230	2049536	53.99	ppm	-0.22
Target Compounds						Qvalue
102) Benzaldehyde	4.039	105	1107868	51.26	ppm	95
104) 1,2,4,5-Tetrachloroben...	6.173	216	1067436	59.05	ppm	100
108) Atrazine	8.473	215	412023	59.86	ppm	84
110) benzidine	10.383	184	2490746	47.63	ppm	98
112) Hydroquinone	5.772	110	1522325	68.37	ppm	97
114) Pentachloronitrobenzene	8.559	295	169722	62.27	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P2423\
Data File : 6p477591.D
Acq On : 5 Dec 2018 7:54 pm
Operator : sufiyana
Sample : cc2401-50
Misc : op16488,e6p2423,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 08:01:31 2018
Quant Method : C:\MSDCHEM\1\METHODS\M6P2400.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Dec 05 12:09:54 2018
QLast Update : Wed Dec 05 12:09:54 2018
Response via : Initial Calibration



GCMS Semi Volatile Run Log

Instrument ID: GCMS6P

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
dftpp	sv182490-5	50ppm			
			istd	A0141096	4000 ppm
			dcm/fisher	187002	

Column	i5silms30mx.25mmx.25u	Initial Calib Date	11/15/18	Sequence Loaded By:	angelar	Quant Method/s	M6P2400
Batch ID	E6P2400	Analysis Date	11/15/2018	Data Processed By:	kristis	Injection Volume	1.0ul
Approved By:	KRISTIS	Approved Date	28/2018 1:59:44 I				

☑ SW846 8270 D
☑ EPA 625

Data File		Sample ID	OP Batch ID	Test	MTX	A L S	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477015	DFTPP				1					not using	51 and 127 high reinject
6P	477016	DFTPP				1					not using	68 high, pcp tailing high, reinstall
6P	477017	DFTPP				1					ok	11:27am
6P	477018	IC2400-100		BNA		2					ok	sv182490-81A
6P	477019	IC2400-2				3					ok	sv182490-81H
6P	477020	IC2400-80				4					ok	sv182490-81B
6P	477021	IC2400-1				5					ok	sv182490-81I
6P	477022	ICC2400-50				6					ok	sv18-2490-81C
6P	477023	IC2400-5				7					ok	sv18-2490-81g
6P	477024	IC2400-25				8					ok	sv18-2490-81d

JC78619A

GCMS Semi Volatile Run Log

Data File		Sample ID	OP Batch ID	Test	MTX	A L S	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477025	IC2400-10				9					ok	sv18-2490-81e
6P	477026	ICV2400-50		acid		10					ok	op18-2251-103 BACD only
6P	477027	ICV2400-50		bn1		11					ok	op18-2160-29
6P	477028	ICV2400-50		aniline		12					not using	op18-2231-131 #54 low for DOD
6P	477029	ICV2400-50		bn2		13					ok	op18-2160-30
6P	477030	ICV2400-50		bzd 3rd		14					ok	sv14-2851-58
6P	477031	ICV2400-50		abn surr		15					ok	op18-2231-149 5:04pm

GCMS Semi Volatile Run Log

Instrument ID: GCMS6P

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
dftpp	sv182490-5	50ppm			
			istd	A0141096	4000 ppm
			dcm/fisher	187002	

Column	i5silms30mx.25mmx.25u	Initial Calib Date	11/15/18	Sequence Loaded By:	kristis	Quant Method/s	M6P2400
Batch ID	E6P2401	Analysis Date	11/15/2018	Data Processed By:	kristis	Injection Volume	1.0ul
Approved By:	KRISTIS	Approved Date	28/2018 2:00:11 I				

☑ SW846 8270 D
☑ EPA 625

Data File		Sample ID	OP Batch ID	Test	MTX	ALS	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477032	DFTPP				1					not using	197 high reinject
6P	477033	DFTPP				1					ok	5:48pm
6P	477034	IC2401-50				2					ok	sv18-2490-49c
6P	477035	IC2401-1				3					ok	sv18-2490-49i
6P	477036	IC2401-2				4					ok	sv18-2490-49h
6P	477037	IC2401-5				5					ok	sv18-2490-49g
6P	477038	IC2401-10				6					ok	sv18-2490-49e
6P	477039	IC2401-100				7					ok	sv18-2490-49a
6P	477040	IC2401-80				8					ok	sv18-2490-49b
6P	477041	ICC2401-25				9					ok	sv18-2490-49d

GCMS Semi Volatile Run Log

Data File		Sample ID	OP Batch ID	Test	MTX	A L S	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477042	ICV2401-50		bn1		10					not using	op16-2160-30 wrong bottle ran
6P	477043	ICV2401-50		bn 2		11					ok	op18-2160-074 9:36pm

GCMS Semi Volatile Run Log

Instrument ID: GCMS6P

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
dftpp	sv182490-5	50ppm			
			istd	A0141096	4000 ppm
			dcm/fisher	187002	

Column	i5silms30mx.25mmx.25u	Initial Calib Date	11/15/18	Sequence Loaded By:	angelar	Quant Method/s	M6P2400
Batch ID	E6P2402	Analysis Date	11/16/2018	Data Processed By:	kristis	Injection Volume	1.0ul
Approved By:	KRISTIS	Approved Date	28/2018 2:00:31 I				

☑ SW846 8270 D
☑ EPA 625

Data File		Sample ID	OP Batch ID	Test	MTX	ALS	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477044	DFTPP				1					not using	197 high, rr
6P	477045	DFTPP				1					ok	9:34am
6P	477046	ICV2400-50		ACIDS		2					not using	op182251-103 PCP high
6P	477047	ICV2400-50		ANILINE		3					ok	op182231-131
6P	477048	ICV2400-50		BZD 3RD		4					ok	sv182451-58
6P	477049	ICV2401-50		bn 1		5					ok	op18-2160-29
6P	477050	ICV2400-50		acid		6					not using	op18-2160-072 PCP high
6P	477051	ICV2400-50		625 acid		7					ok	sv18-2490-35c 11:53 am

GCMS Semi Volatile Run Log

Instrument ID: GCMS6P

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
dftpp	sv182490-5	50ppm			
bna	sv182490-60e	25ppm			
tcl42	sv182490-53e	25ppm			
tcl42 verif	sv182490-49h	2ppm			
			istd	A0141096	4000 ppm
			dcm/fisher	187003	

Column	i5silms30mx.25mmx.25u	Initial Calib Date	11/15/18	Sequence Loaded By:	sufiyana	Quant Method/s	M6P2400
Batch ID	E6P2416	Analysis Date	11/29/2018	Data Processed By:	dipap	Injection Volume	1.0ul
Approved By:	KRISTIS	Approved Date	7/2018 11:01:33 A				

☑ SW846 8270 D
☐ EPA 625

Data File		Sample ID	OP Batch ID	Test	MTX	ALS	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477383	DFTPP				1					ok	
6P	477384	CC2400-25				2					not using	areas out not using
6P	477385	CC2401-25				3					not using	not using
6P	477386	DFTPP				1					ok	8:48pm
6P	477387	CC2400-25				2					ok	
6P	477388	CC2401-25				3					not using	areas low, raise em
6P	477389	DFTPP				1					ok	10:02pm
6P	477390	CC2400-25				2					ok	
6P	477391	CC2401-25				3					ok	
6P	477392	TCL42 VERIF-2PPM				4					ok	

GCMS Semi Volatile Run Log

Data File		Sample ID	OP Batch ID	Test	MTX	ALS	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477393	ICV2401-50		HQ 2nd		5					ok	sv182490-103b
	477394	OP16861-MB1	OP16861	AB8270TCL20+,B8270SL,BMS+MNAP	SO	6		X	x	x	ok	
	477395	OP16861-BS1	OP16861	AB8270TCL20+,B8270SL,BMS+MNAP	SO	7		X	x	x	ok	
6P	477396	JC78024-8A	OP16850	AB8270TCLP	SO	8		X	x	x	ok	
6P	477397	JC78024-9A	OP16850	AB8270TCLP	SO	9			x	x	ok	
6P	477398	JC78024-10A	OP16850	AB8270TCLP	SO	10			x	x	ok	
6P	477399	JC78024-11A	OP16850	AB8270TCLP	SO	11			x	x	ok	
6P	477400	JC78024-12A	OP16850	AB8270TCLP	SO	12			x	x	ok	
6P	477401	JC78024-13A	OP16850	AB8270TCLP	SO	13			x	x	ok	
6P	477402	JC77913-2	OP16850	AB8270TCLP	SO	14			x	x	ok	
6P	477403	JC77979-13	OP16861	AB8270TCL11	SO	15			x	x	ok	
6P	477404	JC77504-54	OP16861	AB8270TCL20+	SO	16		X	x	x	ok	
6P	477405	JC77504-53	OP16861	AB8270TCL20+	SO	17		X	x	x	ok	
	477406	OP16861-MS	OP16861	AB8270TCL20+,B8270SL,BMS+MNAP	SO	18		X	x	x	ok	
	477407	OP16861-MSD	OP16861	AB8270TCL20+,B8270SL,BMS+MNAP	SO	19		X	x	x	ok	
6P	477408	JC78177-1	OP16861	B8270SL	SO	20			x	x	ok	
6P	477409	JC78177-2	OP16861	B8270SL	SO	21			x	x	ok	
6P	477410	JC78177-3	OP16861	B8270SL	SO	22			x	x	ok	
6P	477411	JC78177-4	OP16861	B8270SL	SO	23			x	x	ok	

GCMS Semi Volatile Run Log

Data File		Sample ID	OP Batch ID	Test	MTX	ALS	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477412	JC78177-5	OP16861	B8270SL	SO	24			x	x	ok	
6P	477413	JC78177-6	OP16861	B8270SL	SO	25			x	x	ok	
6P	477414	JC77504-50	OP16861	AB8270TCL20+	SO	26		X	x	x	ok	9.41am

GCMS Semi Volatile Run Log

Instrument ID: GCMS6P

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
dftpp	sv182490-5	50ppm			
bna	sv182490-107c	50ppm			
tcl42	sv182490-106c	50ppm			
			istd	A0141096	4000 ppm
			dcm/fisher	187003	

Column	i5silms30mx.25mmx.25u	Initial Calib Date	11/15/18	Sequence Loaded By:	sufiyana	Quant Method/s	M6P2400
Batch ID	E6P2423	Analysis Date	12/5/2018	Data Processed By:	ying li	Injection Volume	1.0ul
Approved By:	KRISTIS	Approved Date	/7/2018 3:32:21 P				

☑ SW846 8270 D
☐ EPA 625

Data File		Sample ID	OP Batch ID	Test	MTX	ALS	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477587	DFTPP				1					not run	software shutdown RR
6P	477588	DFTPP				1					not using	68 high RR
6P	477589	DFTPP				1					ok	7:17pm
6P	477590	CC2400-50				2					ok	
6P	477591	CC2401-50				3					ok	
6P	477592	OP17006-MB1	OP17006	B8270NJTCL20+	AQ	4		X	y	y	ok	90# high
6P	477593a	OP17006-BS1	OP17006	B8270NJTCL20+	AQ	5		X	y	y	ok	sequence altered, rerun as "A" file
6P	477594	OP17006-BSD	OP17006	B8270NJTCL20+	AQ	6		X	y	y	ok	
6P	477595	OP17120-MB1	OP17120	AB8270STD	SO	7			y	y	ok	
6P	477596	OP17120-BS1	OP17120	AB8270STD	SO	8			y	y	ok	lot compounds high

GCMS Semi Volatile Run Log

Data File		Sample ID	OP Batch ID	Test	MTX	ALS	Dil	L+	Surr OK?	IS OK?	Data OK?	Comment
6P	477597	BN1				9			y		ng	op182160-96, ran before 6p477593a recovery low
	477598	JC78639-2	OP17006	B8270NJTCL20+	AQ	10		X	y	y	ok	
	477599	JC78639-3	OP17006	B8270NJTCL20+	AQ	11		X	y	y	ok	
	477600	JC78639-4	OP17006	B8270NJTCL20+	AQ	12		X	y	y	ok	
	477601	JC78639-5	OP17006	B8270NJTCL20+	AQ	13		X	y	y	ok	
	477602	JC77504-62	OP17006	AB8270NJTCL20+	AQ	14		X	y	y	ok	
6P	477603	JC77504-63	OP17006	AB8270TCL20+	AQ	15		X	y	y	ok	
	477604	JC77504-64	OP17006	AB8270NJTCL20+	AQ	16		X	y	y	ok	
	477605	JC77504-67	OP17006	AB8270NJTCL20+	AQ	17		X	y	y	ok	
6P	477606	JC77504-68	OP17006	AB8270NJTCL20+	AQ	18		X	y	y	ok	
6P	477607	JC78639-1	OP17006	B8270NJTCL20+	AQ	19		X	y	y	ok	
6P	477608	JC77504-70	OP17006	AB8270NJTCL20+	AQ	20		X	y	y	ok	
6P	477609	JC77504-71	OP17006	AB8270NJTCL20+	AQ	21		X	y	y	ok	
	477610	JC77504-69	OP17006	AB8270NJTCL20+	AQ	22		X	y	y	ok	
6P	477611	OP17120-MS	OP17120	AB8270STD	SO	23	2		y	y	ok	
6P	477612	OP17120-MSD	OP17120	AB8270STD	SO	24	2		high	y	ok	
6P	477613	JC78619-2	OP17120	AB8270STD	SO	25	2		high	y	ok	5:23
6P	477614	ACID				26				y	ok	op182160-97, ran after 6p477602

ABN Extraction Log - Solids

LOGBOOK ID: B-2294

Date started: 12-5-18 Time started: 15:30
Date finished: 12-5-18 Time finished: 15:40

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 _____ Sonication SW3550C _____
Waste Dil. SW3580A √ Soxhlet SW3540C _____

BATCH # MS 17120 RACK# R5C46

Weighed by:	LJ
Extracted by:	LJ
Concentrated by:	
Final Vol. Top-up:	LJ
Vialed by:	LJ
Supervisor Review:	12/5/18

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)					
Balance	842	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	182160-093	50	1.0
ABN DOD SIM			

WITNESS SIGN: NJT SPIKE SIGN: LJ

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	182160-072	50	Acid: 1.0
Acid (for SIM)			A(SIM):
Base #1	182160-094	50	1.0
Base #2	182160-063	50	1.0
Aniline	182160-080	50	1.0
BSIM			

WITNESS SIGN: NJT SPIKE SIGN: LJ

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE			
METH CHLOR	127003	Fisher	VOL.

REAGENT	LOT #	BAKE BATCH #	BRAND
HYDROMATRIX			
SODIUM SULFATE			
FILTER PAPER			

MATRIX	LOT #	BAKE BATCH #	BRAND
SAND			

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

	Sample #	Analysis Type	Sample Batch #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol(mL)	QPC Cleanup	Comments
	MB1	abn oil		DCM	1.0					Clear	10.0		
	BS1			DCM	1.0					Yellow	10.0		
	JC78619-2 MS		2	Brown	1.0					Yellow	10.0		
	JC78619-2 MSD		2	Brown	1.0					Yellow	10.0		
	BS												
	MS												
	MSD												
	BS												
	MS												
	MSD												
1	JC78619-2	abn oil	2	Brown	1.0					Yellow	10.0		A
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:
A=sample bottle contained two layers
Top layer was used

SGS
Form: OP019A-10
Rev Date: 8/2/17

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GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17101-MB1	EF186052.D	1	12/06/18	TR	12/05/18	OP17101	GEF6326

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC78619-2

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	500	200	ug/kg	
11104-28-2	Aroclor 1221	ND	500	200	ug/kg	
11141-16-5	Aroclor 1232	ND	500	130	ug/kg	
53469-21-9	Aroclor 1242	ND	500	80	ug/kg	
12672-29-6	Aroclor 1248	ND	500	290	ug/kg	
11097-69-1	Aroclor 1254	ND	500	120	ug/kg	
11096-82-5	Aroclor 1260	ND	500	160	ug/kg	
11100-14-4	Aroclor 1268	ND	500	74	ug/kg	
37324-23-5	Aroclor 1262	ND	500	38	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	101%	31-146%
877-09-8	Tetrachloro-m-xylene	109%	31-146%
2051-24-3	Decachlorobiphenyl	103%	17-164%
2051-24-3	Decachlorobiphenyl	99%	17-164%

Blank Spike Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17101-BS1	EF186053.D	1	12/06/18	TR	12/05/18	OP17101	GEF6326

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC78619-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	2000	2310	116	67-157
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	2000	2200	110	63-155
11100-14-4	Aroclor 1268		ND		50-150 [a]
37324-23-5	Aroclor 1262		ND		50-150 [a]

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	99%	31-146%
877-09-8	Tetrachloro-m-xylene	108%	31-146%
2051-24-3	Decachlorobiphenyl	100%	17-164%
2051-24-3	Decachlorobiphenyl	99%	17-164%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17101-MS	EF186055.D	1	12/06/18	TR	12/05/18	OP17101	GEF6326
OP17101-MSD	EF186056.D	1	12/06/18	TR	12/05/18	OP17101	GEF6326
JC78977-1	EF186054.D	1	12/06/18	TR	12/05/18	OP17101	GEF6326

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC78619-2

CAS No.	Compound	JC78977-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		2000	2350	118	2000	2120	106	10	36-191/60
11104-28-2	Aroclor 1221	ND			ND			ND		nc	70-130/50
11141-16-5	Aroclor 1232	ND			ND			ND		nc	70-130/1
53469-21-9	Aroclor 1242	ND			ND			ND		nc	70-130/6
12672-29-6	Aroclor 1248	ND			ND			ND		nc	70-130/33
11097-69-1	Aroclor 1254	ND			ND			ND		nc	70-130/38
11096-82-5	Aroclor 1260	ND		2000	1950	98	2000	1750	88	11	15-200/68
11100-14-4	Aroclor 1268	ND			ND			ND		nc	-/50
37324-23-5	Aroclor 1262	ND			ND			ND		nc	-/17

CAS No.	Surrogate Recoveries	MS	MSD	JC78977-1	Limits
877-09-8	Tetrachloro-m-xylene	102%	90%	103%	31-146%
877-09-8	Tetrachloro-m-xylene	106%	96%	101%	31-146%
2051-24-3	Decachlorobiphenyl	77%	73%	77%	17-164%
2051-24-3	Decachlorobiphenyl	91%	85%	92%	17-164%

* = Outside of Control Limits.

GC Identification Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Check Std:	GEF6326-CC6325	**Injection Date:**	12/06/18
Lab File ID:	EF186050.D	**Injection Time:**	02:24
Instrument ID:	GCEF	**Method:**	SW846 8082A

Sample ID:	OP17101-BS1	**Injection Date:**	12/06/18
Lab File ID:	EF186053.D	**Injection Time:**	03:39
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			2310		ug/kg	7.9
Aroclor 1016	2			2500		ug/kg	
AR1016-A	1	4.27	4.27	2410		ug/kg	
AR1016-A	2	5.27	5.26	2590		ug/kg	
AR1016-B	1	4.89	4.89	2440		ug/kg	
AR1016-B	2	6.10	6.10	2480		ug/kg	
AR1016-C	1	5.73	5.73	2120		ug/kg	
AR1016-C	2	7.04	7.03	2460		ug/kg	
AR1016-D	1	5.99	5.99	2310		ug/kg	
AR1016-D	2	7.33	7.33	2450		ug/kg	
AR1016-E	1	6.80	6.79	2280		ug/kg	
AR1016-E	2	8.35	8.35	2520		ug/kg	
Aroclor 1260	1			2470		ug/kg	11.6
Aroclor 1260	2 [a]			2200		ug/kg	
AR1260-A	1	10.57	10.56	2110		ug/kg	
AR1260-A	2	12.47	12.47	2080		ug/kg	
AR1260-B	1	10.83	10.83	2670		ug/kg	
AR1260-B	2	12.67	12.67	2240		ug/kg	
AR1260-C	1	11.37	11.37	2720		ug/kg	
AR1260-C	2	13.36	13.36	2320		ug/kg	
AR1260-D	1	12.06	12.06	2610		ug/kg	
AR1260-D	2	13.92	13.92	2340		ug/kg	
AR1260-E	1	12.69	12.68	2250		ug/kg	
AR1260-E	2	14.78	14.78	2040		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Check Std:	GEF6326-CC6325	**Injection Date:**	12/06/18
Lab File ID:	EF186050.D	**Injection Time:**	02:24
Instrument ID:	GCEF	**Method:**	SW846 8082A

Sample ID:	OP17101-MS	**Injection Date:**	12/06/18
Lab File ID:	EF186055.D	**Injection Time:**	04:28
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			2350		ug/kg	8.6
Aroclor 1016	2			2560		ug/kg	
AR1016-A	1	4.29	4.27	2410		ug/kg	
AR1016-A	2	5.27	5.26	3890		ug/kg	
AR1016-B	1	4.90	4.89	2510		ug/kg	
AR1016-B	2	6.11	6.10	2520		ug/kg	
AR1016-C	1	5.74	5.73	2240		ug/kg	
AR1016-C	2	7.03	7.03	1530		ug/kg	
AR1016-D	1	6.00	5.99	2240		ug/kg	
AR1016-D	2	7.34	7.33	2310		ug/kg	
Aroclor 1260	1 [a]			1950		ug/kg	6.9
Aroclor 1260	2			2090		ug/kg	
AR1260-A	1	10.62	10.56	2520		ug/kg	
AR1260-A	2	12.52	12.47	1680		ug/kg	
AR1260-B	1	10.89	10.83	2170		ug/kg	
AR1260-B	2	12.73	12.67	1960		ug/kg	
AR1260-C	1	11.43	11.37	2260		ug/kg	
AR1260-C	2	13.42	13.36	1840		ug/kg	
AR1260-D	1	12.15	12.06	1810		ug/kg	
AR1260-D	2	14.00	13.92	2110		ug/kg	
AR1260-E	1	12.78	12.68	1010		ug/kg	
AR1260-E	2	14.86	14.78	2860		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Check Std:	GEF6326-CC6325	**Injection Date:**	12/06/18
Lab File ID:	EF186050.D	**Injection Time:**	02:24
Instrument ID:	GCEF	**Method:**	SW846 8082A

Sample ID:	OP17101-MSD	**Injection Date:**	12/06/18
Lab File ID:	EF186056.D	**Injection Time:**	04:53
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			2120		ug/kg	10.3
Aroclor 1016	2			2350		ug/kg	
AR1016-A	1	4.28	4.27	2200		ug/kg	
AR1016-A	2	5.27	5.26	3600		ug/kg	
AR1016-B	1	4.90	4.89	2260		ug/kg	
AR1016-B	2	6.10	6.10	2310		ug/kg	
AR1016-C	1	5.74	5.73	2000		ug/kg	
AR1016-C	2	7.02	7.03	1370		ug/kg	
AR1016-D	1	6.00	5.99	2000		ug/kg	
AR1016-D	2	7.33	7.33	2110		ug/kg	
Aroclor 1260	1 [a]			1750		ug/kg	12.3
Aroclor 1260	2			1980		ug/kg	
AR1260-A	1	10.61	10.56	2020		ug/kg	
AR1260-A	2	12.51	12.47	1540		ug/kg	
AR1260-B	1	10.88	10.83	2190		ug/kg	
AR1260-B	2	12.72	12.67	1810		ug/kg	
AR1260-C	1	11.42	11.37	2040		ug/kg	
AR1260-C	2	13.41	13.36	2130		ug/kg	
AR1260-D	1	12.14	12.06	1560		ug/kg	
AR1260-D	2	13.99	13.92	1920		ug/kg	
AR1260-E	1	12.77	12.68	949		ug/kg	
AR1260-E	2	14.85	14.78	2490		ug/kg	

(a) QC results reported from this column.

Surrogate Recovery Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC78619-2	EF186057.D	117	129	63	90
OP17101-BS1	EF186053.D	99	108	100	99
OP17101-MB1	EF186052.D	101	109	103	99
OP17101-MS	EF186055.D	102	106	77	91
OP17101-MSD	EF186056.D	90	96	73	85

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	31-146%
S2 = Decachlorobiphenyl	17-164%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Check Std:	GEF6326-CC6325	**Injection Date:**	12/06/18
Lab File ID:	EF186050.D	**Injection Time:**	02:24
Instrument ID:	GCEF	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.70	4.31	15.18	17.48

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP17101-MB1	EF186052.D	12/06/18	03:14	3.70	4.32	15.17	17.48
OP17101-BS1	EF186053.D	12/06/18	03:39	3.70	4.32	15.17	17.48
JC78977-1	EF186054.D	12/06/18	04:04	3.72	4.33	15.33	17.58
OP17101-MS	EF186055.D	12/06/18	04:28	3.72	4.33	15.33	17.58
OP17101-MSD	EF186056.D	12/06/18	04:53	3.71	4.33	15.31	17.57
JC78619-2	EF186057.D	12/06/18	05:18	3.73	4.32	15.17	17.57

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICC6325
Lab FileID: EF186007.D

Response Factor Report gcef

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Thu Dec 06 10:52:03 2018
Response via : Initial Calibration

Calibration Files
3000=EF186009.D 2000=EF186008.D 1000=EF186007.D 500 =EF186006.D
250 =EF186005.D 50 =EF186004.D

	Compound	3000	2000	1000	500	250	50	Avg	%RSD
1) S	Tetrachloro-m-xylen	1.469	1.464	1.436	1.379	1.312	1.325	1.398 E4	4.95
2)	AR1221-A			1.455				1.455 E2	0.00
3)	AR1221-B			1.884				1.884 E2	0.00
4)	AR1221-C			6.227				6.227 E2	0.00
5)	AR1221-D			1.131				1.131 E2	0.00
6)	AR1221-E			8.414				8.414 E1	0.00
7)	AR1232-A			4.931				4.931 E2	0.00
8)	AR1232-B			3.513				3.513 E2	0.00
9)	AR1232-C			6.616				6.616 E2	0.00
10)	AR1232-D			2.556				2.556 E2	0.00
11)	AR1232-E			2.539				2.539 E2	0.00
12)	AR1242-A			5.336				5.336 E2	0.00
13)	AR1242-B			1.087				1.087 E3	0.00
14)	AR1242-C			4.190				4.190 E2	0.00
15)	AR1242-D			4.606				4.606 E2	0.00
16)	AR1242-E			4.239				4.239 E2	0.00
17)	AR1248-A			2.923				2.923 E2	0.00
18)	AR1248-B			6.665				6.665 E2	0.00
19)	AR1248-C			7.486				7.486 E2	0.00
20)	AR1248-D			7.030				7.030 E2	0.00
21)	AR1248-E			3.501				3.501 E2	0.00
22)	AR1248-F			6.845				6.845 E2	0.00
23)	AR1248-G			5.175				5.175 E2	0.00
24)	AR1254-A			5.159				5.159 E2	0.00
25)	AR1254-B			7.813				7.813 E2	0.00
26)	AR1254-C			5.617				5.617 E2	0.00
27)	AR1254-D			9.569				9.569 E2	0.00
28)	AR1254-E			8.374				8.374 E2	0.00
29)	AR1254-F			7.203				7.203 E2	0.00
30)	AR1254-G			9.789				9.789 E2	0.00
31)	AR1262-A			7.785				7.785 E2	0.00
32)	AR1262-B			9.395				9.395 E2	0.00
33)	AR1262-C			8.361				8.361 E2	0.00
34)	AR1262-D			1.919				1.919 E3	0.00
35)	AR1262-E			2.241				2.241 E3	0.00
36)	AR1268-A			1.811				1.811 E3	0.00
37)	AR1268-B			2.420				2.420 E3	0.00
38)	AR1268-C			1.737				1.737 E3	0.00
39)	AR1268-D			7.951				7.951 E2	0.00
40)	AR1268-E			5.583				5.583 E3	0.00
41)	AR1016-A	3.284	3.437	3.690	3.935	3.867	3.908	3.687 E2	7.35
42)	AR1016-B	5.424	5.762	6.388	6.796	6.934	7.425	6.455 E2	11.66
43)	AR1016-C	1.171	1.226	1.319	1.374	1.382	1.472	1.324 E3	8.34
44)	AR1016-D	4.512	4.743	5.115	5.303	5.360	5.661	5.116 E2	8.27
45)	AR1016-E	4.876	5.089	5.477	5.744	5.850	5.720	5.460 E2	7.23
46)	AR1260-A	1.193	1.241	1.322	1.353	1.345	1.345	1.300 E3	5.12
47)	AR1260-B	5.484	5.766	6.302	6.619	6.776	7.056	6.334 E2	9.59

Initial Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY
Sample: GEF6325-ICC6325
Lab FileID: EF186007.D

48)		AR1260-C	5.881	6.121	6.534	6.730	6.701	6.530	6.416 E2	5.31
49)		AR1260-D	1.462	1.517	1.609	1.659	1.613	1.579	1.573 E3	4.56
50)		AR1260-E	1.480	1.550	1.592	1.597	1.512	1.517	1.541 E3	3.04
51)	S	Decachlorobiphenyl	1.680	1.765	1.900	1.989	1.981	2.149	1.911 E4	8.83

Signal #2

1)	S	Tetrachloro-m-xylen	1.782	1.779	1.797	1.788	1.731	1.681	1.760 E4	2.55
2)		AR1221-A			1.545				1.545 E2	0.00
3)		AR1221-B			2.420				2.420 E2	0.00
4)		AR1221-C			6.475				6.475 E2	0.00
5)		AR1221-D			1.211				1.211 E2	0.00
6)		AR1221-E			1.342				1.342 E2	0.00
7)		AR1232-A			5.289				5.289 E2	0.00
8)		AR1232-B			4.953				4.953 E2	0.00
9)		AR1232-C			8.431				8.431 E2	0.00
10)		AR1232-D			3.656				3.656 E2	0.00
11)		AR1232-E			2.579				2.579 E2	0.00
12)		AR1242-A			6.813				6.813 E2	0.00
13)		AR1242-B			1.348				1.348 E3	0.00
14)		AR1242-C			5.957				5.957 E2	0.00
15)		AR1242-D			4.214				4.214 E2	0.00
16)		AR1242-E			6.160				6.160 E2	0.00
17)		AR1248-A			3.614				3.614 E2	0.00
18)		AR1248-B			9.225				9.225 E2	0.00
19)		AR1248-C			5.204				5.204 E2	0.00
20)		AR1248-D			6.481				6.481 E2	0.00
21)		AR1248-E			7.274				7.274 E2	0.00
22)		AR1248-F			1.041				1.041 E3	0.00
23)		AR1248-G			8.556				8.556 E2	0.00
24)		AR1254-A			9.285				9.285 E2	0.00
25)		AR1254-B			9.565				9.565 E2	0.00
26)		AR1254-C			6.888				6.888 E2	0.00
27)		AR1254-D			1.544				1.544 E3	0.00
28)		AR1254-E			1.371				1.371 E3	0.00
29)		AR1254-F			1.145				1.145 E3	0.00
30)		AR1254-G			1.444				1.444 E3	0.00
31)		AR1262-A			1.136				1.136 E3	0.00
32)		AR1262-B			1.647				1.647 E3	0.00
33)		AR1262-C			1.327				1.327 E3	0.00
34)		AR1262-D			2.990				2.990 E3	0.00
35)		AR1262-E			3.675				3.675 E3	0.00
36)		AR1268-A			3.275				3.275 E3	0.00
37)		AR1268-B			3.892				3.892 E3	0.00
38)		AR1268-C			2.898				2.898 E3	0.00
39)		AR1268-D			1.264				1.264 E3	0.00
40)		AR1268-E			7.931				7.931 E3	0.00
41)		AR1016-A	3.574	3.729	4.083	4.157	4.325	4.779	4.108 E2	10.50
42)		AR1016-B	6.829	7.304	8.086	8.622	9.098	9.476	8.236 E2	12.50
43)		AR1016-C	1.374	1.459	1.618	1.745	1.870	1.911	1.663 E3	13.11
44)		AR1016-D	6.229	6.582	7.222	7.662	8.084	7.674	7.242 E2	9.83
45)		AR1016-E	4.293	4.408	4.836	5.241	5.303	5.486	4.928 E2	10.07
46)		AR1260-A	1.718	1.816	1.950	2.048	2.090	2.192	1.969 E3	9.01
47)		AR1260-B	0.954	1.020	1.113	1.177	1.219	1.259	1.124 E3	10.50
48)		AR1260-C	0.939	1.011	1.063	1.104	1.140	1.208	1.077 E3	8.84
49)		AR1260-D	2.275	2.414	2.542	2.641	2.637	2.801	2.552 E3	7.29
50)		AR1260-E	2.289	2.481	2.516	2.558	2.566	2.970	2.563 E3	8.73
51)	S	Decachlorobiphenyl	2.291	2.357	2.497	2.600	2.579	2.631	2.492 E4	5.59

(#) = Out of Range

Initial Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICC6325
Lab FileID: EF186007.D

PCB6325.M Thu Dec 06 10:56:57 2018 GCEF

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186014.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD2B.CH
Acq On : 4 Dec 2018 7:57 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	13.977	15.190 E3	-8.7	106	0.00	3.56- 3.81
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A	368.683	359.674	2.4	97	0.00	4.17- 4.35

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186014.D

42		AR1016-B	645.485	653.070		-1.2	102	0.00	4.82- 4.94
43		AR1016-C	1.324	1.351	E3	-2.0	102	0.00	5.69- 5.76
44		AR1016-D	511.566	519.376		-1.5	102	0.00	5.95- 6.01
45		AR1016-E	545.953	545.777		0.0	100	0.00	6.76- 6.82
46		AR1260-A	1.300	1.299	E3	0.1	98	0.00	10.48-10.62
47		AR1260-B	633.391	577.542		8.8	92	0.00	10.75-10.88
48		AR1260-C	641.606	615.270		4.1	94	0.00	11.29-11.42
49		AR1260-D	1.573	1.494	E3	5.0	93	0.00	11.98-12.11
50		AR1260-E	1.541	1.474	E3	4.3	93	0.00	12.61-12.74
51	S	Decachlorobiphenyl	19.109	20.020	E3	-4.8	105	0.00	15.10-15.23
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	17.596	18.831	E3	-7.0	105	0.00	4.20- 4.42
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	410.778	400.124		2.6	98	0.00	5.20- 5.32
42		AR1016-B	823.598	833.222		-1.2	103	0.00	6.06- 6.12
43		AR1016-C	1.663	1.664	E3	-0.1	103	0.00	7.00- 7.06
44		AR1016-D	724.235	738.664		-2.0	102	0.00	7.29- 7.35
45		AR1016-E	492.771	488.685		0.8	101	0.00	8.31- 8.38
46		AR1260-A	1.969	1.951	E3	0.9	100	0.00	12.40-12.52
47		AR1260-B	1123.540	1041.242		7.3	94	0.00	12.60-12.72

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186014.D

48		AR1260-C	1077.436	1020.931		5.2	96	0.00	13.29-13.41
49		AR1260-D	2.552	2.427	E3	4.9	96	0.00	13.85-13.97
50		AR1260-E	2.563	2.382	E3	7.1	95	0.00	14.71-14.83
51	S	Decachlorobiphenyl	24.924	27.107	E3	-8.8	109	0.00	17.41-17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF186007.D PCB6325.M Wed Dec 05 09:31:25 2018 GCEF

8.7.2
8

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186015.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD2B.CH
Acq On : 4 Dec 2018 8:22 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	13.977	18.271 E3	-30.7#	127	0.00	3.56- 3.81
2	AR1221-A	145.485	141.845	2.5	97	0.00	2.85- 3.05
3	AR1221-B	188.376	172.264	8.6	91	0.00	3.85- 4.05
4	AR1221-C	622.657	565.739	9.1	91	0.00	4.16- 4.36
5	AR1221-D	113.099	92.036	18.6	81	0.00	4.78- 4.98
6	AR1221-E	84.145	85.682	-1.8	102	0.00	5.00- 5.20
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	515.870	516.065	-0.0	100	0.00	7.46- 7.66
25	AR1254-B	781.309	783.396	-0.3	100	0.00	8.00- 8.20
26	AR1254-C	561.732	561.188	0.1	100	0.00	8.58- 8.78
27	AR1254-D	956.876	953.494	0.4	100	0.00	8.84- 9.04
28	AR1254-E	837.440	836.213	0.1	100	0.00	9.44- 9.64
29	AR1254-F	720.327	722.674	-0.3	100	0.00	9.85-10.05
30	AR1254-G	978.879	977.927	0.1	100	0.00	10.45-10.65
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186015.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	19.109	22.951	E3	-20.1#	121	0.00	15.10-15.24
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	17.596	21.623	E3	-22.9#	120	0.00	4.20- 4.41
2		AR1221-A	154.516	148.172		4.1	96	0.00	3.44- 3.64
3		AR1221-B	241.969	218.242		9.8	90	0.00	4.76- 4.96
4		AR1221-C	647.532	597.223		7.8	92	0.00	5.16- 5.36
5		AR1221-D	121.104	102.924		15.0	85	0.00	5.97- 6.17
6		AR1221-E	134.221	130.821		2.5	97	0.00	6.09- 6.29
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A	928.469	921.677		0.7	99	0.00	9.17- 9.37
25		AR1254-B	956.518	954.911		0.2	100	0.00	9.58- 9.78
26		AR1254-C	688.796	686.438		0.3	100	0.00	10.37-10.57
27		AR1254-D	1.544	1.537	E3	0.5	100	0.00	10.63-10.83
28		AR1254-E	1.371	1.358	E3	0.9	99	0.00	11.13-11.33
29		AR1254-F	1.145	1.133	E3	1.0	99	0.00	11.93-12.13
30		AR1254-G	1.444	1.427	E3	1.2	99	0.00	12.36-12.56
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186015.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	24.924	30.440 E3	-22.1#	122	0.00	17.41-17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF186007.D PCB6325.M Wed Dec 05 09:31:27 2018 GCEF

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186016.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD2B.CH
Acq On : 4 Dec 2018 8:47 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	13.977	18.341	E3	-31.2#	128	0.00	3.56- 3.81
2		AR1221-A		----------		NA	----------		
3		AR1221-B		----------		NA	----------		
4		AR1221-C		----------		NA	----------		
5		AR1221-D		----------		NA	----------		
6		AR1221-E		----------		NA	----------		
7		AR1232-A	493.071	460.492		6.6	93	0.00	4.16- 4.36
8		AR1232-B	351.262	332.083		5.5	95	0.00	4.78- 4.98
9		AR1232-C	661.625	617.925		6.6	93	0.00	5.62- 5.82
10		AR1232-D	255.598	237.619		7.0	93	0.00	5.88- 6.08
11		AR1232-E	253.913	235.867		7.1	93	0.00	6.69- 6.89
12		AR1242-A		----------		NA	----------		
13		AR1242-B		----------		NA	----------		
14		AR1242-C		----------		NA	----------		
15		AR1242-D		----------		NA	----------		
16		AR1242-E		----------		NA	----------		
17		AR1248-A		----------		NA	----------		
18		AR1248-B		----------		NA	----------		
19		AR1248-C		----------		NA	----------		
20		AR1248-D		----------		NA	----------		
21		AR1248-E		----------		NA	----------		
22		AR1248-F		----------		NA	----------		
23		AR1248-G		----------		NA	----------		
24		AR1254-A		----------		NA	----------		
25		AR1254-B		----------		NA	----------		
26		AR1254-C		----------		NA	----------		
27		AR1254-D		----------		NA	----------		
28		AR1254-E		----------		NA	----------		
29		AR1254-F		----------		NA	----------		
30		AR1254-G		----------		NA	----------		
31		AR1262-A	778.533	776.786		0.2	100	0.00	9.85-10.05
32		AR1262-B	939.489	945.057		-0.6	101	0.00	10.71-10.91
33		AR1262-C	836.059	840.091		-0.5	100	0.00	11.25-11.45
34		AR1262-D	1.919	1.939	E3	-1.0	101	0.00	11.94-12.14
35		AR1262-E	2.241	2.272	E3	-1.4	101	0.00	12.66-12.86
36		AR1268-A		----------		NA	----------		
37		AR1268-B		----------		NA	----------		
38		AR1268-C		----------		NA	----------		
39		AR1268-D		----------		NA	----------		
40		AR1268-E		----------		NA	----------		
41		AR1016-A		----------		NA	----------		

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186016.D

42		AR1016-B			----------NA----------					
43		AR1016-C			----------NA----------					
44		AR1016-D			----------NA----------					
45		AR1016-E			----------NA----------					
46		AR1260-A			----------NA----------					
47		AR1260-B			----------NA----------					
48		AR1260-C			----------NA----------					
49		AR1260-D			----------NA----------					
50		AR1260-E			----------NA----------					
51	S	Decachlorobiphenyl	19.109	23.286	E3	-21.9#	123	0.00	15.10-15.23	
*****		Signal #2 *****								
1	S	Tetrachloro-m-xylene	17.596	22.216	E3	-26.3#	124	0.00	4.20- 4.42	
2		AR1221-A			----------NA----------					
3		AR1221-B			----------NA----------					
4		AR1221-C			----------NA----------					
5		AR1221-D			----------NA----------					
6		AR1221-E			----------NA----------					
7		AR1232-A	528.925	497.281		6.0	94	0.00	5.16- 5.36	
8		AR1232-B	495.284	464.349		6.2	94	0.00	5.99- 6.19	
9		AR1232-C	843.096	790.707		6.2	94	0.00	6.92- 7.12	
10		AR1232-D	365.619	342.828		6.2	94	0.00	7.22- 7.42	
11		AR1232-E	257.892	242.255		6.1	94	0.00	8.51- 8.71	
12		AR1242-A			----------NA----------					
13		AR1242-B			----------NA----------					
14		AR1242-C			----------NA----------					
15		AR1242-D			----------NA----------					
16		AR1242-E			----------NA----------					
17		AR1248-A			----------NA----------					
18		AR1248-B			----------NA----------					
19		AR1248-C			----------NA----------					
20		AR1248-D			----------NA----------					
21		AR1248-E			----------NA----------					
22		AR1248-F			----------NA----------					
23		AR1248-G			----------NA----------					
24		AR1254-A			----------NA----------					
25		AR1254-B			----------NA----------					
26		AR1254-C			----------NA----------					
27		AR1254-D			----------NA----------					
28		AR1254-E			----------NA----------					
29		AR1254-F			----------NA----------					
30		AR1254-G			----------NA----------					
31		AR1262-A	1.136	1.156	E3	-1.8	102	0.00	11.53-11.73	
32		AR1262-B	1.647	1.660	E3	-0.8	101	0.00	12.56-12.76	
33		AR1262-C	1.327	1.358	E3	-2.3	102	0.00	13.25-13.45	
34		AR1262-D	2.990	3.044	E3	-1.8	102	0.00	13.81-14.01	
35		AR1262-E	3.675	3.689	E3	-0.4	100	0.00	14.65-14.85	
36		AR1268-A			----------NA----------					
37		AR1268-B			----------NA----------					
38		AR1268-C			----------NA----------					
39		AR1268-D			----------NA----------					
40		AR1268-E			----------NA----------					
41		AR1016-A			----------NA----------					
42		AR1016-B			----------NA----------					
43		AR1016-C			----------NA----------					
44		AR1016-D			----------NA----------					
45		AR1016-E			----------NA----------					
46		AR1260-A			----------NA----------					
47		AR1260-B			----------NA----------					

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186016.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	24.924	30.044	E3	-20.5#	120	0.00	17.41-17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF186007.D PCB6325.M Wed Dec 05 09:31:29 2018 GCEF

8.7.4

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Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186017.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186017.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186017.D\ECD2B.CH
Acq On : 4 Dec 2018 9:12 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	13.977	18.052 E3	-29.2#	126	0.00	3.56- 3.81
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A	533.593	555.940	-4.2	104	0.00	4.78- 4.98
13	AR1242-B	1.087	1.126 E3	-3.6	104	0.00	5.62- 5.82
14	AR1242-C	418.983	436.028	-4.1	104	0.00	5.88- 6.08
15	AR1242-D	460.565	465.134	-1.0	101	0.00	6.68- 6.88
16	AR1242-E	423.926	429.835	-1.4	101	0.00	7.60- 7.80
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A	1.811	1.758 E3	2.9	97	0.00	12.66-12.86
37	AR1268-B	2.420	2.374 E3	1.9	98	0.00	12.74-12.94
38	AR1268-C	1.737	1.699 E3	2.2	98	0.00	13.18-13.38
39	AR1268-D	795.059	766.568	3.6	96	0.00	13.98-14.18
40	AR1268-E	5.583	5.476 E3	1.9	98	0.00	14.63-14.83
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186017.D

42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					
48		AR1260-C		----------NA----------					
49		AR1260-D		----------NA----------					
50		AR1260-E		----------NA----------					
51	S	Decachlorobiphenyl	19.109	54.313	E3	-184.2#	286#	-0.01	15.09-15.23
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	17.596	22.404	E3	-27.3#	125	0.00	4.20- 4.41
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A	681.306	710.378		-4.3	104	0.00	5.98- 6.18
13		AR1242-B	1.348	1.395	E3	-3.5	103	0.00	6.92- 7.12
14		AR1242-C	595.662	622.844		-4.6	105	0.00	7.22- 7.42
15		AR1242-D	421.425	428.549		-1.7	102	0.00	8.24- 8.44
16		AR1242-E	616.021	617.809		-0.3	100	0.00	9.17- 9.37
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A	3.275	3.196	E3	2.4	98	0.00	14.64-14.84
37		AR1268-B	3.892	3.835	E3	1.5	99	0.00	14.74-14.94
38		AR1268-C	2.898	2.857	E3	1.4	99	0.00	15.34-15.54
39		AR1268-D	1.264	1.235	E3	2.3	98	0.00	15.99-16.19
40		AR1268-E	7.931	7.799	E3	1.7	98	0.00	16.75-16.95
41		AR1016-A		----------NA----------					
42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186017.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	24.924	71.114 E3	-185.3#	285#	-0.01	17.40-17.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF186007.D PCB6325.M Wed Dec 05 09:31:31 2018 GCEF

8.7.5

8

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186018.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186018.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186018.D\ECD2B.CH
Acq On : 4 Dec 2018 9:37 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	13.977	17.625 E3	-26.1#	123	0.00	3.56- 3.81
2	AR1221-A			----------NA----------			
3	AR1221-B			----------NA----------			
4	AR1221-C			----------NA----------			
5	AR1221-D			----------NA----------			
6	AR1221-E			----------NA----------			
7	AR1232-A			----------NA----------			
8	AR1232-B			----------NA----------			
9	AR1232-C			----------NA----------			
10	AR1232-D			----------NA----------			
11	AR1232-E			----------NA----------			
12	AR1242-A			----------NA----------			
13	AR1242-B			----------NA----------			
14	AR1242-C			----------NA----------			
15	AR1242-D			----------NA----------			
16	AR1242-E			----------NA----------			
17	AR1248-A	292.342	273.007	6.6	93	0.00	4.77- 4.97
18	AR1248-B	666.507	658.290	1.2	99	0.00	5.62- 5.82
19	AR1248-C	748.608	759.335	-1.4	101	0.00	6.28- 6.48
20	AR1248-D	702.966	717.209	-2.0	102	0.00	6.68- 6.88
21	AR1248-E	350.133	367.841	-5.1	105	0.00	6.85- 7.05
22	AR1248-F	684.480	755.496	-10.4	110	0.00	7.60- 7.80
23	AR1248-G	517.521	542.619	-4.8	105	0.00	8.00- 8.20
24	AR1254-A			----------NA----------			
25	AR1254-B			----------NA----------			
26	AR1254-C			----------NA----------			
27	AR1254-D			----------NA----------			
28	AR1254-E			----------NA----------			
29	AR1254-F			----------NA----------			
30	AR1254-G			----------NA----------			
31	AR1262-A			----------NA----------			
32	AR1262-B			----------NA----------			
33	AR1262-C			----------NA----------			
34	AR1262-D			----------NA----------			
35	AR1262-E			----------NA----------			
36	AR1268-A			----------NA----------			
37	AR1268-B			----------NA----------			
38	AR1268-C			----------NA----------			
39	AR1268-D			----------NA----------			
40	AR1268-E			----------NA----------			
41	AR1016-A			----------NA----------			

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186018.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	19.109	24.052	E3 -25.9#	127	0.00	15.10-15.23	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	17.596	22.997	E3 -30.7#	128	0.00	4.20- 4.41	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A	361.424	333.735	7.7	92	0.00	5.98- 6.18	
18		AR1248-B	922.462	904.115	2.0	98	0.00	6.92- 7.12	
19		AR1248-C	520.395	521.932	-0.3	100	0.00	7.64- 7.84	
20		AR1248-D	648.062	655.031	-1.1	101	0.00	8.24- 8.44	
21		AR1248-E	727.359	751.865	-3.4	103	0.00	8.51- 8.71	
22		AR1248-F	1.041	1.095	E3 -5.2	105	0.00	9.17- 9.37	
23		AR1248-G	855.611	909.323	-6.3	106	0.00	9.69- 9.89	
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6325-ICV6325
Lab FileID: EF186018.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	24.924	32.295 E3	-29.6#	129	0.00	17.41-17.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF186007.D PCB6325.M Wed Dec 05 09:31:33 2018 GCEF

8.7.6

8

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6326-CC6325
Lab FileID: EF186050.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD2B.CH
Acq On : 6 Dec 2018 2:24 am Operator: tianweir
Sample : cc6325-500 Inst : gcef
Misc : op17100,GEF6326,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	13.977	14.191 E3	-1.5	103	0.00	3.57- 3.82
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	368.683	394.546	-7.0	100	0.00	4.18- 4.36

8.7.7

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Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6326-CC6325
Lab FileID: EF186050.D

42		AR1016-B	645.485	688.659		-6.7	101	0.00	4.82- 4.95
43		AR1016-C	1.324	1.378	E3	-4.1	100	0.00	5.70- 5.77
44		AR1016-D	511.566	538.146		-5.2	101	0.00	5.96- 6.02
45		AR1016-E	545.953	560.792		-2.7	98	0.00	6.76- 6.82
46		AR1260-A	1.300	1.302	E3	-0.2	96	0.00	10.50-10.63
47		AR1260-B	633.391	633.491		-0.0	96	0.00	10.76-10.90
48		AR1260-C	641.606	643.037		-0.2	96	0.00	11.30-11.44
49		AR1260-D	1.573	1.530	E3	2.7	92	0.00	11.99-12.12
50		AR1260-E	1.541	1.440	E3	6.6	90	0.00	12.62-12.75
51	S	Decachlorobiphenyl	19.109	17.663	E3	7.6	89	0.00	15.11-15.24
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	17.596	18.414	E3	-4.6	103	0.00	4.21- 4.42
2		AR1221-A	----------NA----------						
3		AR1221-B	----------NA----------						
4		AR1221-C	----------NA----------						
5		AR1221-D	----------NA----------						
6		AR1221-E	----------NA----------						
7		AR1232-A	----------NA----------						
8		AR1232-B	----------NA----------						
9		AR1232-C	----------NA----------						
10		AR1232-D	----------NA----------						
11		AR1232-E	----------NA----------						
12		AR1242-A	----------NA----------						
13		AR1242-B	----------NA----------						
14		AR1242-C	----------NA----------						
15		AR1242-D	----------NA----------						
16		AR1242-E	----------NA----------						
17		AR1248-A	----------NA----------						
18		AR1248-B	----------NA----------						
19		AR1248-C	----------NA----------						
20		AR1248-D	----------NA----------						
21		AR1248-E	----------NA----------						
22		AR1248-F	----------NA----------						
23		AR1248-G	----------NA----------						
24		AR1254-A	----------NA----------						
25		AR1254-B	----------NA----------						
26		AR1254-C	----------NA----------						
27		AR1254-D	----------NA----------						
28		AR1254-E	----------NA----------						
29		AR1254-F	----------NA----------						
30		AR1254-G	----------NA----------						
31		AR1262-A	----------NA----------						
32		AR1262-B	----------NA----------						
33		AR1262-C	----------NA----------						
34		AR1262-D	----------NA----------						
35		AR1262-E	----------NA----------						
36		AR1268-A	----------NA----------						
37		AR1268-B	----------NA----------						
38		AR1268-C	----------NA----------						
39		AR1268-D	----------NA----------						
40		AR1268-E	----------NA----------						
41		AR1016-A	410.778	469.850		-14.4	113	0.00	5.20- 5.33
42		AR1016-B	823.598	913.512		-10.9	106	0.00	6.07- 6.13
43		AR1016-C	1.663	1.786	E3	-7.4	102	0.00	7.00- 7.06
44		AR1016-D	724.235	771.219		-6.5	101	0.00	7.30- 7.36
45		AR1016-E	492.771	500.439		-1.6	95	0.00	8.32- 8.39
46		AR1260-A	1.969	1.809	E3	8.1	88	0.00	12.41-12.53
47		AR1260-B	1123.540	1036.736		7.7	88	0.00	12.61-12.73

8.7.7

8

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6326-CC6325
Lab FileID: EF186050.D

48		AR1260-C	1077.436	950.709		11.8	86	0.00	13.30-13.42
49		AR1260-D	2.552	2.235	E3	12.4	85	0.01	13.86-13.99
50		AR1260-E	2.563	2.140	E3	16.5	84	0.01	14.72-14.84
51	S	Decachlorobiphenyl	24.924	20.963	E3	15.9	81	0.00	17.42-17.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF186006.D PCB6325.M Thu Dec 06 08:50:09 2018 GCEF

8.7.7

8

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6326-CC6325
Lab FileID: EF186060.D

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD2B.CH
Acq On : 6 Dec 2018 6:33 am Operator: tianweir
Sample : cc6325-1000 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	13.977	14.465 E3	-3.5	101	0.00	3.57- 3.82
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A	368.683	374.250	-1.5	101	0.00	4.18- 4.36

8.7.8

8

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6326-CC6325
Lab FileID: EF186060.D

42		AR1016-B	645.485	639.556		0.9	100	0.00	4.82- 4.95
43		AR1016-C	1.324	1.314	E3	0.8	100	0.00	5.69- 5.76
44		AR1016-D	511.566	532.231		-4.0	104	0.00	5.96- 6.02
45		AR1016-E	545.953	557.141		-2.0	102	0.00	6.76- 6.82
46		AR1260-A	1.300	1.318	E3	-1.4	100	0.00	10.49-10.63
47		AR1260-B	633.391	627.722		0.9	100	0.00	10.75-10.89
48		AR1260-C	641.606	659.277		-2.8	101	0.00	11.29-11.43
49		AR1260-D	1.573	1.561	E3	0.8	97	0.00	11.99-12.12
50		AR1260-E	1.541	1.547	E3	-0.4	97	0.00	12.61-12.75
51	S	Decachlorobiphenyl	19.109	18.356	E3	3.9	97	0.00	15.10-15.24
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	17.596	18.528	E3	-5.3	103	0.00	4.21- 4.42
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	410.778	426.427		-3.8	104	0.00	5.20- 5.33
42		AR1016-B	823.598	846.116		-2.7	105	0.00	6.07- 6.13
43		AR1016-C	1.663	1.682	E3	-1.1	104	0.00	7.00- 7.06
44		AR1016-D	724.235	751.102		-3.7	104	0.00	7.30- 7.36
45		AR1016-E	492.771	510.166		-3.5	105	0.00	8.31- 8.38
46		AR1260-A	1.969	1.990	E3	-1.1	102	0.00	12.41-12.53
47		AR1260-B	1123.540	1150.057		-2.4	103	0.00	12.61-12.73

Continuing Calibration Summary

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Sample: GEF6326-CC6325
Lab FileID: EF186060.D

48		AR1260-C	1077.436	1096.987		-1.8	103	0.00	13.30-13.42
49		AR1260-D	2.552	2.585	E3	-1.3	102	0.00	13.86-13.98
50		AR1260-E	2.563	2.479	E3	3.3	99	0.00	14.72-14.84
51	S	Decachlorobiphenyl	24.924	24.500	E3	1.7	98	0.00	17.41-17.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EF186007.D PCB6325.M Thu Dec 06 08:50:40 2018 GCEF

8.7.8

8

GC/LC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:34

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD2B.CH
Acq On : 6 Dec 2018 5:18 am Operator: tianweir
Sample : jc78619-2 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:45 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.73	4.32	656875	908655	46.996m	51.641m
	Spiked Amount 40.000			Recovery =		117.49%	129.10%
51) S	Decachlorobiphen	15.17	17.57f	481010	899935	25.172m	36.107m#
	Spiked Amount 40.000			Recovery =		62.93%	90.27%
	Target Compounds						

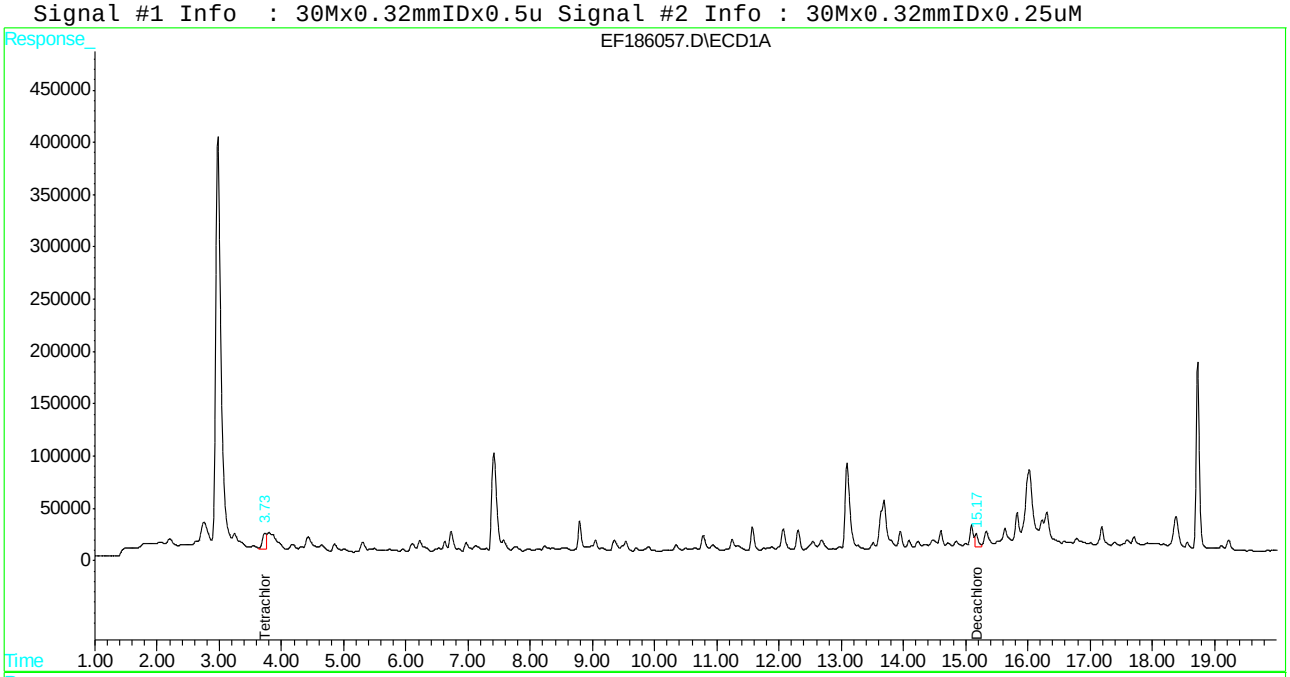
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186057.D PCB6325.M Thu Dec 06 11:14:01 2018 GCEF Page 1

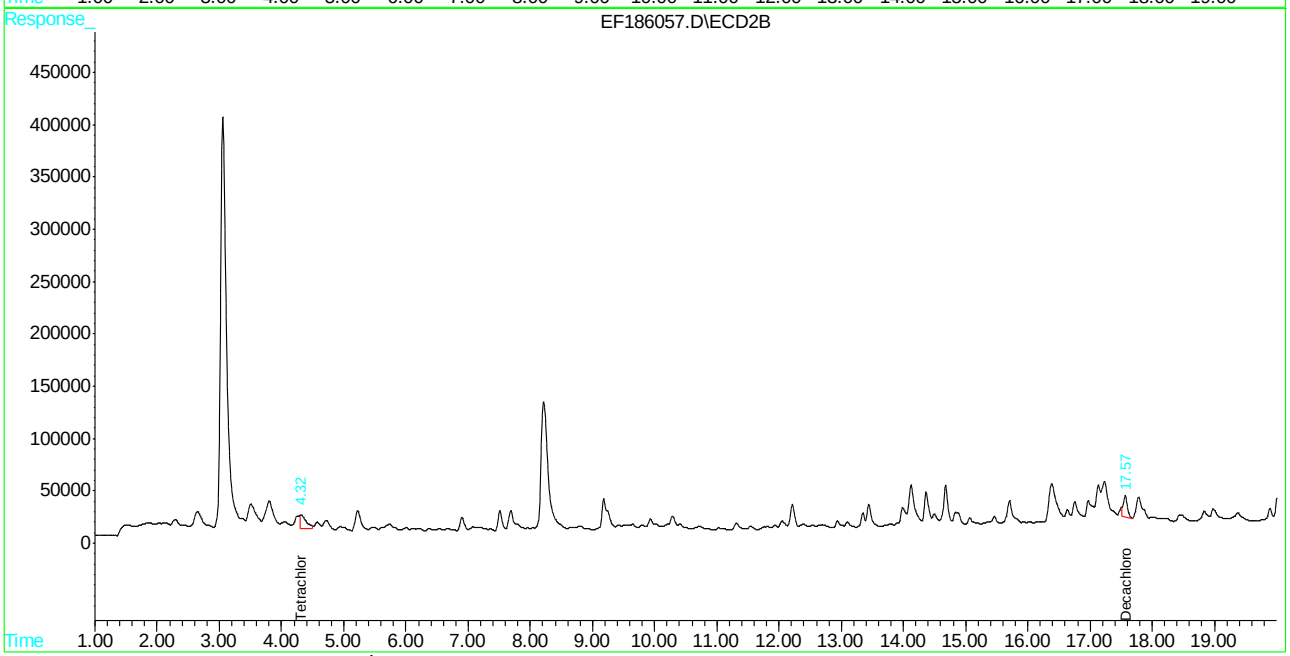
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD2B.CH
Acq On : 6 Dec 2018 5:18 am Operator: tianweir
Sample : jc78619-2 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:45 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





EF186057.D PCB6325.M Thu Dec 06 11:14:02 2018 GCEF Page 2

Manual Integration Approval Summary

Sample Number: JC78619-2
Lab FileID: EF186057.D
Injection Time: 12/06/18 05:18

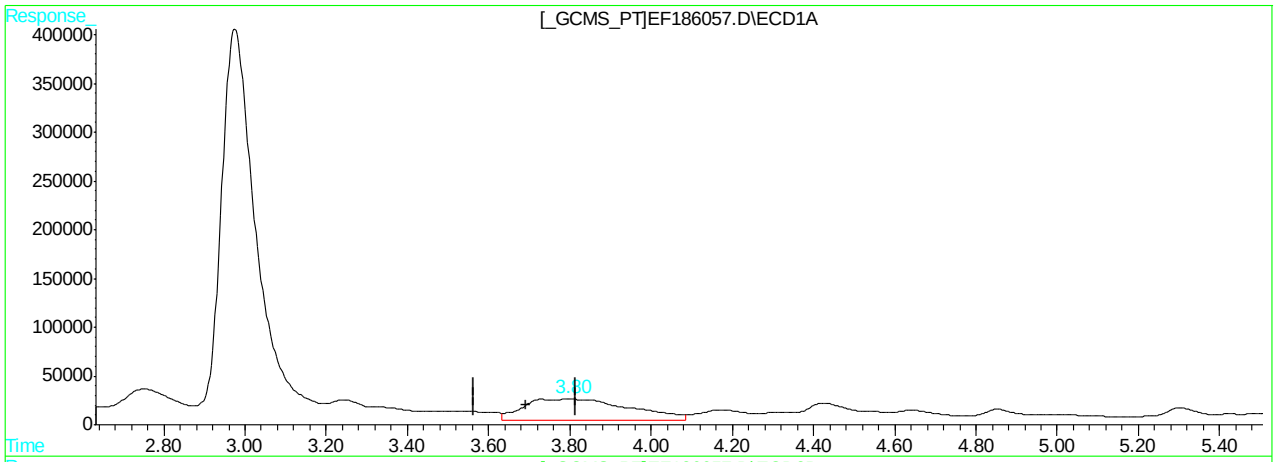
Method: SW846 8082A
Analyst approved: 12/06/18 08:55 Tianwei Ruan
Supervisor approved: 12/06/18 11:34 Gwendolyn Burns

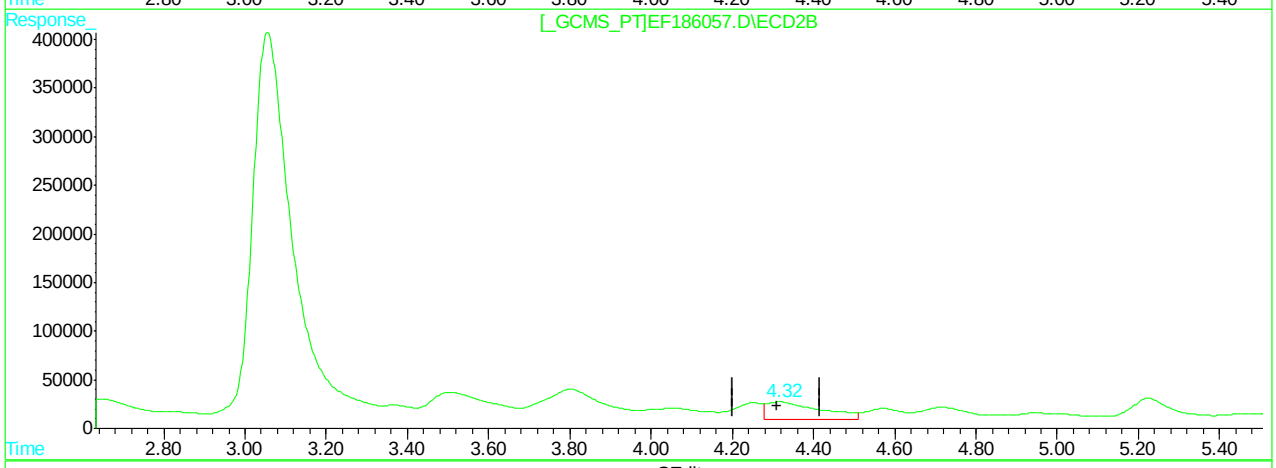
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	3.73	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	4.32	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	15.17	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	17.57	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD2B.CH
Acq On : 6 Dec 2018 5:18 am Operator: tianweir
Sample : jc78619-2 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:44 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(1) Tetrachloro-m-xylene (S)

3.80min 279.351PPB

response 3904575

(1) Tetrachloro-m-xylene #2 (S)

4.32min 99.073PPB

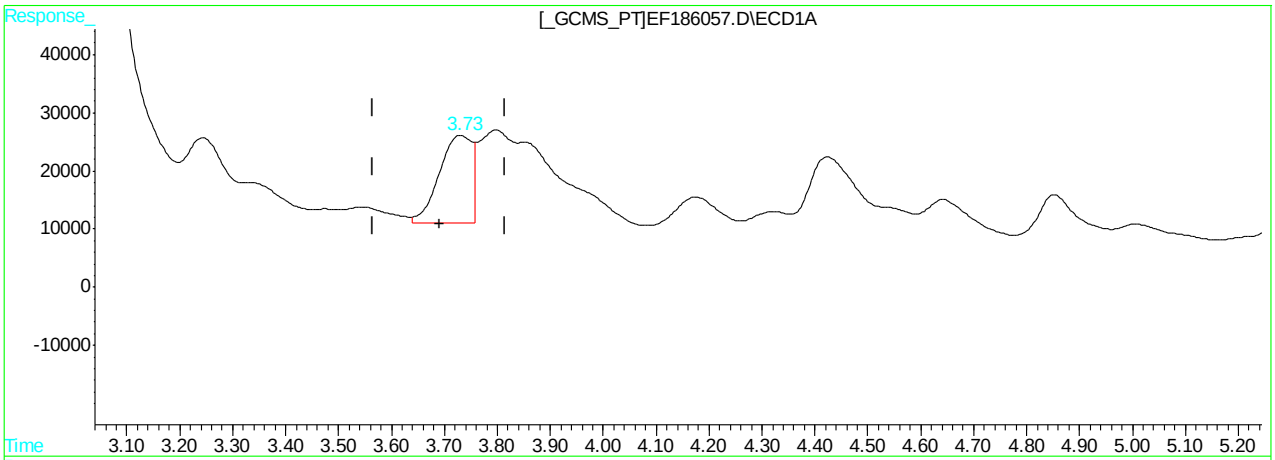
response 1743252

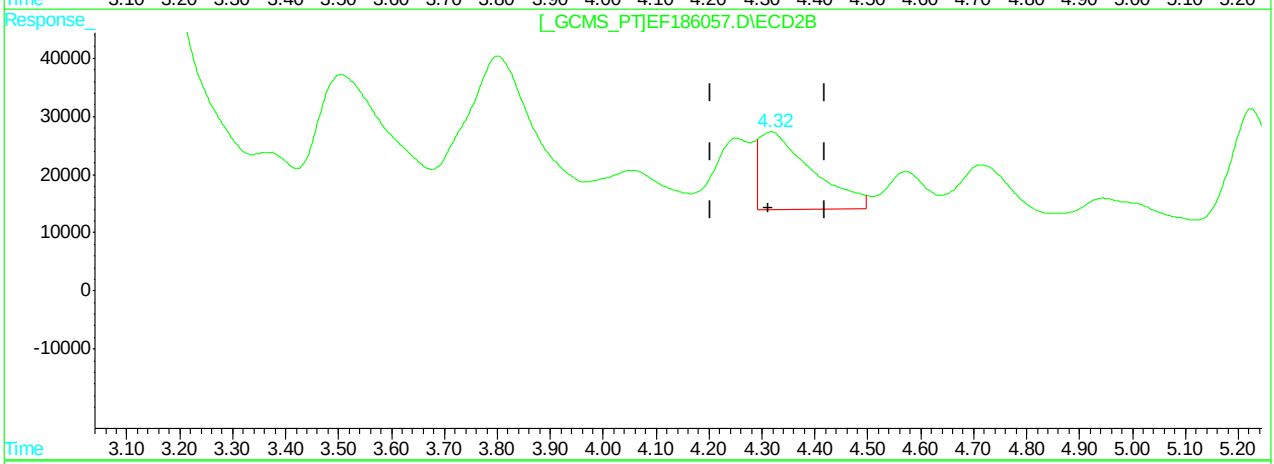
(+) = Expected Retention Time
EF186057.D PCB6325.M Thu Dec 06 08:45:30 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD2B.CH
Acq On : 6 Dec 2018 5:18 am Operator: tianweir
Sample : jc78619-2 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:44 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(1) Tetrachloro-m-xylene (S)

3.73min 46.996PPB m

response 656875

(1) Tetrachloro-m-xylene #2 (S)

4.32min 51.641PPB m

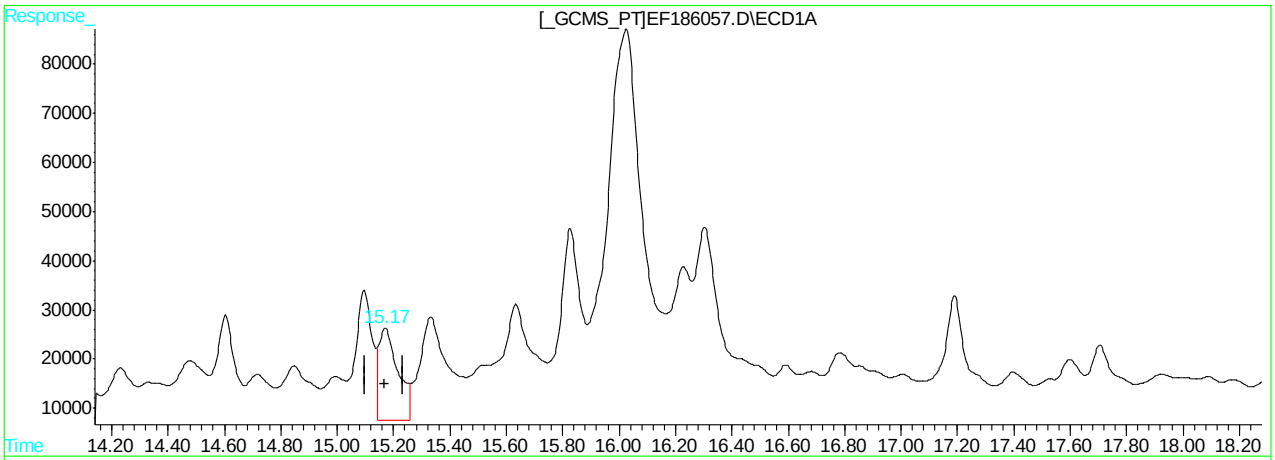
response 908655

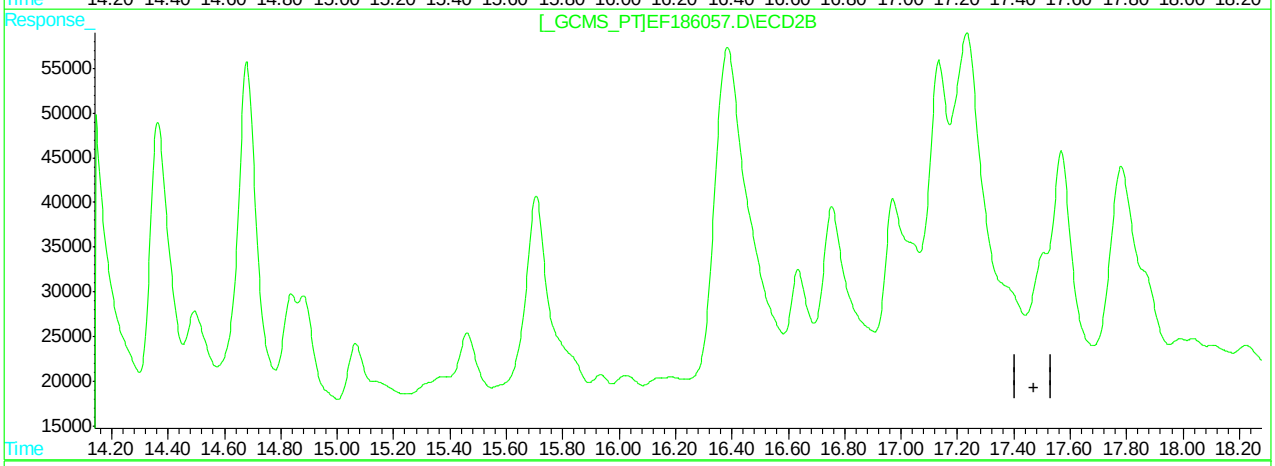
(+) = Expected Retention Time
EF186057.D PCB6325.M Thu Dec 06 08:45:38 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD2B.CH
Acq On : 6 Dec 2018 5:18 am Operator: tianweir
Sample : jc78619-2 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:44 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.17min 46.763PPB

response 893584

(51) Decachlorobiphenyl #2 (S)

0.00min 0.000PPB

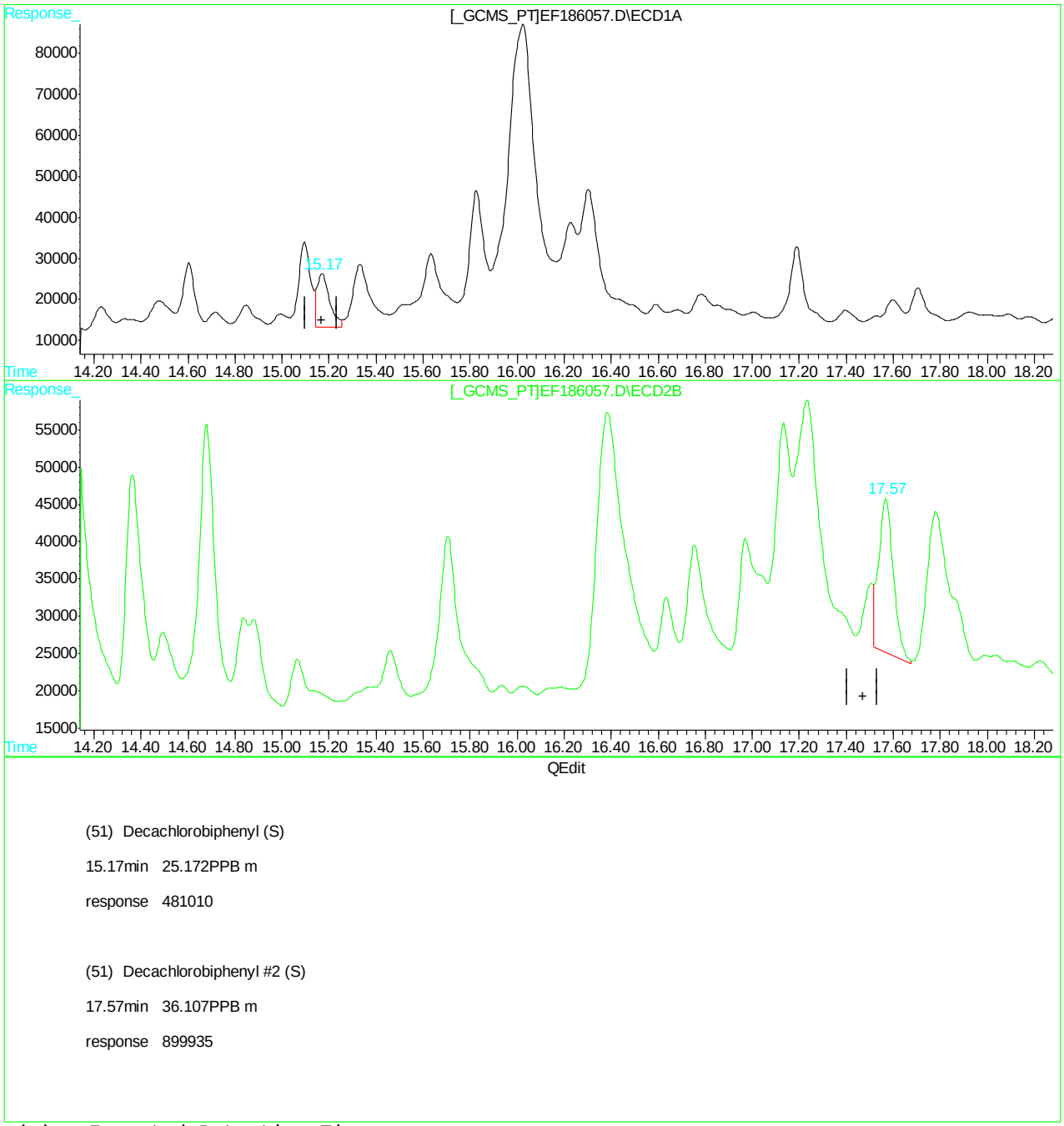
response 0

(+) = Expected Retention Time
EF186057.D PCB6325.M Thu Dec 06 08:45:41 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD1A.CH Vial: 29
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186057.D\ECD2B.CH
Acq On : 6 Dec 2018 5:18 am Operator: tianweir
Sample : jc78619-2 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:44 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

15.17min 25.172PPB m

response 481010

(51) Decachlorobiphenyl #2 (S)

17.57min 36.107PPB m

response 899935

(+) = Expected Retention Time
EF186057.D PCB6325.M Thu Dec 06 08:45:53 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:34

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD2B.CH
Acq On : 6 Dec 2018 3:14 am Operator: tianweir
Sample : op17101-mb1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:53 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.70	4.32	565299	766662	40.444	43.571
	Spiked Amount 40.000			Recovery =		101.11%	108.93%
51)	S Decachlorobiphen	15.17	17.48	790753	985007	41.382m	39.520m
	Spiked Amount 40.000			Recovery =		103.45%	98.80%
	Target Compounds						

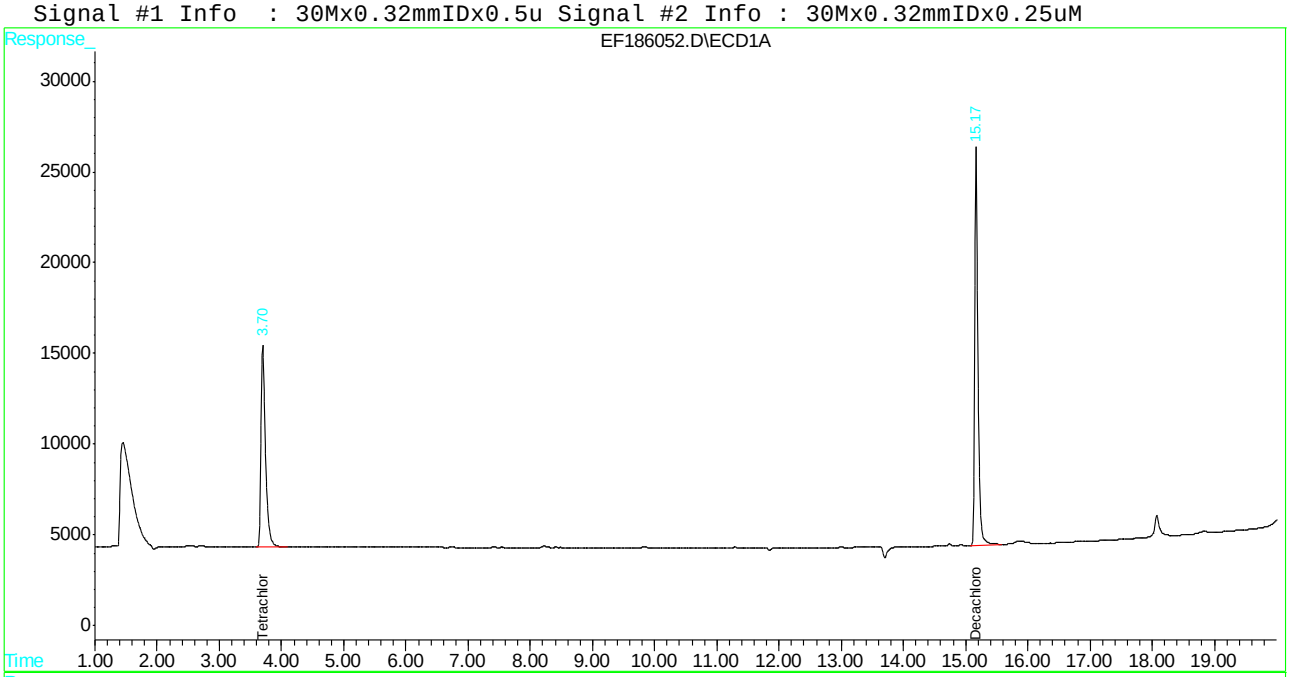
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186052.D PCB6325.M Thu Dec 06 11:13:39 2018 GCEF Page 1

Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD2B.CH
Acq On : 6 Dec 2018 3:14 am Operator: tianweir
Sample : op17101-mb1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:53 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

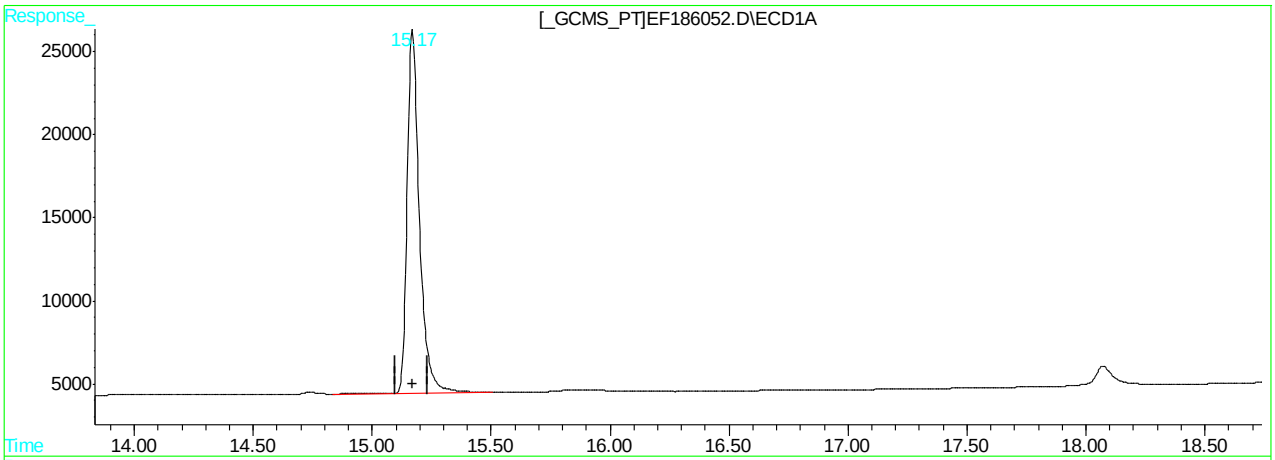
Sample Number:	OP17101-MB1	**Method:**	SW846 8082A
Lab FileID:	EF186052.D	**Analyst approved:**	12/06/18 08:58 Tianwei Ruan
Injection Time:	12/06/18 03:14	**Supervisor approved:**	12/06/18 11:34 Gwendolyn Burns

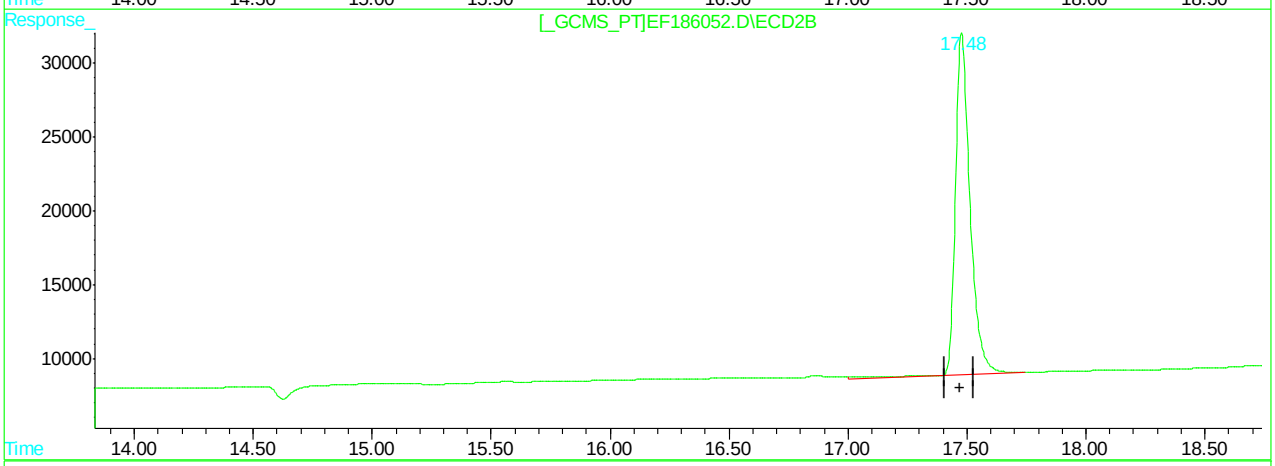
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	1	15.17	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	17.48	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD2B.CH
Acq On : 6 Dec 2018 3:14 am Operator: tianweir
Sample : op17101-mb1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:53 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.17min 41.048PPB

response 784383

(51) Decachlorobiphenyl #2 (S)

17.48min 40.127PPB

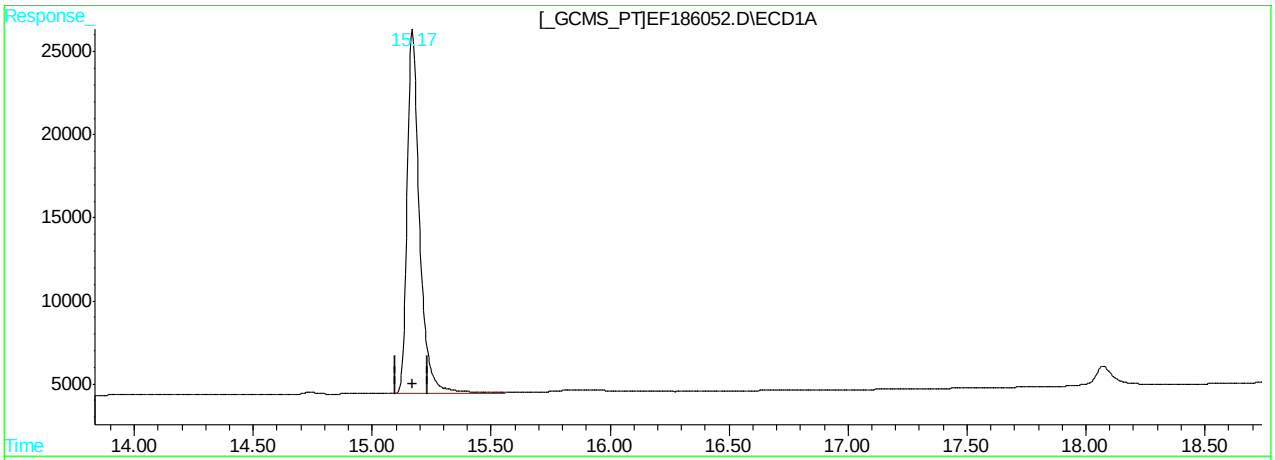
response 1000123

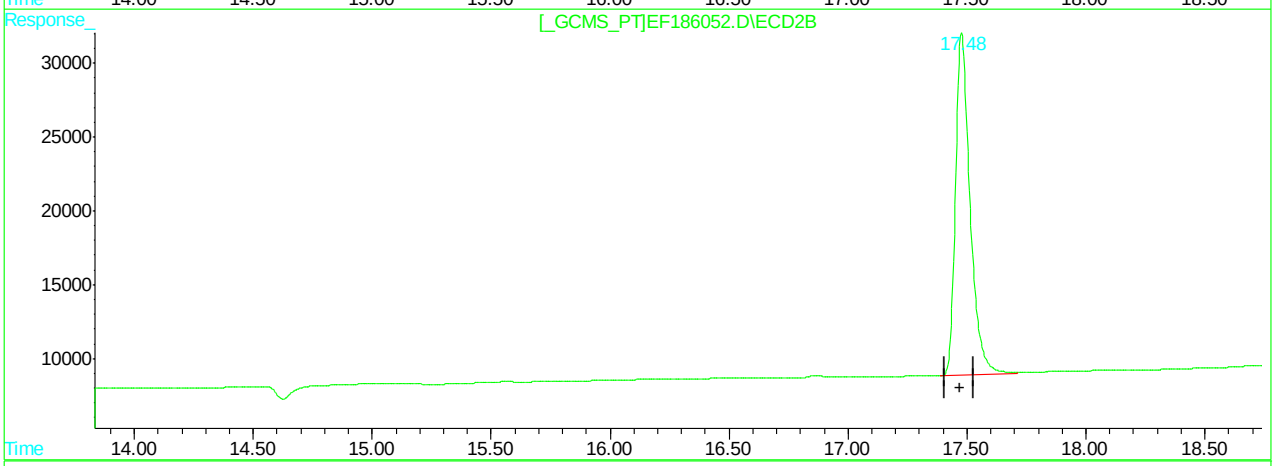
(+) = Expected Retention Time
EF186052.D PCB6325.M Thu Dec 06 08:53:53 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD1A.CH Vial: 24
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186052.D\ECD2B.CH
Acq On : 6 Dec 2018 3:14 am Operator: tianweir
Sample : op17101-mb1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:53 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.17min 41.382PPB m

response 790753

(51) Decachlorobiphenyl #2 (S)

17.48min 39.520PPB m

response 985007

(+) = Expected Retention Time
EF186052.D PCB6325.M Thu Dec 06 08:53:59 2018 GCEF

9.2.13.3

9

EF186052.D edits: Decachlorobiphenyl

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:34

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD2B.CH
Acq On : 6 Dec 2018 3:39 am Operator: tianweir
Sample : op17101-bs1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:36 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.70	4.32	553193	761246	39.578	43.263
	Spiked Amount 40.000			Recovery =		98.95%	108.16%
51) S	Decachlorobiphen	15.17	17.48	766578	982775	40.117	39.431m
	Spiked Amount 40.000			Recovery =		100.29%	98.58%
	Target Compounds						
41)	AR1016-A	4.27	5.27	88787	106217	240.823	258.575
42)	AR1016-B	4.89	6.10	157648	204156	244.231	247.883
43)	AR1016-C	5.73	7.04	280073	409555	211.545	246.321
44)	AR1016-D	5.99	7.33	117930	177290	230.526	244.796
45)	AR1016-E	6.80	8.35	124477	124005	227.999	251.649
46)	AR1260-A	10.57	12.47	274880	408761	211.474	207.611
47)	AR1260-B	10.83	12.67	169130	251155	267.023	223.539
48)	AR1260-C	11.37	13.36	174466	249630	271.920	231.689
49)	AR1260-D	12.06	13.92	410110	597486	260.687	234.147
50)	AR1260-E	12.69	14.78	347291	522454	225.327m	203.814m

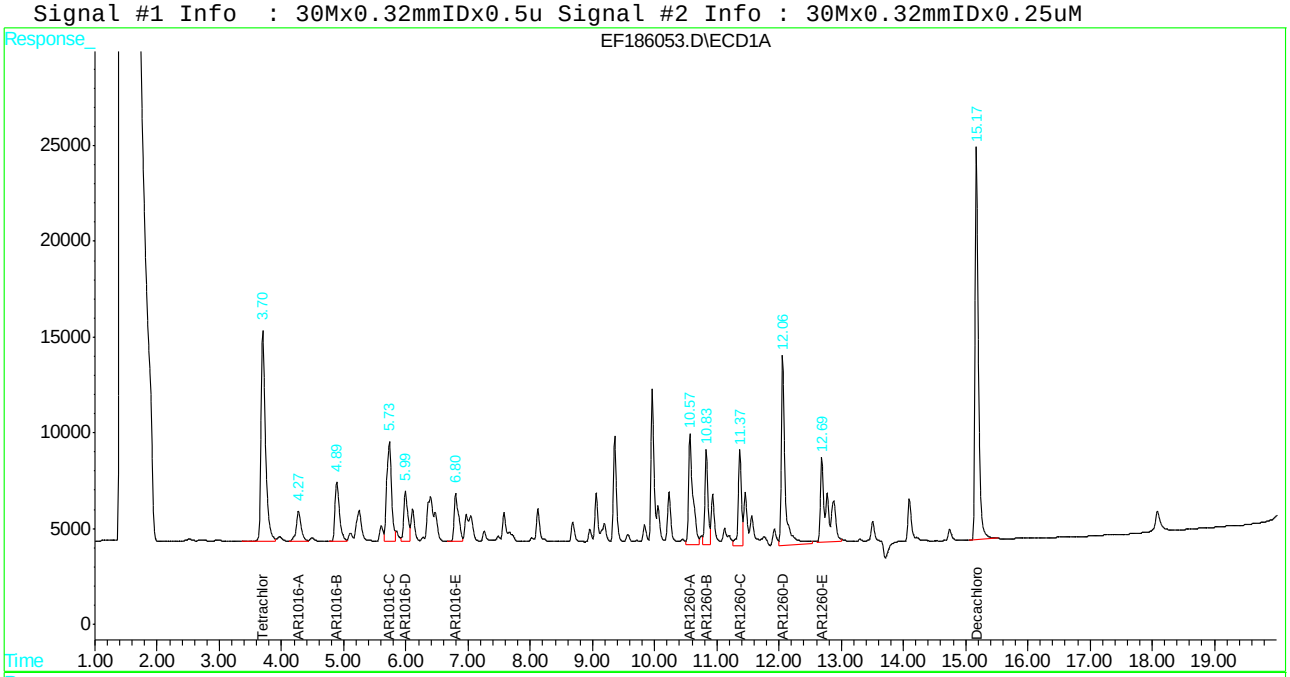
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

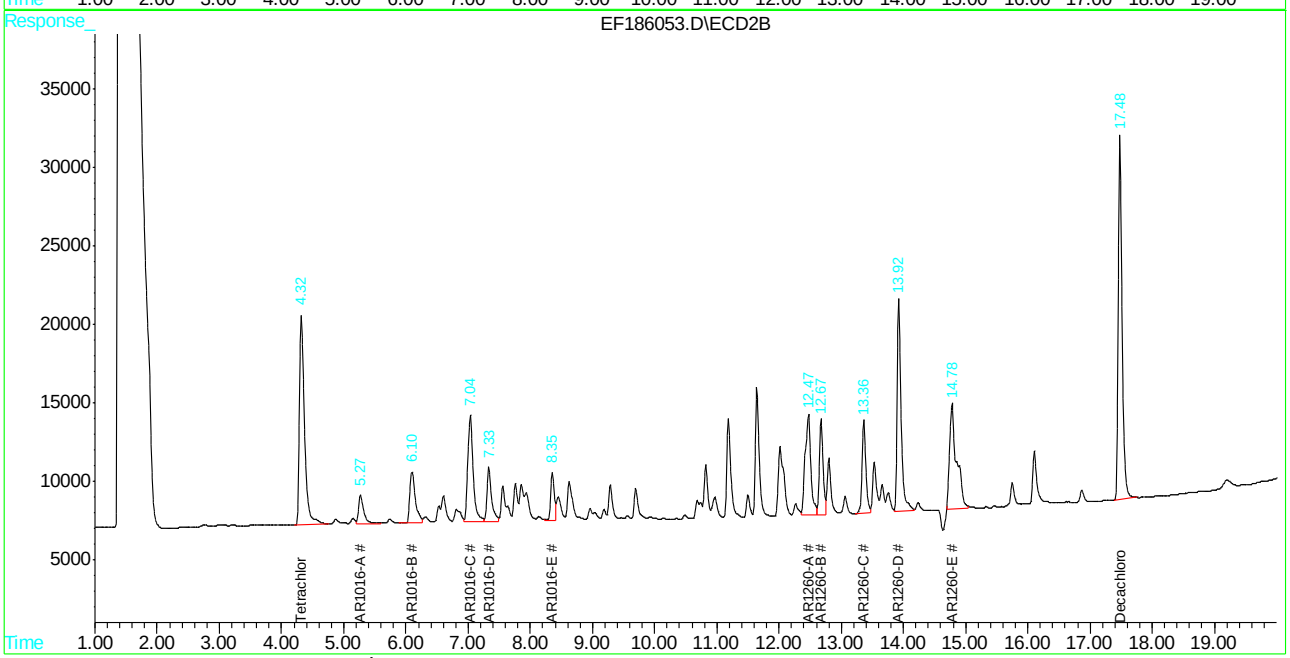
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD2B.CH
Acq On : 6 Dec 2018 3:39 am Operator: tianweir
Sample : op17101-bs1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:36 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

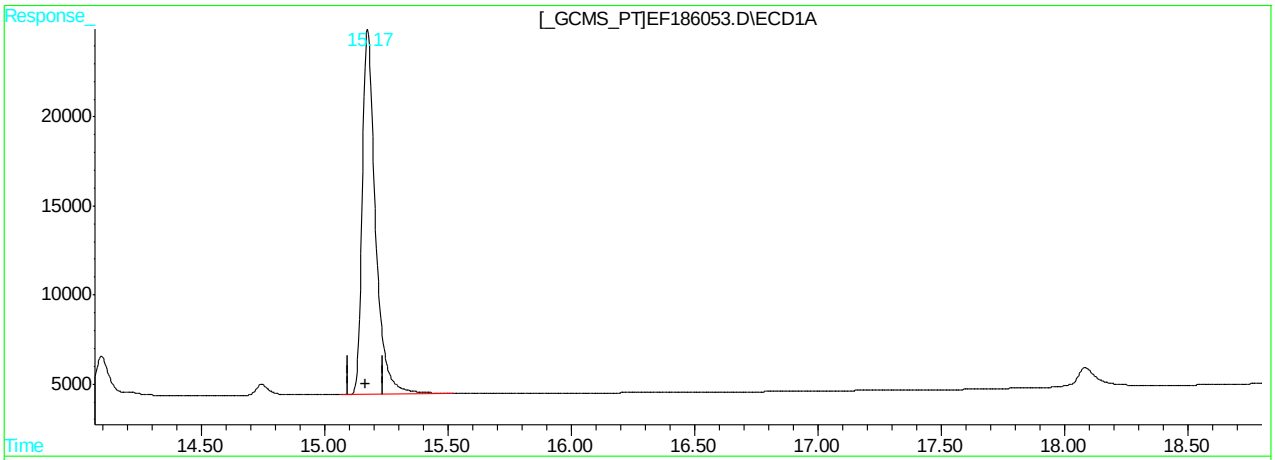
Sample Number: OP17101-BS1
Lab FileID: EF186053.D
Injection Time: 12/06/18 03:39
Method: SW846 8082A
Analyst approved: 12/06/18 08:55 Tianwei Ruan
Supervisor approved: 12/06/18 11:34 Gwendolyn Burns

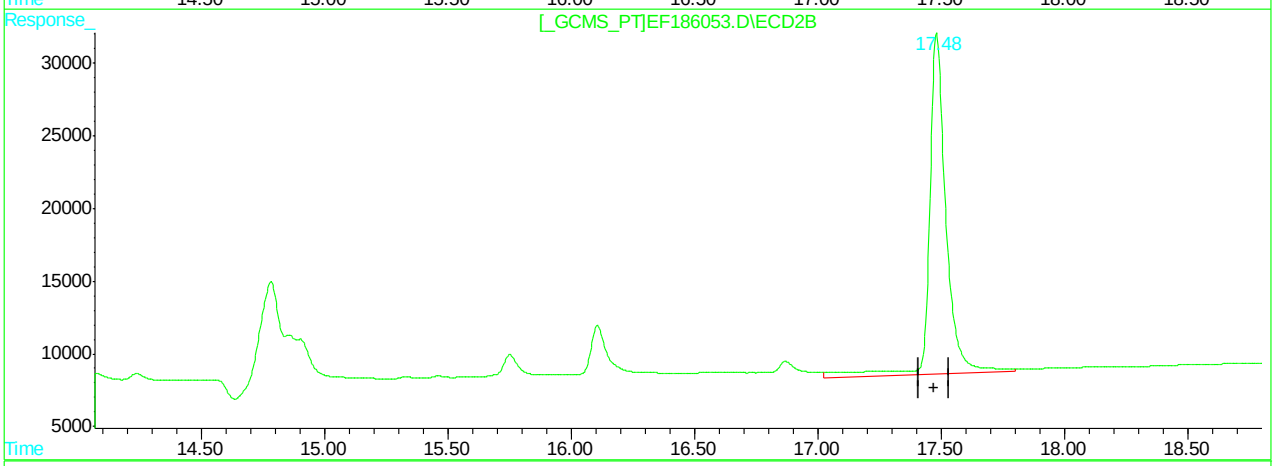
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.69	Split peak
AR1260-E		2	14.78	Split peak
Decachlorobiphenyl	2051-24-3	2	17.48	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD2B.CH
Acq On : 6 Dec 2018 3:39 am Operator: tianweir
Sample : op17101-bs1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:36 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.17min 40.117PPB

response 766578

(51) Decachlorobiphenyl #2 (S)

17.48min 44.826PPB

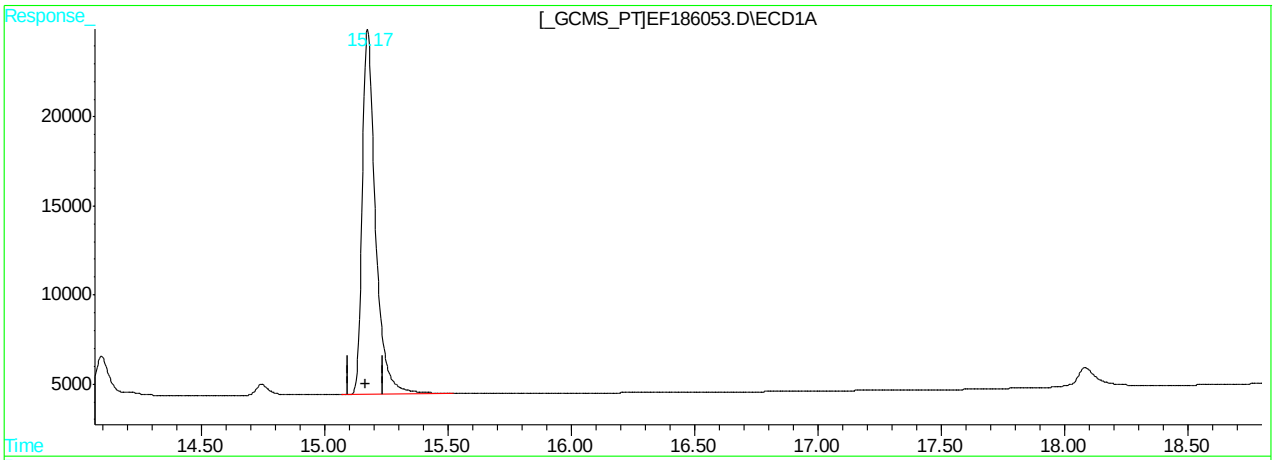
response 1117240

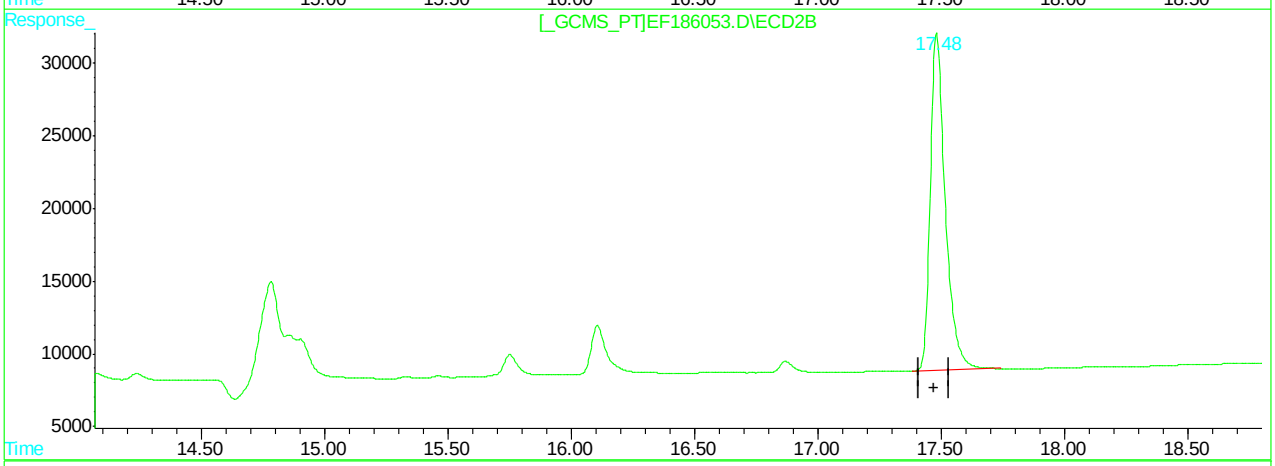
(+) = Expected Retention Time
EF186053.D PCB6325.M Thu Dec 06 08:36:28 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD2B.CH
Acq On : 6 Dec 2018 3:39 am Operator: tianweir
Sample : op17101-bs1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:36 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.17min 40.117PPB

response 766578

(51) Decachlorobiphenyl #2 (S)

17.48min 39.431PPB m

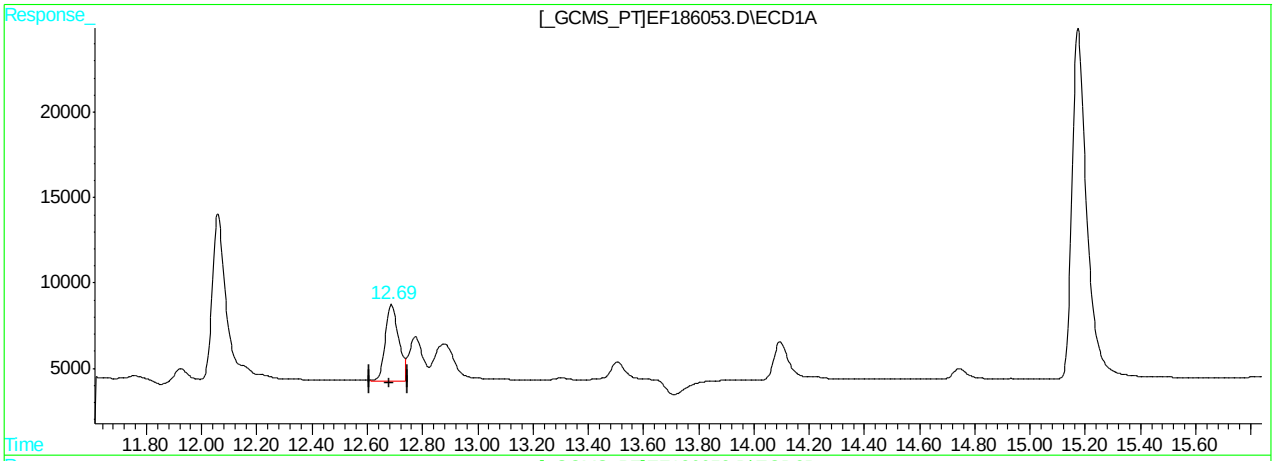
response 982775

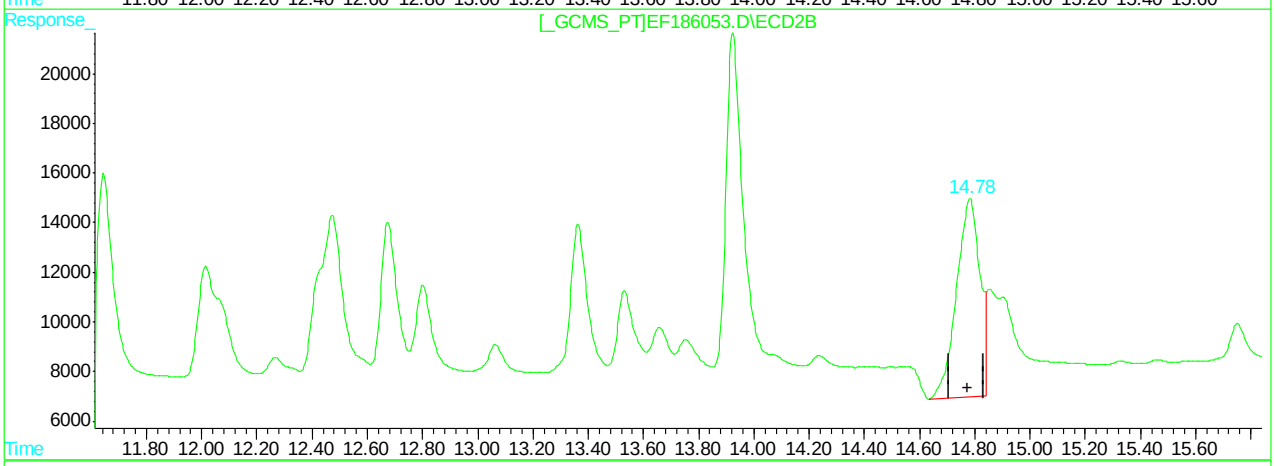
(+) = Expected Retention Time
EF186053.D PCB6325.M Thu Dec 06 08:36:34 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD2B.CH
Acq On : 6 Dec 2018 3:39 am Operator: tianweir
Sample : op17101-bs1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:36 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.69min 98.493PPB

response 151805

(50) AR1260-E #2

14.78min 181.512PPB

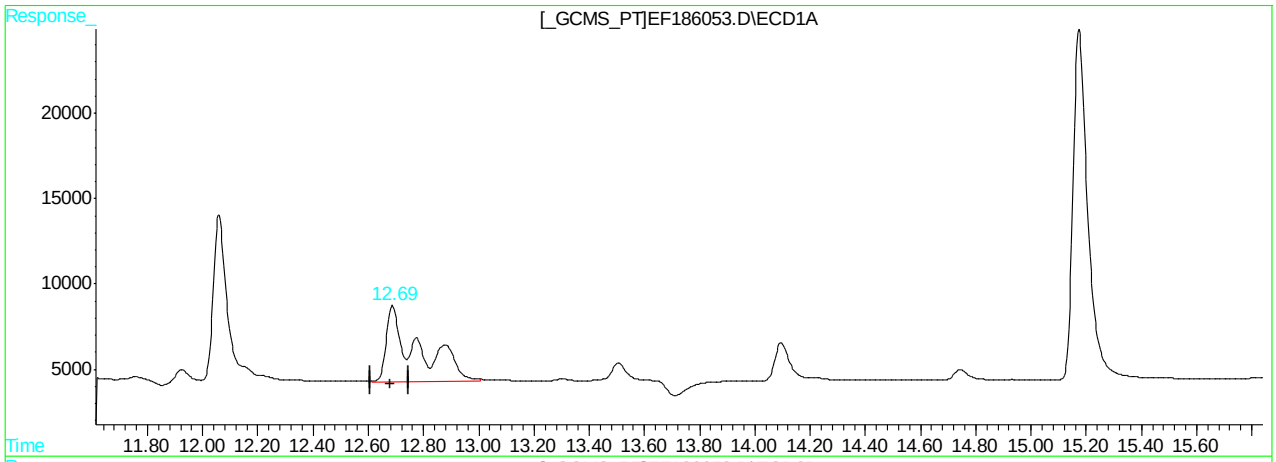
response 465285

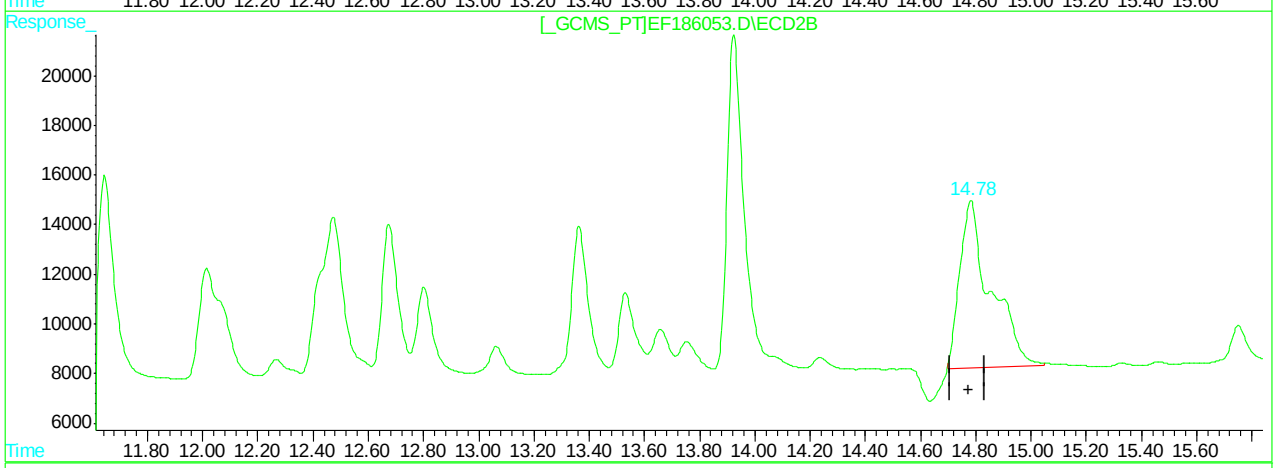
(+) = Expected Retention Time
EF186053.D PCB6325.M Thu Dec 06 08:36:45 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD1A.CH Vial: 25
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186053.D\ECD2B.CH
Acq On : 6 Dec 2018 3:39 am Operator: tianweir
Sample : op17101-bs1 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:36 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.69min 225.327PPB m

response 347291

(50) AR1260-E #2

14.78min 203.814PPB m

response 522454

(+) = Expected Retention Time
EF186053.D PCB6325.M Thu Dec 06 08:36:52 2018 GCEF

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
12/06/18 11:34

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.72	4.33	571775	743512	40.907	42.255
	Spiked Amount 40.000			Recovery =		102.27%	105.64%
51) S	Decachlorobiphen	15.33f	17.58f	588204	909266	30.782m	36.482m
	Spiked Amount 40.000			Recovery =		76.95%	91.20%
	Target Compounds						
41)	AR1016-A	4.29	5.27	88913	159981	241.163	389.458 #
42)	AR1016-B	4.90f	6.11f	161883	207532	250.792	251.982
43)	AR1016-C	5.74f	7.03	295929	254252	223.521	152.916 #
44)	AR1016-D	6.00f	7.34f	114394	167118	223.615	230.751
46)	AR1260-A	10.62f	12.52f	327434	330253	251.905	167.737 #
47)	AR1260-B	10.89f	12.73f	137755	220198	217.487m	195.986m
48)	AR1260-C	11.43f	13.42f	144822	198378	225.717m	184.120m
49)	AR1260-D	12.15f	14.00f	284972	537666	181.143m	210.704m
50)	AR1260-E	12.78f	14.86f	155481	733303	100.878m	286.068m#

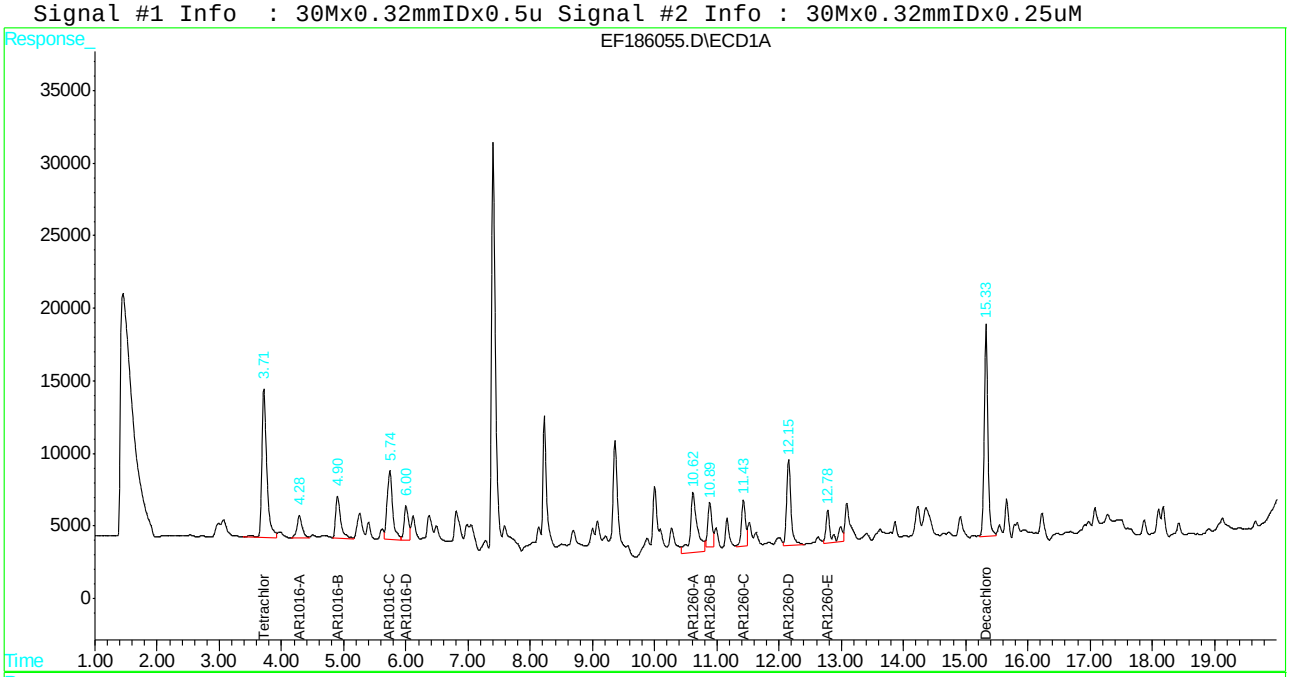
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

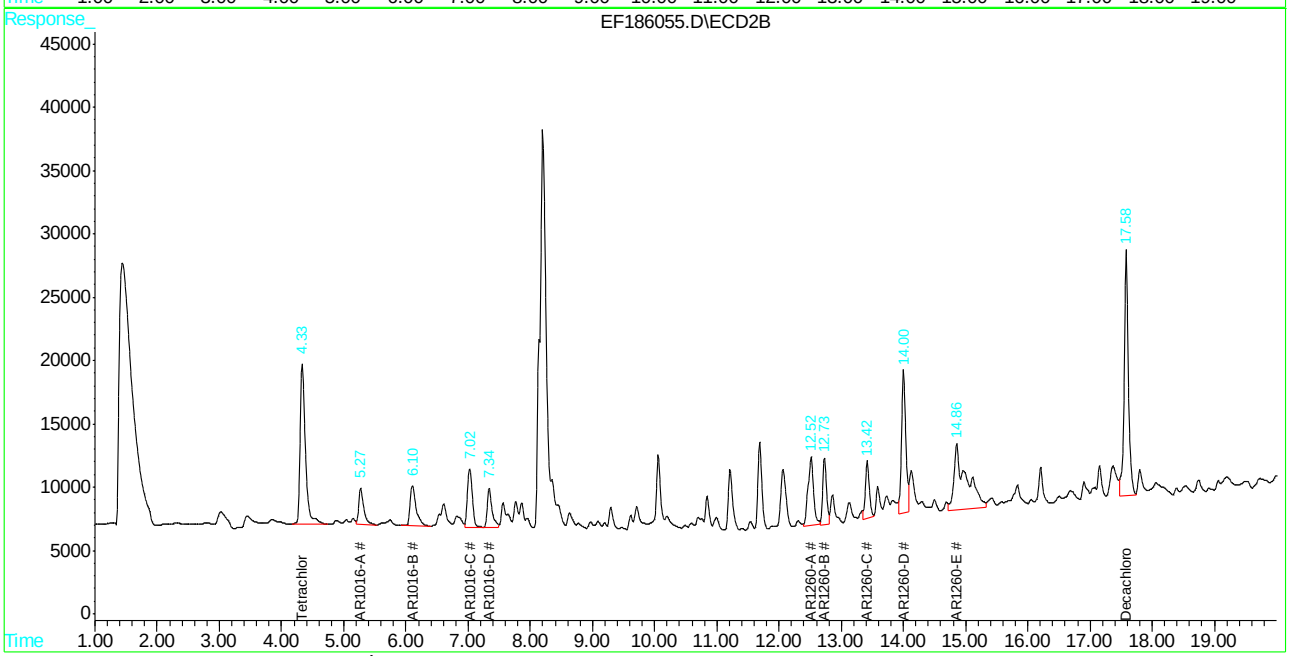
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

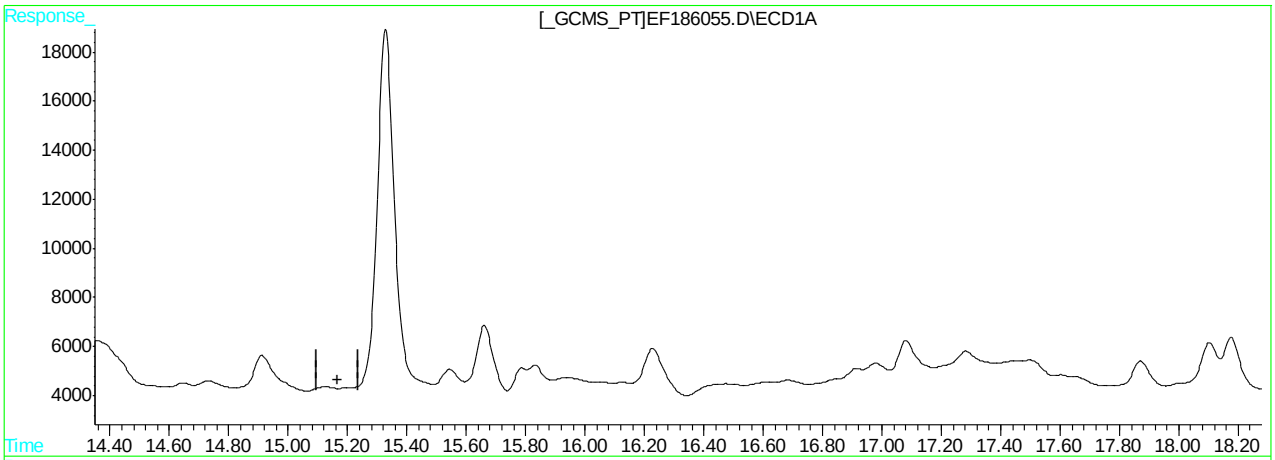
Sample Number: OP17101-MS
Lab FileID: EF186055.D
Injection Time: 12/06/18 04:28
Method: SW846 8082A
Analyst approved: 12/06/18 08:55 Tianwei Ruan
Supervisor approved: 12/06/18 11:34 Gwendolyn Burns

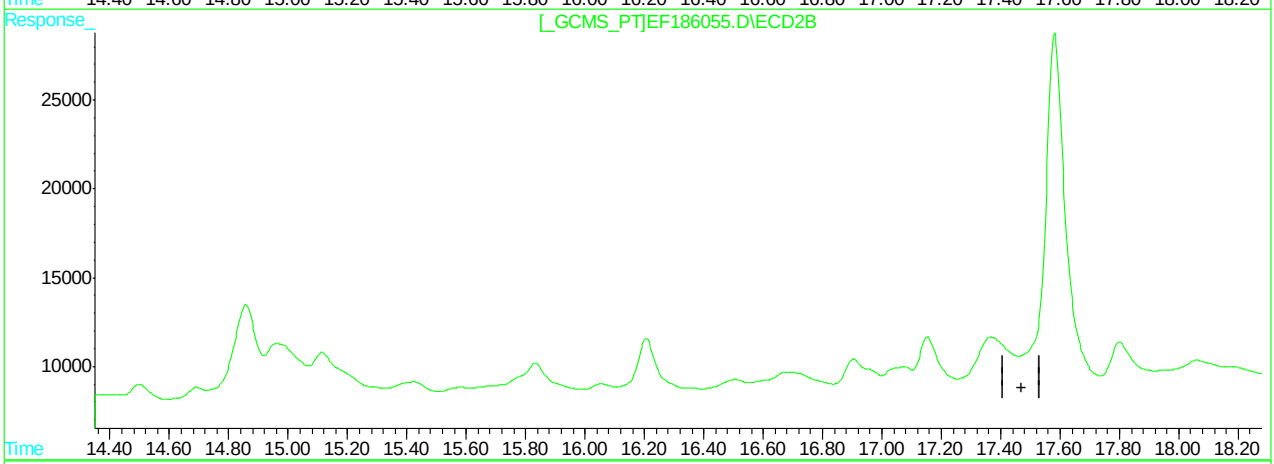
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-B		1	10.89	Split peak
AR1260-C		1	11.43	Split peak
AR1260-D		1	12.15	Split peak
AR1260-B		2	12.73	Split peak
AR1260-E		1	12.78	Split peak
AR1260-C		2	13.42	Split peak
AR1260-D		2	14.00	Split peak
AR1260-E		2	14.86	Split peak
Decachlorobiphenyl	2051-24-3	1	15.33	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	17.58	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

0.00min 0.000PPB

response 0

(51) Decachlorobiphenyl #2 (S)

0.00min 0.000PPB

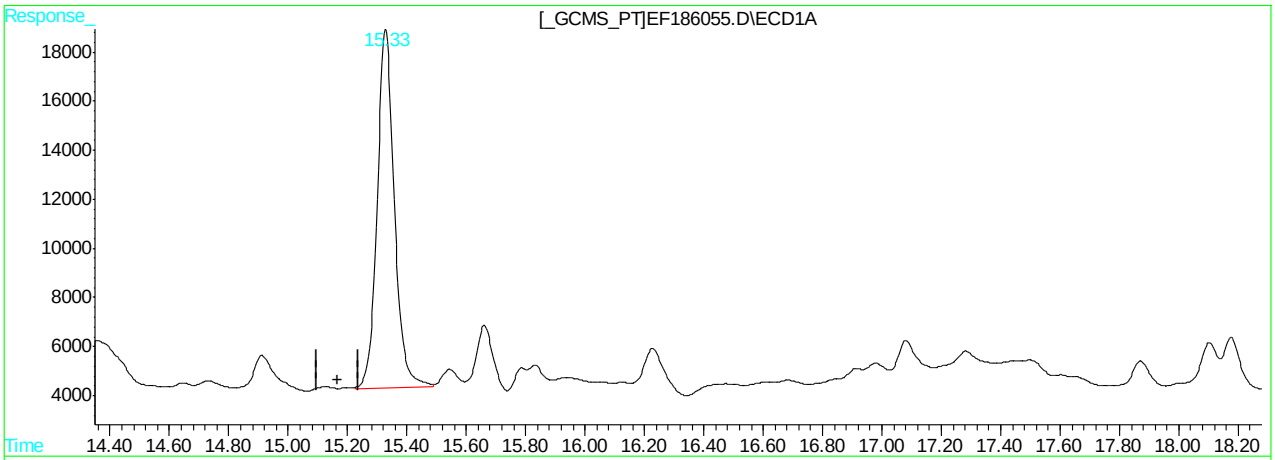
response 0

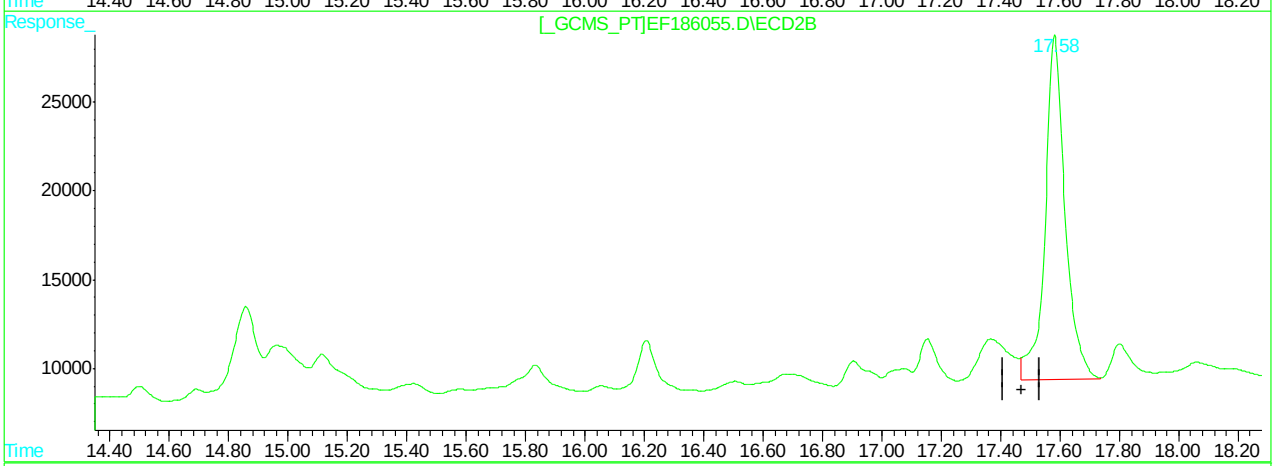
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:41:49 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.33min 30.782PPB m

response 588204

(51) Decachlorobiphenyl #2 (S)

17.58min 36.482PPB m

response 909266

(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:41:58 2018 GCEF

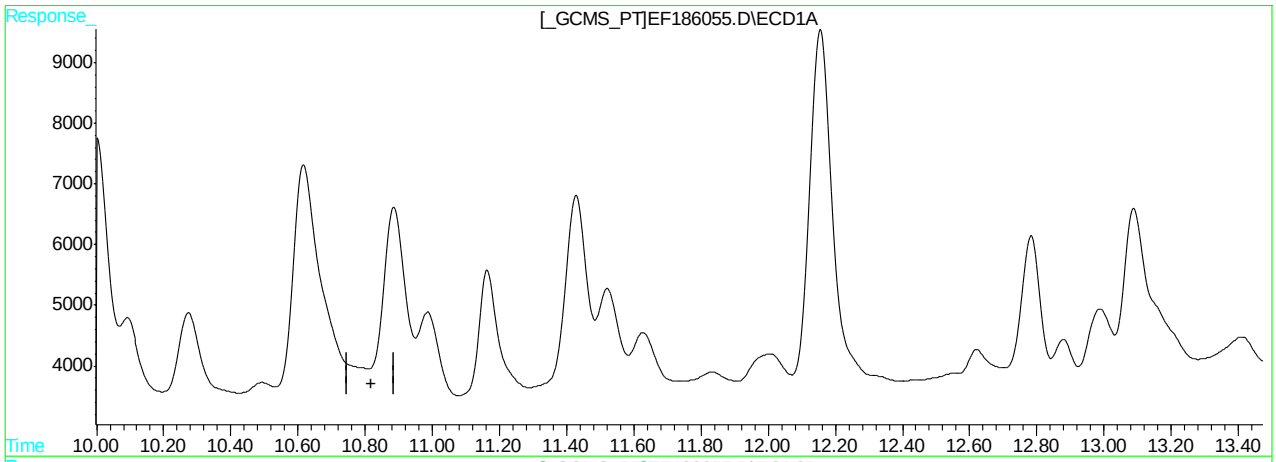
9.4.1.3

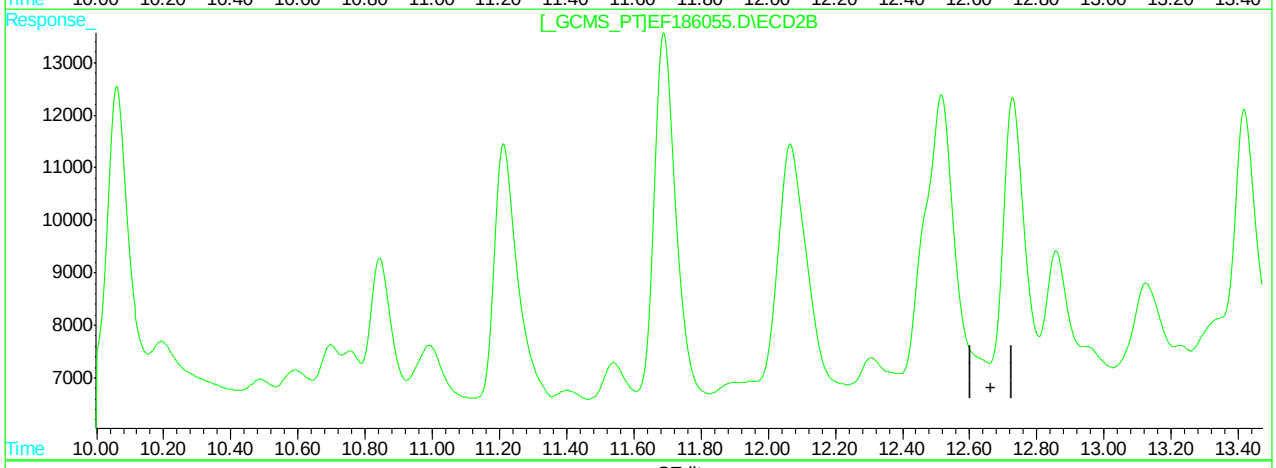
9

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(47) AR1260-B

0.00min 0.000PPB

response 0

(47) AR1260-B #2

0.00min 0.000PPB

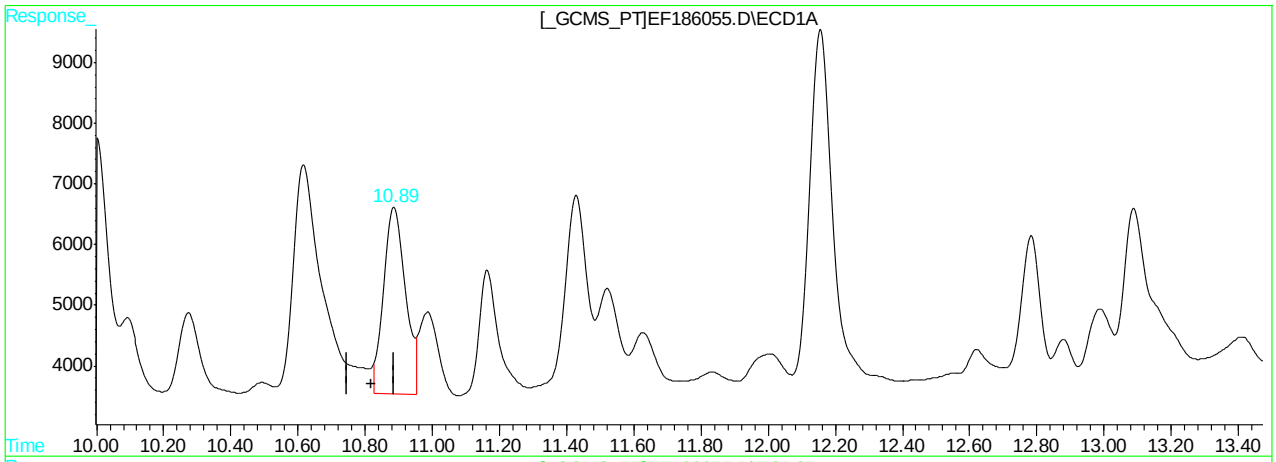
response 0

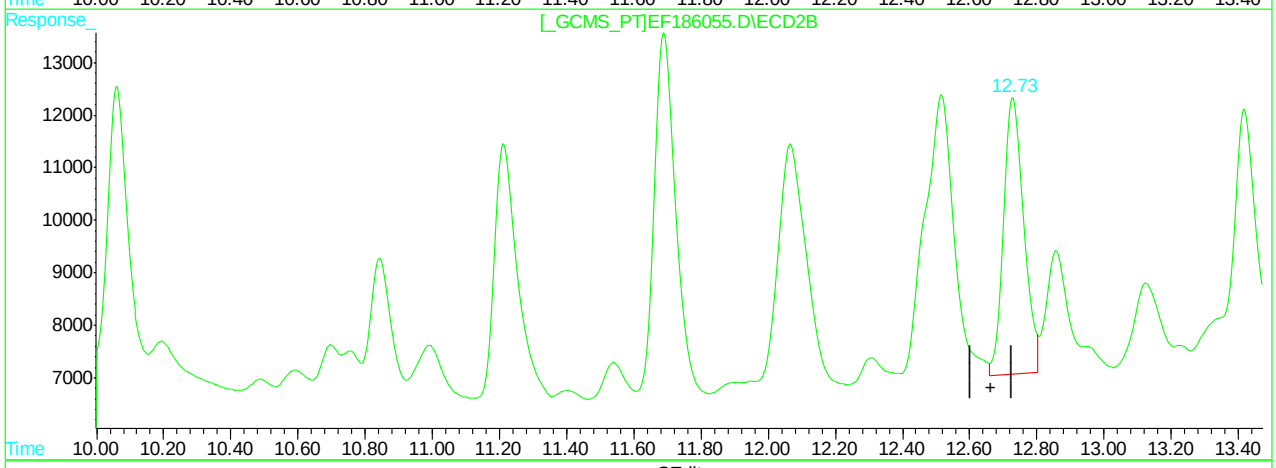
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:42:14 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(47) AR1260-B

10.89min 217.487PPB m

response 137755

(47) AR1260-B #2

12.73min 195.986PPB m

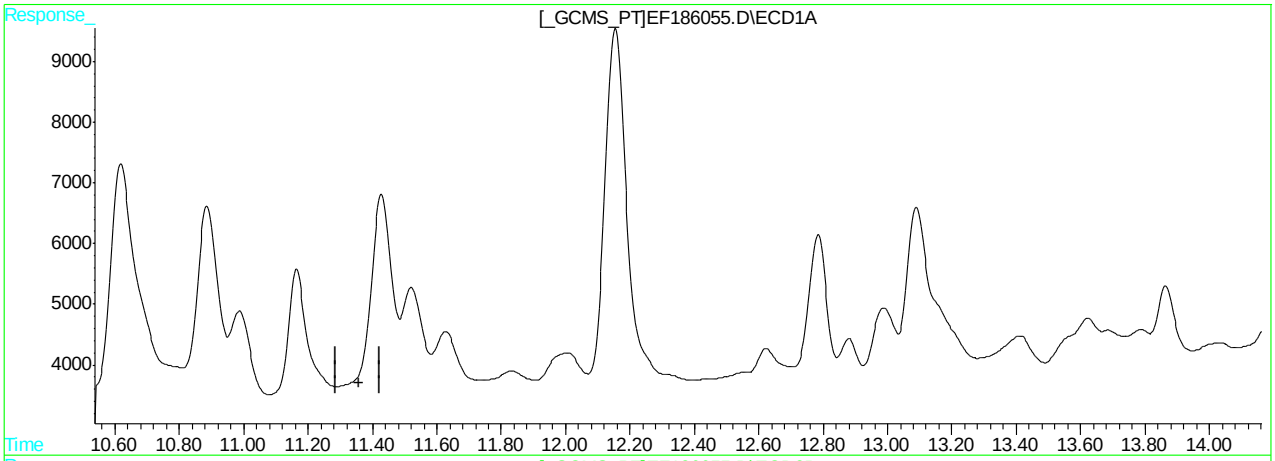
response 220198

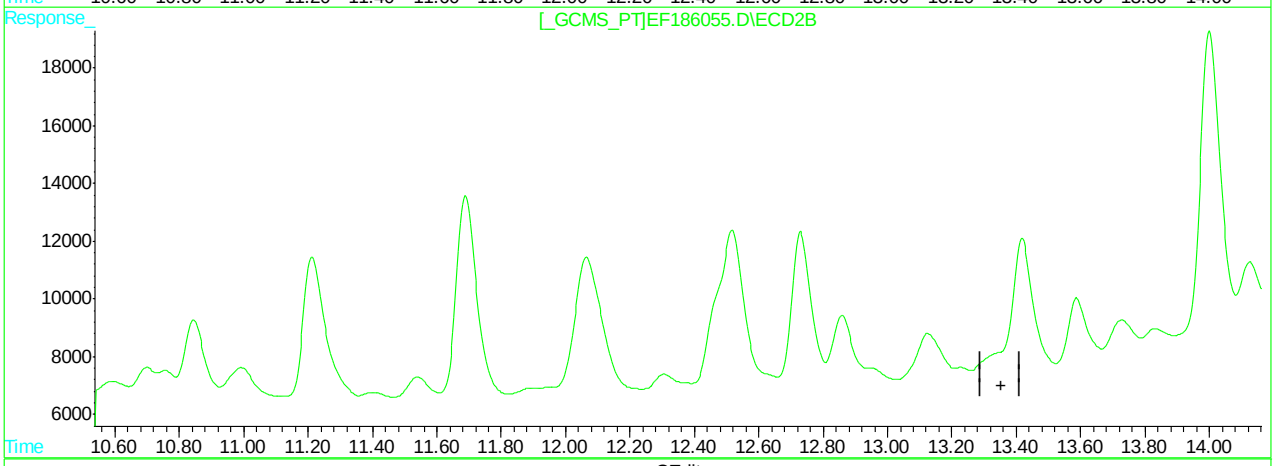
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:42:25 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(48) AR1260-C

0.00min 0.000PPB

response 0

(48) AR1260-C #2

0.00min 0.000PPB

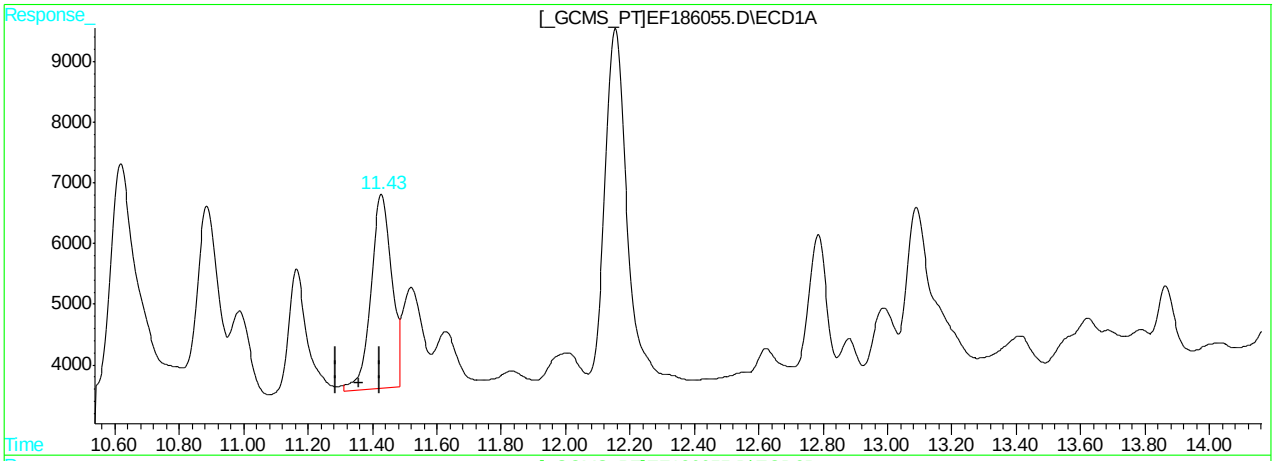
response 0

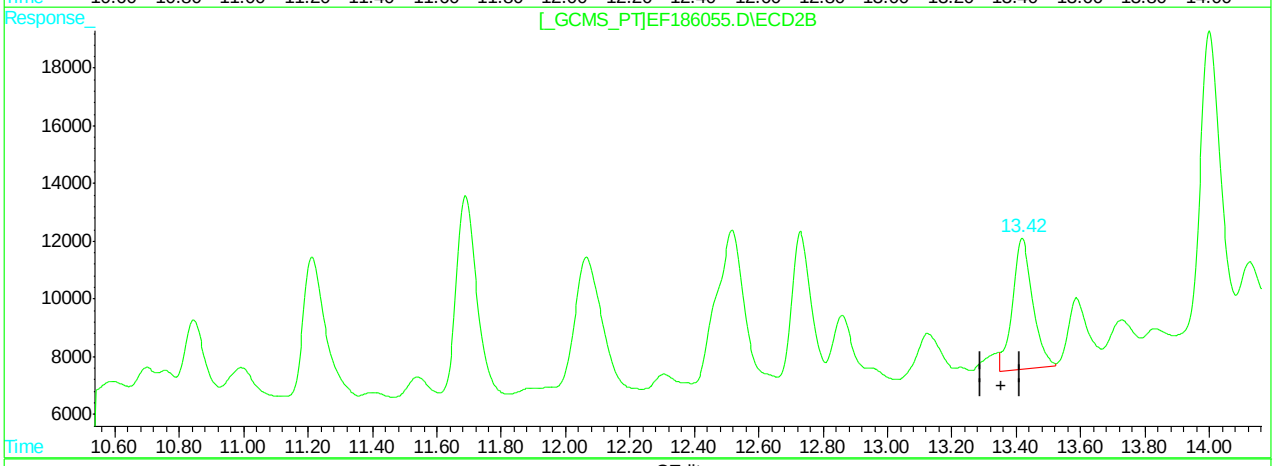
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:42:28 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(48) AR1260-C

11.43min 225.717PPB m

response 144822

(48) AR1260-C #2

13.42min 184.120PPB m

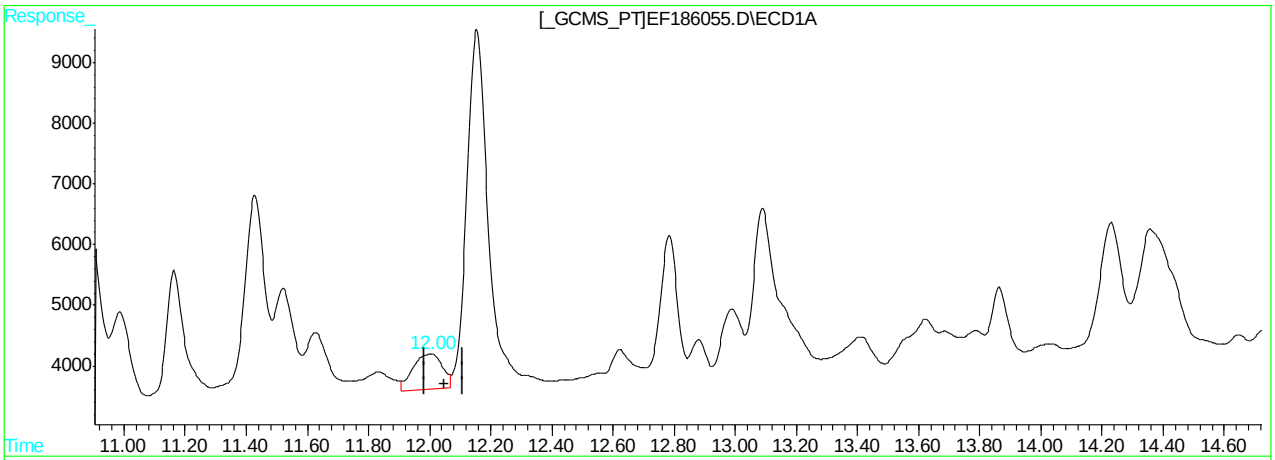
response 198378

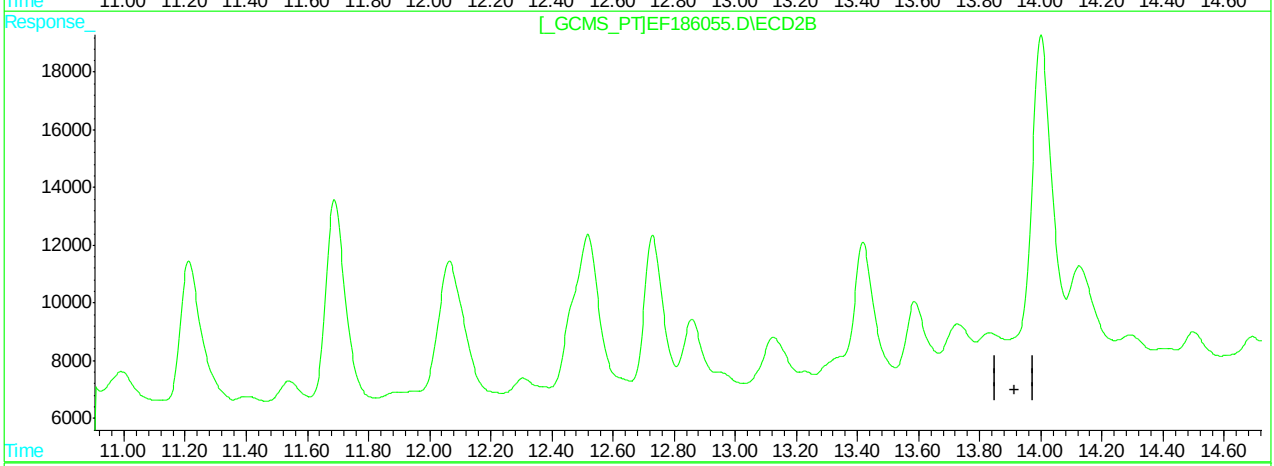
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:42:41 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(49) AR1260-D

12.00min 24.844PPB

response 39084

(49) AR1260-D #2

0.00min 0.000PPB

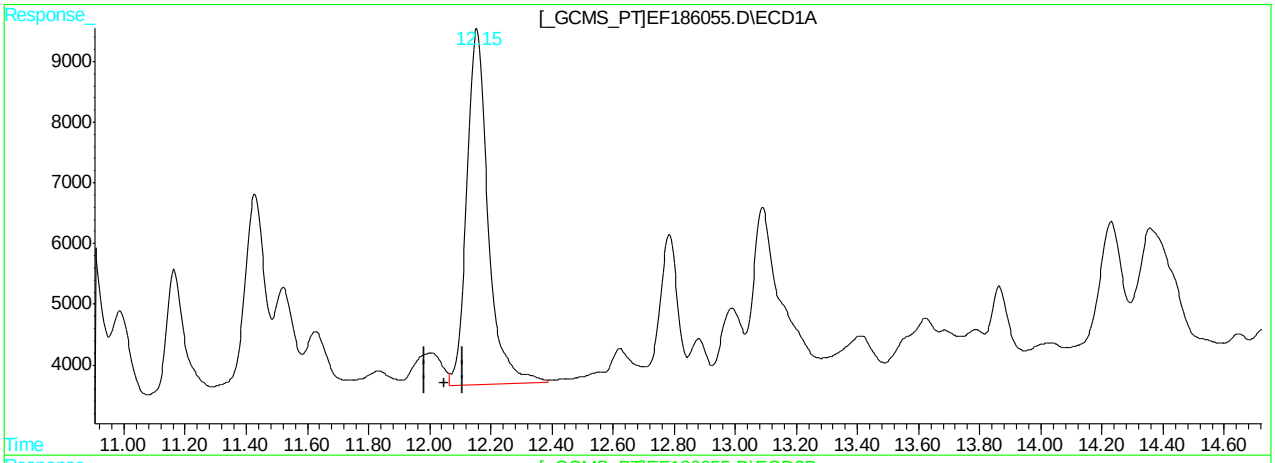
response 0

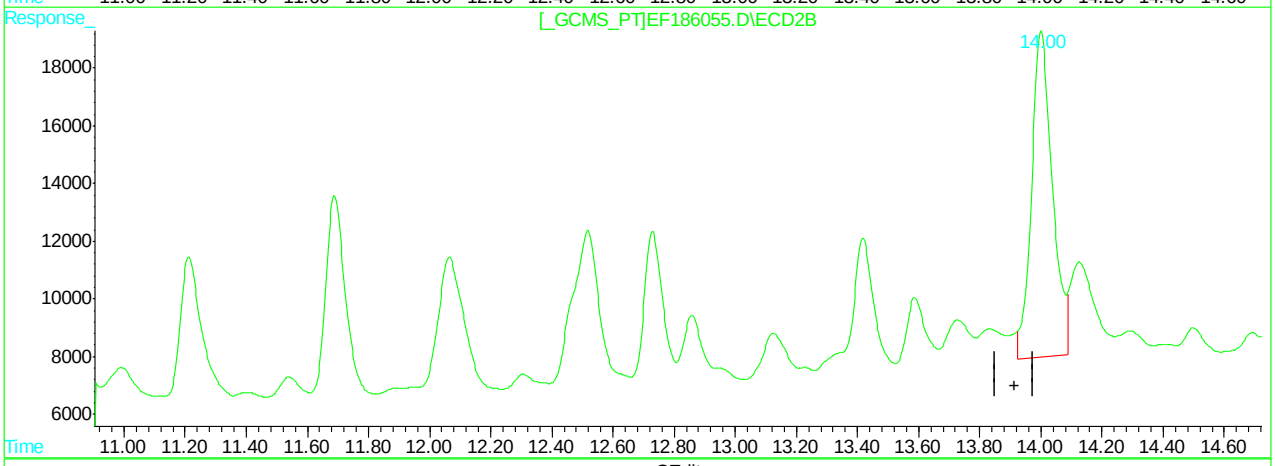
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:42:43 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(49) AR1260-D

12.15min 181.143PPB m

response 284972

(49) AR1260-D #2

14.00min 210.704PPB m

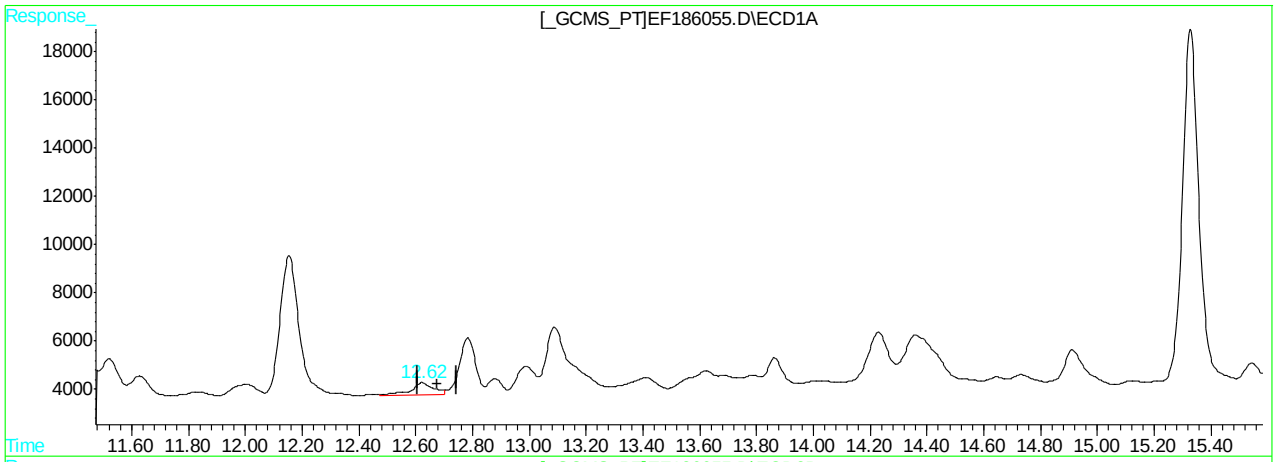
response 537666

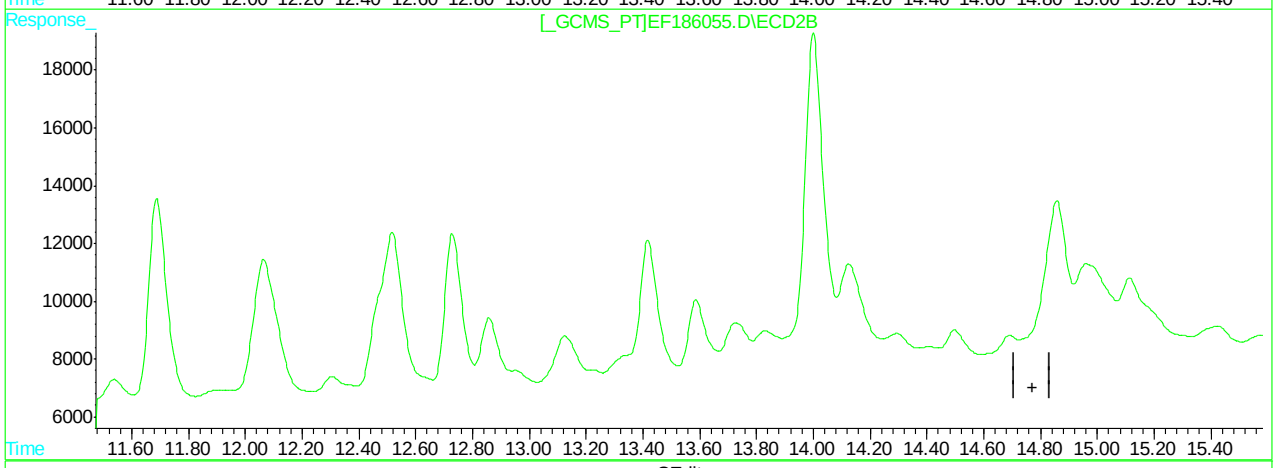
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:42:56 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.62min 18.203PPB

response 28055

(50) AR1260-E #2

0.00min 0.000PPB

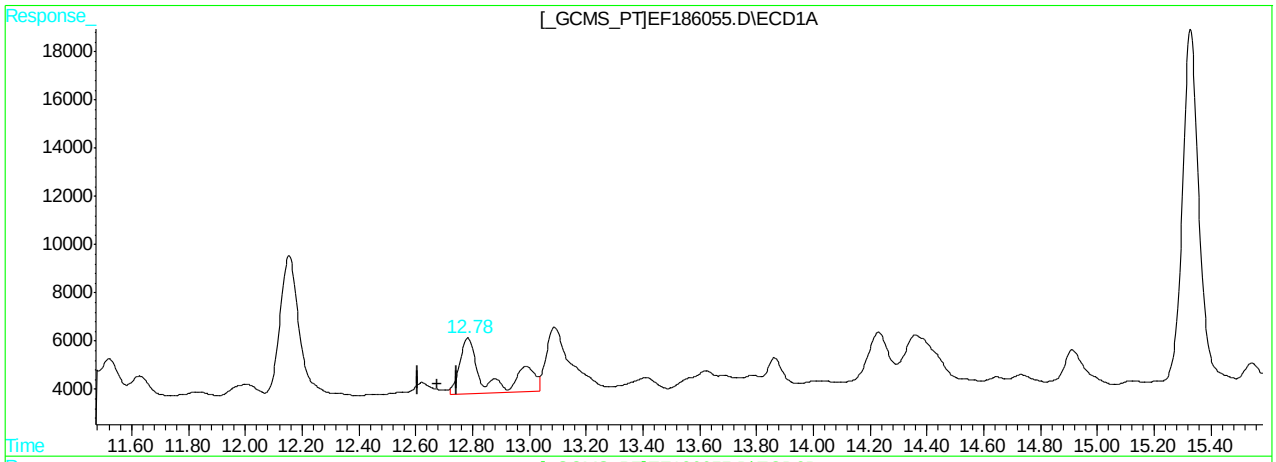
response 0

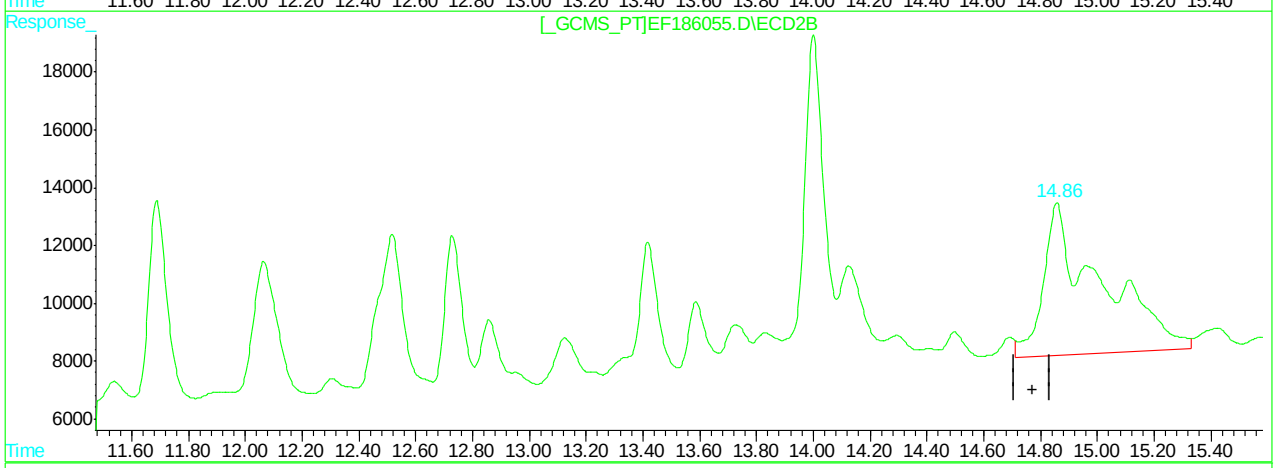
(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:42:59 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD1A.CH Vial: 27
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186055.D\ECD2B.CH
Acq On : 6 Dec 2018 4:28 am Operator: tianweir
Sample : op17101-ms Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:41 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.78min 100.878PPB m

response 155481

(50) AR1260-E #2

14.86min 286.068PPB m

response 733303

(+) = Expected Retention Time
EF186055.D PCB6325.M Thu Dec 06 08:43:08 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:34

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:44 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.71	4.33	503411	674308	36.016	38.322
	Spiked Amount 40.000			Recovery =		90.04%	95.81%
51)	S Decachlorobiphen	15.31f	17.57f	559521	847269	29.281m	33.994m
	Spiked Amount 40.000			Recovery =		73.20%	84.98%
	Target Compounds						
41)	AR1016-A	4.28	5.27	81219	147844	220.296	359.911 #
42)	AR1016-B	4.90f	6.10	145664	189990	225.666	230.683
43)	AR1016-C	5.74	7.02	264360	228398	199.676	137.366 #
44)	AR1016-D	6.00f	7.33	102543	152453	200.449	210.502
46)	AR1260-A	10.61f	12.51f	263153	302831	202.451	153.809
47)	AR1260-B	10.88f	12.72f	138970	203444	219.407	181.074
48)	AR1260-C	11.42f	13.41f	131163	229246	204.429	212.770
49)	AR1260-D	12.14f	13.99f	244635	490712	155.503m	192.304m
50)	AR1260-E	12.77f	14.85f	146312	637086	94.930m	248.533m#

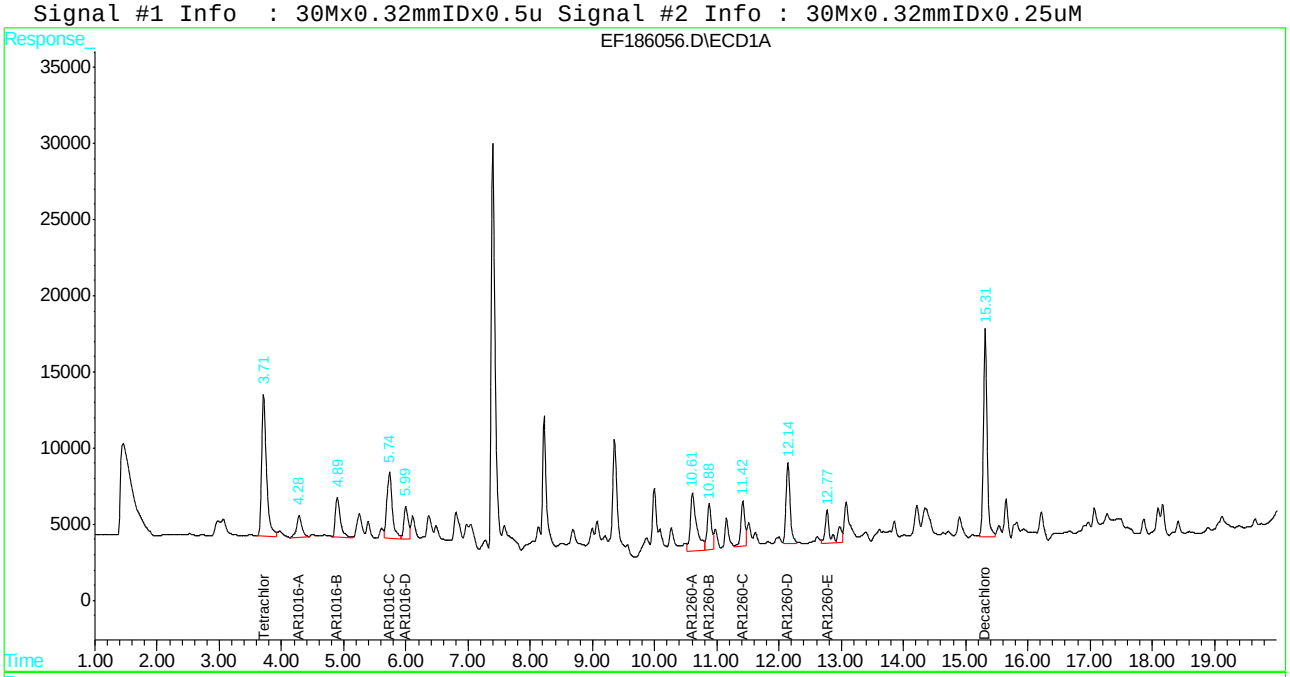
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

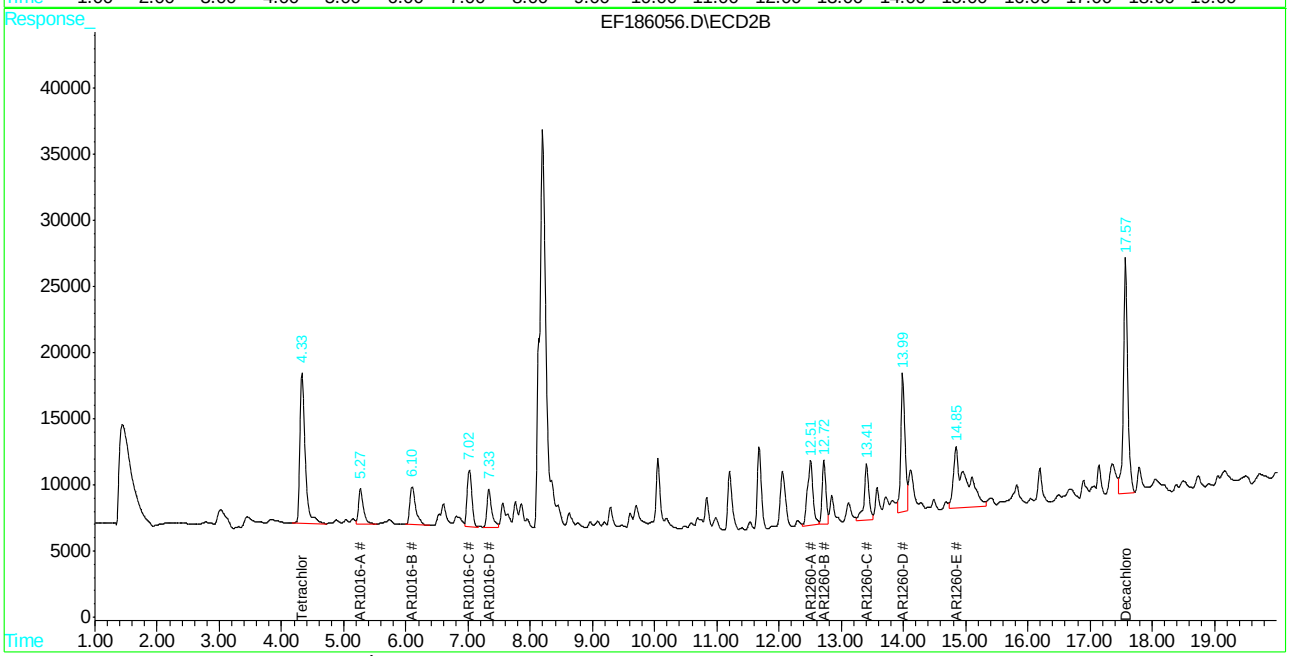
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:44 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

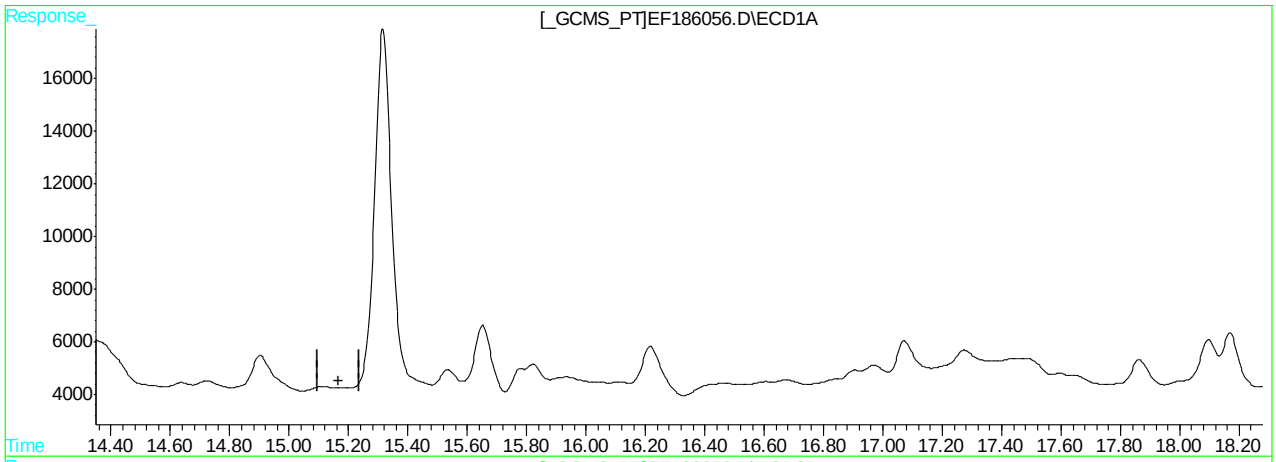
Sample Number: OP17101-MSD
Lab FileID: EF186056.D
Injection Time: 12/06/18 04:53
Method: SW846 8082A
Analyst approved: 12/06/18 08:55 Tianwei Ruan
Supervisor approved: 12/06/18 11:34 Gwendolyn Burns

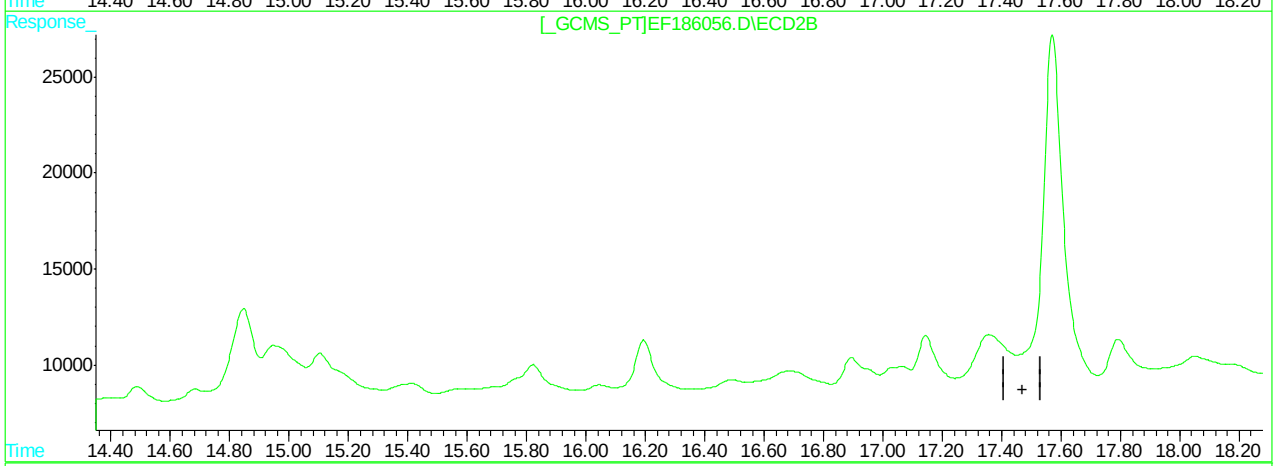
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-D		1	12.14	Split peak
AR1260-E		1	12.77	Split peak
AR1260-D		2	13.99	Split peak
AR1260-E		2	14.85	Split peak
Decachlorobiphenyl	2051-24-3	1	15.31	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	17.57	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

0.00min 0.000PPB

response 0

(51) Decachlorobiphenyl #2 (S)

0.00min 0.000PPB

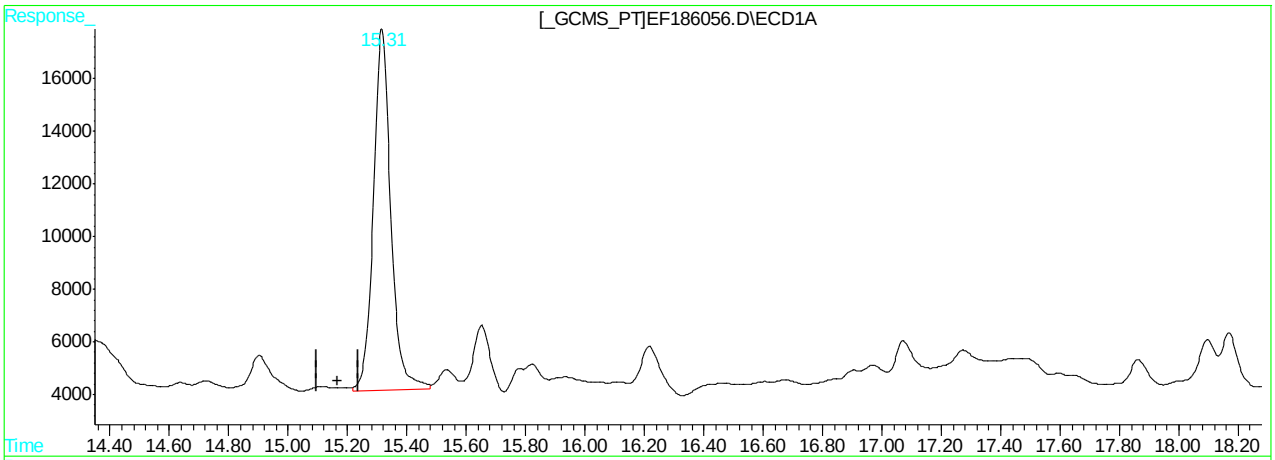
response 0

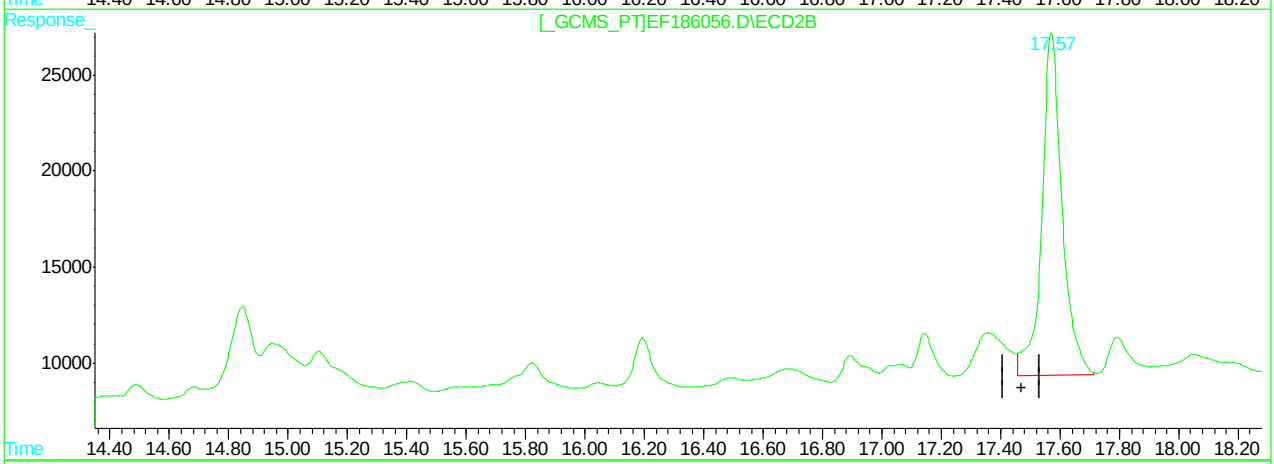
(+) = Expected Retention Time
EF186056.D PCB6325.M Thu Dec 06 08:43:32 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.31min 29.281PPB m

response 559521

(51) Decachlorobiphenyl #2 (S)

17.57min 33.994PPB m

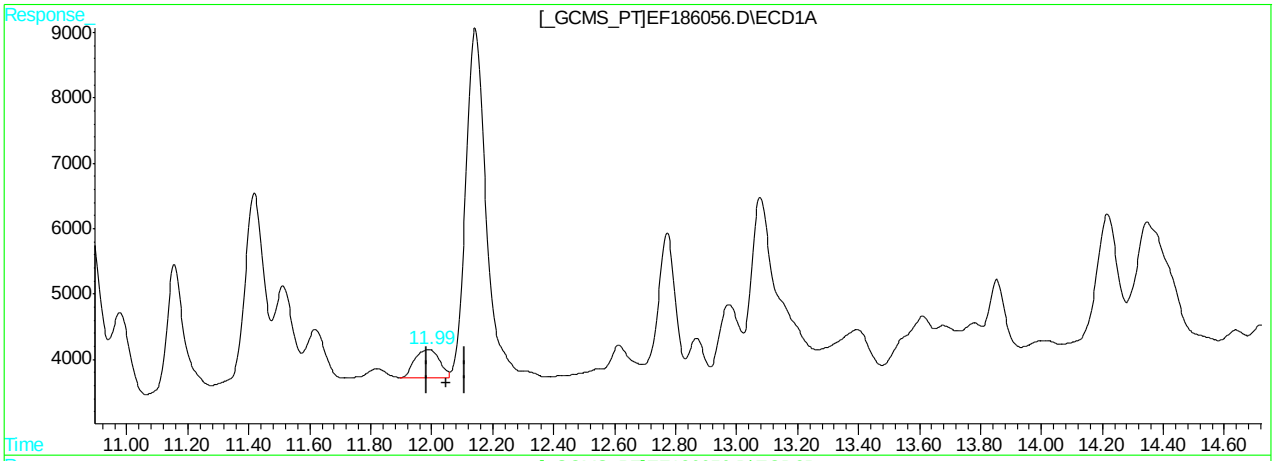
response 847269

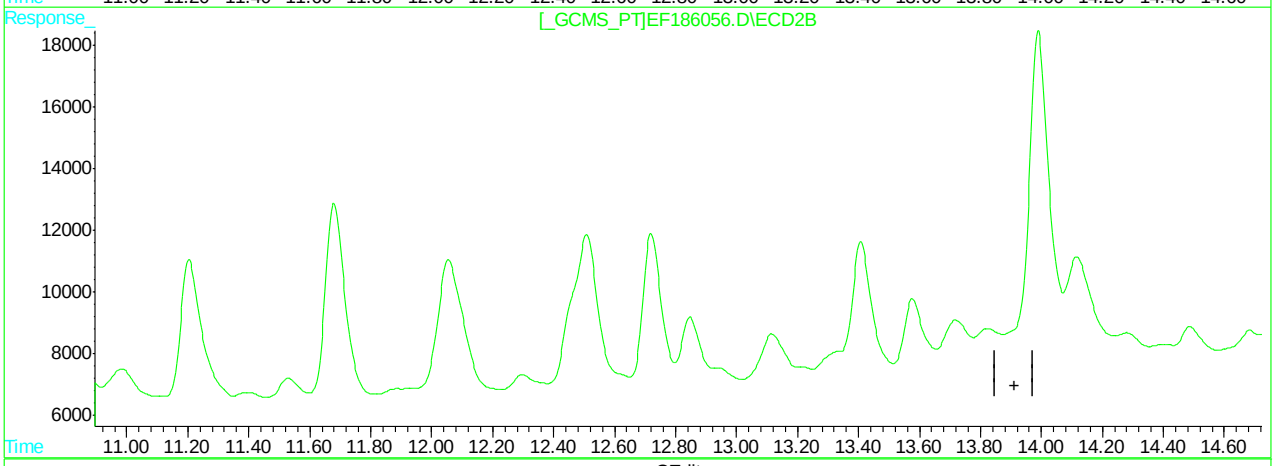
(+) = Expected Retention Time
EF186056.D PCB6325.M Thu Dec 06 08:43:39 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(49) AR1260-D

11.99min 15.407PPB

response 24239

(49) AR1260-D #2

0.00min 0.000PPB

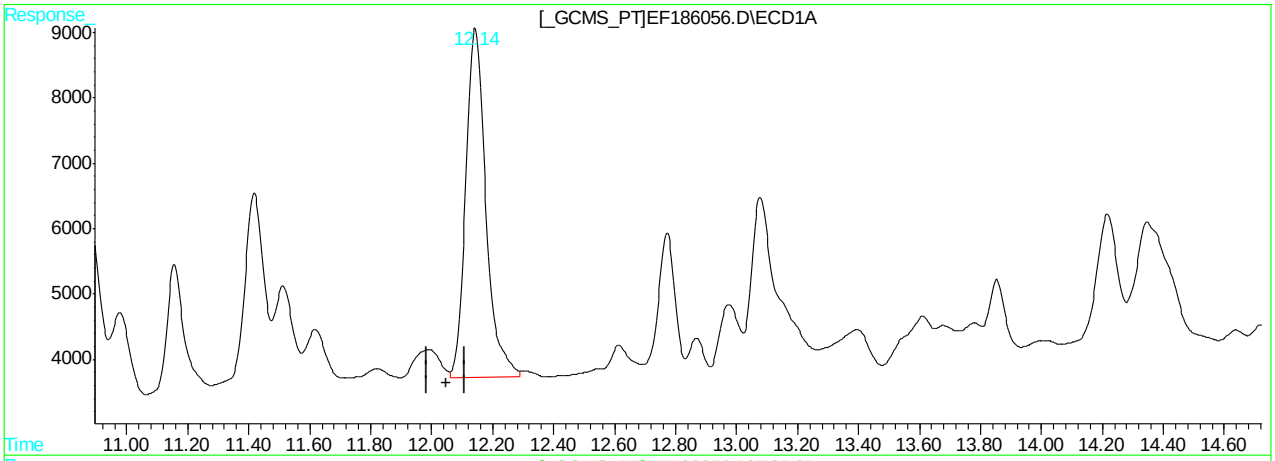
response 0

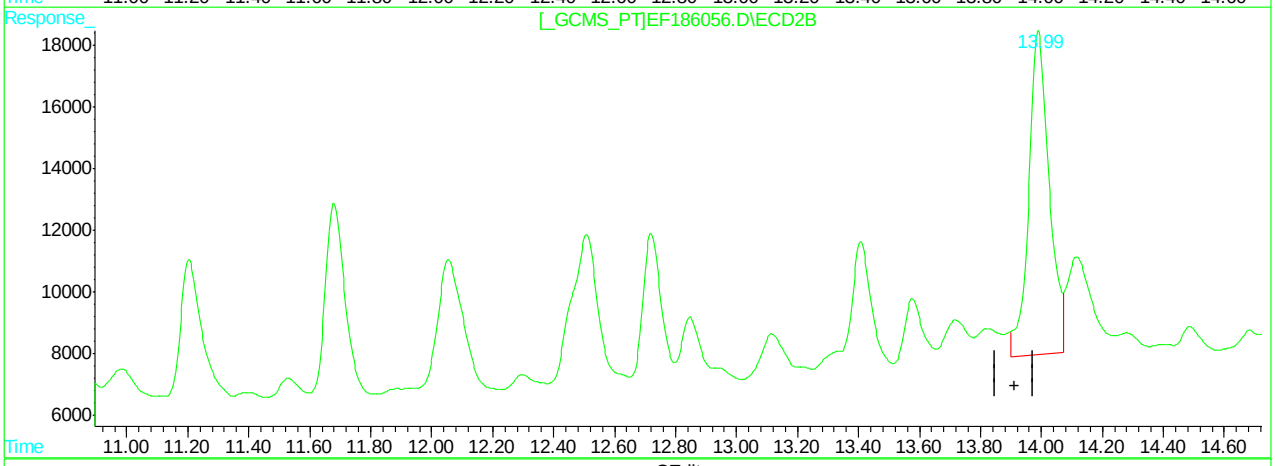
(+) = Expected Retention Time
EF186056.D PCB6325.M Thu Dec 06 08:43:50 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(49) AR1260-D

12.14min 155.503PPB m

response 244635

(49) AR1260-D #2

13.99min 192.304PPB m

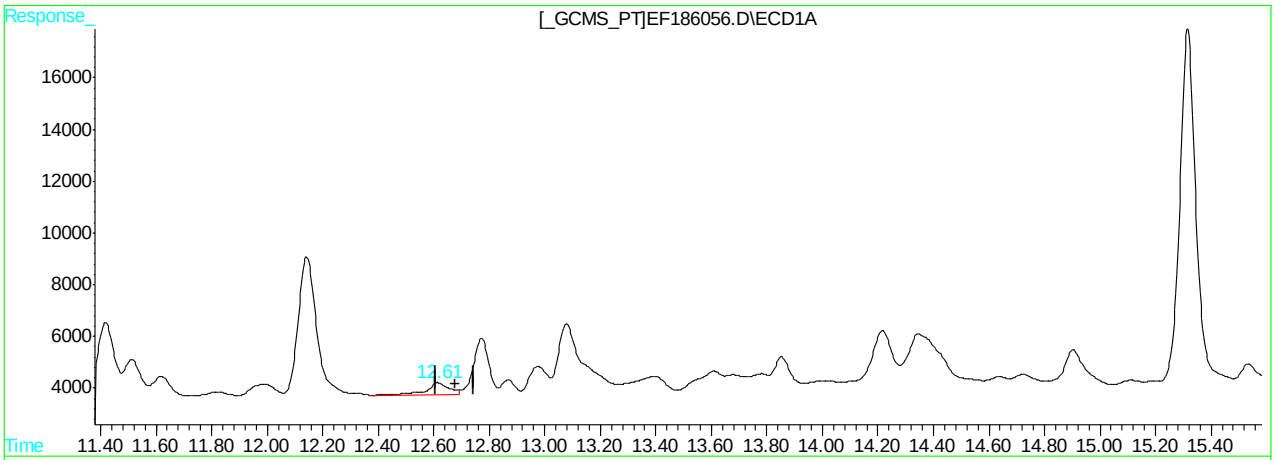
response 490712

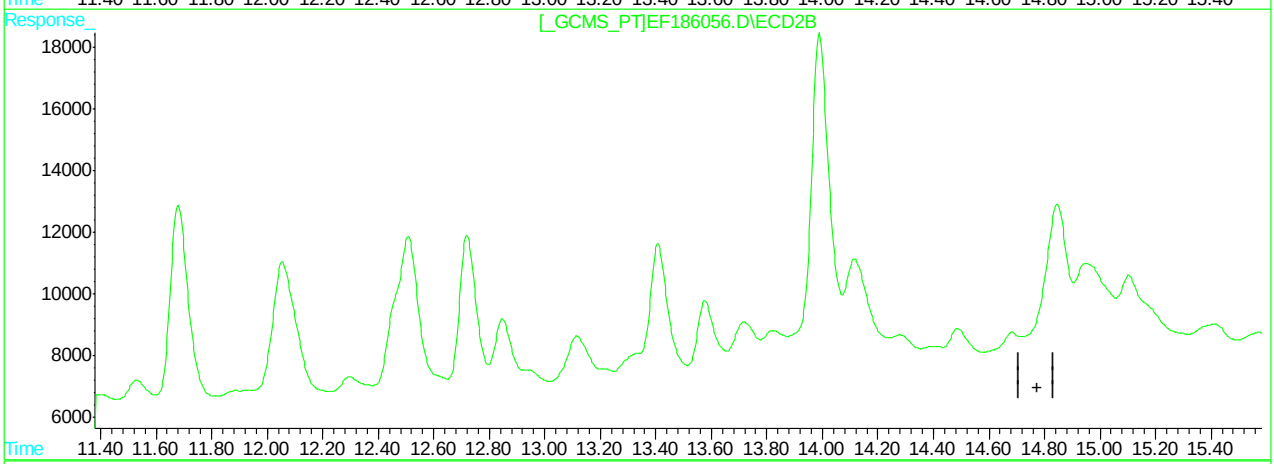
(+) = Expected Retention Time
EF186056.D PCB6325.M Thu Dec 06 08:44:03 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.61min 16.635PPB

response 25639

(50) AR1260-E #2

0.00min 0.000PPB

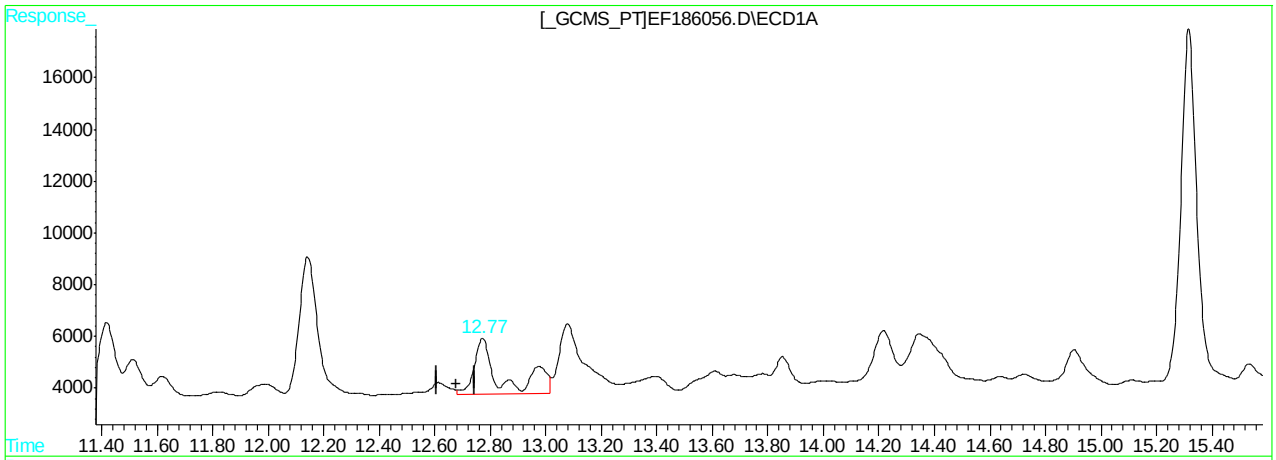
response 0

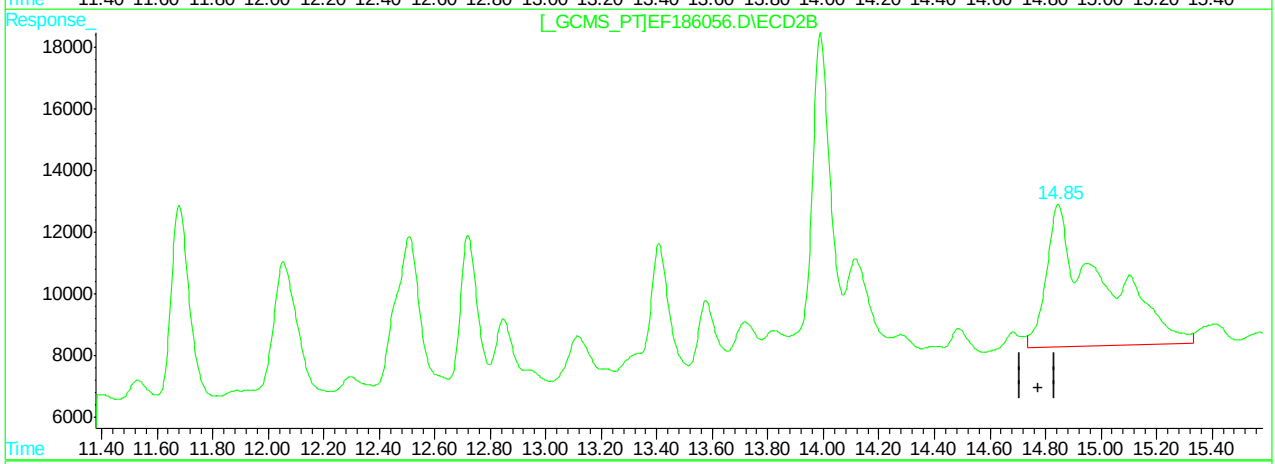
(+) = Expected Retention Time
EF186056.D PCB6325.M Thu Dec 06 08:44:05 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD1A.CH Vial: 28
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186056.D\ECD2B.CH
Acq On : 6 Dec 2018 4:53 am Operator: tianweir
Sample : op17101-msd Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:43 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.77min 94.930PPB m

response 146312

(50) AR1260-E #2

14.85min 248.533PPB m

response 637086

(+) = Expected Retention Time
EF186056.D PCB6325.M Thu Dec 06 08:44:12 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:15 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	26505	33615	1.854	2.038
	Spiked Amount 40.000			Recovery	=	4.63%	5.09%
51) S	Decachlorobiphen	15.18	17.48	42989	52612	2.770	2.064m#
	Spiked Amount 40.000			Recovery	=	6.93%	5.16%
	Target Compounds						
41)	AR1016-A	4.27	5.27	19542	23896	53.213	63.770
42)	AR1016-B	4.89	6.09	37124	47381	56.797	59.925m
43)	AR1016-C	5.73	7.03	73624	95526	65.017	64.318m
44)	AR1016-D	5.99	7.33	28306	38371	59.796	56.813m
45)	AR1016-E	6.79	8.35	28602	27428	56.244m	58.332m
46)	AR1260-A	10.57	12.47	67227	109581	61.971	61.243
47)	AR1260-B	10.83	12.67	35280	62927	61.055	59.137
48)	AR1260-C	11.37	13.36	32650	60402	59.403	59.885
49)	AR1260-D	12.06	13.92	78969	140054	60.691	60.946
50)	AR1260-E	12.69	14.78	75835	148524	60.513m	65.206

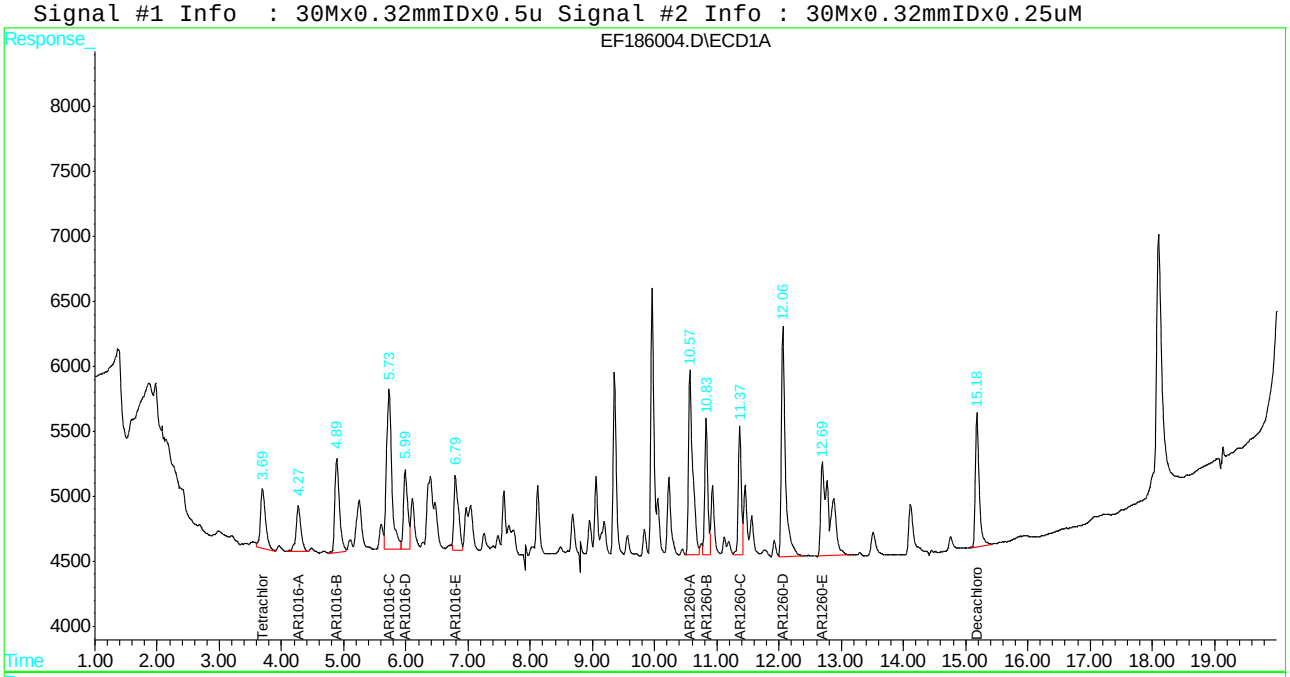
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186004.D PCB6325.M Wed Dec 05 09:16:02 2018 GCEF Page 1

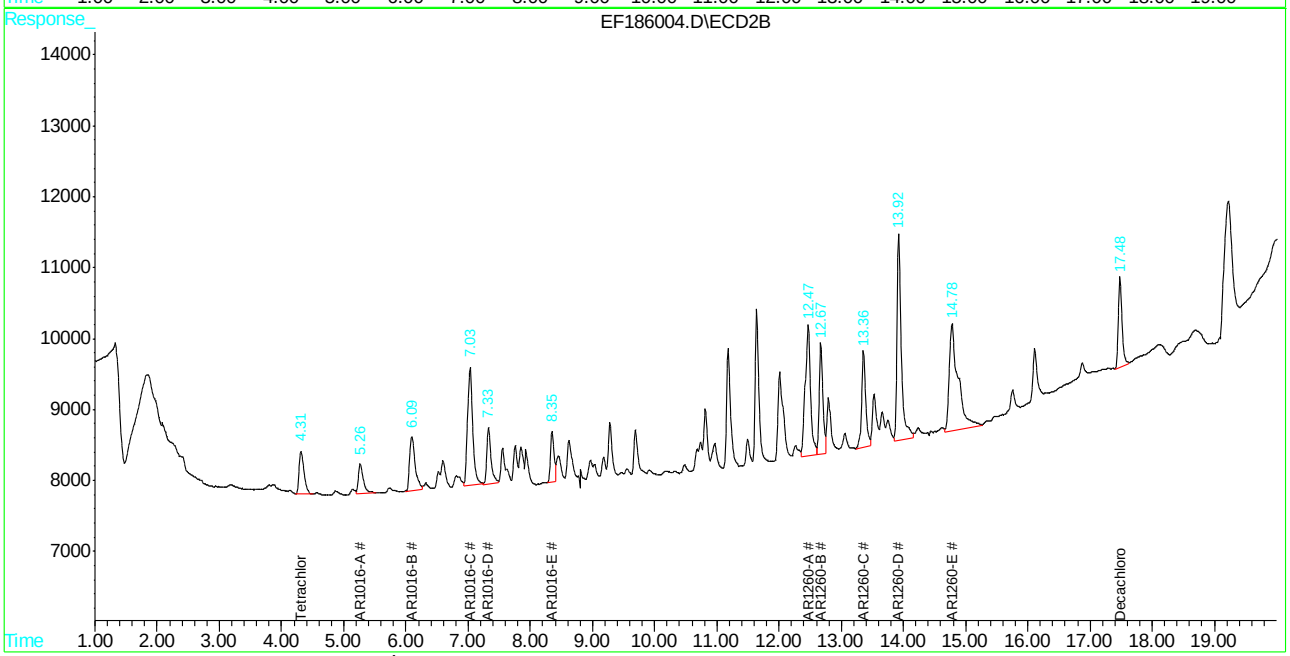
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On    :  4 Dec 2018   3:48 pm                    Operator: tianweir
Sample    : ic6325-50                                Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:15 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

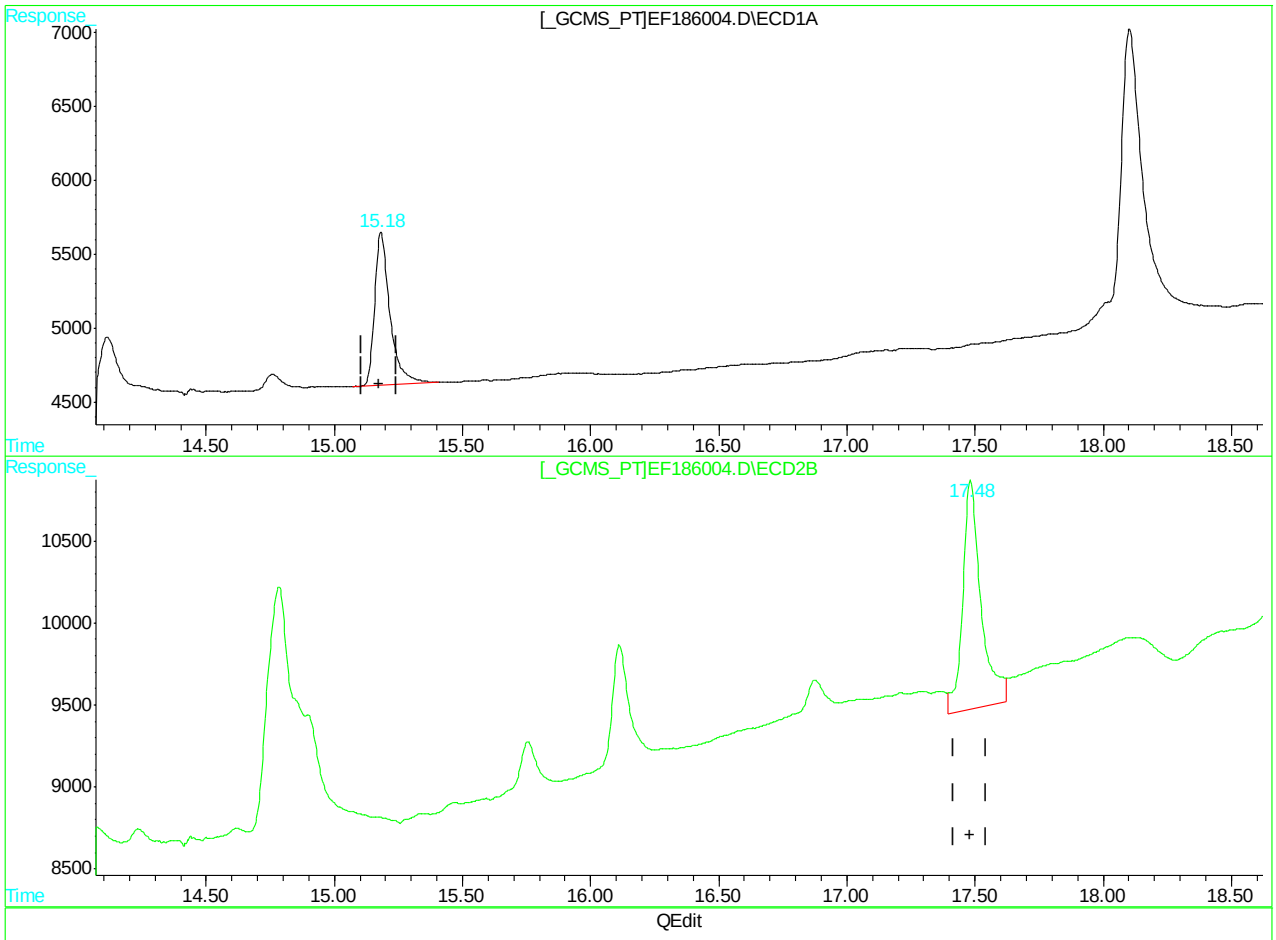
Sample Number:	GEF6325-IC6325	**Method:**	SW846 8082A
Lab FileID:	EF186004.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 15:48	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1016-B		2	6.09	Split peak
AR1016-E		1	6.79	Split peak
AR1016-C		2	7.03	Split peak
AR1016-D		2	7.33	Split peak
AR1016-E		2	8.35	Split peak
AR1260-E		1	12.69	Split peak
Decachlorobiphenyl	2051-24-3	2	17.48	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:01 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

15.18min 2.770PPB

response 42989

(51) Decachlorobiphenyl #2 (S)

17.48min 2.723PPB

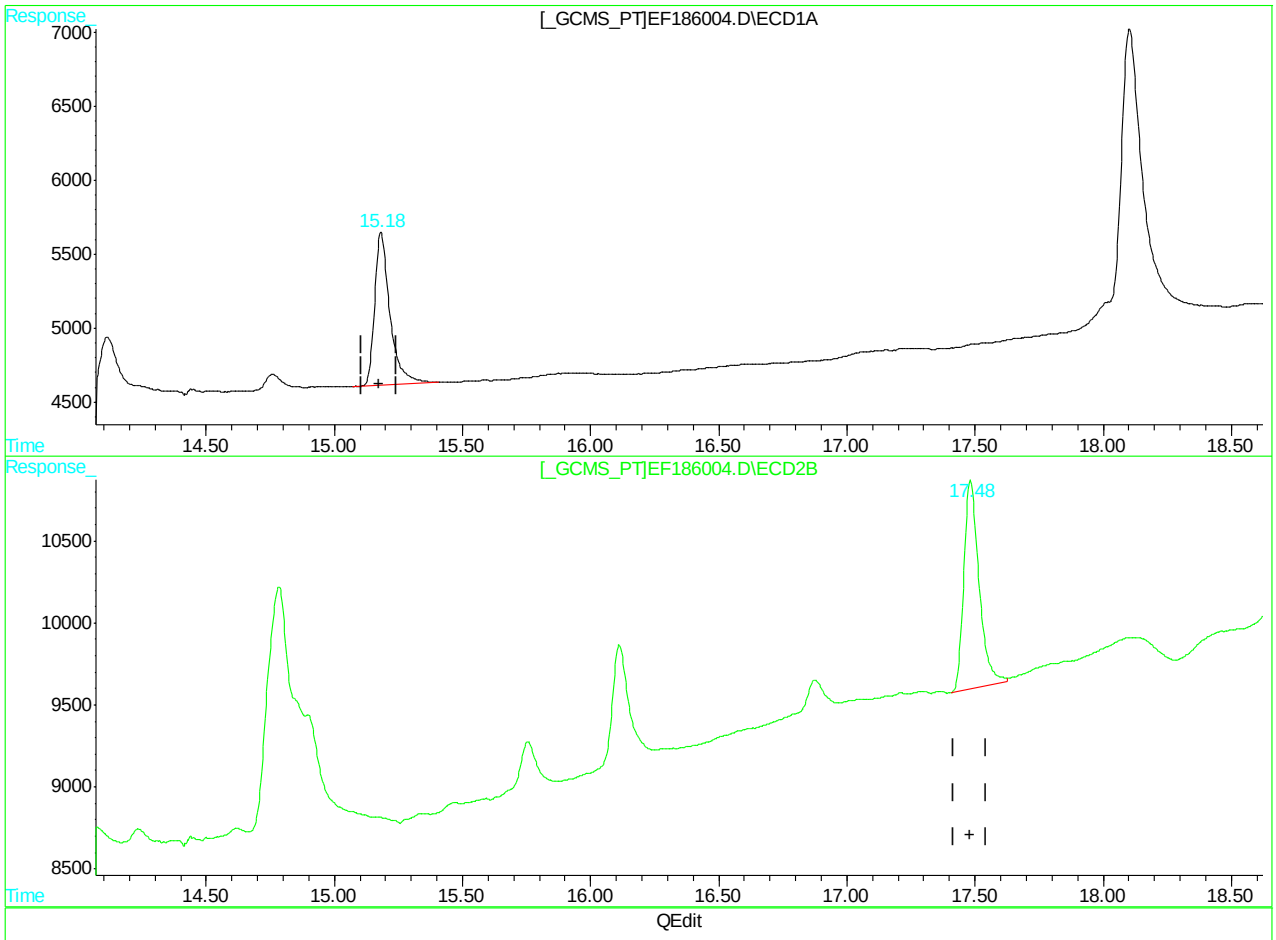
response 69384

(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:02:08 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:01 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

15.18min 2.770PPB

response 42989

(51) Decachlorobiphenyl #2 (S)

17.48min 2.064PPB m

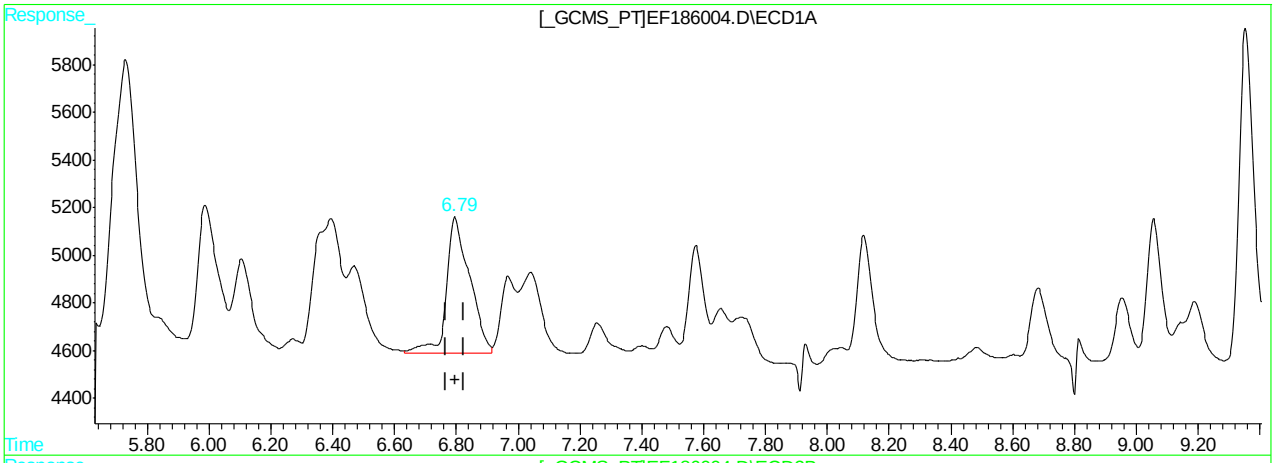
response 52612

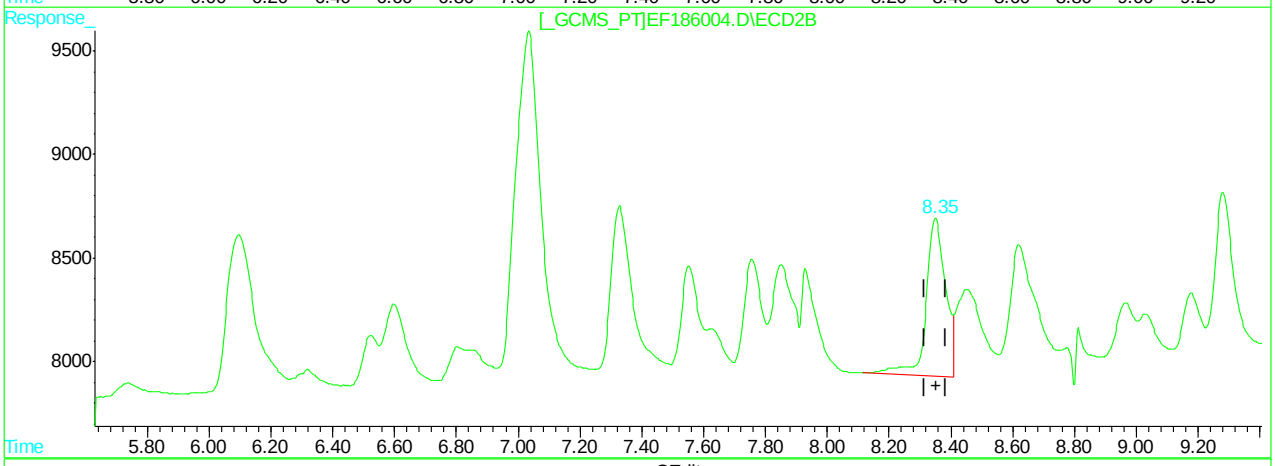
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:02:13 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:01 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(45) AR1016-E

6.80min 59.121PPB

response 30065

(45) AR1016-E #2

8.35min 70.922PPB

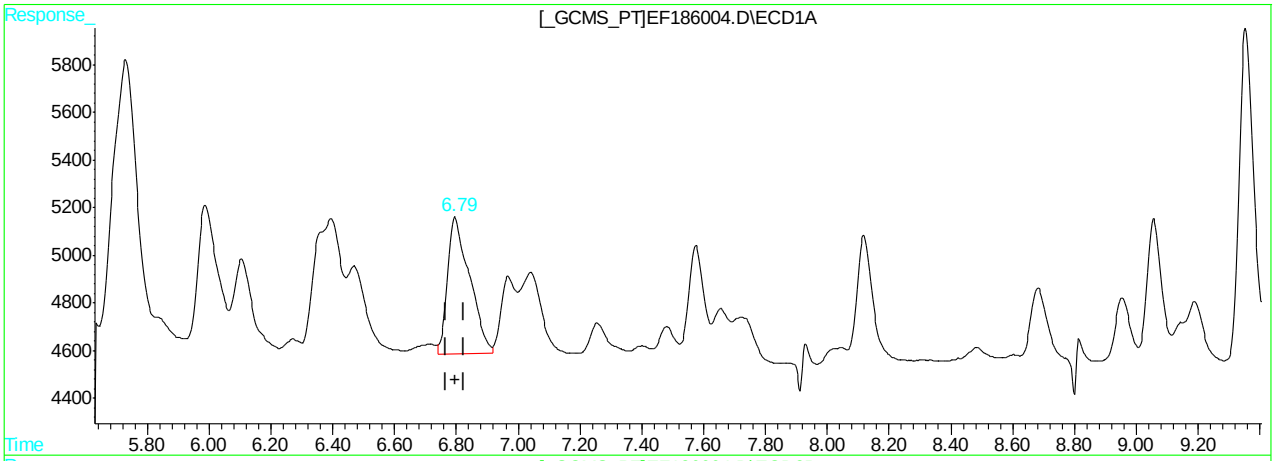
response 33348

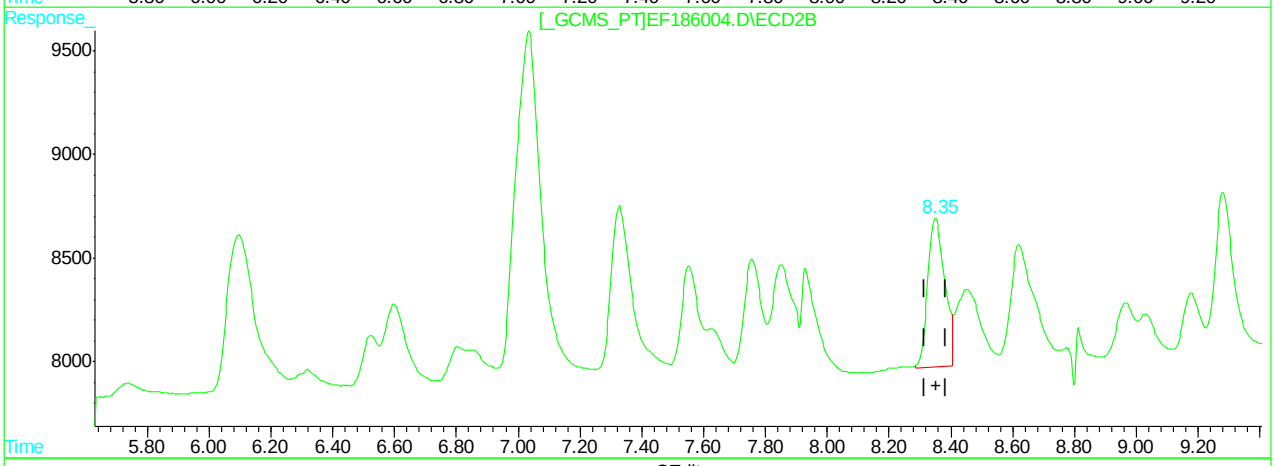
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:02:22 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:01 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(45) AR1016-E

6.79min 56.244PPB m

response 28602

(45) AR1016-E #2

8.35min 58.332PPB m

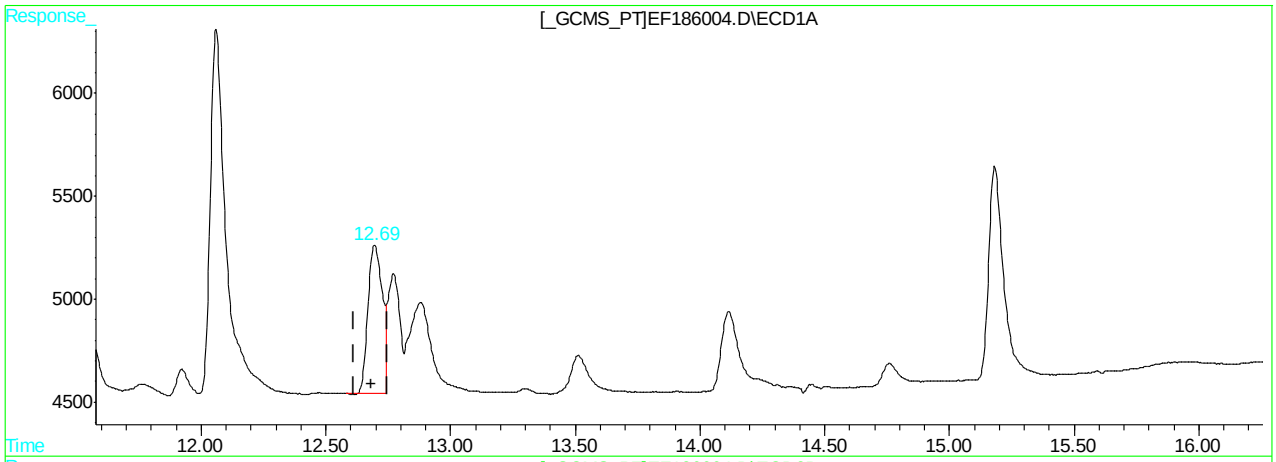
response 27428

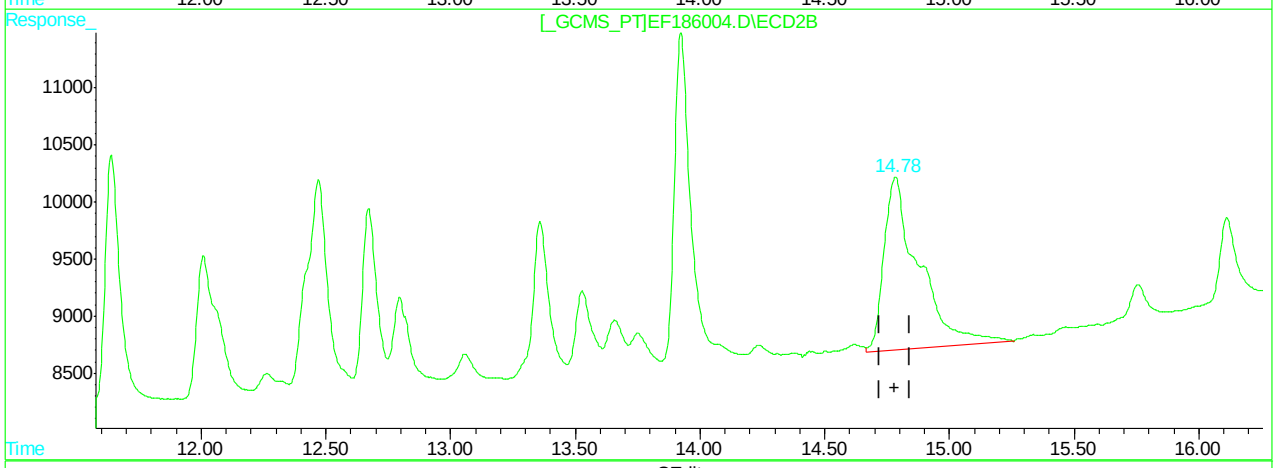
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:02:40 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:01 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.70min 22.496PPB

response 28193

(50) AR1260-E #2

14.78min 65.206PPB

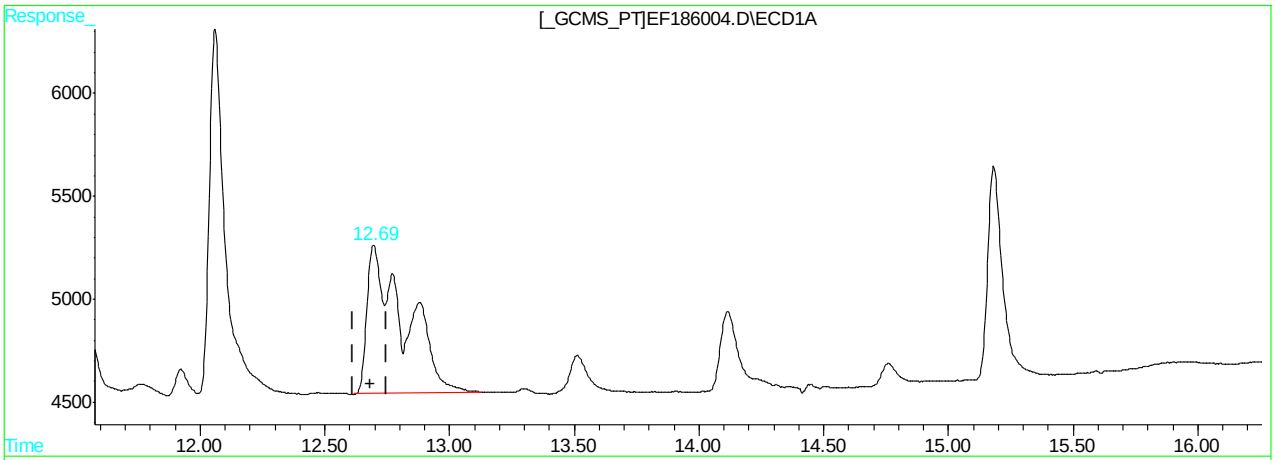
response 148524

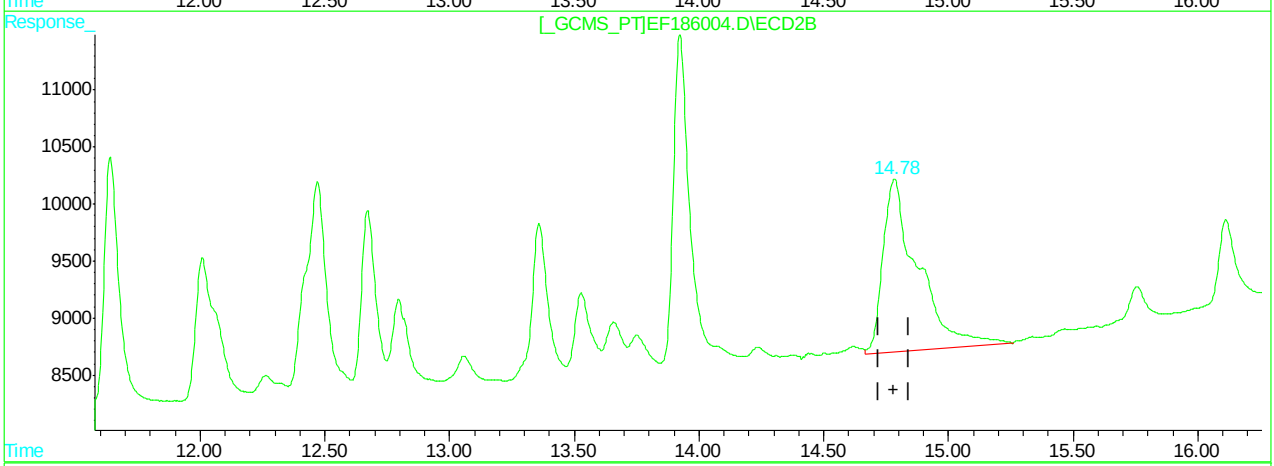
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:02:48 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:01 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.69min 60.513PPB m

response 75835

(50) AR1260-E #2

14.78min 65.206PPB

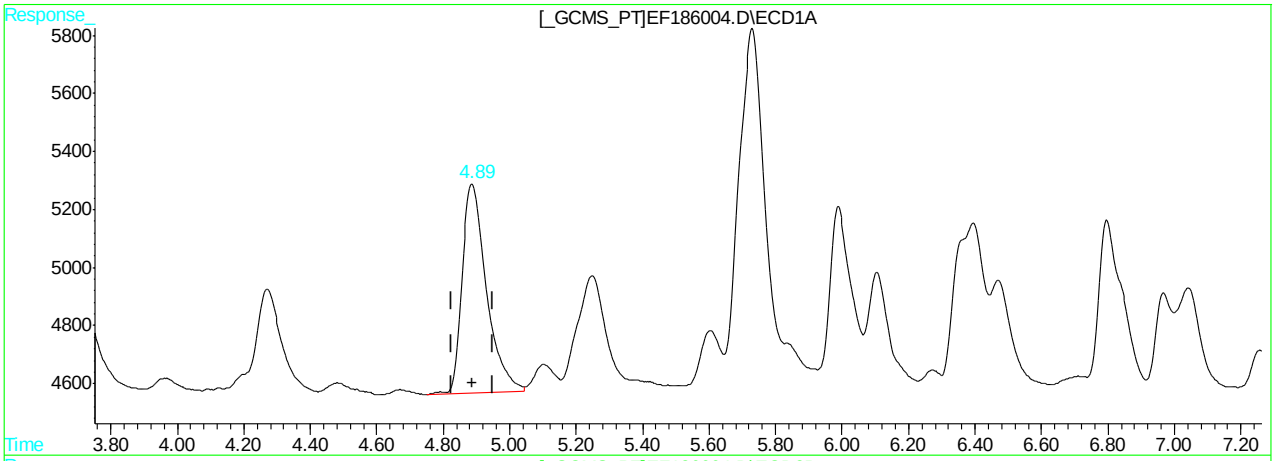
response 148524

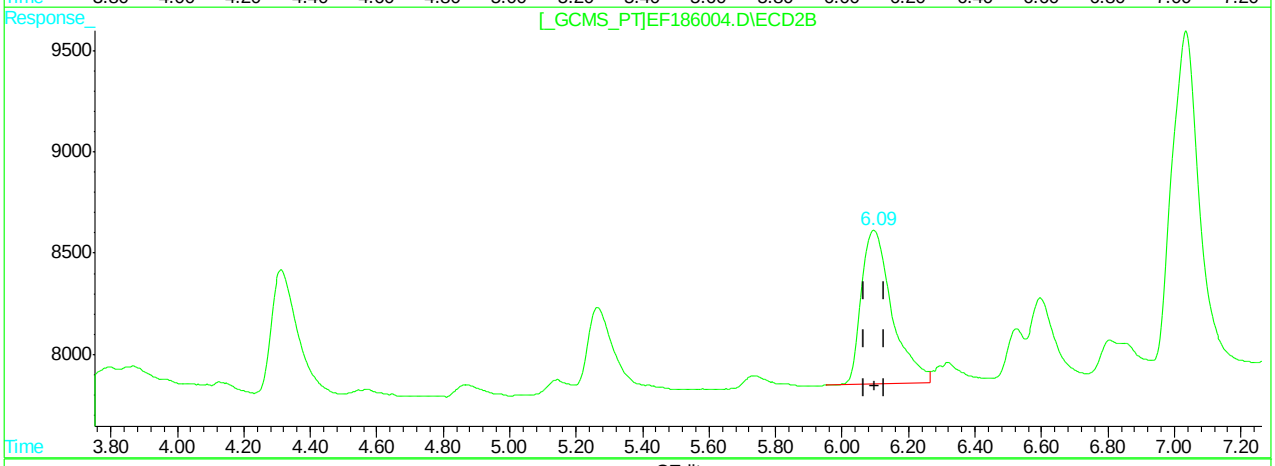
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:02:53 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:02 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:11:10 2018
Response via : Multiple Level Calibration





QEdit

(42) AR1016-B

4.89min 56.797PPB

response 37124

(42) AR1016-B #2

6.10min 61.031PPB

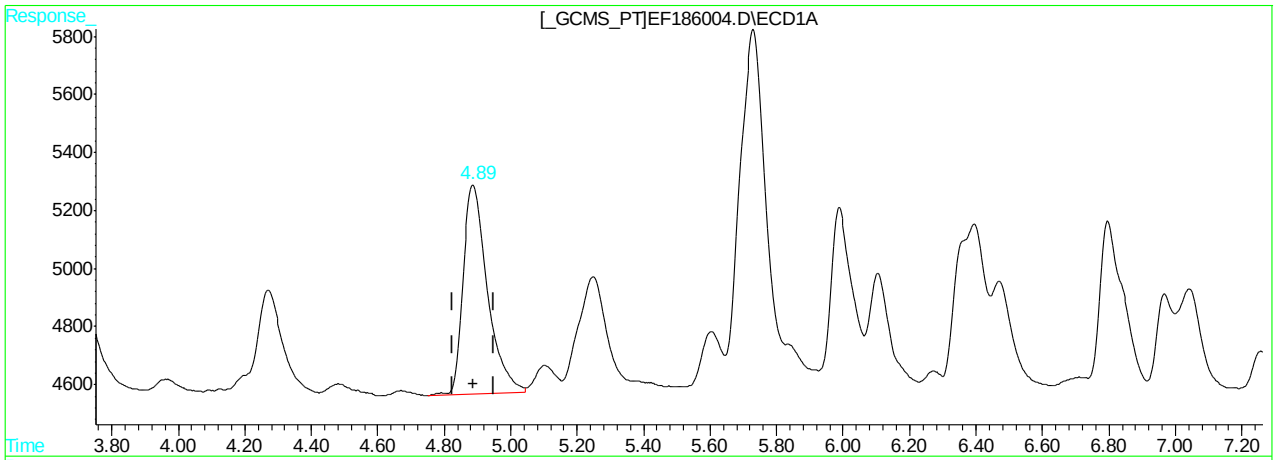
response 48256

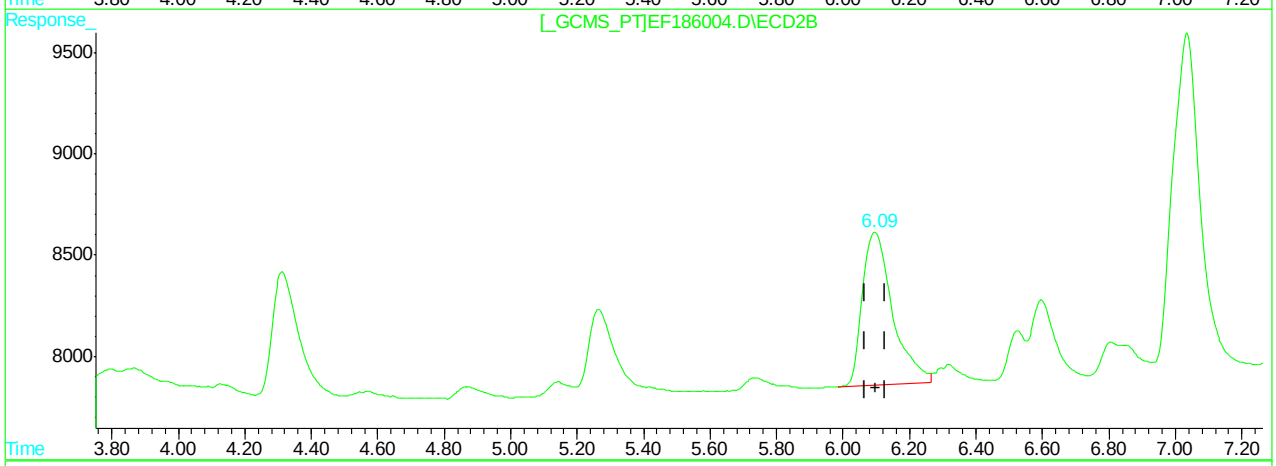
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:14:43 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:02 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:11:10 2018
Response via : Multiple Level Calibration





QEdit

(42) AR1016-B

4.89min 56.797PPB

response 37124

(42) AR1016-B #2

6.09min 59.925PPB m

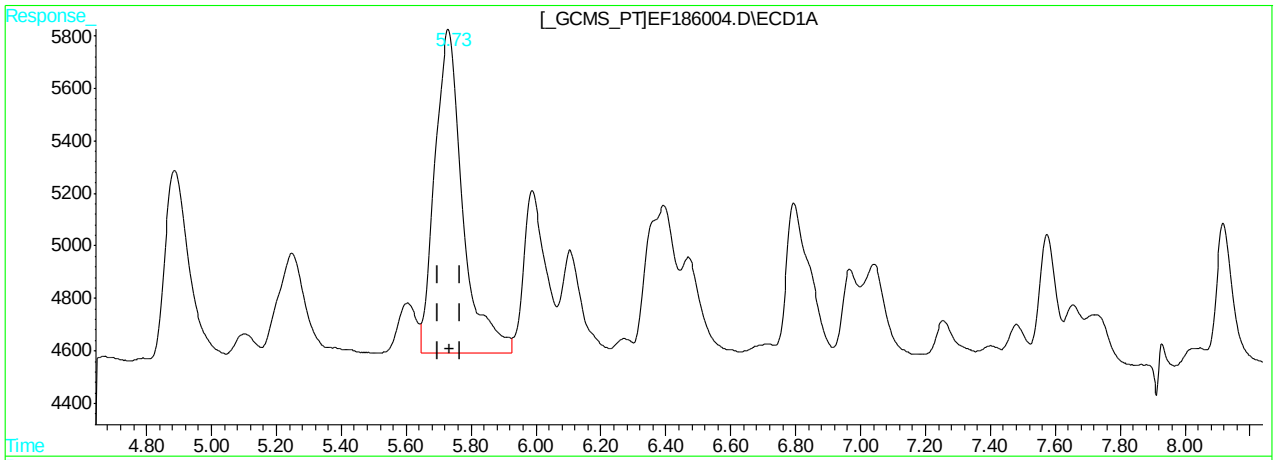
response 47381

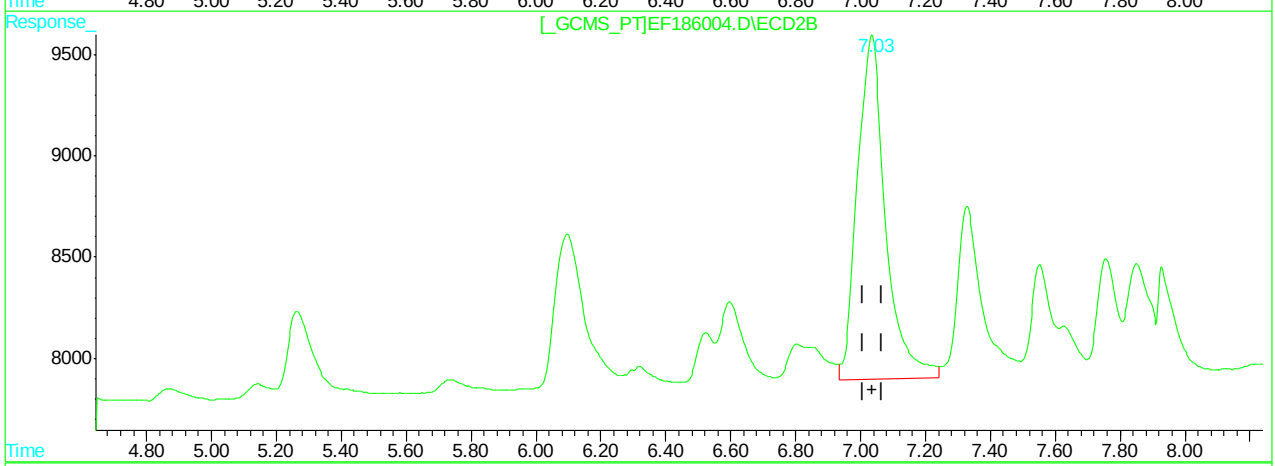
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:14:52 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:02 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:11:10 2018
Response via : Multiple Level Calibration





QEdit

(43) AR1016-C

5.73min 65.017PPB

response 73624

(43) AR1016-C #2

7.03min 68.952PPB

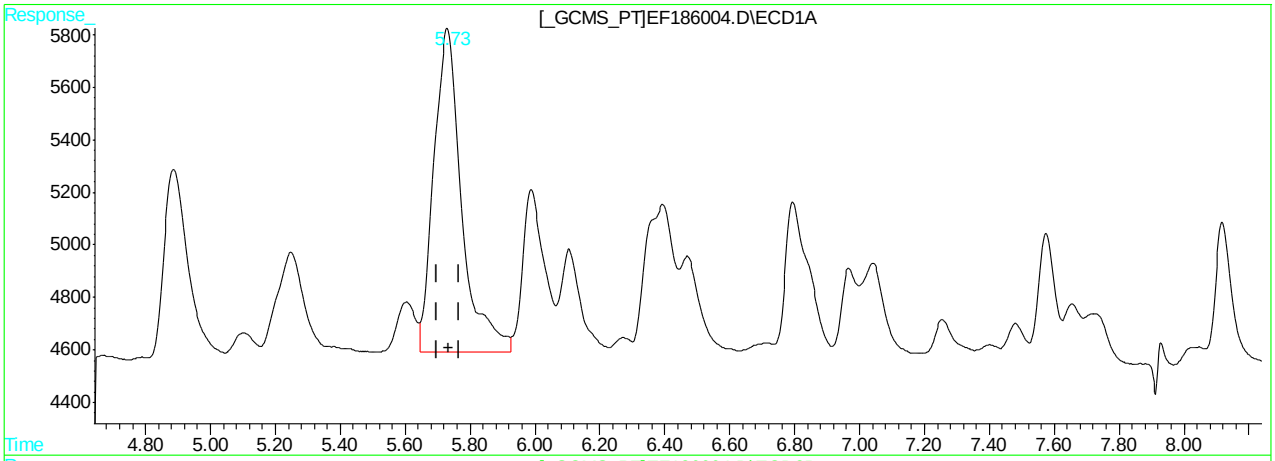
response 102409

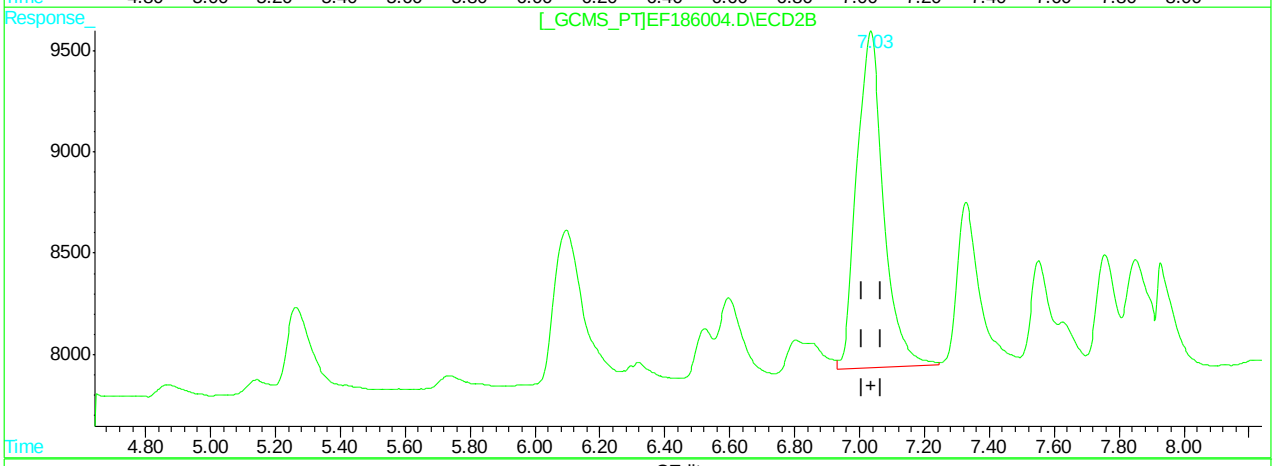
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:14:56 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:02 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:11:10 2018
Response via : Multiple Level Calibration





QEdit

(43) AR1016-C

5.73min 65.017PPB

response 73624

(43) AR1016-C #2

7.03min 64.318PPB m

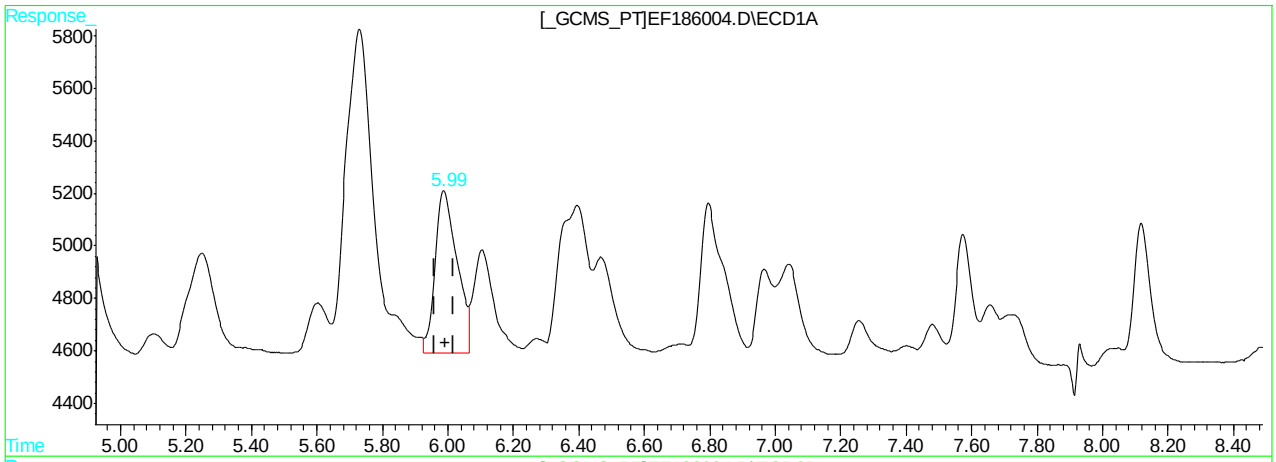
response 95526

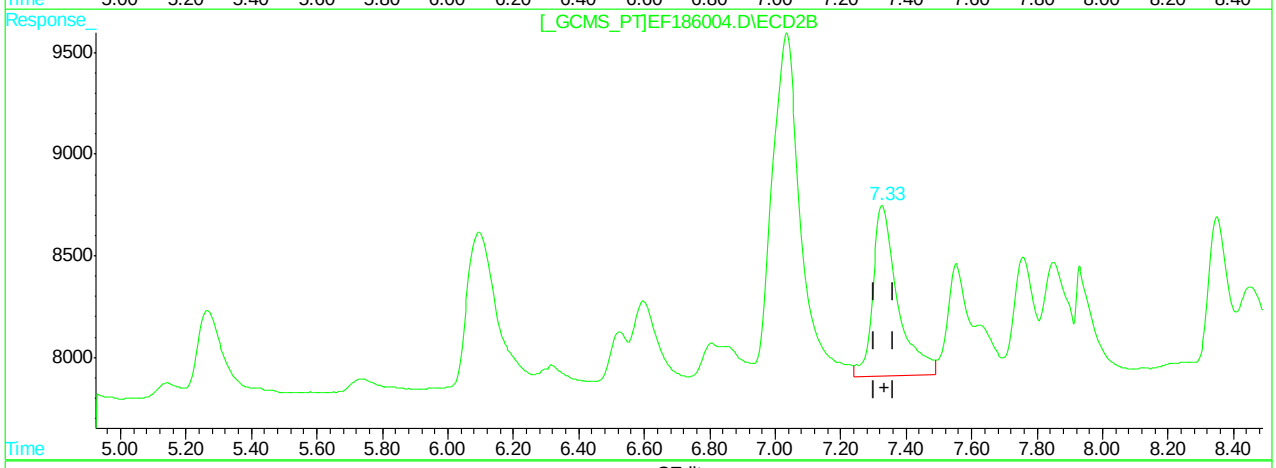
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:15:11 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:02 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:11:10 2018
Response via : Multiple Level Calibration





QEdit

(44) AR1016-D

5.99min 59.796PPB

response 28306

(44) AR1016-D #2

7.33min 65.669PPB

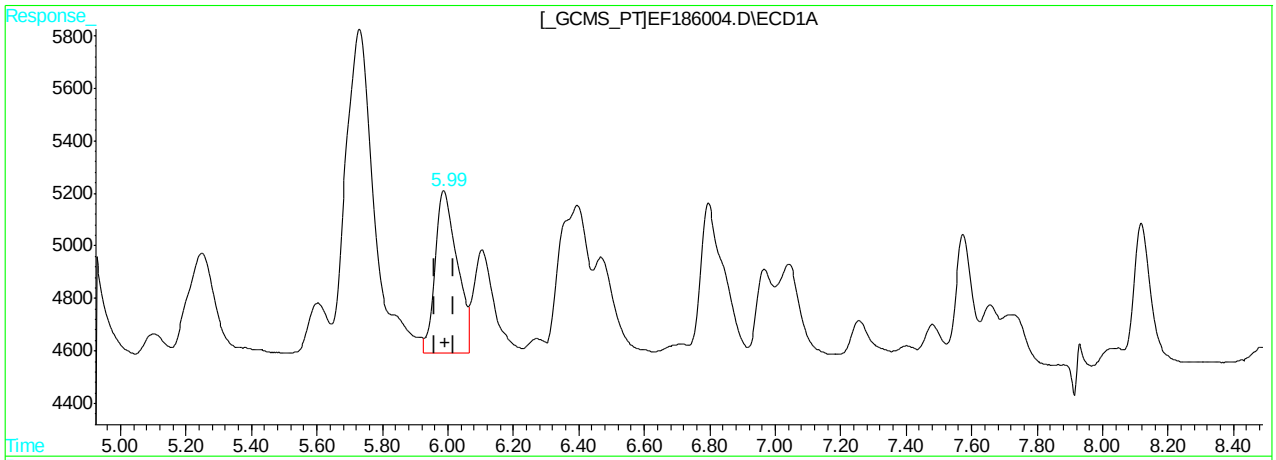
response 44353

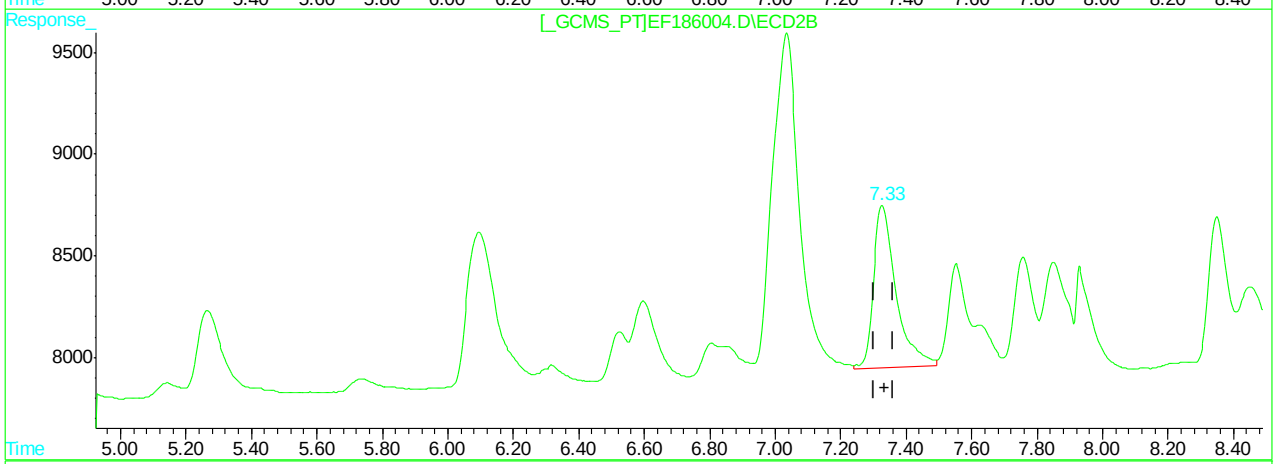
(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:15:16 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD1A.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186004.D\ECD2B.CH
Acq On : 4 Dec 2018 3:48 pm Operator: tianweir
Sample : ic6325-50 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:02 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:11:10 2018
Response via : Multiple Level Calibration





QEdit

(44) AR1016-D

5.99min 59.796PPB

response 28306

(44) AR1016-D #2

7.33min 56.813PPB m

response 38371

(+) = Expected Retention Time
EF186004.D PCB6325.M Wed Dec 05 09:15:28 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD2B.CH
Acq On : 4 Dec 2018 4:13 pm Operator: tianweir
Sample : ic6325-250 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:03 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	131228	173110	9.180	10.493
	Spiked Amount 40.000			Recovery =		22.95%	26.23%
51) S	Decachlorobiphen	15.18	17.48	198077	257895	12.764	10.120
	Spiked Amount 40.000			Recovery =		31.91%	25.30%
	Target Compounds						
41)	AR1016-A	4.27	5.27	96665	108121	263.227	288.537
42)	AR1016-B	4.89	6.10	173341	227440	265.199	287.653
43)	AR1016-C	5.73	7.04	345437	467389	305.055	314.693
44)	AR1016-D	5.99	7.33	133990	202112	283.049	299.247
45)	AR1016-E	6.80	8.35	146261	132573	287.617	281.947
46)	AR1260-A	10.57	12.47	336307	522558	310.014	292.048
47)	AR1260-B	10.83	12.68	169410	304641	293.180	286.292
48)	AR1260-C	11.37	13.36	167519	284913	304.784	282.473
49)	AR1260-D	12.06	13.92	403245	659343	309.909	286.923
50)	AR1260-E	12.69	14.78	378063	641544	301.678m	281.653

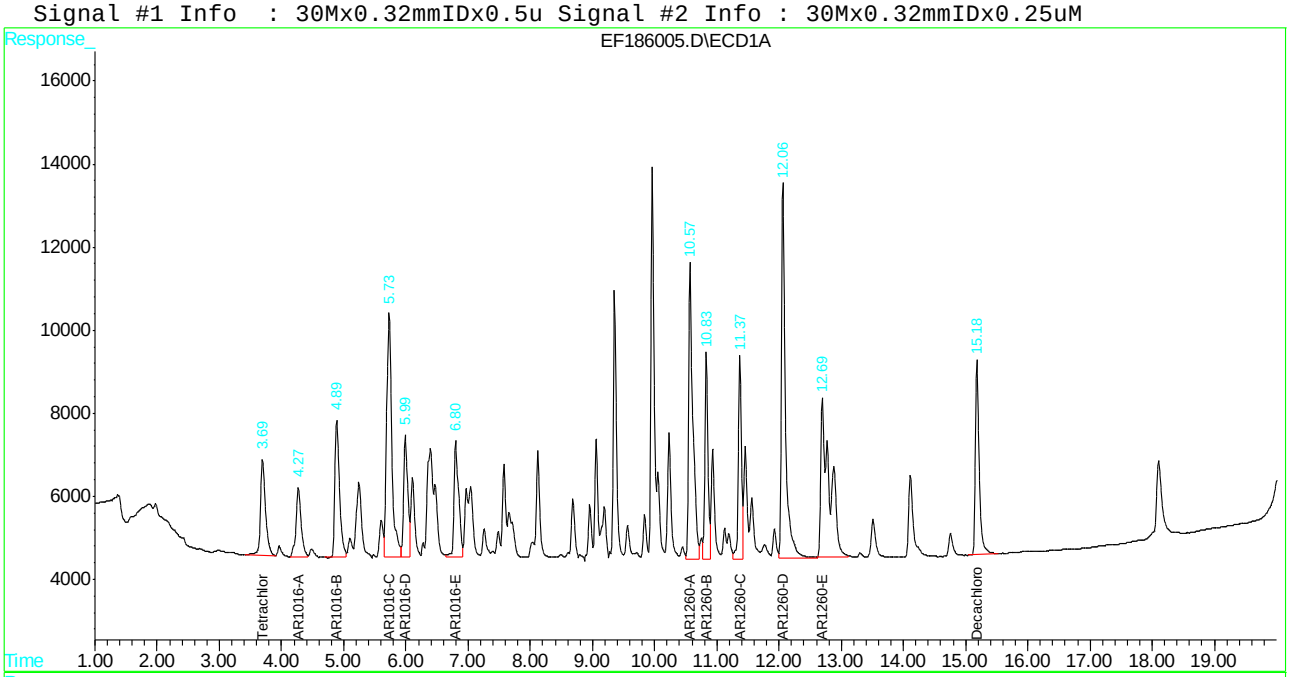
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

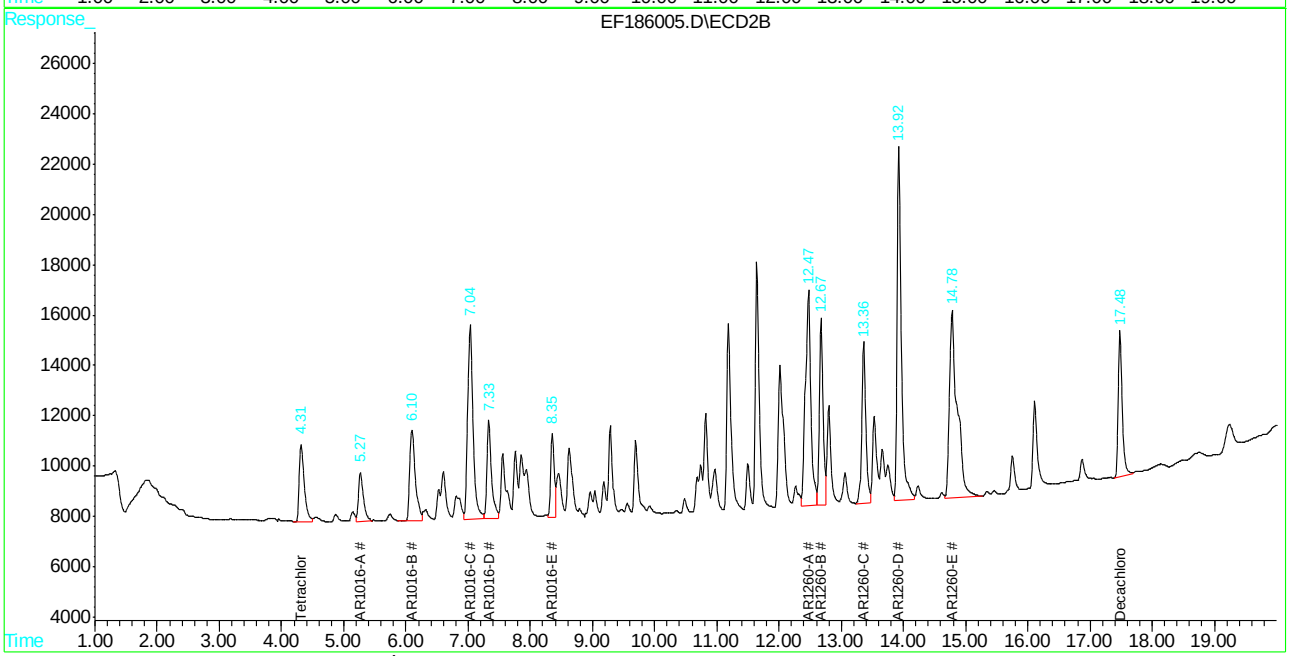
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD2B.CH
Acq On : 4 Dec 2018 4:13 pm Operator: tianweir
Sample : ic6325-250 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:03 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

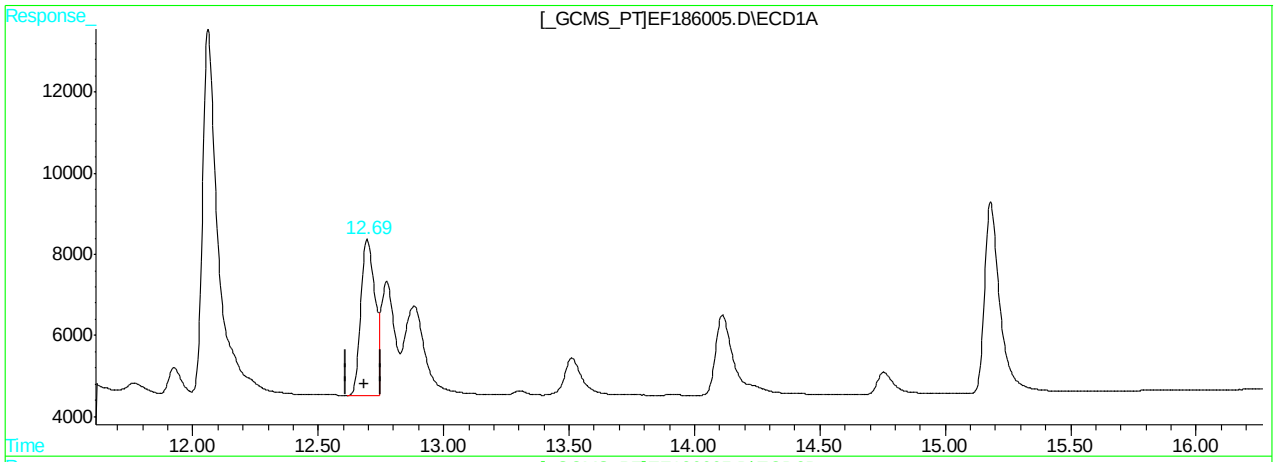
Sample Number:	GEF6325-IC6325	**Method:**	SW846 8082A
Lab FileID:	EF186005.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 16:13	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

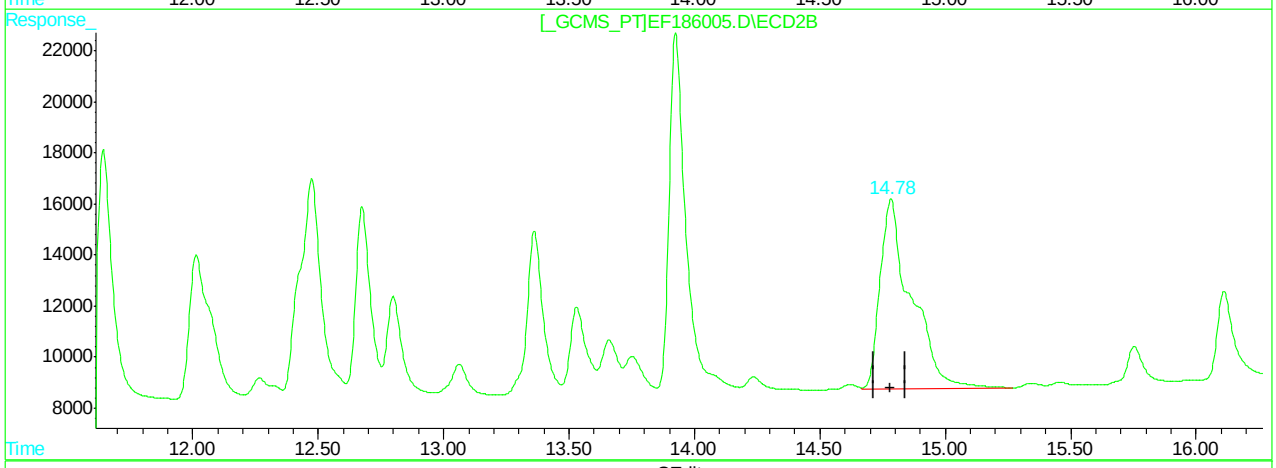
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.69	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD2B.CH
Acq On : 4 Dec 2018 4:13 pm Operator: tianweir
Sample : ic6325-250 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:03 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.70min 118.906PPB

response 149013

(50) AR1260-E #2

14.78min 281.653PPB

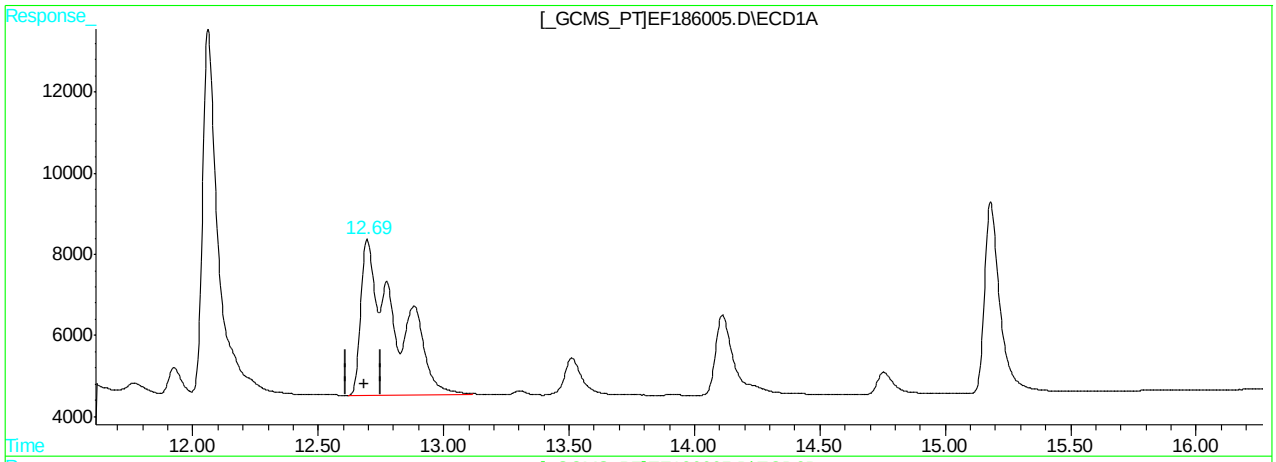
response 641544

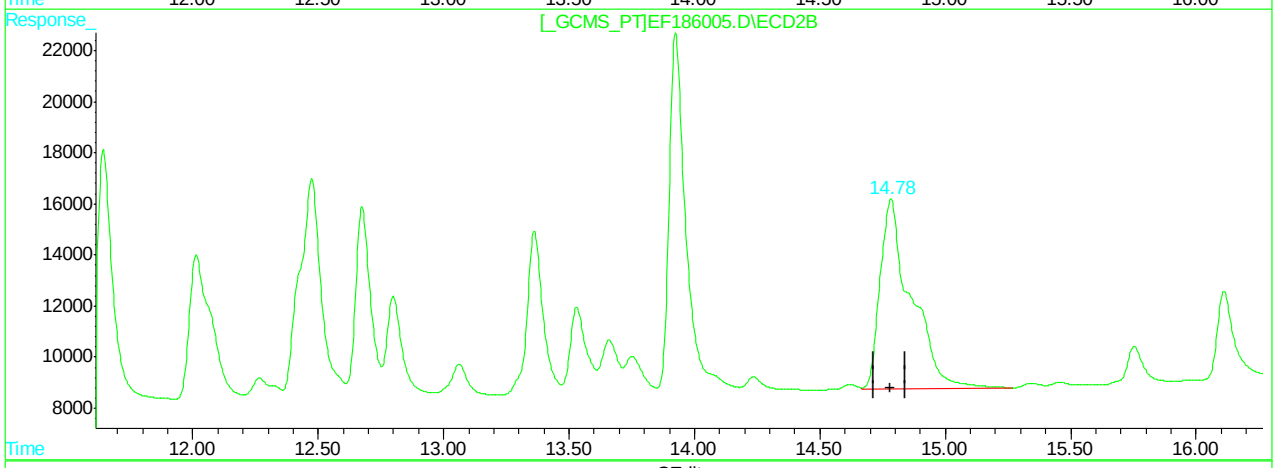
(+) = Expected Retention Time
EF186005.D PCB6325.M Wed Dec 05 09:03:43 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD1A.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186005.D\ECD2B.CH
Acq On : 4 Dec 2018 4:13 pm Operator: tianweir
Sample : ic6325-250 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:03 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.69min 301.678PPB m

response 378063

(50) AR1260-E #2

14.78min 281.653PPB

response 641544

(+) = Expected Retention Time
EF186005.D PCB6325.M Wed Dec 05 09:03:49 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	275807	357671	19.295	21.681m
	Spiked Amount 40.000			Recovery =		48.24%	54.20%
51) S	Decachlorobiphen	15.17	17.47	397814	519963	25.635	20.403m
	Spiked Amount 40.000			Recovery =		64.09%	51.01%
	Target Compounds						
41)	AR1016-A	4.27	5.26	196732	207843	535.720	554.662
42)	AR1016-B	4.88	6.09	339792	431124	519.857	545.260
43)	AR1016-C	5.73	7.03	686855	872377	606.561	587.371
44)	AR1016-D	5.98	7.32	265169	383104	560.163	567.225
45)	AR1016-E	6.79	8.35	287204	262037	564.776	557.280
46)	AR1260-A	10.56	12.47	676269	1023946	623.396	572.265
47)	AR1260-B	10.82	12.67	330944	588461	572.729	553.017
48)	AR1260-C	11.36	13.35	336477	551990	612.184	547.262
49)	AR1260-D	12.05	13.92	829535	1320469	637.529	574.622
50)	AR1260-E	12.68	14.78	798605	1278988	637.252m	561.506

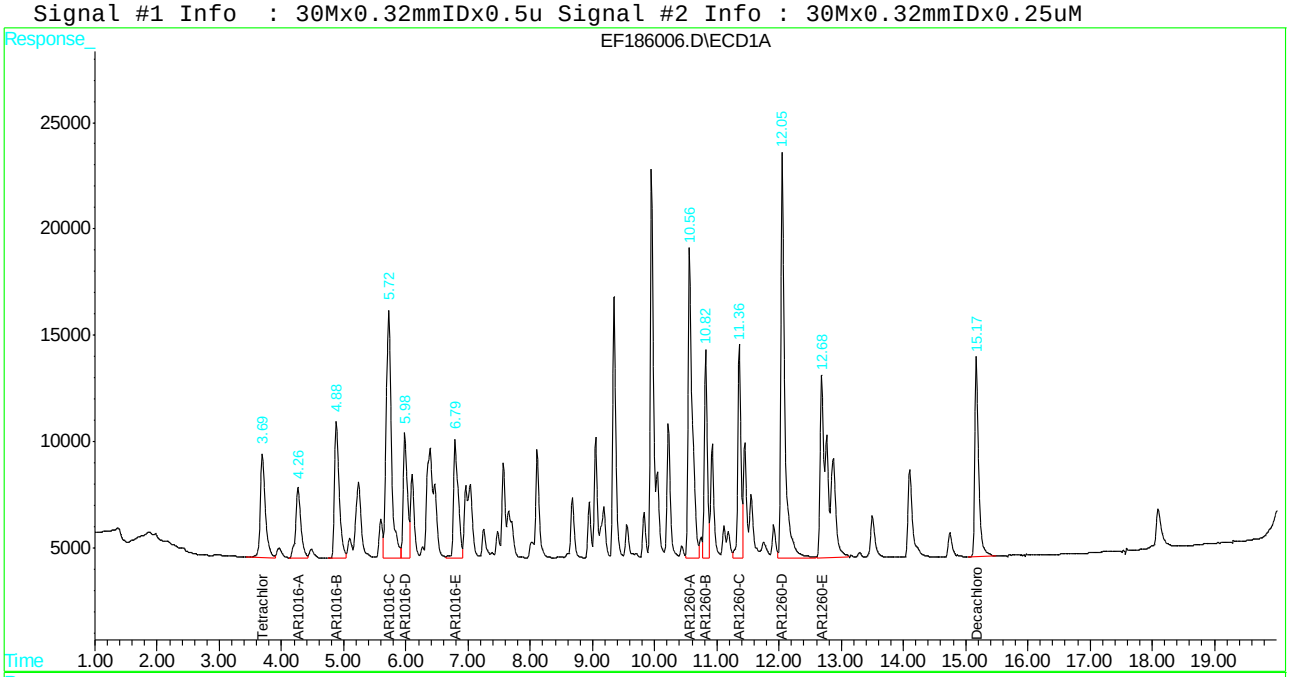
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186006.D PCB6325.M Wed Dec 05 09:06:05 2018 GCEF Page 1

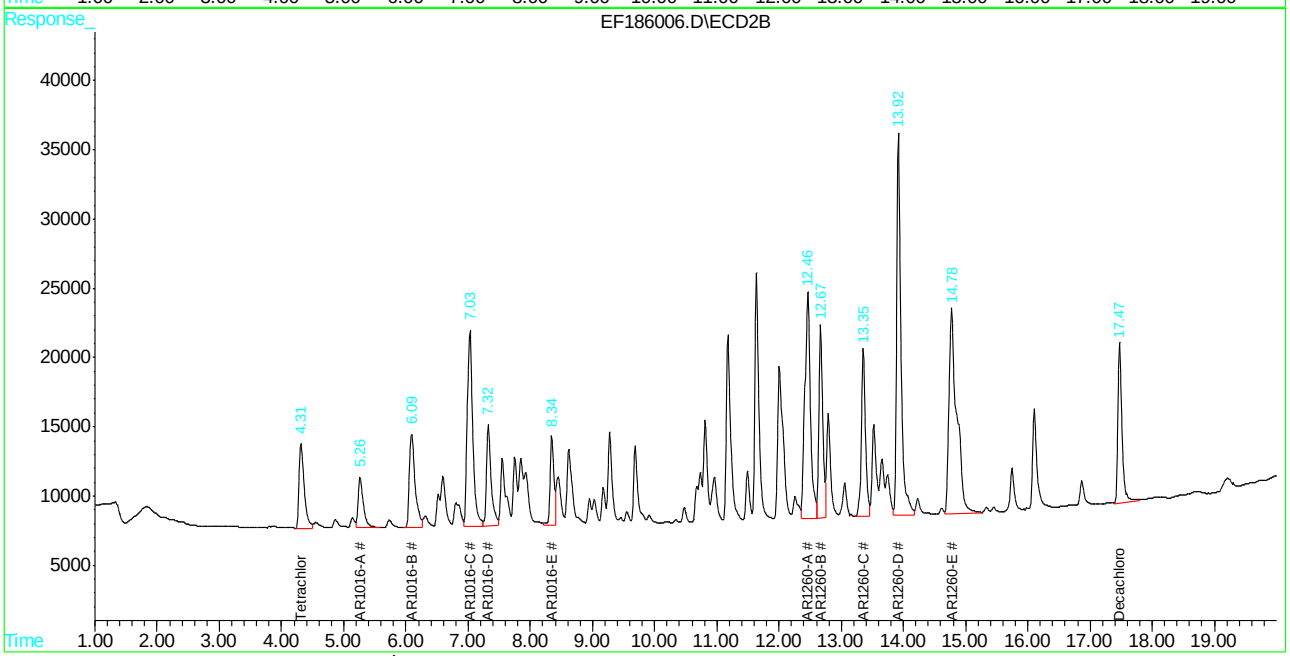
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

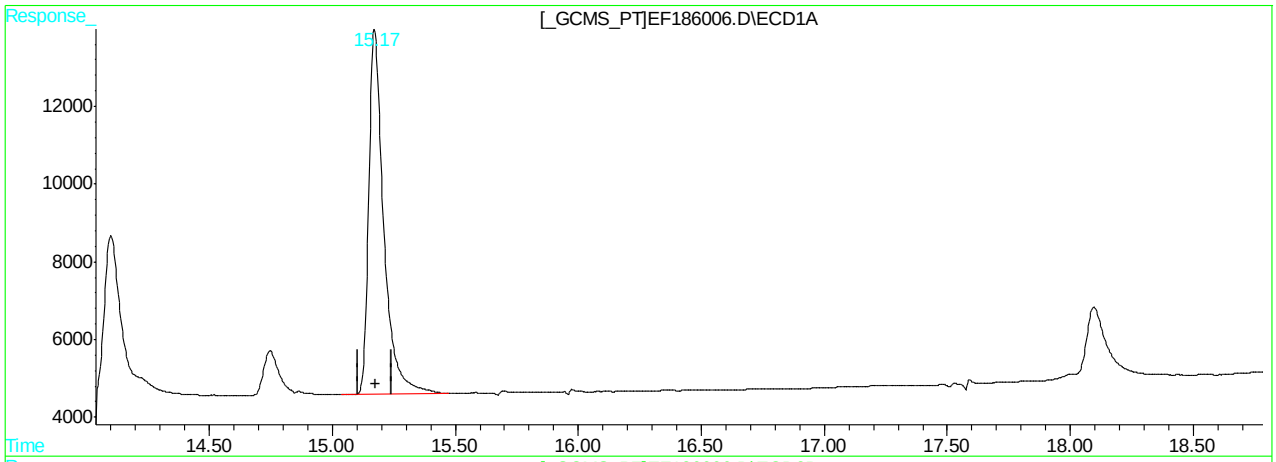
Sample Number:	GEF6325-IC6325	**Method:**	SW846 8082A
Lab FileID:	EF186006.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 16:38	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

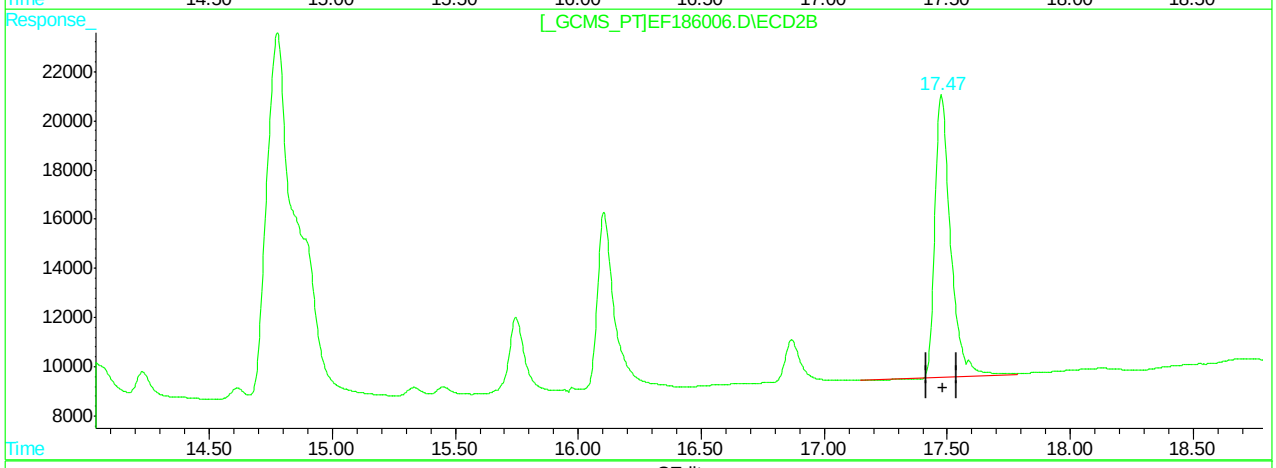
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	4.31	Poorly defined baseline
AR1260-E		1	12.68	Split peak
Decachlorobiphenyl	2051-24-3	2	17.47	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.17min 25.635PPB

response 397814

(51) Decachlorobiphenyl #2 (S)

17.48min 20.040PPB

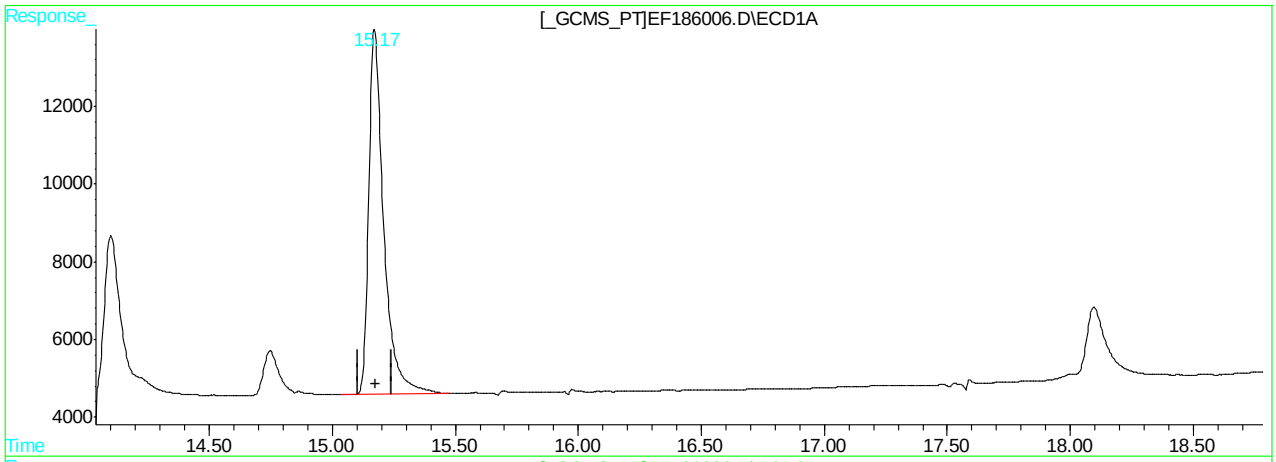
response 510727

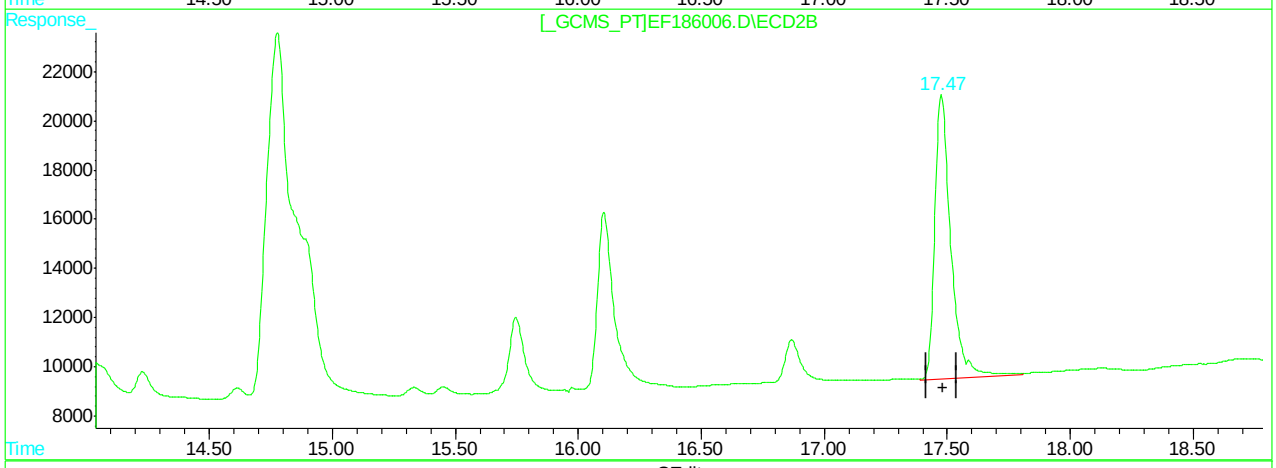
(+) = Expected Retention Time
EF186006.D PCB6325.M Wed Dec 05 09:04:12 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.17min 25.635PPB

response 397814

(51) Decachlorobiphenyl #2 (S)

17.47min 20.403PPB m

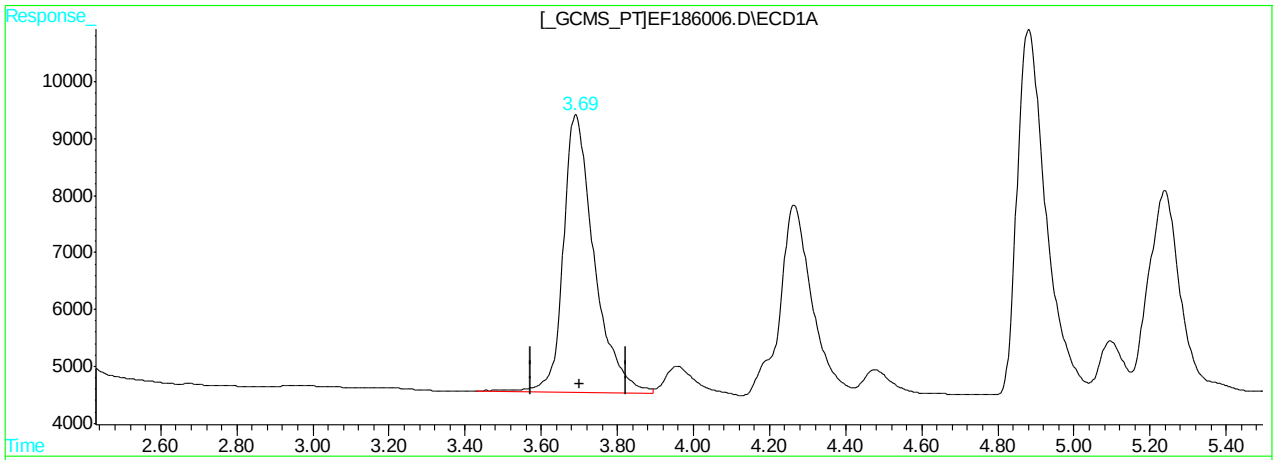
response 519963

(+) = Expected Retention Time
EF186006.D PCB6325.M Wed Dec 05 09:04:18 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.69min 19.295PPB

response 275807

(1) Tetrachloro-m-xylene #2 (S)

4.31min 21.136PPB

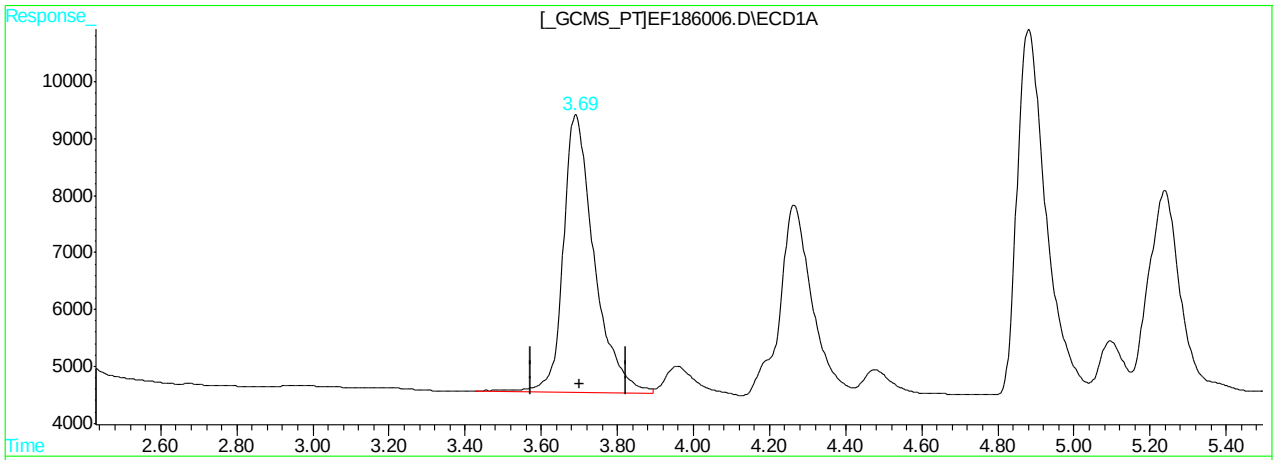
response 348680

(+) = Expected Retention Time
EF186006.D PCB6325.M Wed Dec 05 09:04:22 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration



(1) Tetrachloro-m-xylene (S)

3.69min 19.295PPB

response 275807

(1) Tetrachloro-m-xylene #2 (S)

4.31min 21.681PPB m

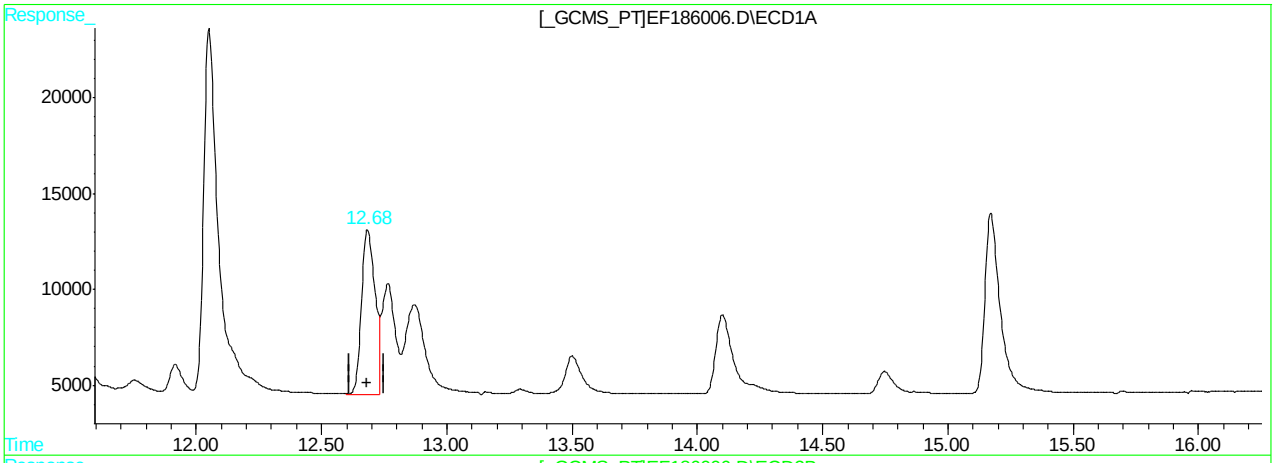
response 357671

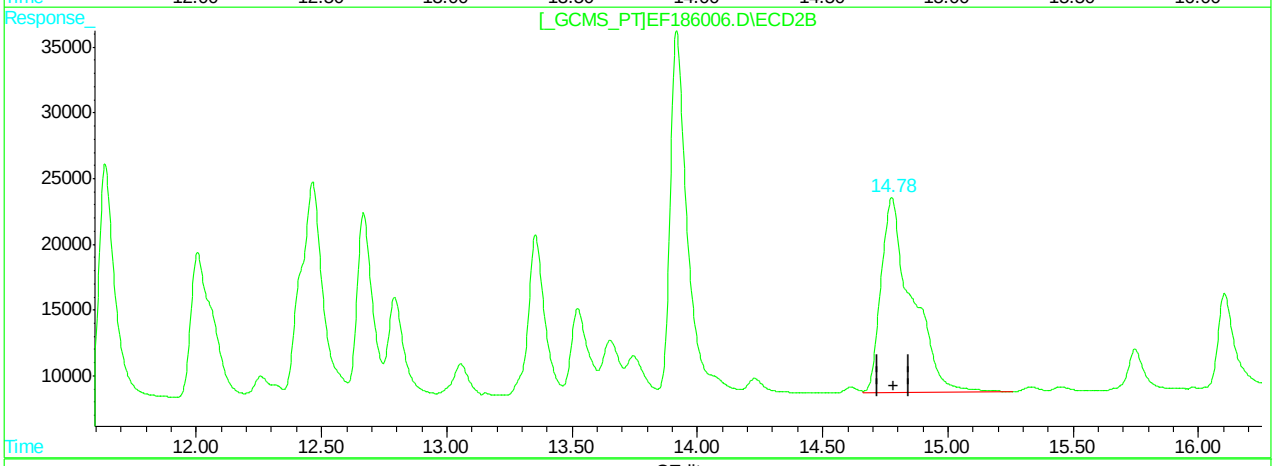
(+) = Expected Retention Time
EF186006.D PCB6325.M Wed Dec 05 09:04:27 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.68min 258.074PPB

response 323419

(50) AR1260-E #2

14.78min 561.506PPB

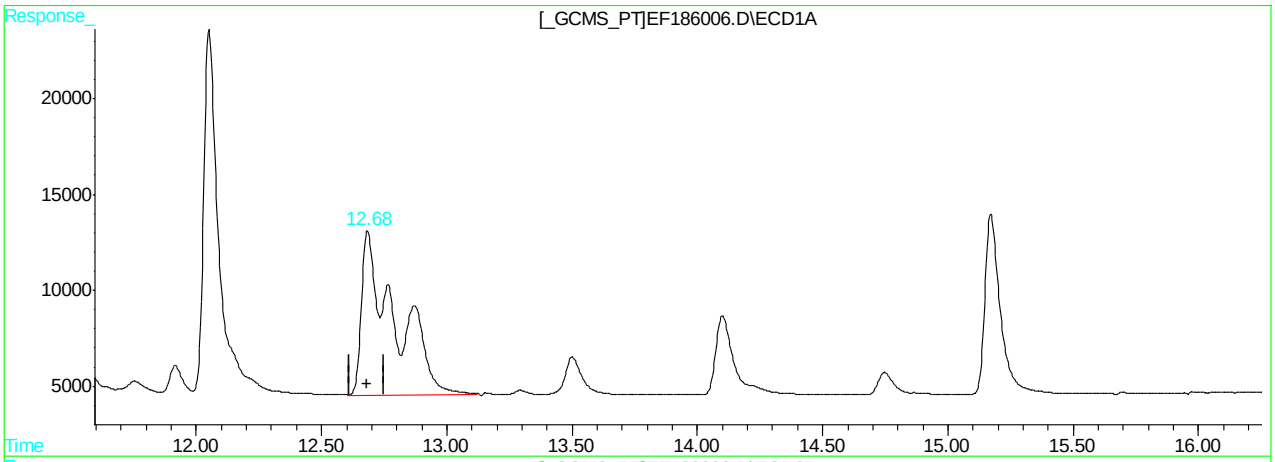
response 1278988

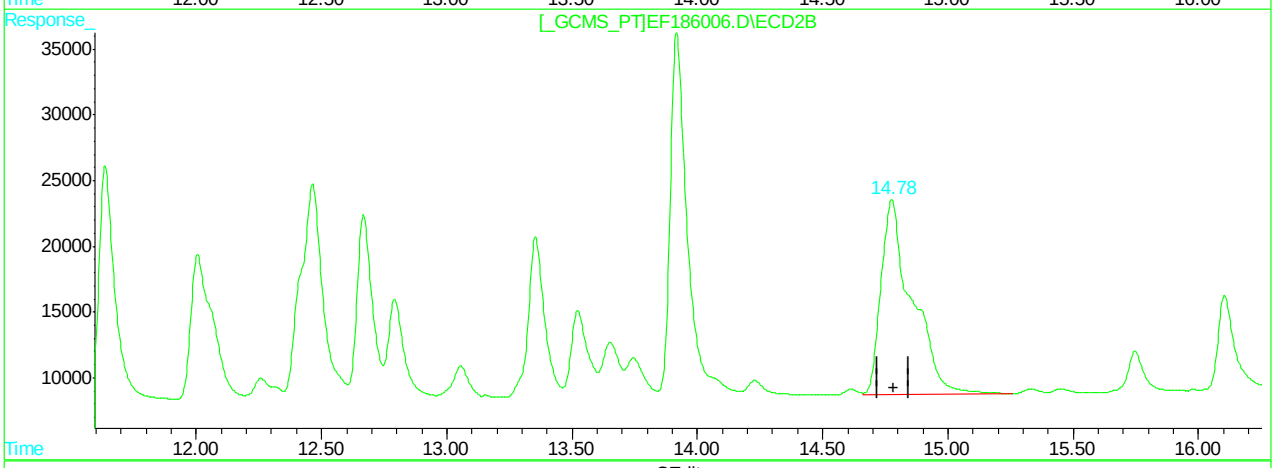
(+) = Expected Retention Time
EF186006.D PCB6325.M Wed Dec 05 09:04:42 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD1A.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186006.D\ECD2B.CH
Acq On : 4 Dec 2018 4:38 pm Operator: tianweir
Sample : ic6325-500 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:04 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.68min 637.252PPB m

response 798605

(50) AR1260-E #2

14.78min 561.506PPB

response 1278988

(+) = Expected Retention Time
EF186006.D PCB6325.M Wed Dec 05 09:04:48 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD2B.CH
Acq On : 4 Dec 2018 5:03 pm Operator: tianweir
Sample : icc6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:08 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	574499	718752	40.190	43.569
	Spiked Amount 40.000			Recovery =		100.48%	108.92%
51) S	Decachlorobiphen	15.17	17.47	760184	998766	48.987	39.191m
	Spiked Amount 40.000			Recovery =		122.47%	97.98%
	Target Compounds						
41)	AR1016-A	4.26	5.26	369037	408317	1004.920	1089.655
42)	AR1016-B	4.88	6.09	638841	808634	977.379	1022.713
43)	AR1016-C	5.72	7.03	1319109	1617994	1164.903	1089.394
44)	AR1016-D	5.98	7.32	511494	722243	1080.517	1069.355
45)	AR1016-E	6.79	8.34	547703	483595	1077.037	1028.475
46)	AR1260-A	10.56	12.46	1322223	1949585	1218.847	1089.589
47)	AR1260-B	10.82	12.66	630229	1113115	1090.668	1046.070
48)	AR1260-C	11.36	13.35	653397	1062785	1188.787	1053.683
49)	AR1260-D	12.05	13.91	1608581	2541573	1236.255	1106.003
50)	AR1260-E	12.68	14.77	1591547	2516149	1269.985m	1104.649

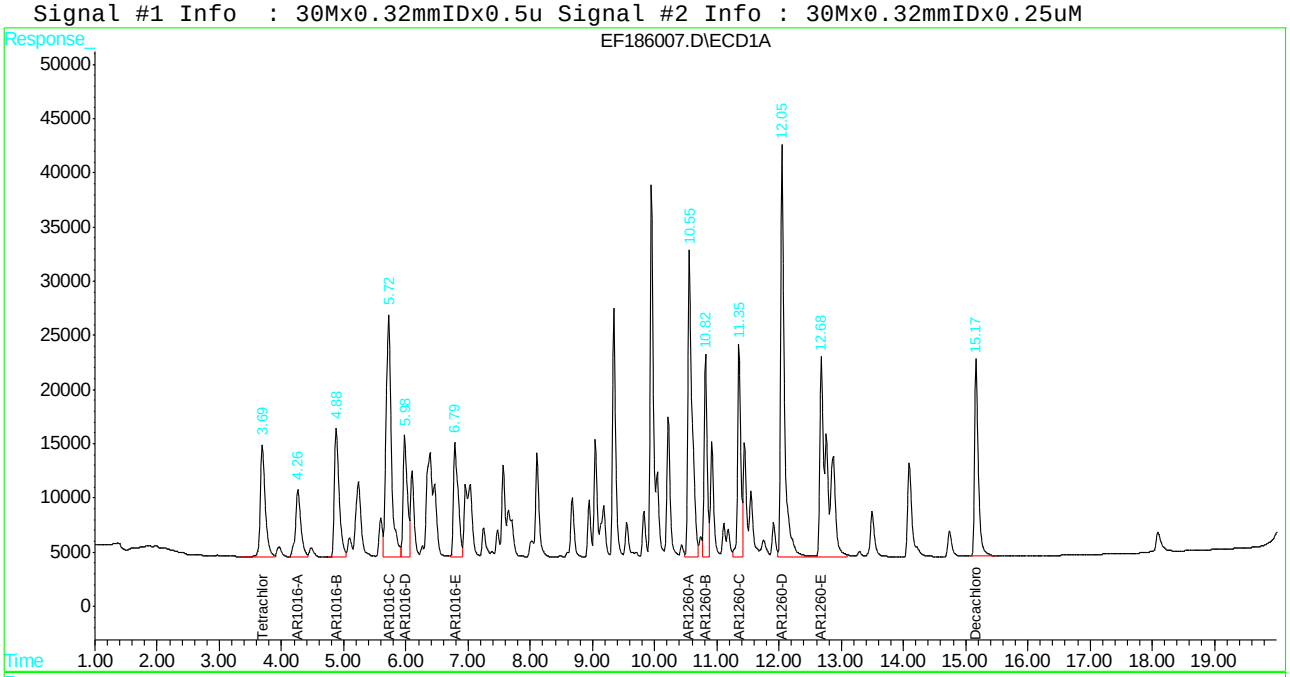
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186007.D PCB6325.M Wed Dec 05 09:08:51 2018 GCEF Page 1

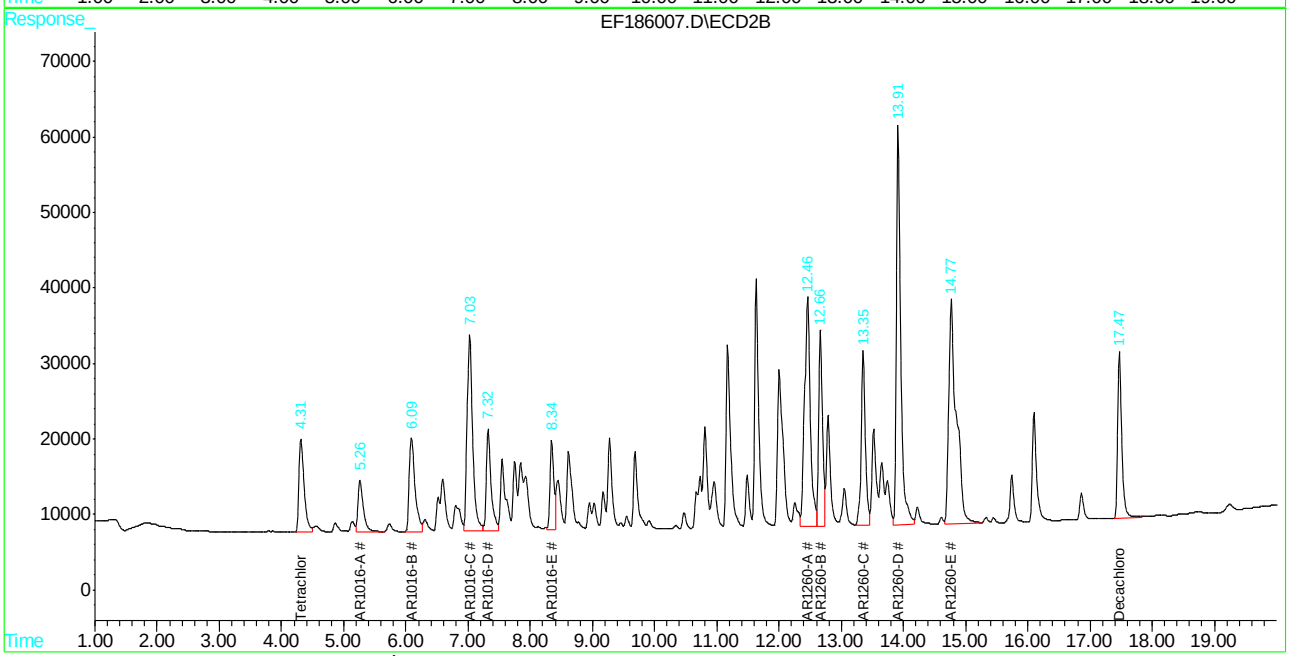
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD2B.CH
Acq On    :  4 Dec 2018   5:03 pm                    Operator: tianweir
Sample    : icc6325-1000                             Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:08 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

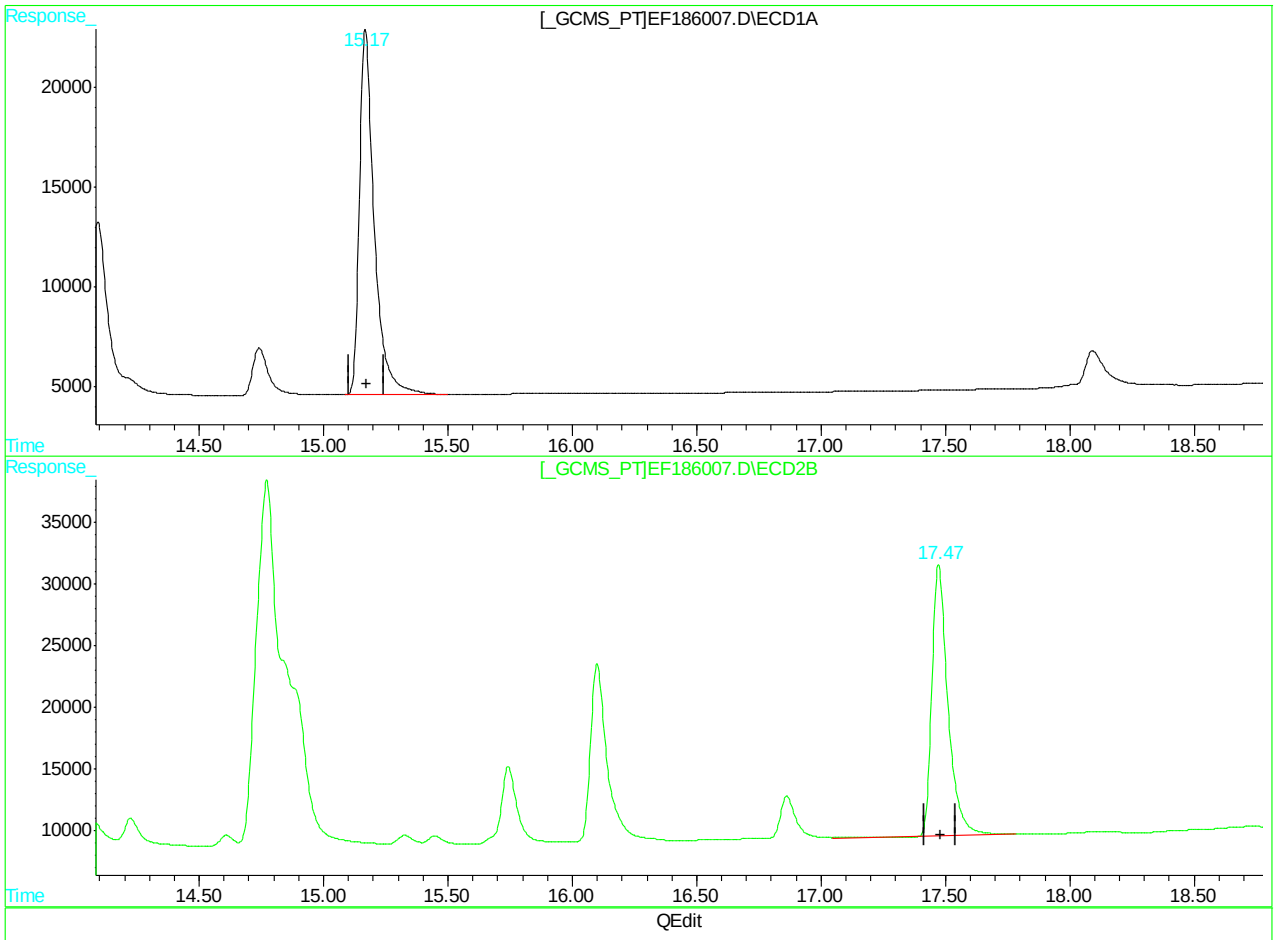
Sample Number:	GEF6325-ICC6325	**Method:**	SW846 8082A
Lab FileID:	EF186007.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 17:03	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.68	Split peak
Decachlorobiphenyl	2051-24-3	2	17.47	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD2B.CH
Acq On : 4 Dec 2018 5:03 pm Operator: tianweir
Sample : icc6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:08 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

15.17min 48.987PPB

response 760184

(51) Decachlorobiphenyl #2 (S)

17.47min 38.467PPB

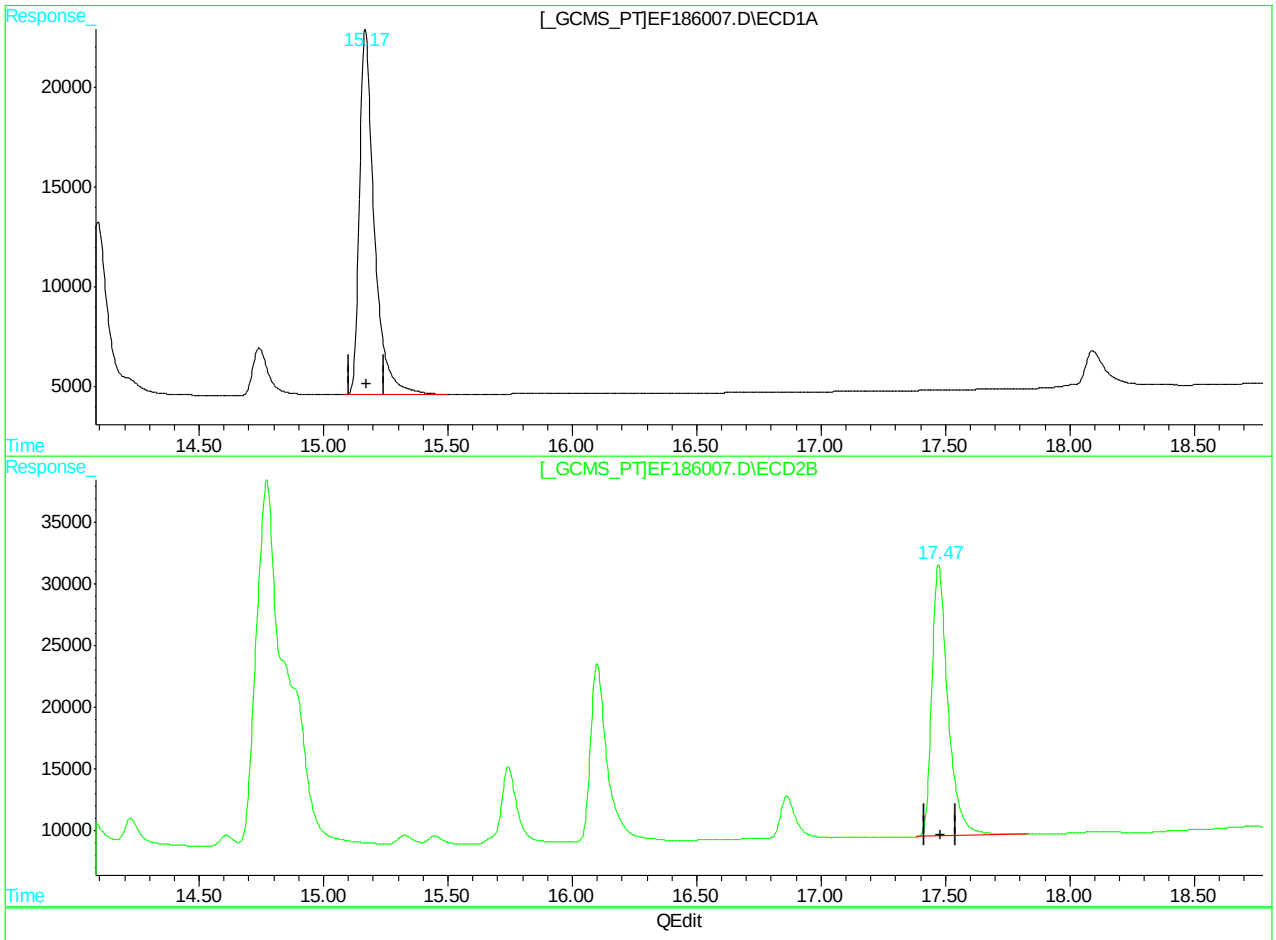
response 980314

(+) = Expected Retention Time
EF186007.D PCB6325.M Wed Dec 05 09:08:17 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD2B.CH
Acq On : 4 Dec 2018 5:03 pm Operator: tianweir
Sample : icc6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:08 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

15.17min 48.987PPB

response 760184

(51) Decachlorobiphenyl #2 (S)

17.47min 39.191PPB m

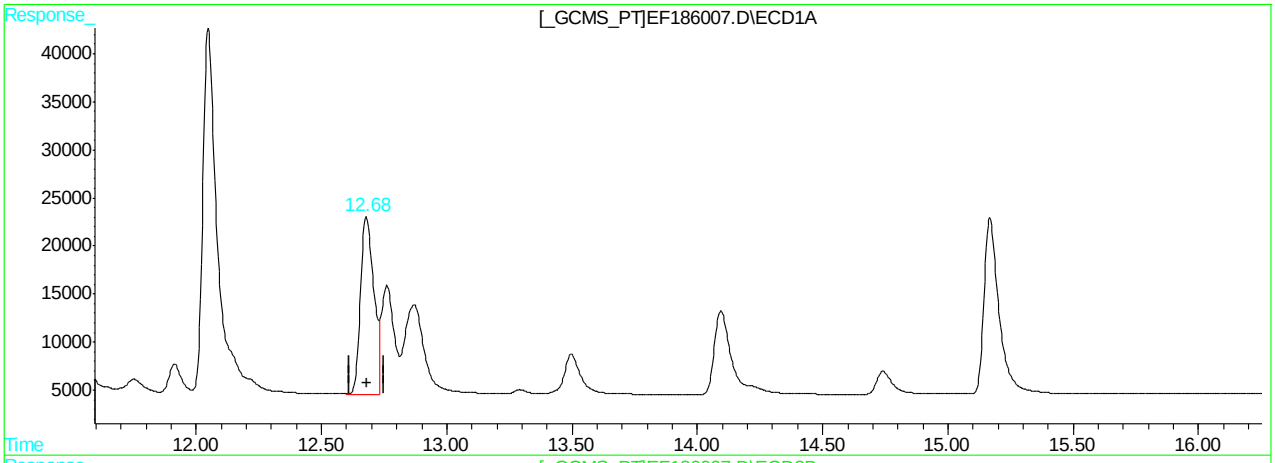
response 998766

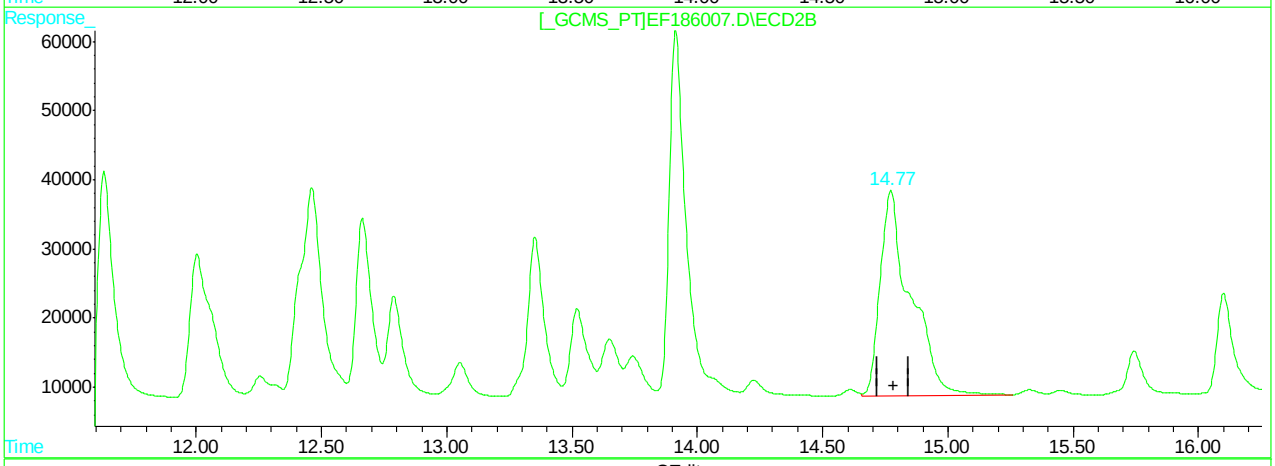
(+) = Expected Retention Time
EF186007.D PCB6325.M Wed Dec 05 09:08:23 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD2B.CH
Acq On : 4 Dec 2018 5:03 pm Operator: tianweir
Sample : icc6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:08 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.68min 538.378PPB

response 674696

(50) AR1260-E #2

14.77min 1104.649PPB

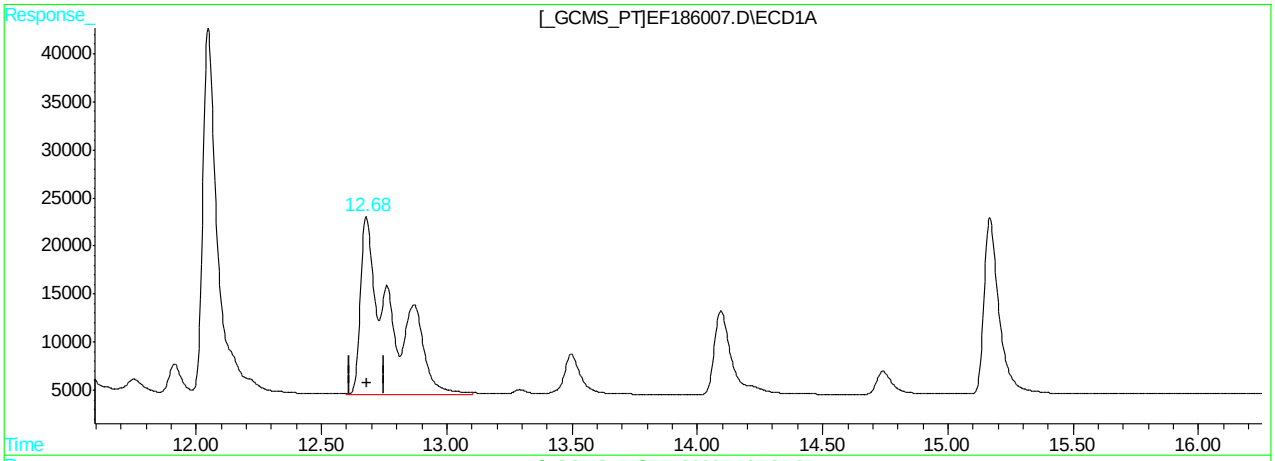
response 2516149

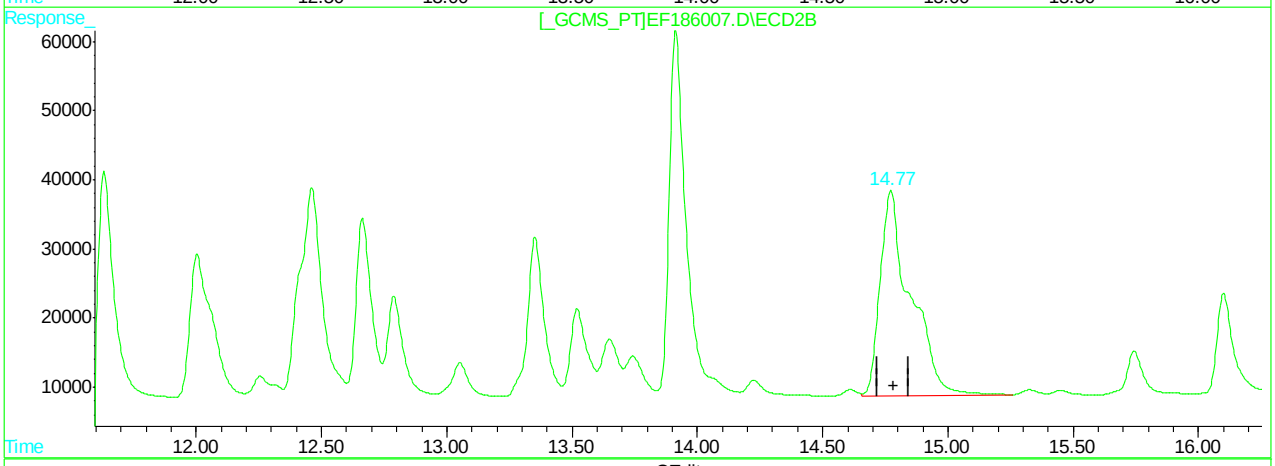
(+) = Expected Retention Time
EF186007.D PCB6325.M Wed Dec 05 09:08:39 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD1A.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186007.D\ECD2B.CH
Acq On : 4 Dec 2018 5:03 pm Operator: tianweir
Sample : icc6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:08 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.68min 1269.985PPB m

response 1591547

(50) AR1260-E #2

14.77min 1104.649PPB

response 2516149

(+) = Expected Retention Time
EF186007.D PCB6325.M Wed Dec 05 09:08:44 2018 GCEF

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD2B.CH
Acq On : 4 Dec 2018 5:28 pm Operator: tianweir
Sample : ic6325-2000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:09 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	1171488	1422907	81.954	86.252
	Spiked Amount 40.000			Recovery	=	204.88%	215.63%
51) S	Decachlorobiphen	15.17	17.47	1412258	1885364	91.007	73.980
	Spiked Amount 40.000			Recovery	=	227.52%	184.95%
	Target Compounds						
41)	AR1016-A	4.26	5.26	687377	745707	1871.789	1990.032
42)	AR1016-B	4.88	6.09	1152407	1460838	1763.097	1847.583
43)	AR1016-C	5.72	7.03	2451309	2918934	2164.748	1965.316
44)	AR1016-D	5.98	7.32	948625	1316400	2003.945	1949.067
45)	AR1016-E	6.79	8.34	1017803	881554	2001.468	1874.825
46)	AR1260-A	10.55	12.46	2482313	3632599	2288.237	2030.196
47)	AR1260-B	10.82	12.66	1153173	2039932	1995.669	1917.063
48)	AR1260-C	11.36	13.35	1224289	2021925	2227.465	2004.607
49)	AR1260-D	12.05	13.91	3034272	4828453	2331.953	2101.173
50)	AR1260-E	12.67	14.77	3100430	4961457	2474.006m	2178.196

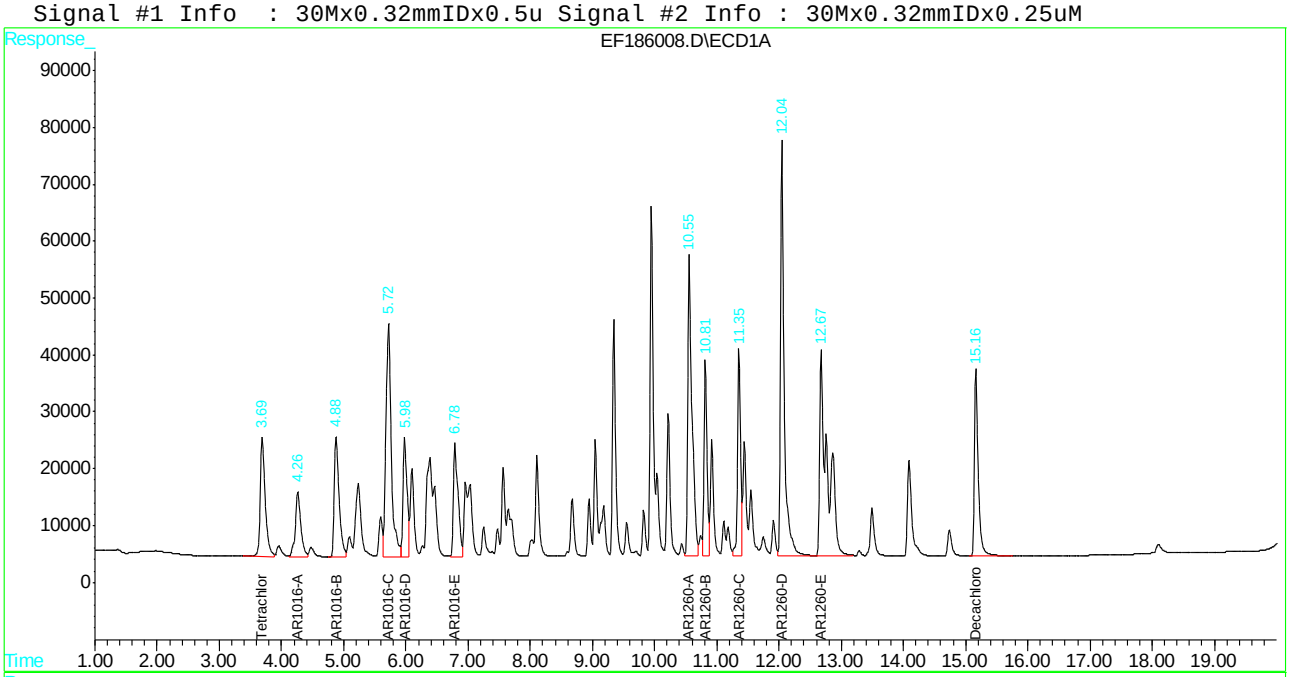
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186008.D PCB6325.M Wed Dec 05 09:09:30 2018 GCEF Page 1

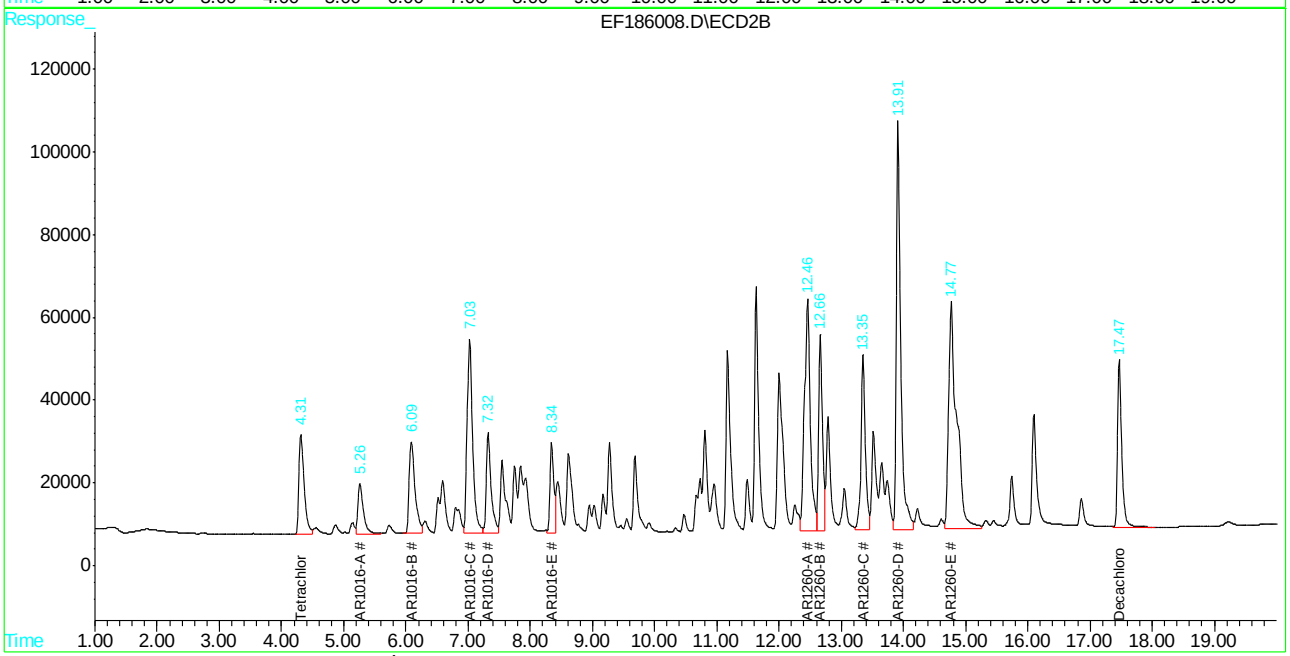
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD2B.CH
Acq On    :  4 Dec 2018   5:28 pm                    Operator: tianweir
Sample    : ic6325-2000                              Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:09 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

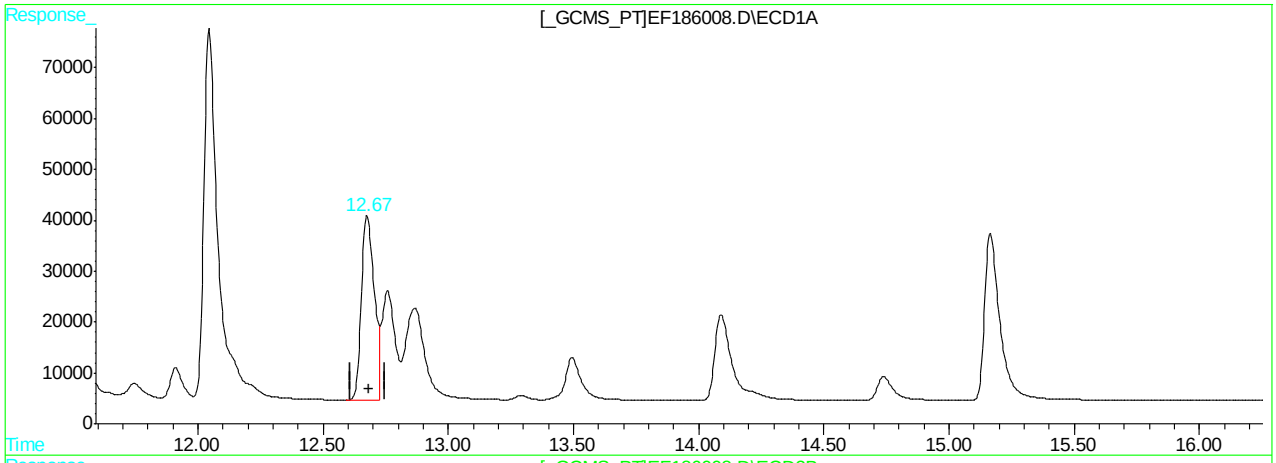
Sample Number:	GEF6325-IC6325	**Method:**	SW846 8082A
Lab FileID:	EF186008.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 17:28	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

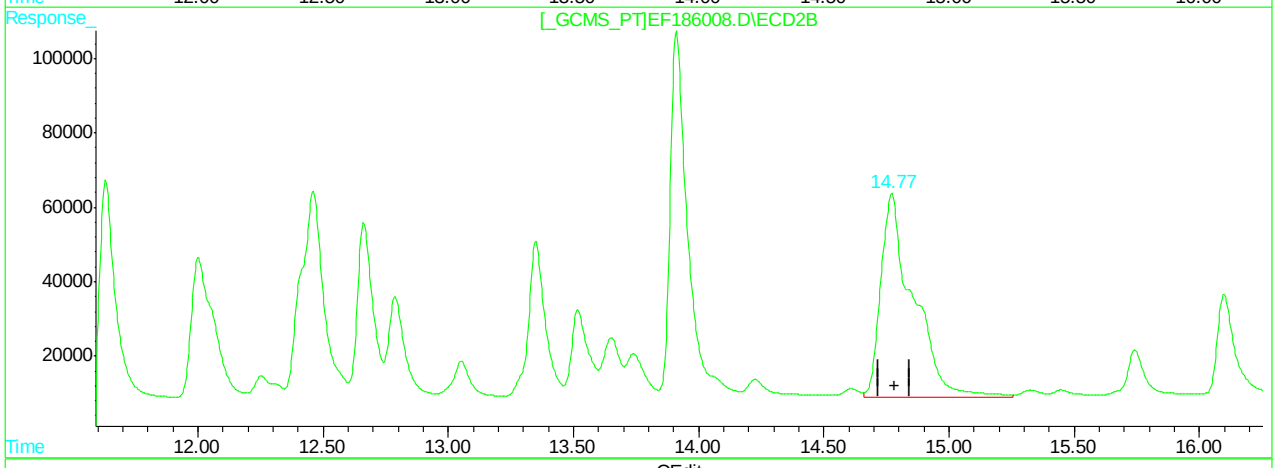
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.67	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD2B.CH
Acq On : 4 Dec 2018 5:28 pm Operator: tianweir
Sample : ic6325-2000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:08 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.68min 1043.262PPB

response 1307418

(50) AR1260-E #2

14.77min 2178.196PPB

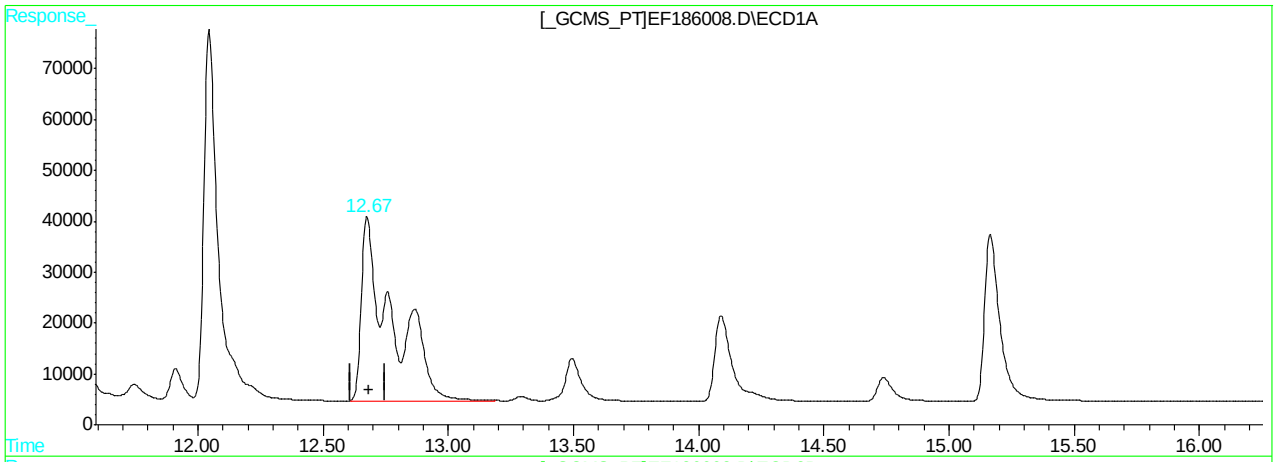
response 4961457

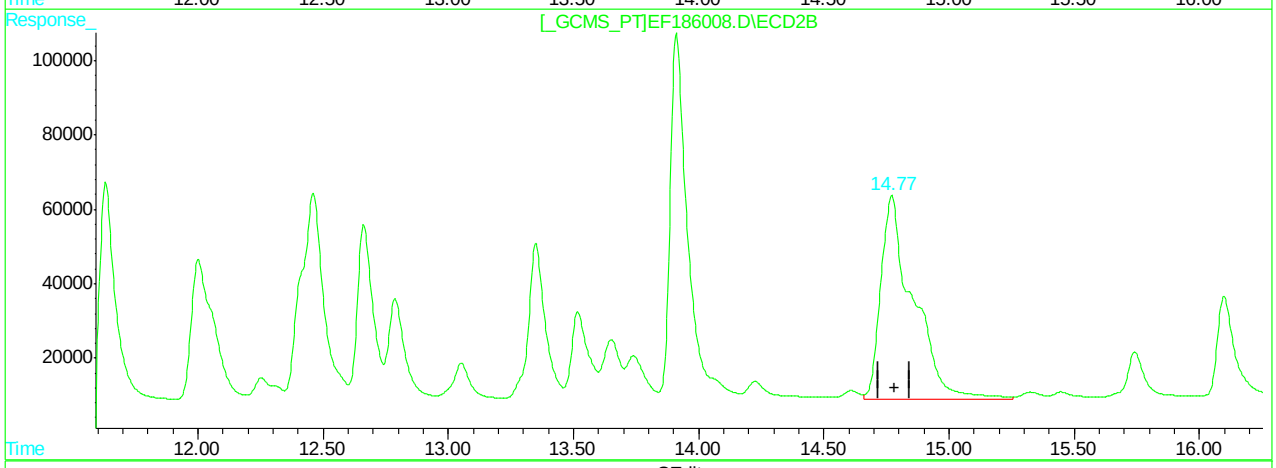
(+) = Expected Retention Time
EF186008.D PCB6325.M Wed Dec 05 09:09:19 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD1A.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186008.D\ECD2B.CH
Acq On : 4 Dec 2018 5:28 pm Operator: tianweir
Sample : ic6325-2000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:08 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.67min 2474.006PPB m

response 3100430

(50) AR1260-E #2

14.77min 2178.196PPB

response 4961457

(+) = Expected Retention Time
EF186008.D PCB6325.M Wed Dec 05 09:09:23 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD2B.CH
Acq On : 4 Dec 2018 5:53 pm Operator: tianweir
Sample : ic6325-3000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:10 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	1763099	2138078	123.342	129.604
	Spiked Amount 40.000			Recovery	=	308.35%	324.01%
51) S	Decachlorobiphen	15.17	17.47	2016235	2749672	129.928	107.895
	Spiked Amount 40.000			Recovery	=	324.82%	269.74%
	Target Compounds						
41)	AR1016-A	4.26	5.26	985246	1072229	2682.909	2861.407
42)	AR1016-B	4.88	6.09	1627332	2048715	2489.697	2591.095
43)	AR1016-C	5.72	7.03	3512871	4121502	3102.212	2775.003
44)	AR1016-D	5.98	7.32	1353507	1868654	2859.247	2766.735
45)	AR1016-E	6.79	8.34	1462885	1287976	2876.704	2739.175
46)	AR1260-A	10.55	12.46	3579913	5152987	3300.023	2879.914
47)	AR1260-B	10.82	12.66	1645214	2862397	2847.192	2689.990
48)	AR1260-C	11.35	13.35	1764185	2817578	3209.750	2793.446
49)	AR1260-D	12.05	13.91	4385927	6826023	3370.751	2970.446
50)	AR1260-E	12.67	14.77	4439140	6866431	3542.238m	3014.524

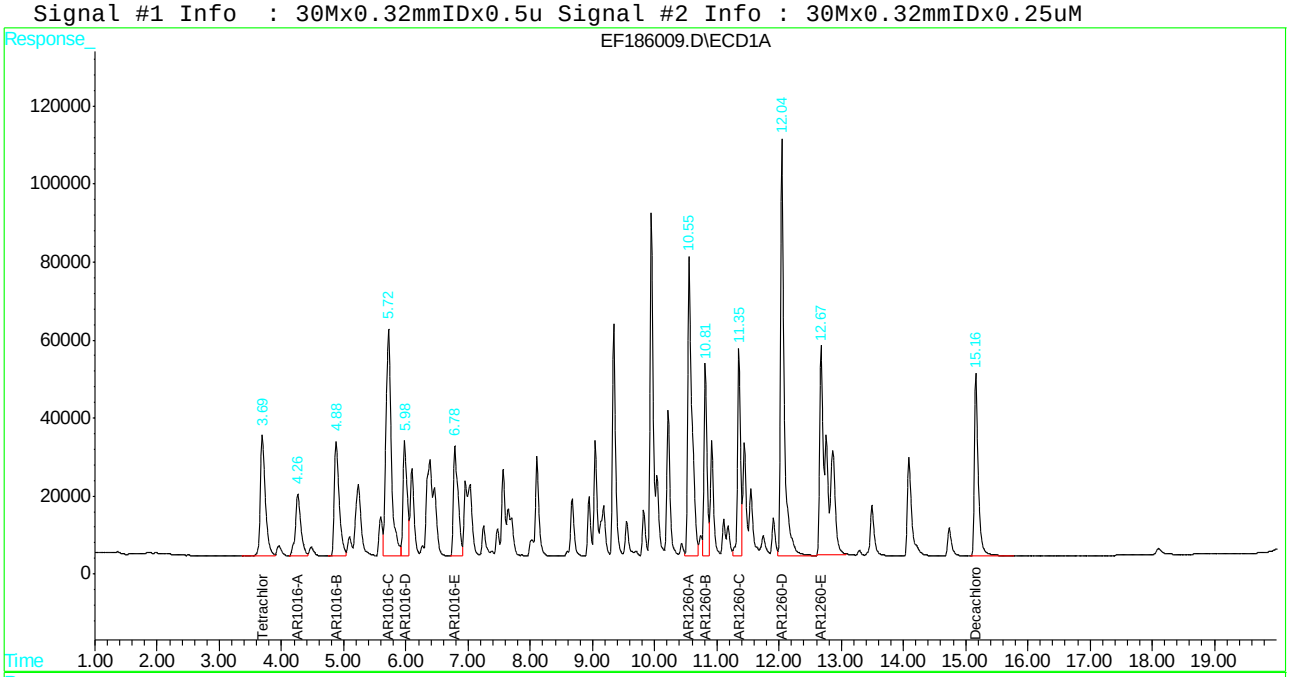
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186009.D PCB6325.M Wed Dec 05 09:10:11 2018 GCEF Page 1

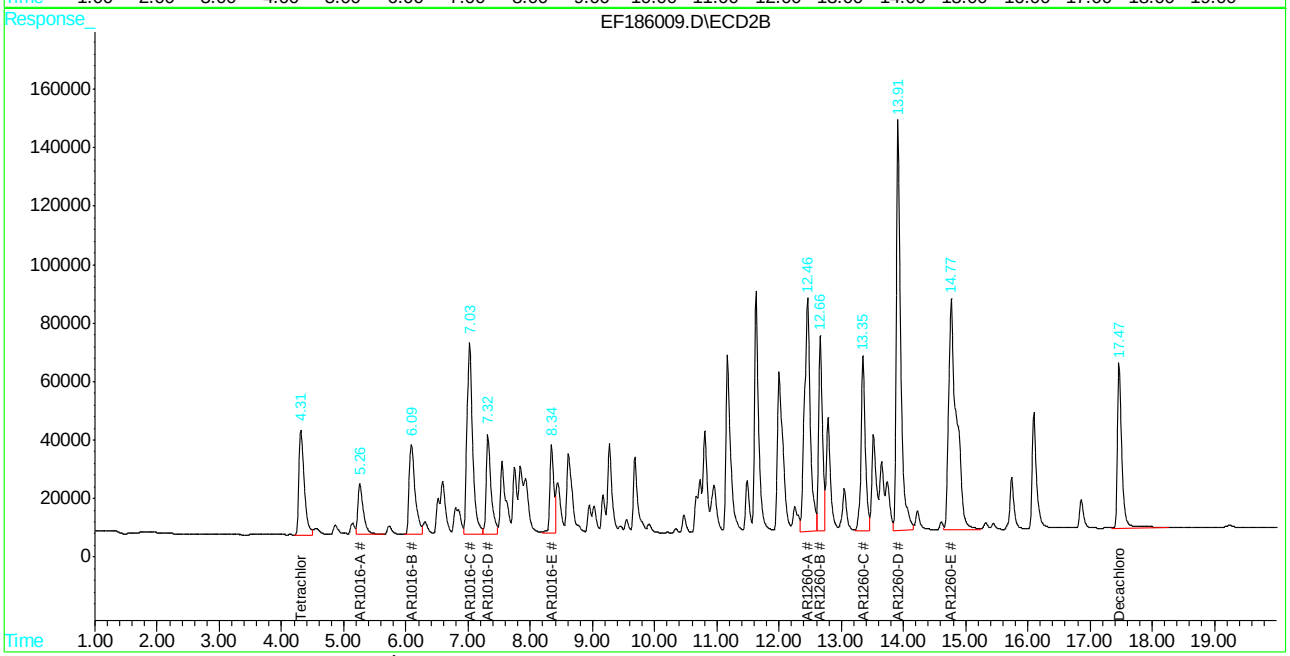
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD2B.CH
Acq On : 4 Dec 2018 5:53 pm Operator: tianweir
Sample : ic6325-3000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:10 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

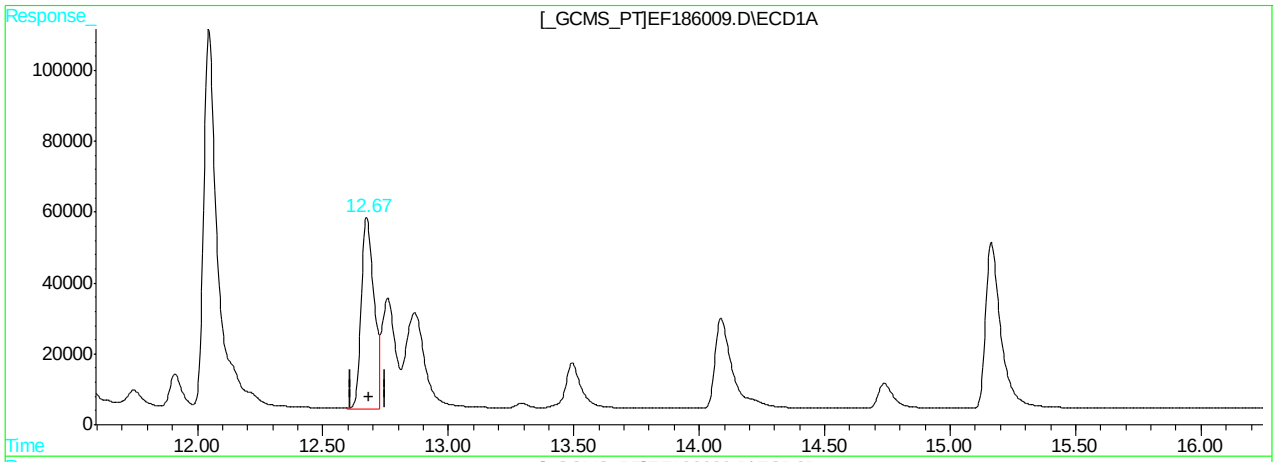
Sample Number:	GEF6325-IC6325	**Method:**	SW846 8082A
Lab FileID:	EF186009.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 17:53	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.67	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD2B.CH
Acq On : 4 Dec 2018 5:53 pm Operator: tianweir
Sample : ic6325-3000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:09 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration



(50) AR1260-E

12.68min 1537.484PPB

response 1926779

(50) AR1260-E #2

14.77min 3014.524PPB

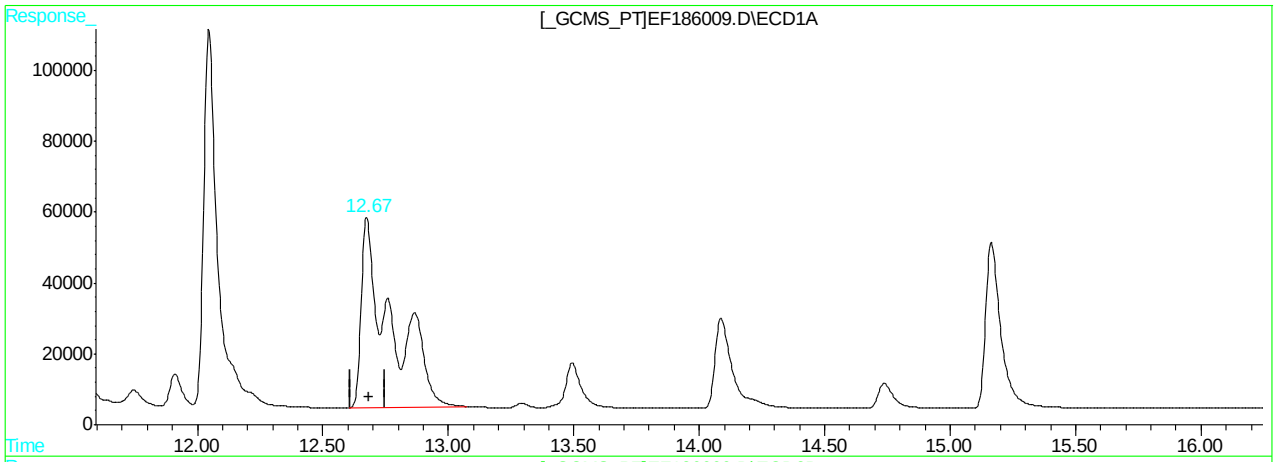
response 6866431

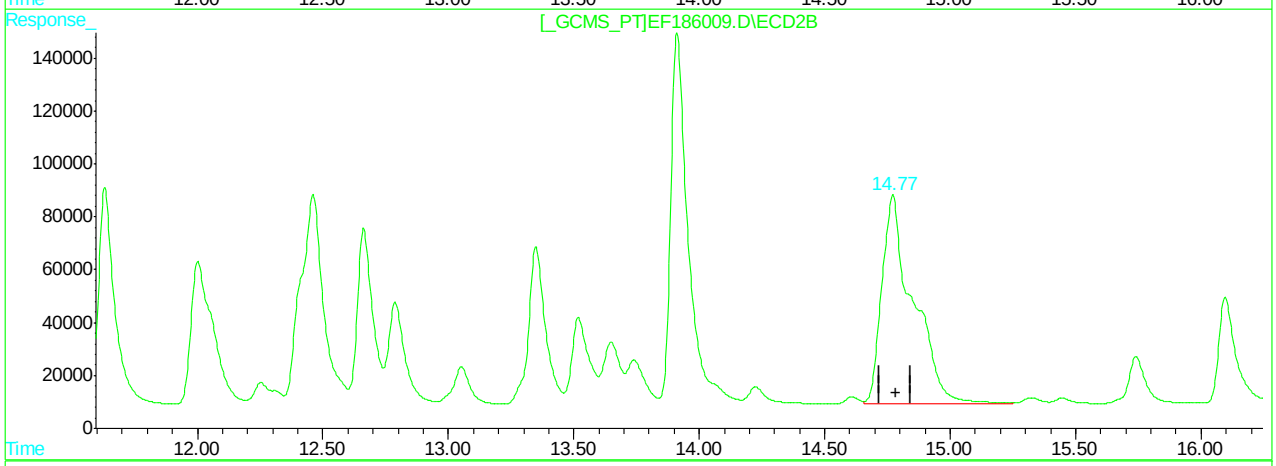
(+) = Expected Retention Time
EF186009.D PCB6325.M Wed Dec 05 09:09:58 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD1A.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186009.D\ECD2B.CH
Acq On : 4 Dec 2018 5:53 pm Operator: tianweir
Sample : ic6325-3000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:09 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Mon Nov 19 10:18:26 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.67min 3542.238PPB m

response 4439140

(50) AR1260-E #2

14.77min 3014.524PPB

response 6866431

(+) = Expected Retention Time
EF186009.D PCB6325.M Wed Dec 05 09:10:03 2018 GCEF

EF186010.D

Manual Integrations APPROVED (compounds with "m" flag)

Gwendolyn Burns 12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD2B.CH
Acq On : 4 Dec 2018 6:18 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:25 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:15:58 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1) S	Tetrachloro-m-xy	3.69	4.31	702995	822044	50.295	46.718	
Spiked Amount	40.000			Recovery	=	125.74%	116.80%	
51) S	Decachlorobiphen	15.17	17.47	879642	1162708	46.033	46.650	
Spiked Amount	40.000			Recovery	=	115.08%	116.63%	
	Target Compounds							
2)	AR1221-A	2.96	3.54	145485	154516	872.860	863.895	
3)	AR1221-B	3.96	4.86	188376	241969	988.155	1032.387	
4)	AR1221-C	4.26	5.26	622657	647532	999.352	1023.010	
5)	AR1221-D	4.88	6.08	113099	121104	1558.786m	962.858	#
6)	AR1221-E	5.10	6.19	84145	134221	1137.342	997.650	
24)	AR1254-A	7.56	9.27	515870	928469	1024.632	1081.220	
25)	AR1254-B	8.11	9.68	781309	956518	1057.208	1066.656	
26)	AR1254-C	8.69	10.47	561732	688796	1078.159	1070.865	
27)	AR1254-D	8.94	10.73	956876	1543647	1096.087	1064.261	
28)	AR1254-E	9.55	11.23	837440	1370622	1226.757	816.624	#
29)	AR1254-F	9.95	12.04	720327	1145165	1070.861	1075.885	
30)	AR1254-G	10.56	12.47	978879	1443699	1149.115	1072.141	

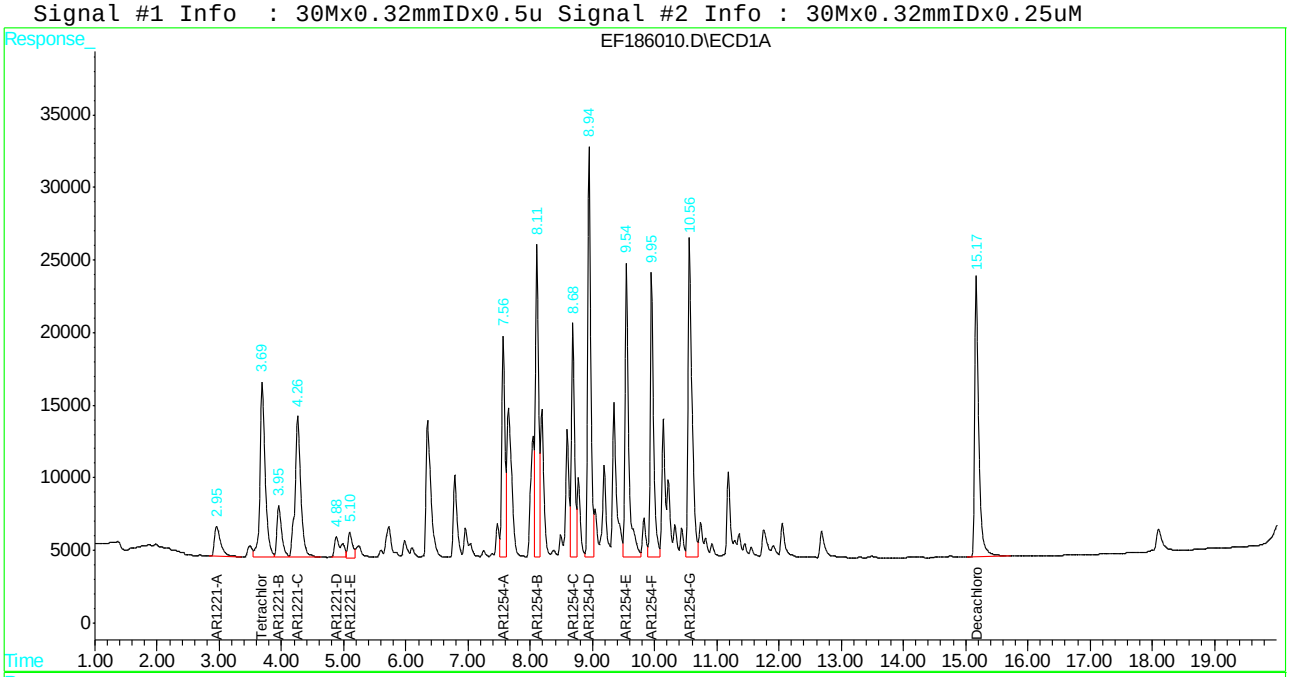
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

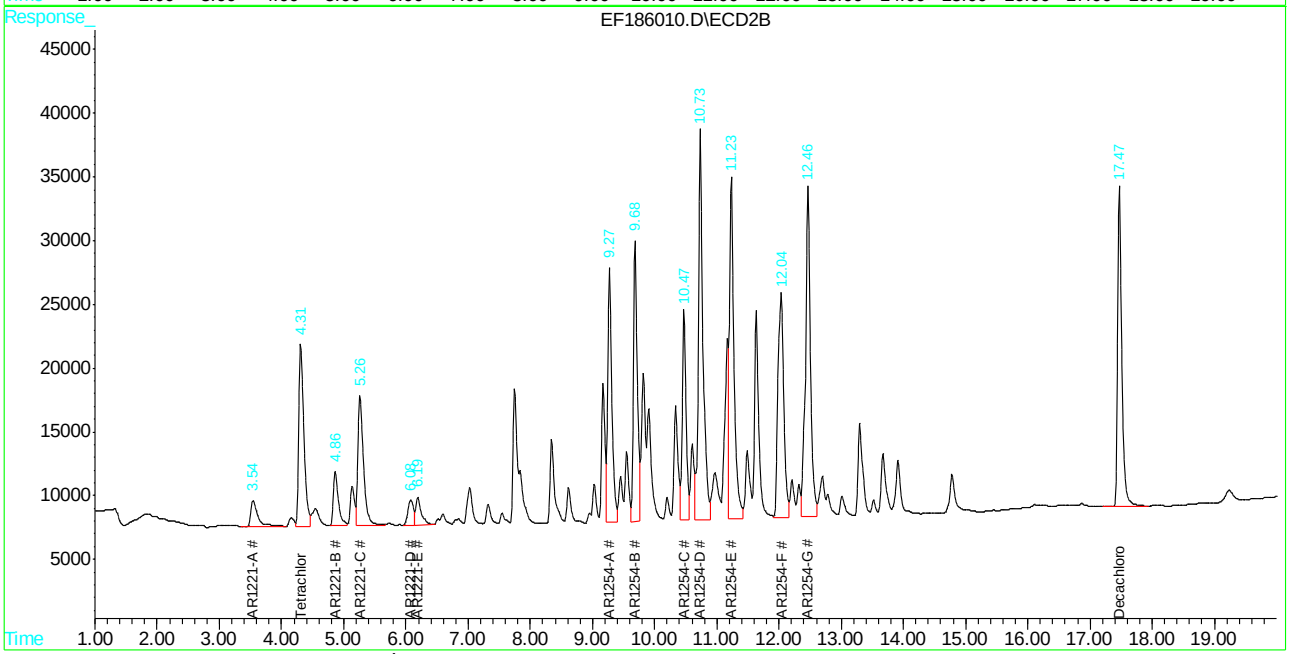
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD2B.CH
Acq On    :  4 Dec 2018   6:18 pm                    Operator: tianweir
Sample    : ic6325-1000                              Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:25 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Dec 05 09:15:58 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

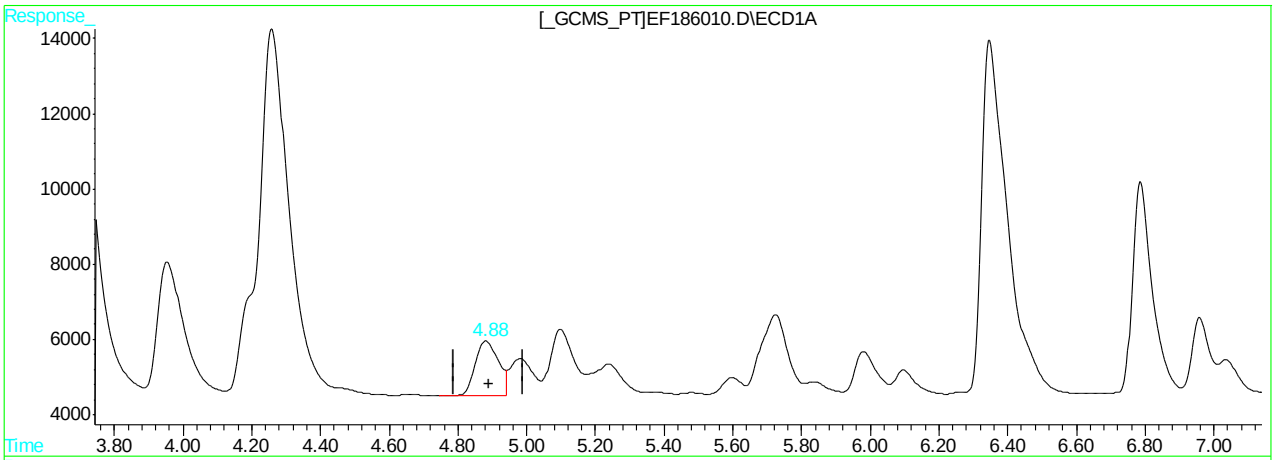
Sample Number:	GEF6325-IC6325	**Method:**	SW846 8082A
Lab FileID:	EF186010.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 18:18	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

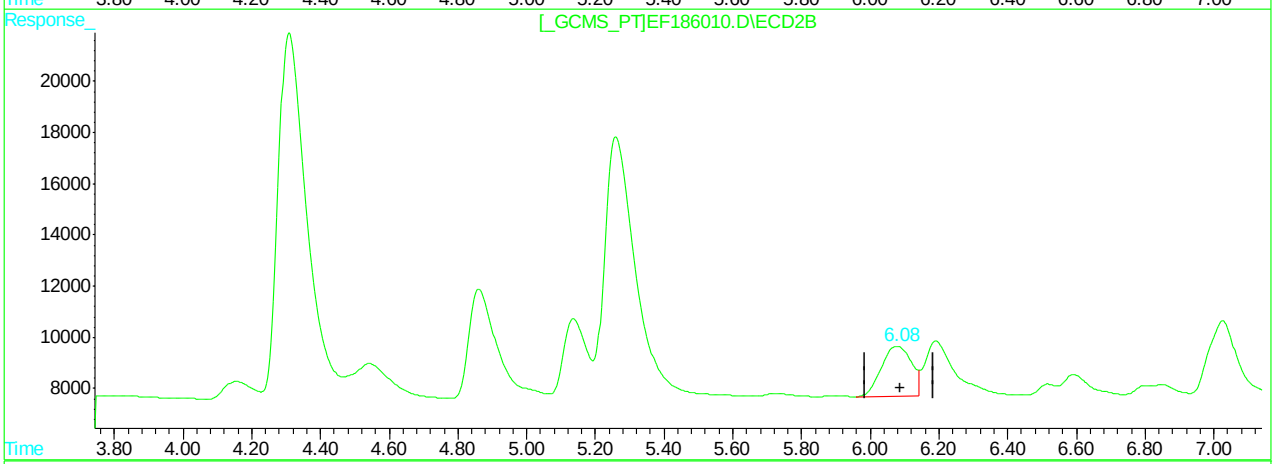
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1221-D		1	4.88	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD2B.CH
Acq On : 4 Dec 2018 6:18 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:17 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:24:20 2018
Response via : Single Level Calibration





QEdit

(5) AR1221-D

4.88min 924.632PPB

response 67087

(5) AR1221-D #2

6.08min 962.858PPB

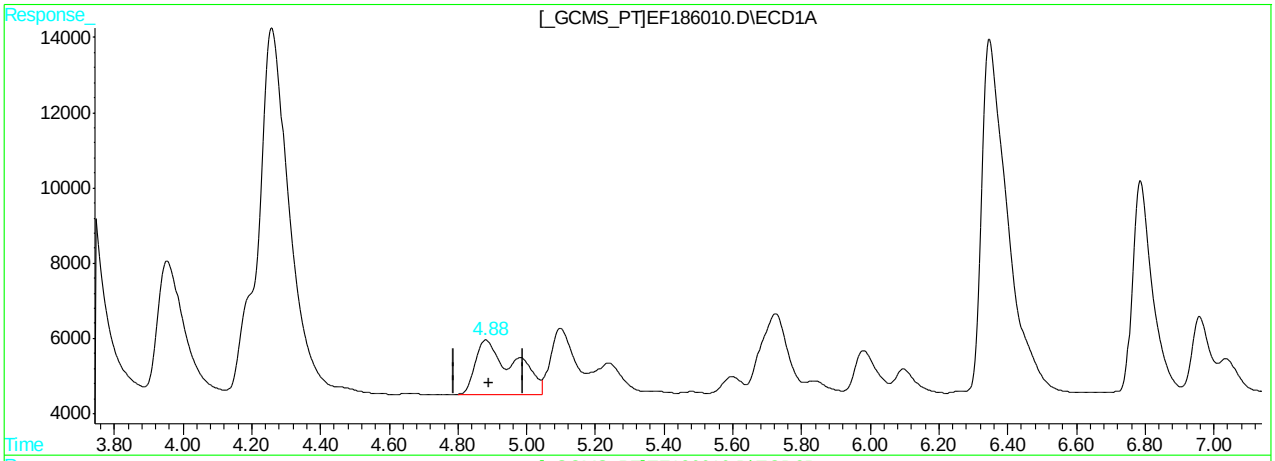
response 121104

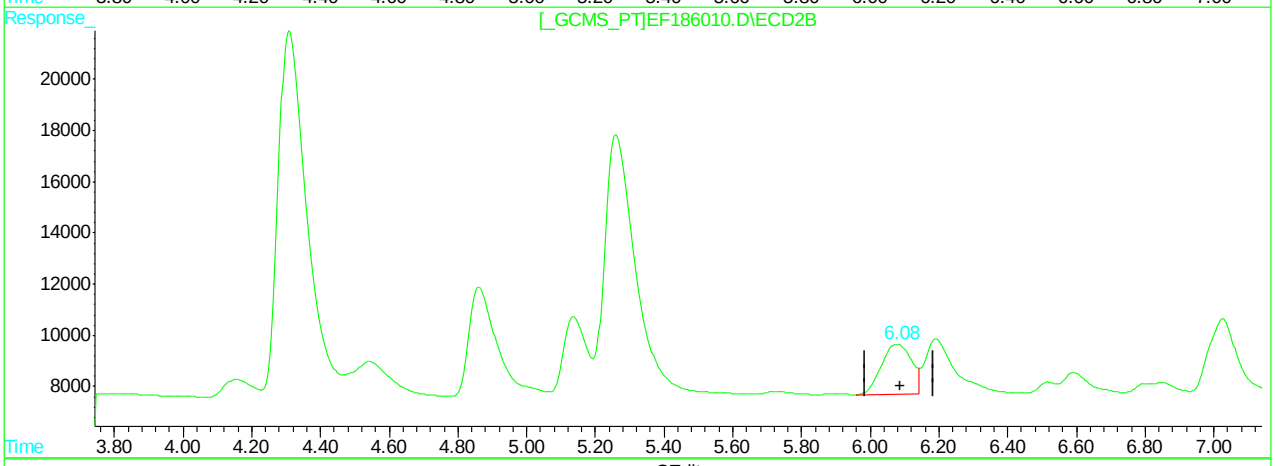
(+) = Expected Retention Time
EF186010.D PCB6325.M Wed Dec 05 09:25:26 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD1A.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186010.D\ECD2B.CH
Acq On : 4 Dec 2018 6:18 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:17 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:24:20 2018
Response via : Single Level Calibration





QEdit

(5) AR1221-D

4.88min 1558.786PPB m

response 113099

(5) AR1221-D #2

6.08min 962.858PPB

response 121104

(+) = Expected Retention Time
EF186010.D PCB6325.M Wed Dec 05 09:25:31 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD2B.CH
Acq On : 4 Dec 2018 6:43 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:19 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:15:58 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.69	4.31	617550	744064	44.182	42.287
	Spiked Amount 40.000			Recovery =		110.46%	105.72%
51)	S Decachlorobiphen	15.17	17.47	803153	1077299	42.031	43.223
	Spiked Amount 40.000			Recovery =		105.08%	108.06%
	Target Compounds						
7)	AR1232-A	4.26	5.26	493071	528925	1004.334	1043.905
8)	AR1232-B	4.88	6.09	351262	495284	994.418	1054.468
9)	AR1232-C	5.72	7.03	661625	843096	1189.251	1115.872
10)	AR1232-D	5.98	7.32	255598	365619	1067.345	1071.119
11)	AR1232-E	6.79	8.61	253913	257892	1071.103	1043.683
31)	AR1262-A	9.95	11.63	778533	1136347	1104.837	1067.489
32)	AR1262-B	10.81	12.66	939489	1646962	1091.189	1069.232
33)	AR1262-C	11.35	13.35	836059	1327020	1097.225	1043.898
34)	AR1262-D	12.05	13.91	1918930	2990271	1174.276	1079.588
35)	AR1262-E	12.76	14.75	2240711	3675234	1194.290m	1060.781m

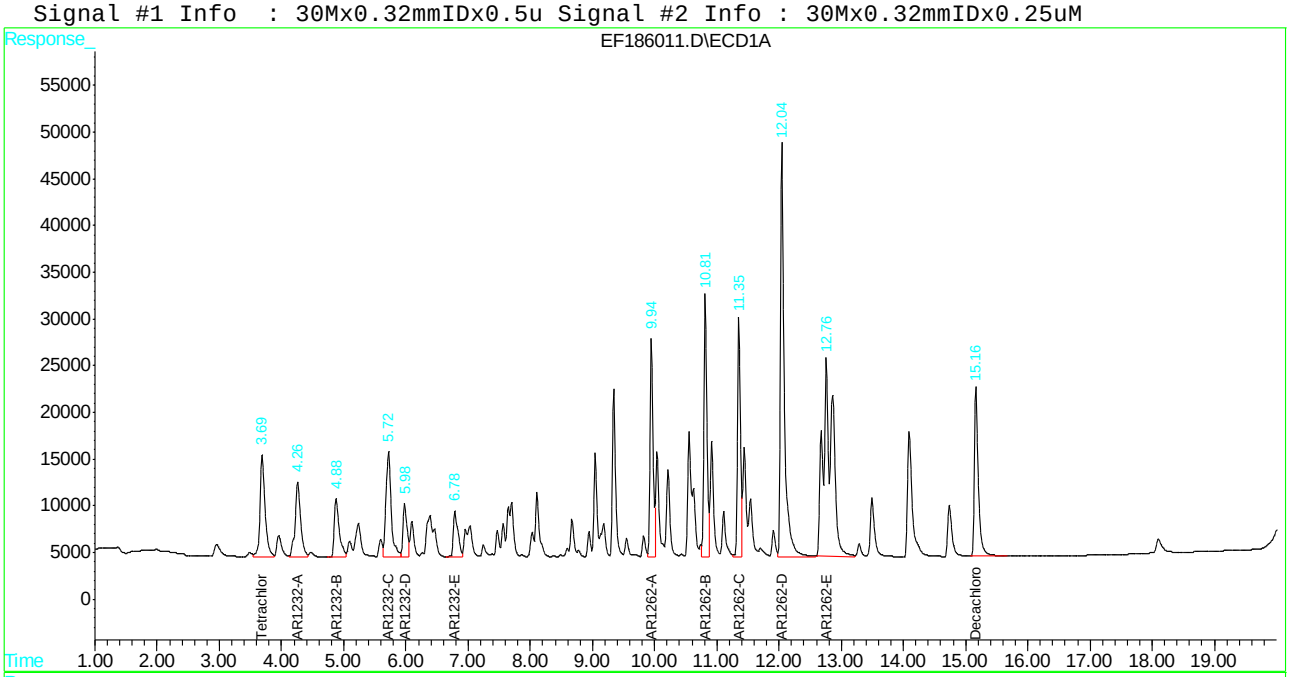
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186011.D PCB6325.M Wed Dec 05 09:19:11 2018 GCEF Page 1

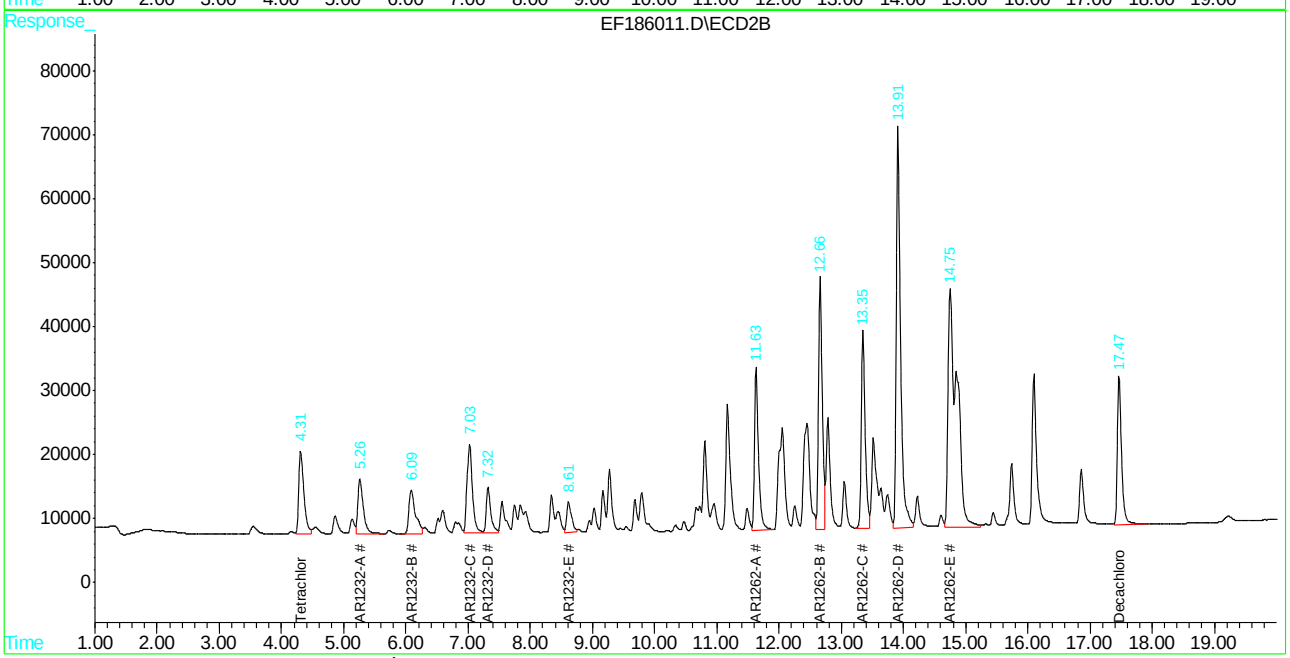
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD2B.CH
Acq On    :  4 Dec 2018   6:43 pm                    Operator: tianweir
Sample    : ic6325-1000                              Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:19 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Dec 05 09:15:58 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

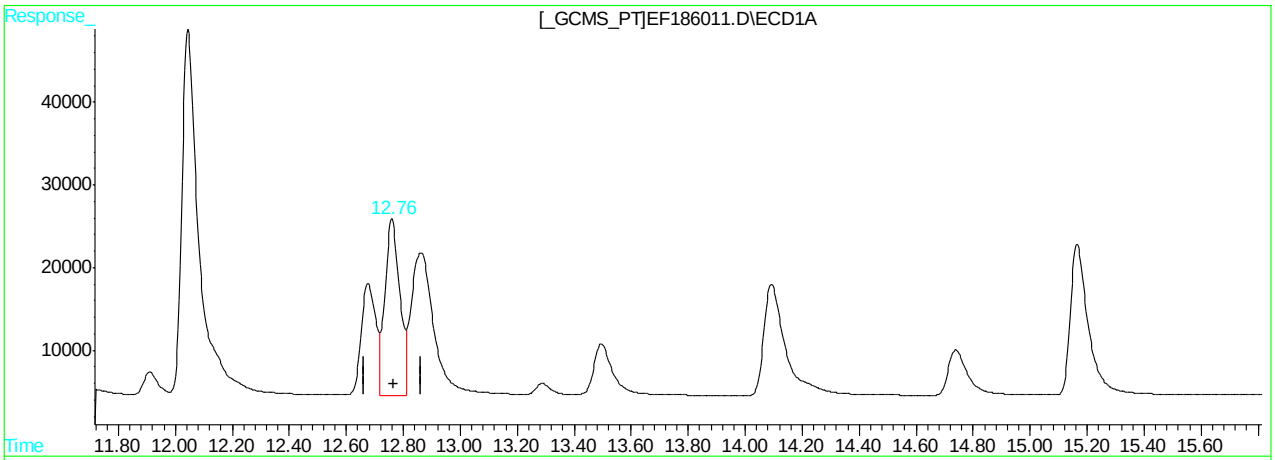
Sample Number:	GEF6325-IC6325	**Method:**	SW846 8082A
Lab FileID:	EF186011.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 18:43	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

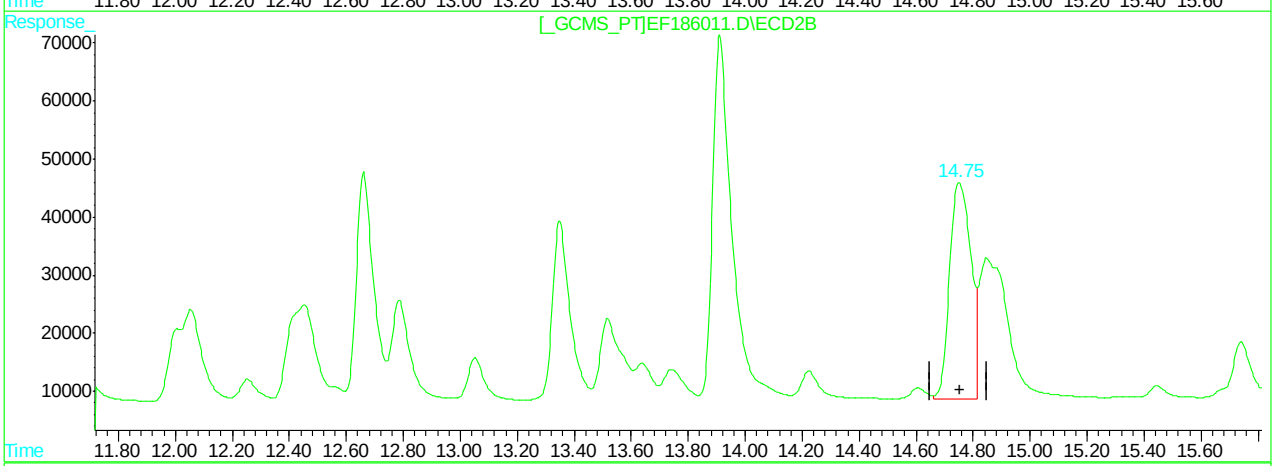
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ar1262-E		1	12.76	Split peak
Ar1262-E		2	14.75	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD2B.CH
Acq On : 4 Dec 2018 6:43 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:18 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:15:58 2018
Response via : Single Level Calibration





QEdit

(35) AR1262-E

12.76min 415.887PPB

response 780281

(35) AR1262-E #2

14.75min 561.077PPB

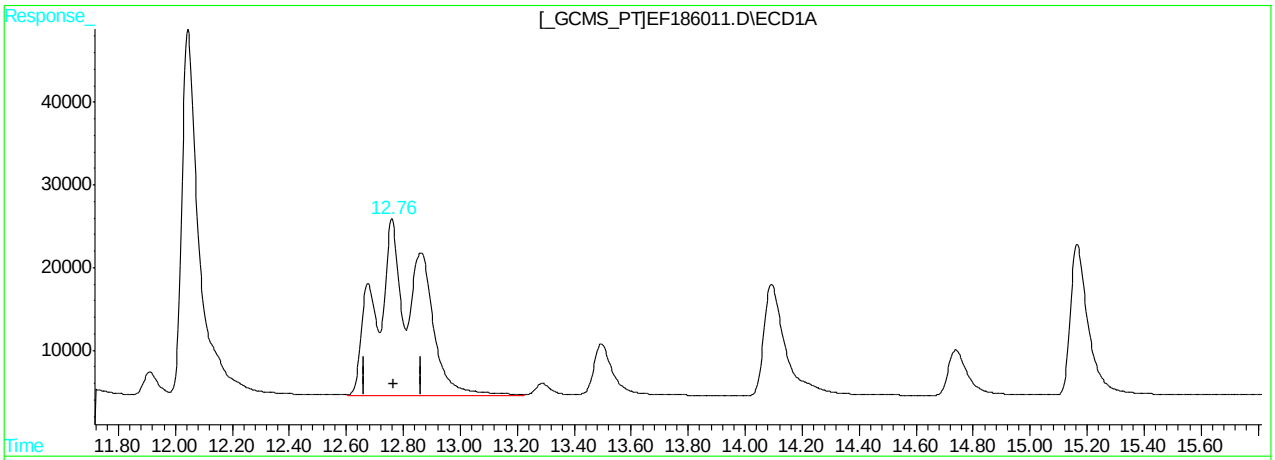
response 1943935

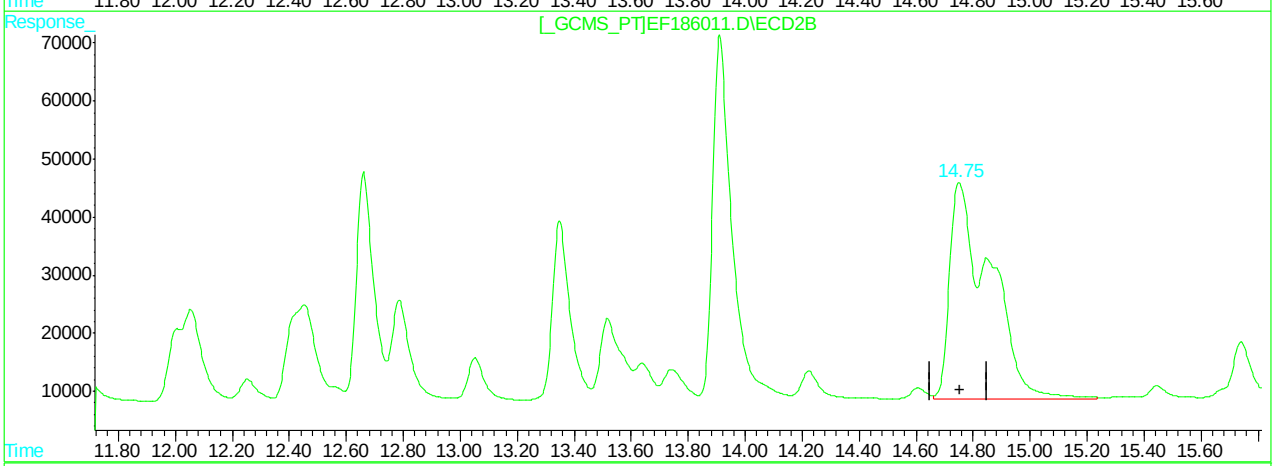
(+) = Expected Retention Time
EF186011.D PCB6325.M Wed Dec 05 09:18:55 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD1A.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186011.D\ECD2B.CH
Acq On : 4 Dec 2018 6:43 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:18 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:15:58 2018
Response via : Single Level Calibration





QEdit

(35) AR1262-E

12.76min 1194.290PPB m

response 2240711

(35) AR1262-E #2

14.75min 1060.781PPB m

response 3675234

(+) = Expected Retention Time
EF186011.D PCB6325.M Wed Dec 05 09:19:03 2018 GCEF

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186012.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186012.D\ECD2B.CH
Acq On : 4 Dec 2018 7:08 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:19 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:15:58 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	679043	859886	48.582	48.869
	Spiked Amount 40.000			Recovery =		121.46%	122.17%
51) S	Decachlorobiphen	15.16	17.47	2171130	2859574	113.620	114.732
	Spiked Amount 40.000			Recovery =		284.05%	286.83%
	Target Compounds						
12)	AR1242-A	4.88	6.09	533593	681306	998.314	1057.827
13)	AR1242-B	5.72	7.03	1086791	1348150	1206.385	1114.512
14)	AR1242-C	5.98	7.32	418983	595662	1061.836	1063.500
15)	AR1242-D	6.79	8.34	460565	421425	1063.759	1024.384
16)	AR1242-E	7.70	9.27	423926	616021	1185.023	1149.674
36)	AR1268-A	12.76	14.74	1810754	3274688	1159.217	1065.931
37)	AR1268-B	12.85	14.85	2419734	3892406	1182.414	993.212
38)	AR1268-C	13.29	15.45	1736737	2898438	1160.869	1004.727
39)	AR1268-D	14.09	16.10	795059	1264418	1282.706	1080.984
40)	AR1268-E	14.73	16.86	5582961	7930827	1213.177	1001.834

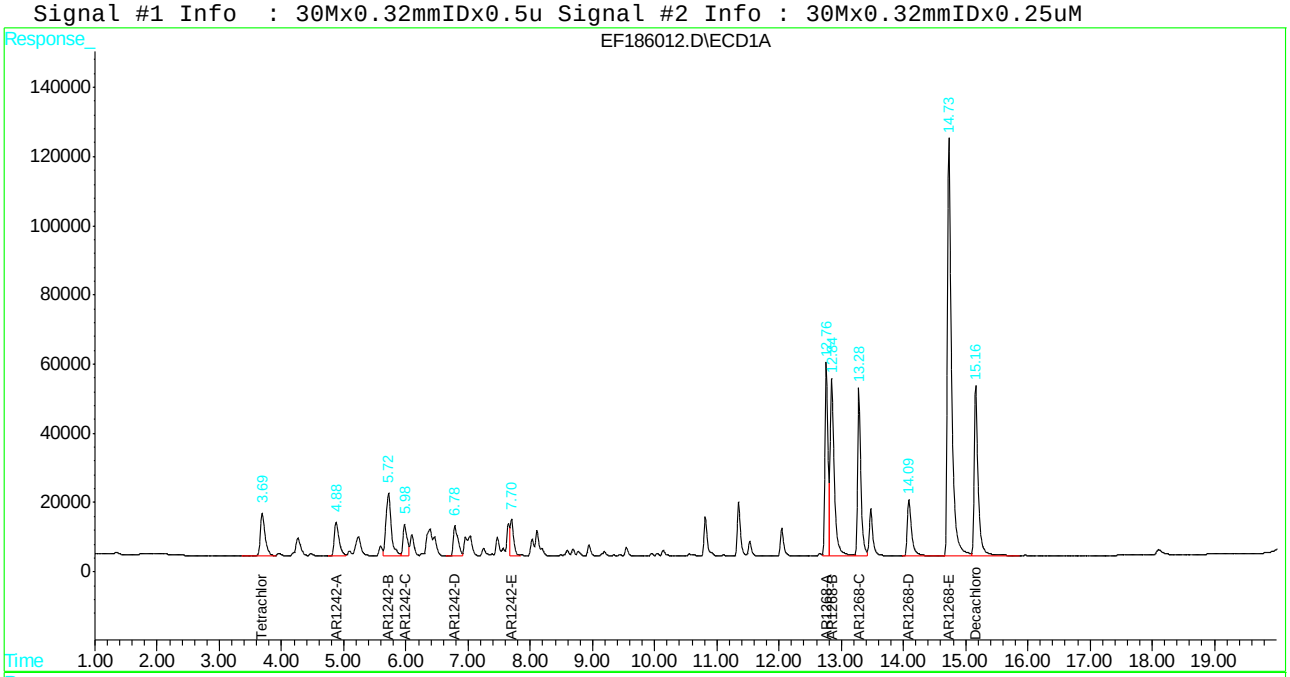
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186012.D PCB6325.M Wed Dec 05 09:20:13 2018 GCEF Page 1

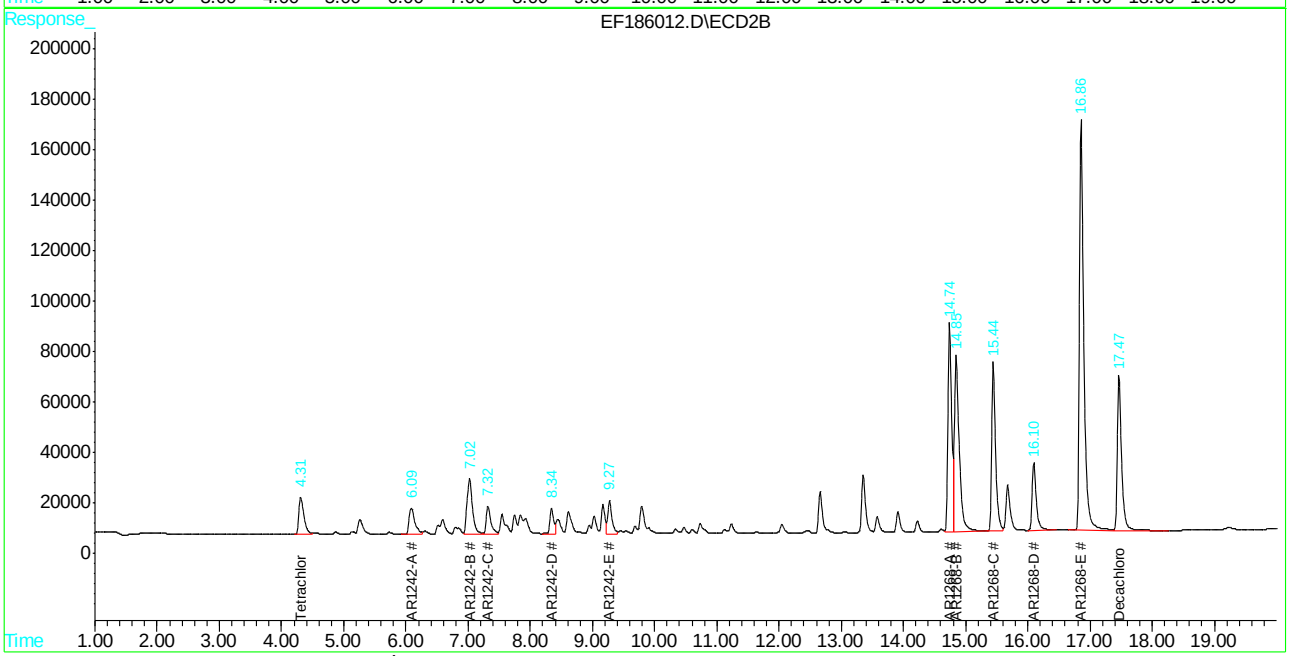
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186012.D\ECD1A.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186012.D\ECD2B.CH
Acq On    :  4 Dec 2018   7:08 pm                    Operator: tianweir
Sample    : ic6325-1000                              Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:19 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Dec 05 09:15:58 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186013.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186013.D\ECD2B.CH
Acq On : 4 Dec 2018 7:32 pm Operator: tianweir
Sample : ic6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:20 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:15:58 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	624809	838444	44.702	47.650
	Spiked Amount 40.000			Recovery =		111.76%	119.12%
51) S	Decachlorobiphen	15.17	17.47	875958	1144033	45.841	45.901
	Spiked Amount 40.000			Recovery =		114.60%	114.75%
	Target Compounds						
17)	AR1248-A	4.88	6.08	292342	361424	981.423	1034.815
18)	AR1248-B	5.72	7.02	666507	922462	1122.999	1107.577
19)	AR1248-C	6.38	7.75	748608	520395	1027.583	1023.704
20)	AR1248-D	6.78	8.34	702966	648062	1049.292	1037.135
21)	AR1248-E	6.96	8.61	350133	727359	1044.260	1036.225
22)	AR1248-F	7.70	9.27	684480	1040845	1235.661	1119.559
23)	AR1248-G	8.11	9.79	517521	855611	1100.281	1089.971

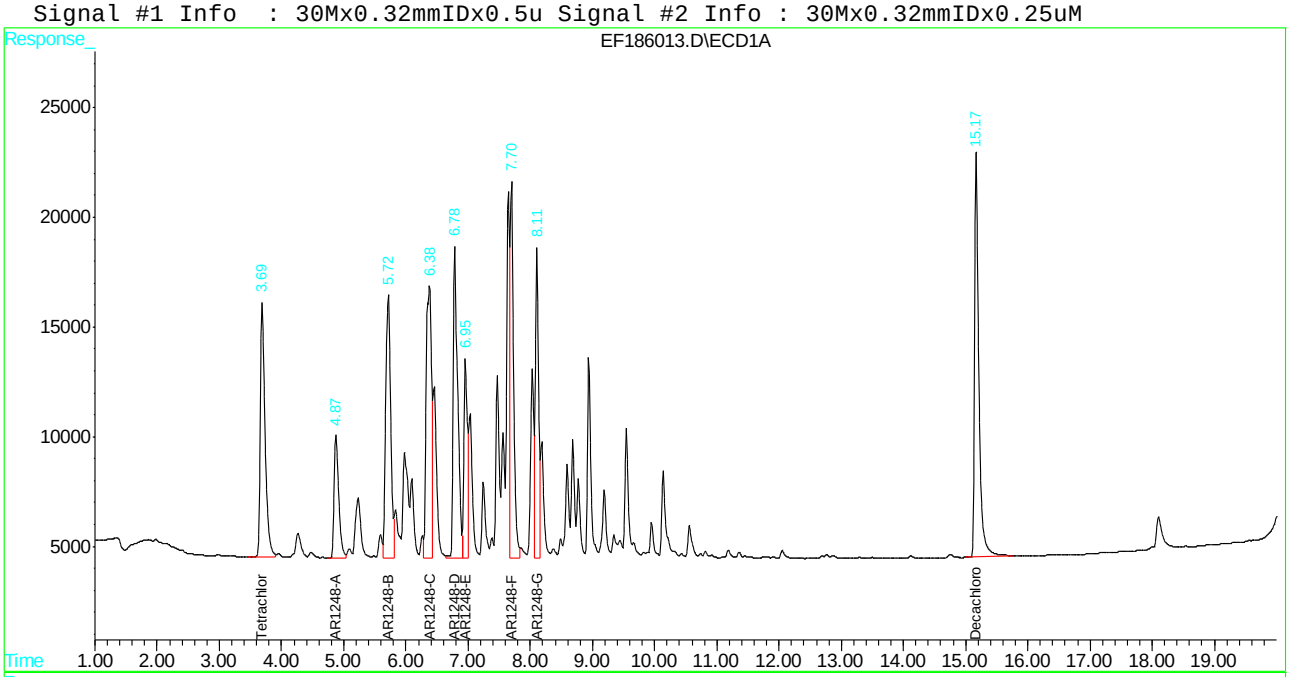
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186013.D PCB6325.M Wed Dec 05 09:21:10 2018 GCEF

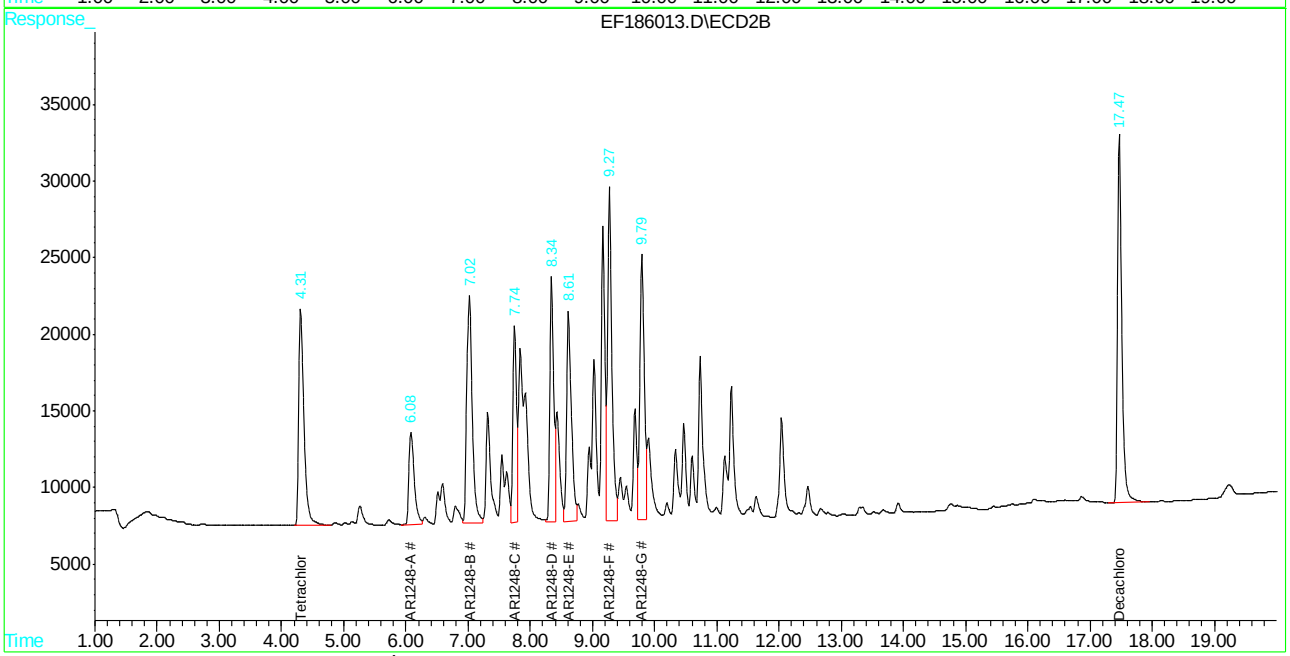
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186013.D\ECD1A.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186013.D\ECD2B.CH
Acq On    :  4 Dec 2018   7:32 pm                    Operator: tianweir
Sample    : ic6325-1000                              Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:20 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Dec 05 09:15:58 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD2B.CH
Acq On : 4 Dec 2018 7:57 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:27 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	607607	753241	43.471	42.808
	Spiked Amount 40.000			Recovery =		108.68%	107.02%
51) S	Decachlorobiphen	15.16	17.47	800784	1084292	41.907	43.504
	Spiked Amount 40.000			Recovery =		104.77%	108.76%
	Target Compounds						
41)	AR1016-A	4.26	5.26	359674	400124	975.564	974.063
42)	AR1016-B	4.88	6.09	653070	833222	1011.751	1011.685
43)	AR1016-C	5.72	7.03	1350946	1663715	1020.397	1000.617
44)	AR1016-D	5.98	7.32	519376	738664	1015.267	1019.922
45)	AR1016-E	6.79	8.34	545777	488685	999.678	991.709
46)	AR1260-A	10.55	12.46	1298628	1950829	999.074	990.831
47)	AR1260-B	10.81	12.66	577542	1041242	911.825	926.752
48)	AR1260-C	11.35	13.35	615270	1020931	958.953	947.556
49)	AR1260-D	12.05	13.91	1494297	2427358	949.853	951.251
50)	AR1260-E	12.67	14.77	1473655	2382478	956.129m	929.426

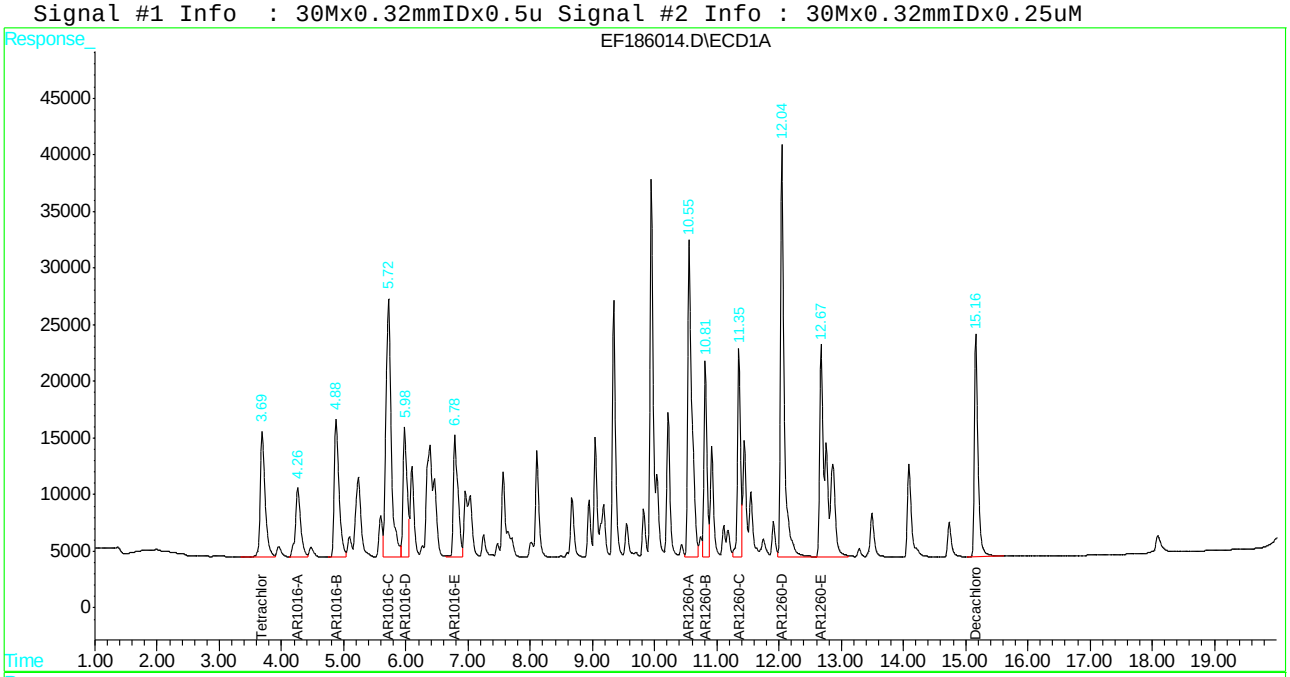
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186014.D PCB6325.M Wed Dec 05 09:27:45 2018 GCEF Page 1

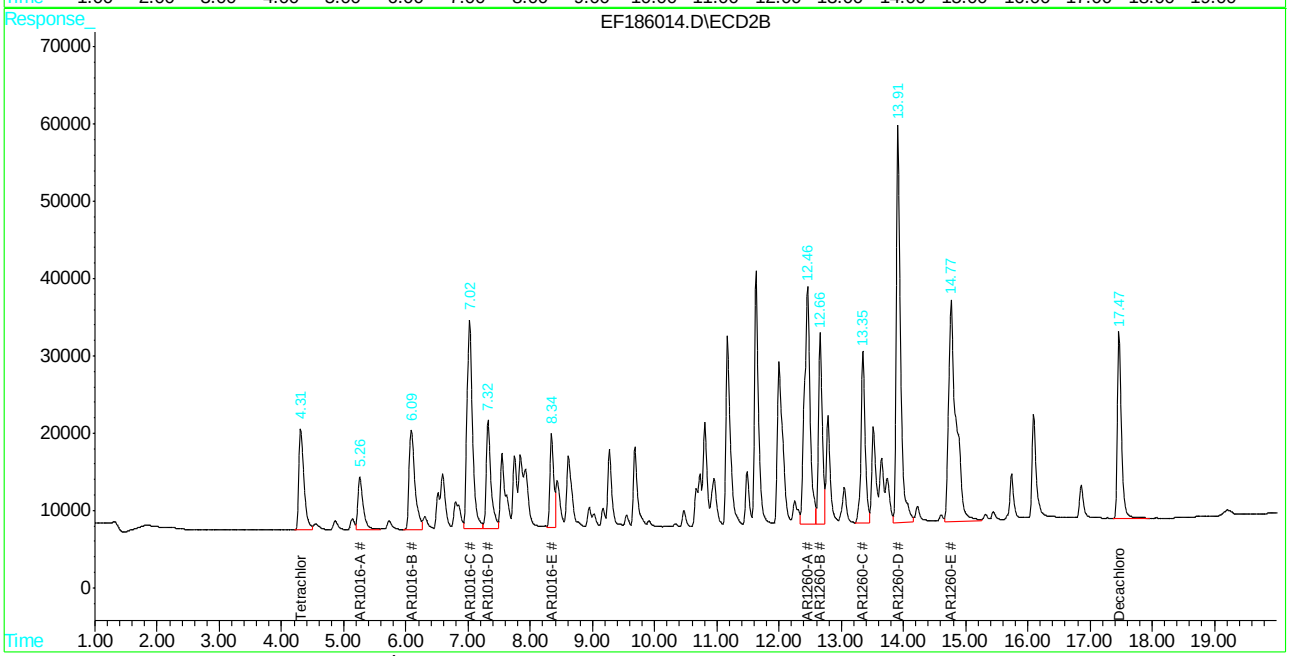
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD2B.CH
Acq On    :  4 Dec 2018   7:57 pm                    Operator: tianweir
Sample    : icv6325-1000                             Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:27 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

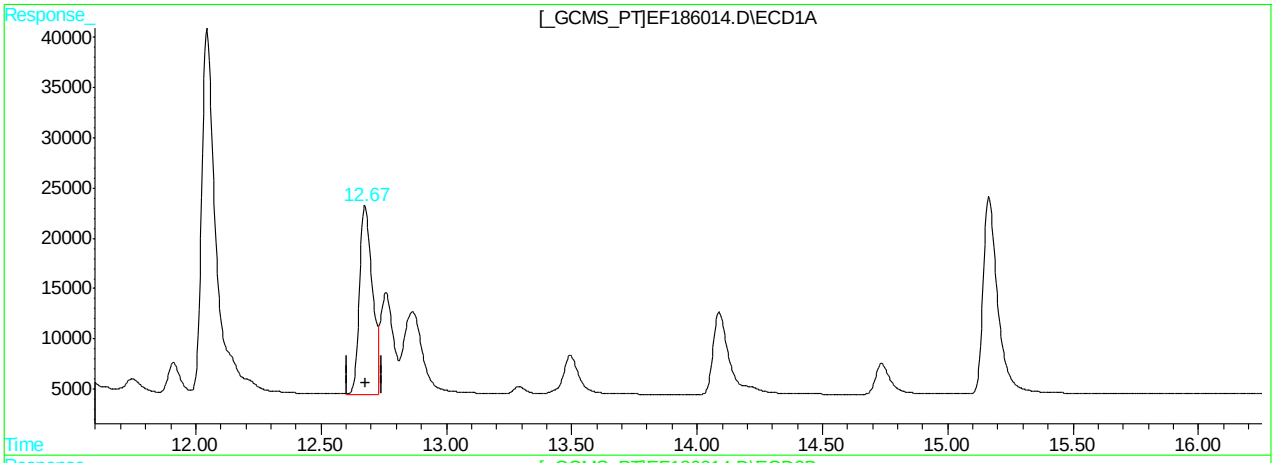
Sample Number:	GEF6325-ICV6325	**Method:**	SW846 8082A
Lab FileID:	EF186014.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 19:57	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

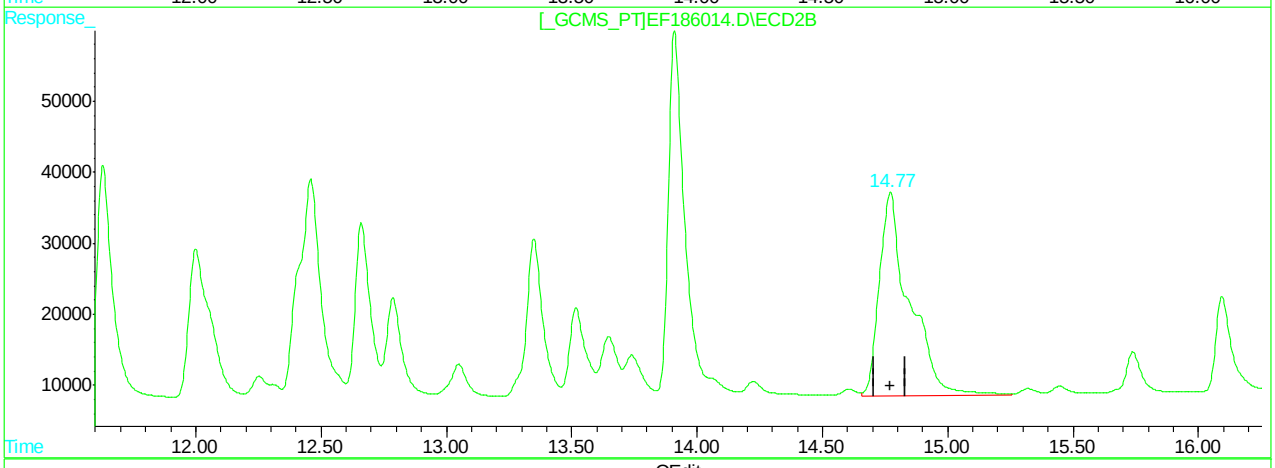
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.67	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD2B.CH
Acq On : 4 Dec 2018 7:57 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:27 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.68min 432.742PPB

response 666973

(50) AR1260-E #2

14.77min 929.426PPB

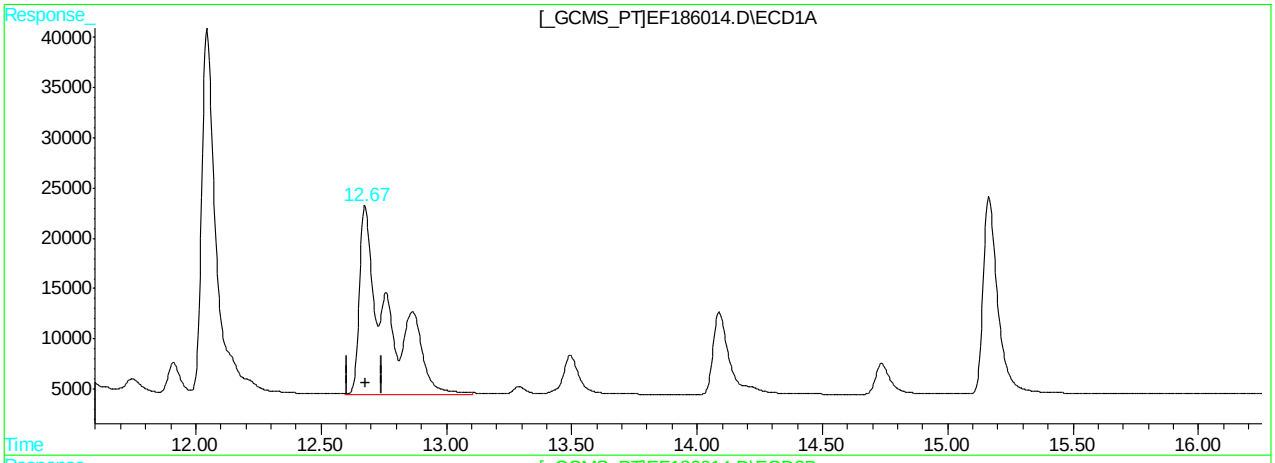
response 2382478

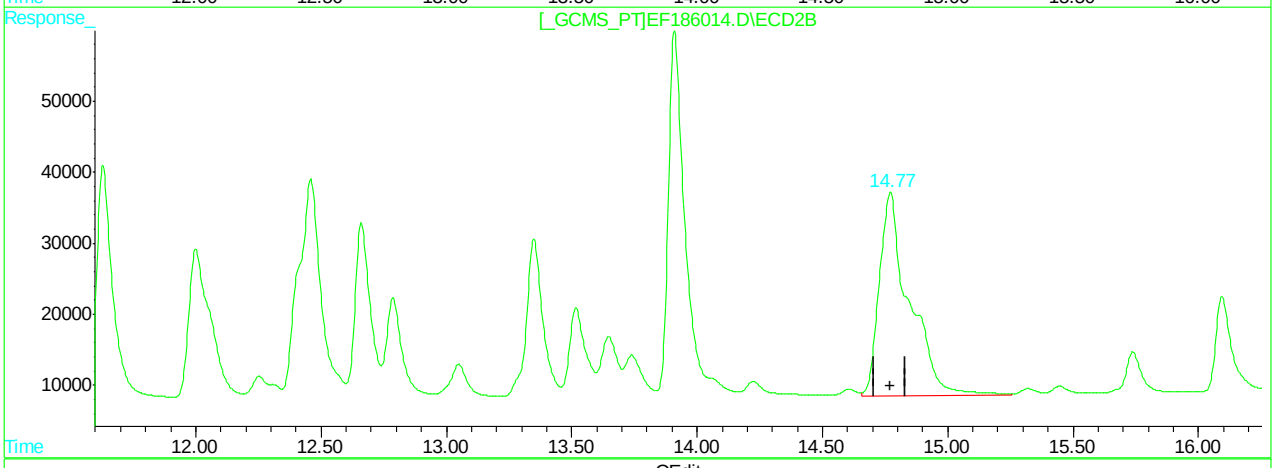
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EF186014.D PCB6325.M Wed Dec 05 09:27:36 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD1A.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186014.D\ECD2B.CH
Acq On : 4 Dec 2018 7:57 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:27 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.67min 956.129PPB m

response 1473655

(50) AR1260-E #2

14.77min 929.426PPB

response 2382478

(+) = Expected Retention Time
EF186014.D PCB6325.M Wed Dec 05 09:27:40 2018 GCEF

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD2B.CH
Acq On : 4 Dec 2018 8:22 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:26 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.69	4.31	730841	864910	52.288	49.155
	Spiked Amount 40.000			Recovery	=	130.72%	122.89%
51)	S Decachlorobiphen	15.17	17.47	918055	1217585	48.044	48.852
	Spiked Amount 40.000			Recovery	=	120.11%	122.13%
	Target Compounds						
2)	AR1221-A	2.95	3.54	141845	148172	974.986	958.940
3)	AR1221-B	3.95	4.86	172264	218242	914.467	901.943
4)	AR1221-C	4.26	5.26	565739	597223	908.588	922.307
5)	AR1221-D	4.88	6.07	92036	102924	813.760m	849.884
6)	AR1221-E	5.10	6.19	85682	130821	1018.272	974.664
24)	AR1254-A	7.56	9.27	516065	921677	1000.377	992.684
25)	AR1254-B	8.10	9.68	783396	954911	1002.671	998.321
26)	AR1254-C	8.68	10.47	561188	686438	999.030	996.577
27)	AR1254-D	8.94	10.73	953494	1536684	996.465	995.489
28)	AR1254-E	9.54	11.23	836213	1357870	998.535	990.696
29)	AR1254-F	9.95	12.03	722674	1132594	1003.259	989.023
30)	AR1254-G	10.55	12.46	977927	1426930	999.028	988.384

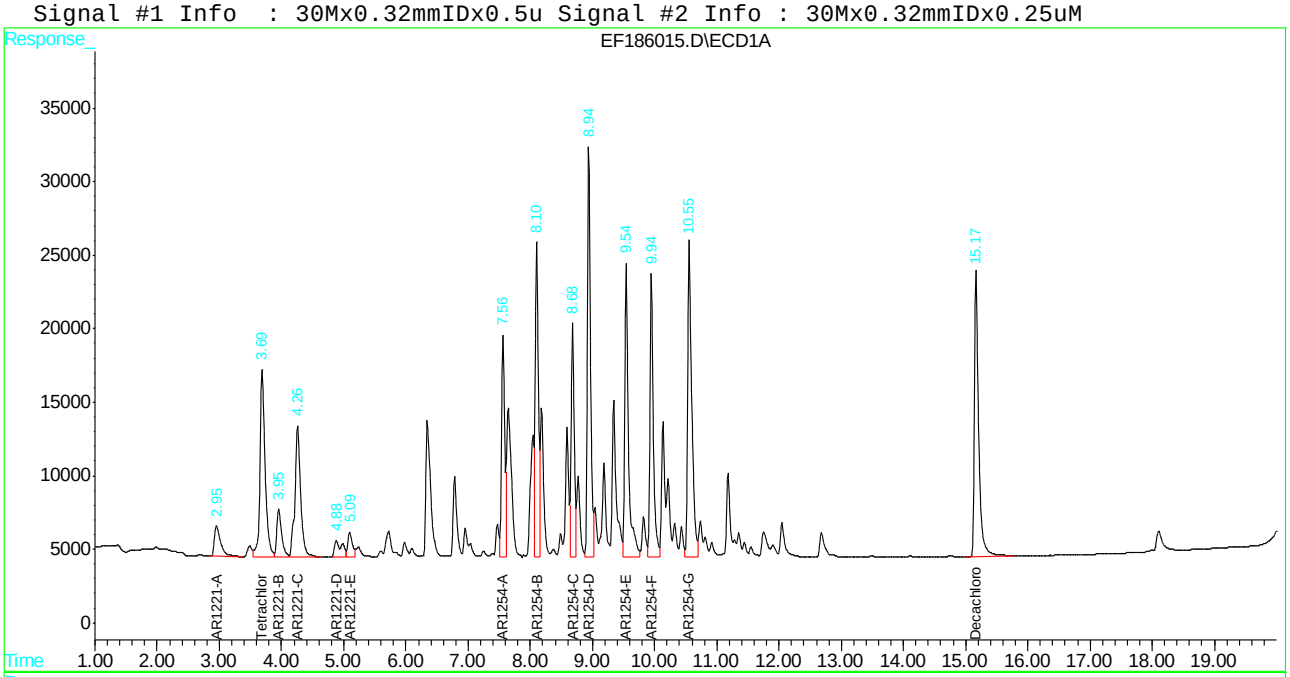
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

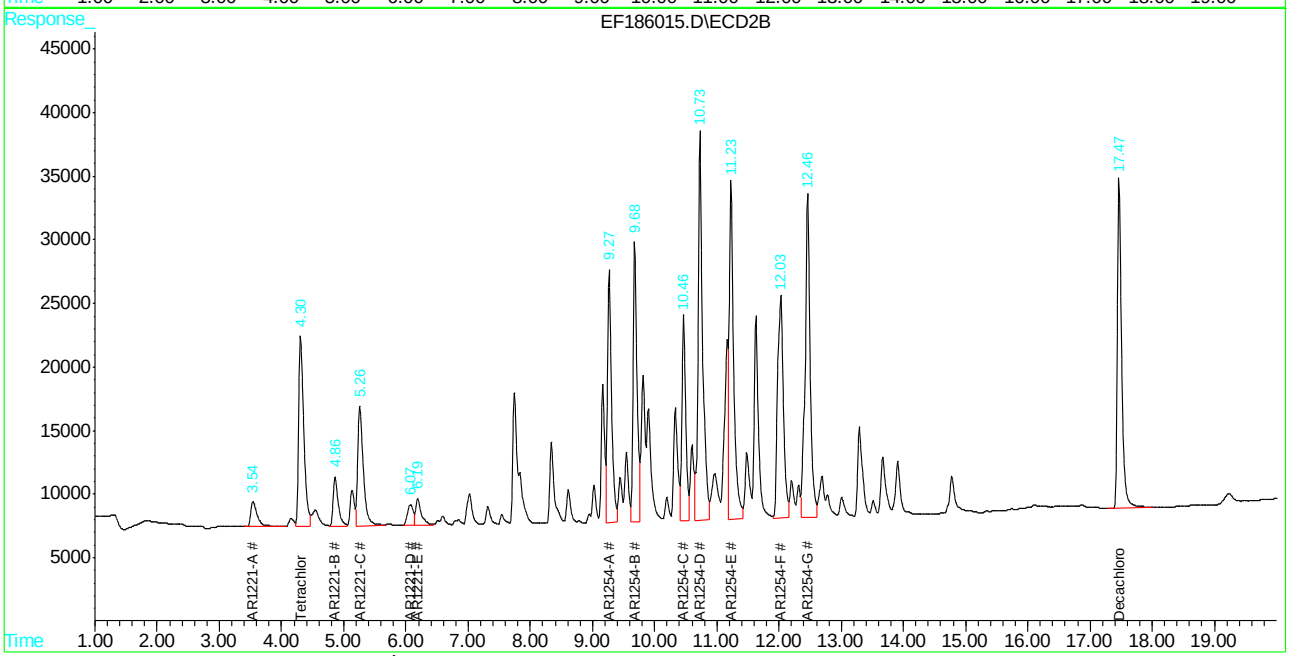
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD2B.CH
Acq On    :  4 Dec 2018   8:22 pm                    Operator: tianweir
Sample    : icv6325-1000                             Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:26 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

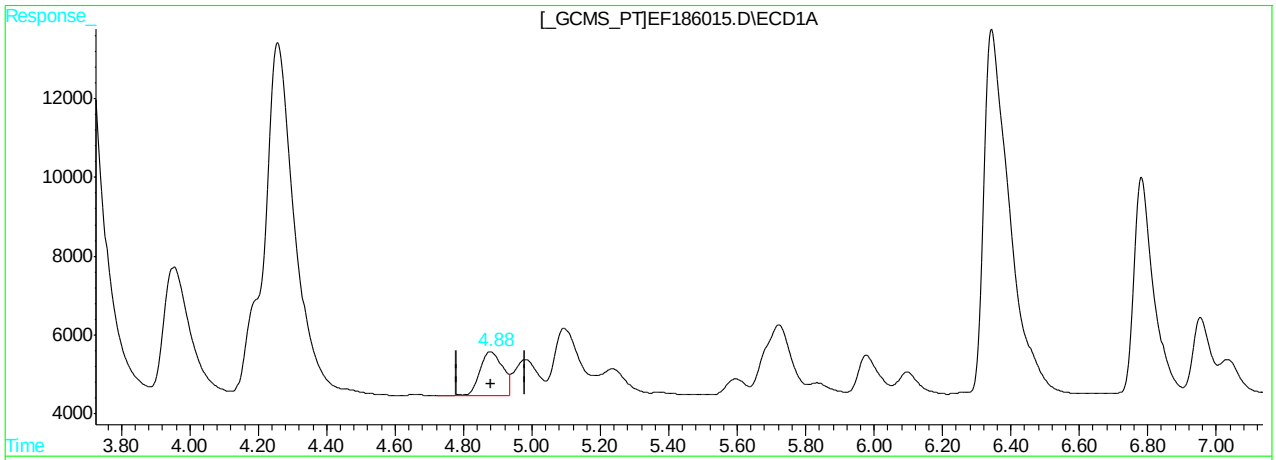
Sample Number:	GEF6325-ICV6325	**Method:**	SW846 8082A
Lab FileID:	EF186015.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 20:22	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

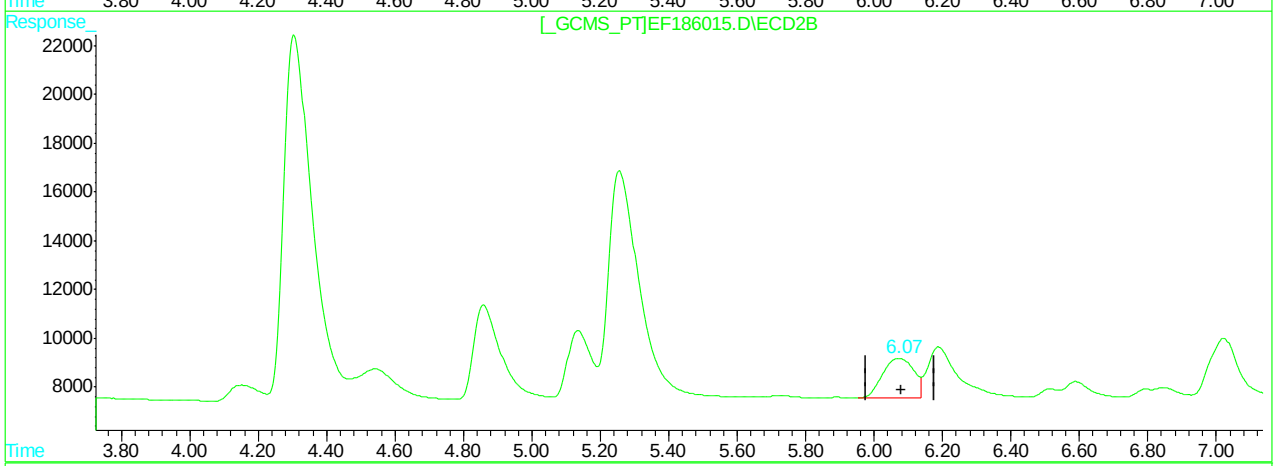
Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1221-D		1	4.88	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD2B.CH
Acq On : 4 Dec 2018 8:22 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:26 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Single Level Calibration





QEdit

(5) AR1221-D

4.88min 453.005PPB

response 51234

(5) AR1221-D #2

6.07min 849.884PPB

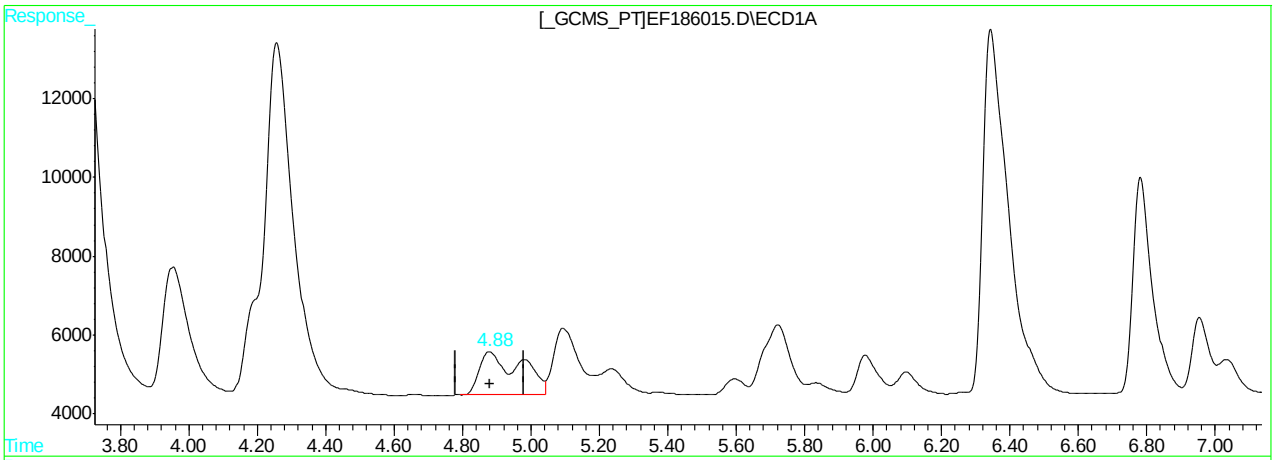
response 102924

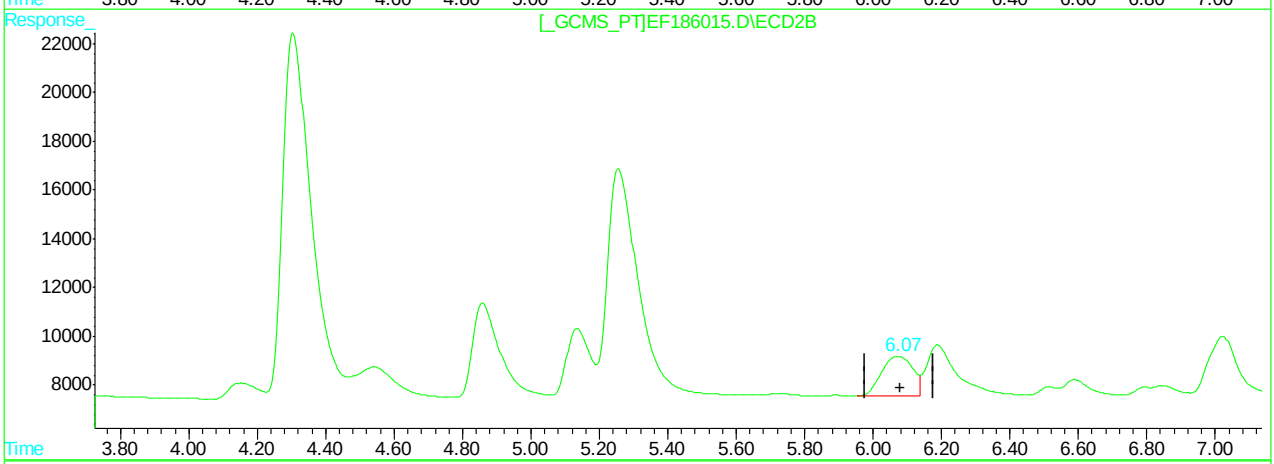
(+) = Expected Retention Time
EF186015.D PCB6325.M Wed Dec 05 09:26:30 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD1A.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186015.D\ECD2B.CH
Acq On : 4 Dec 2018 8:22 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:26 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Single Level Calibration





QEdit

(5) AR1221-D

4.88min 813.760PPB m

response 92036

(5) AR1221-D #2

6.07min 849.884PPB

response 102924

(+) = Expected Retention Time
EF186015.D PCB6325.M Wed Dec 05 09:26:41 2018 GCEF

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
12/06/18 11:20

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD2B.CH
Acq On : 4 Dec 2018 8:47 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:28 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.69	4.31	733658	888636	52.489	50.503
	Spiked Amount 40.000			Recovery =		131.22%	126.26%
51)	S Decachlorobiphen	15.17	17.47	931428	1201740	48.744	48.216
	Spiked Amount 40.000			Recovery =		121.86%	120.54%
	Target Compounds						
7)	AR1232-A	4.26	5.26	460492	497281	933.926	940.172
8)	AR1232-B	4.88	6.09	332083	464349	945.401	937.541
9)	AR1232-C	5.72	7.02	617925	790707	933.950	937.861
10)	AR1232-D	5.98	7.32	237619	342828	929.657	937.664
11)	AR1232-E	6.79	8.61	235867	242255	928.929	939.368
31)	AR1262-A	9.95	11.63	776786	1156130	997.756	1017.410
32)	AR1262-B	10.81	12.66	945057	1660335	1005.926	1008.120
33)	AR1262-C	11.35	13.35	840091	1358139	1004.822	1023.450
34)	AR1262-D	12.04	13.91	1938914	3044342	1010.414	1018.082
35)	AR1262-E	12.76	14.75	2272435	3689144	1014.158m	1003.785m

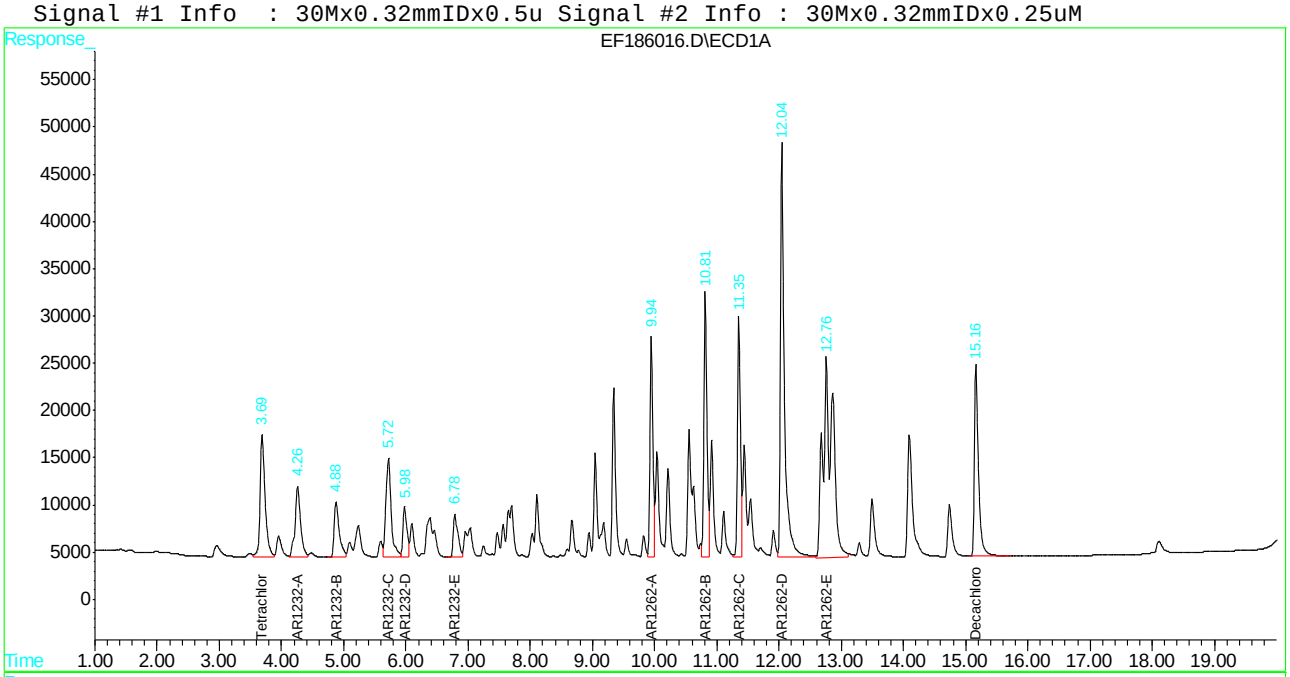
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186016.D PCB6325.M Wed Dec 05 09:28:48 2018 GCEF Page 1

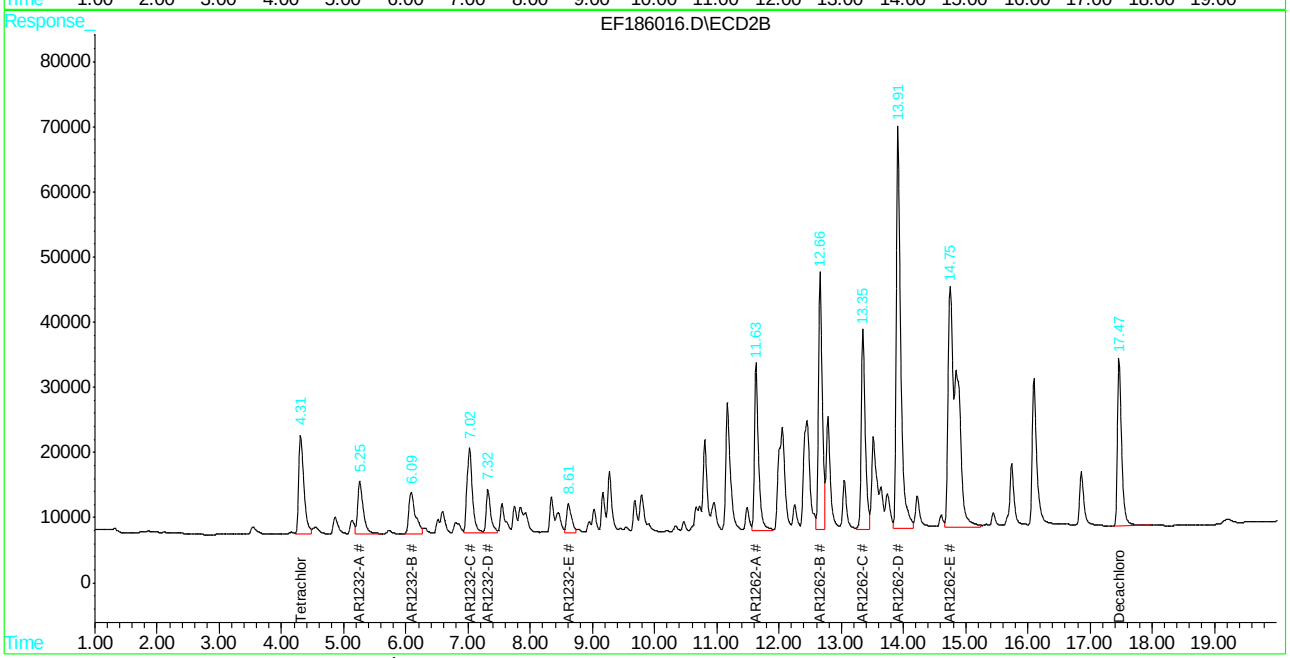
Quantitation Report

```
Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD2B.CH
Acq On    :  4 Dec 2018   8:47 pm                    Operator: tianweir
Sample    : icv6325-1000                             Inst    : gcef
Misc      : op16553,GEF6325,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E     IntFile Signal #2: .E
Quant Time: Dec  5  9:28 2018  Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title        : GC/ECD- PCB
Last Update  : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj.     : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1          Signal #2 Phase: RTX-CLP2
Signal #1 Info  : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM
```





Manual Integration Approval Summary

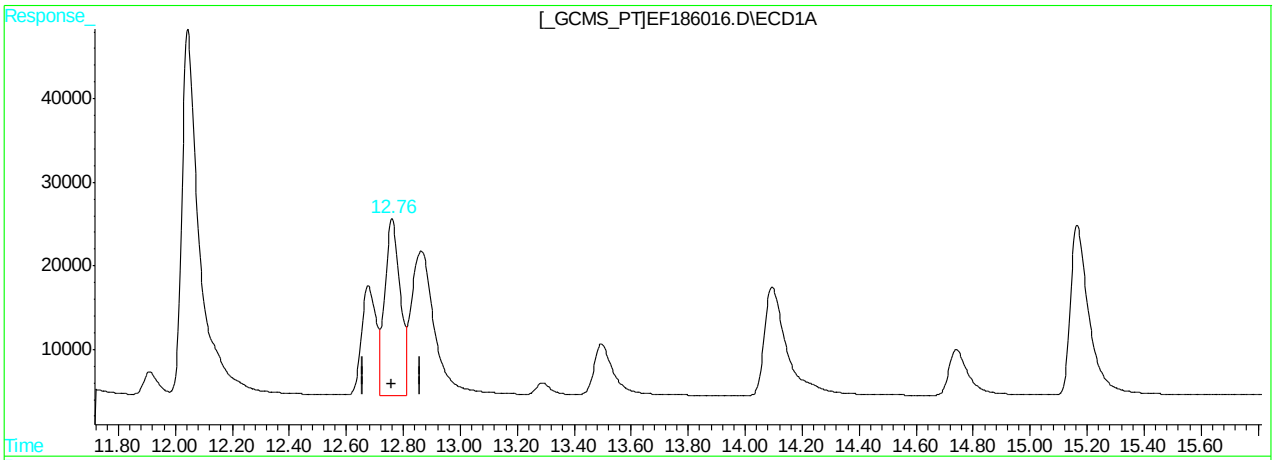
Sample Number:	GEF6325-ICV6325	**Method:**	SW846 8082A
Lab FileID:	EF186016.D	**Analyst approved:**	12/05/18 09:39 Tianwei Ruan
Injection Time:	12/04/18 20:47	**Supervisor approved:**	12/06/18 11:20 Gwendolyn Burns

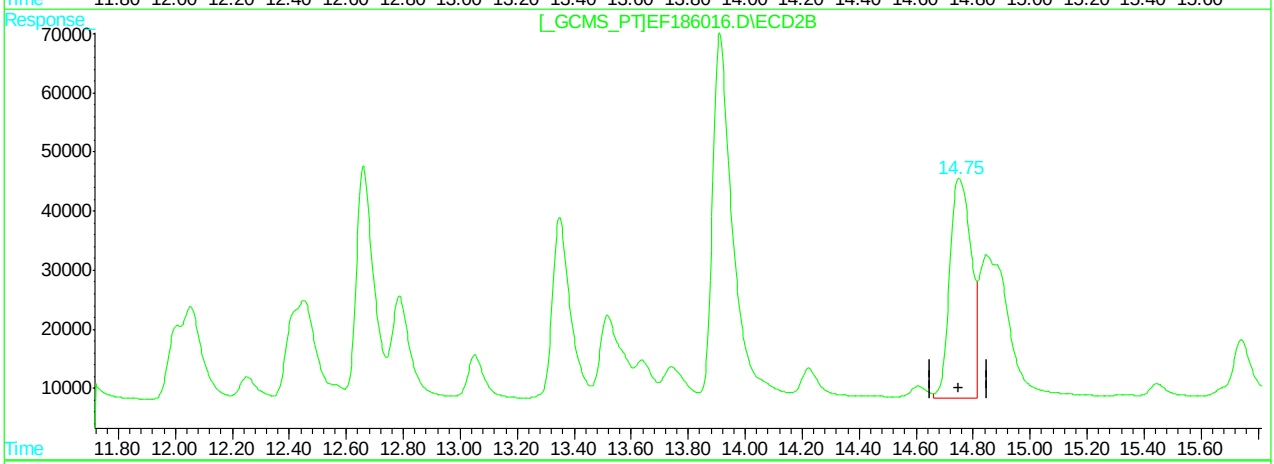
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ar1262-E		1	12.76	Split peak
Ar1262-E		2	14.75	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD2B.CH
Acq On : 4 Dec 2018 8:47 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:27 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Single Level Calibration





QEdit

(35) AR1262-E

12.76min 355.012PPB

response 795480

(35) AR1262-E #2

14.75min 528.918PPB

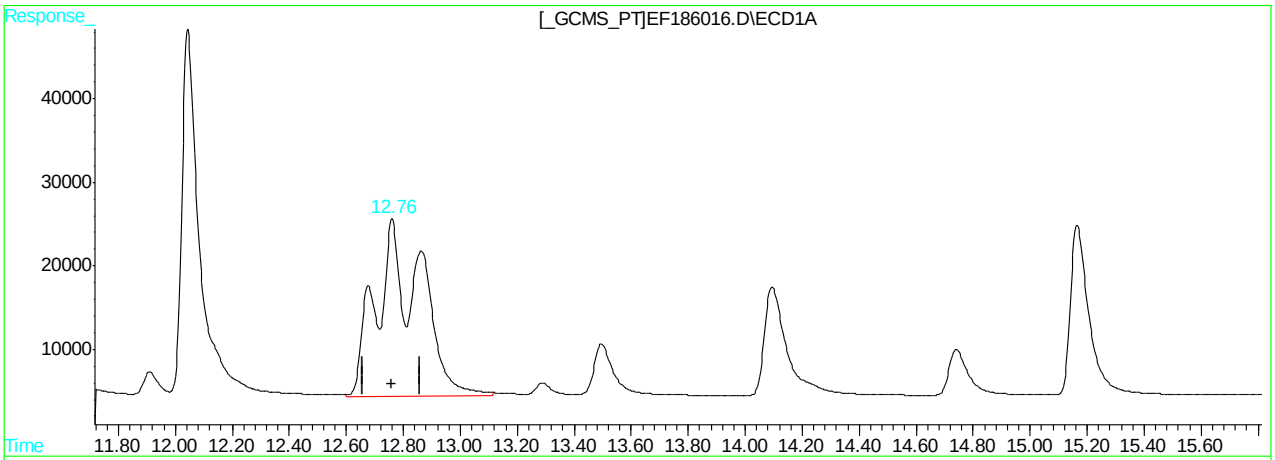
response 1943897

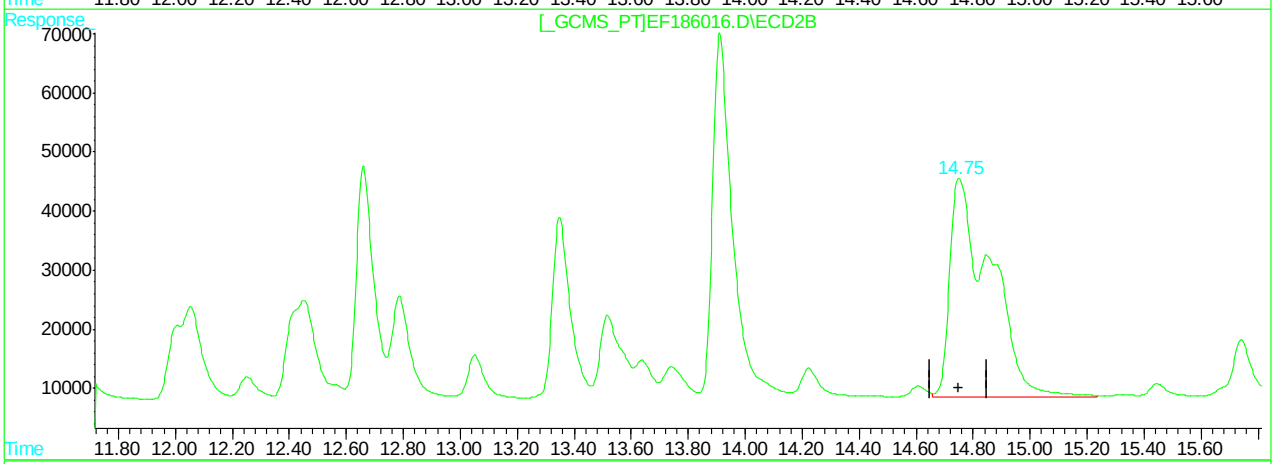
(+) = Expected Retention Time
EF186016.D PCB6325.M Wed Dec 05 09:28:34 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186016.D\ECD2B.CH
Acq On : 4 Dec 2018 8:47 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:27 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Single Level Calibration





QEdit

(35) AR1262-E

12.76min 1014.158PPB m

response 2272435

(35) AR1262-E #2

14.75min 1003.785PPB m

response 3689144

(+) = Expected Retention Time
EF186016.D PCB6325.M Wed Dec 05 09:28:42 2018 GCEF

EF186016.D edits: AR1262-E

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186017.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186017.D\ECD2B.CH
Acq On : 4 Dec 2018 9:12 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:29 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	3.69	4.31	722095	896170	51.662	50.931
	Spiked Amount 40.000			Recovery	=	129.16%	127.33%
51)	S Decachlorobiphen	15.16	17.46	2172537	2844547	113.693	114.129
	Spiked Amount 40.000			Recovery	=	284.23%	285.32%
	Target Compounds						
12)	AR1242-A	4.88	6.08	555940	710378	1041.881	1042.670
13)	AR1242-B	5.72	7.02	1125679	1395306	1035.783	1034.978
14)	AR1242-C	5.98	7.32	436028	622844	1040.683	1045.633
15)	AR1242-D	6.78	8.34	465134	428549	1009.921	1016.906
16)	AR1242-E	7.70	9.27	429835	617809	1013.939	1002.903
36)	AR1268-A	12.76	14.74	1758097	3195758	970.919	975.897
37)	AR1268-B	12.84	14.84	2373976	3834664	981.090	985.165
38)	AR1268-C	13.28	15.44	1699239	2856968	978.409	985.692
39)	AR1268-D	14.08	16.09	766568	1234709	964.165	976.503
40)	AR1268-E	14.73	16.85	5476205	7798883	980.878	983.363

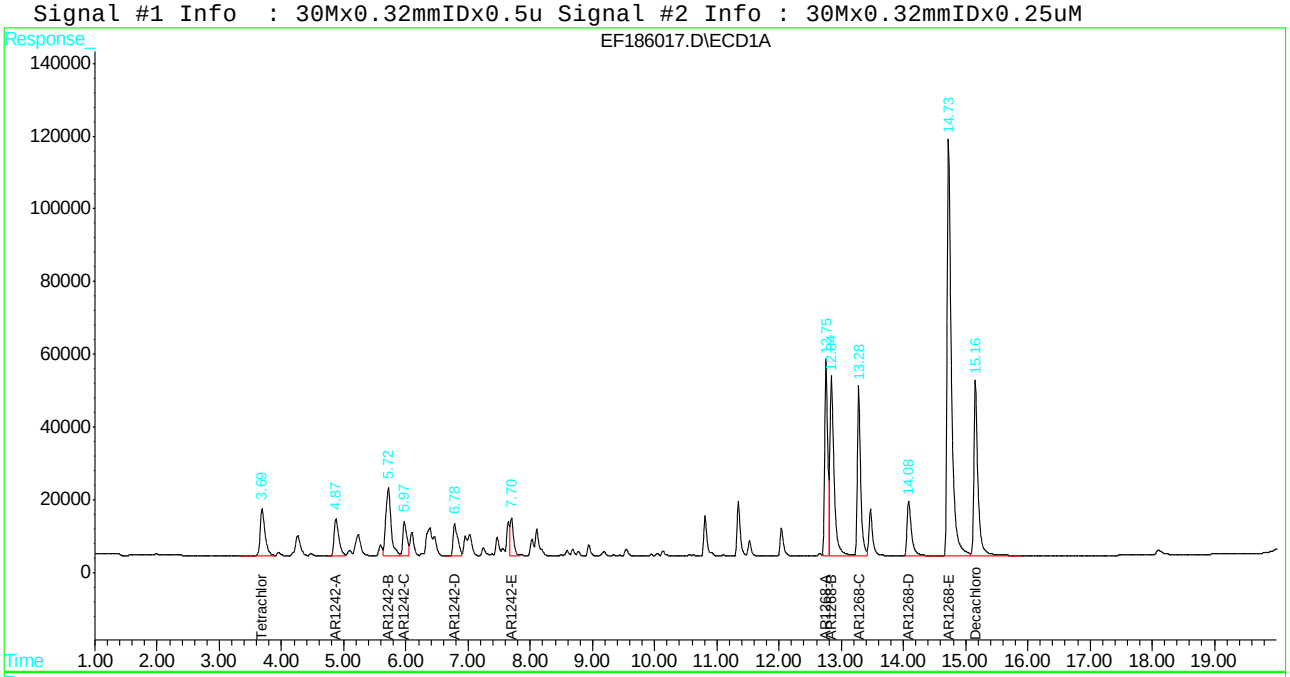
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186017.D PCB6325.M Wed Dec 05 09:29:36 2018 GCEF Page 1

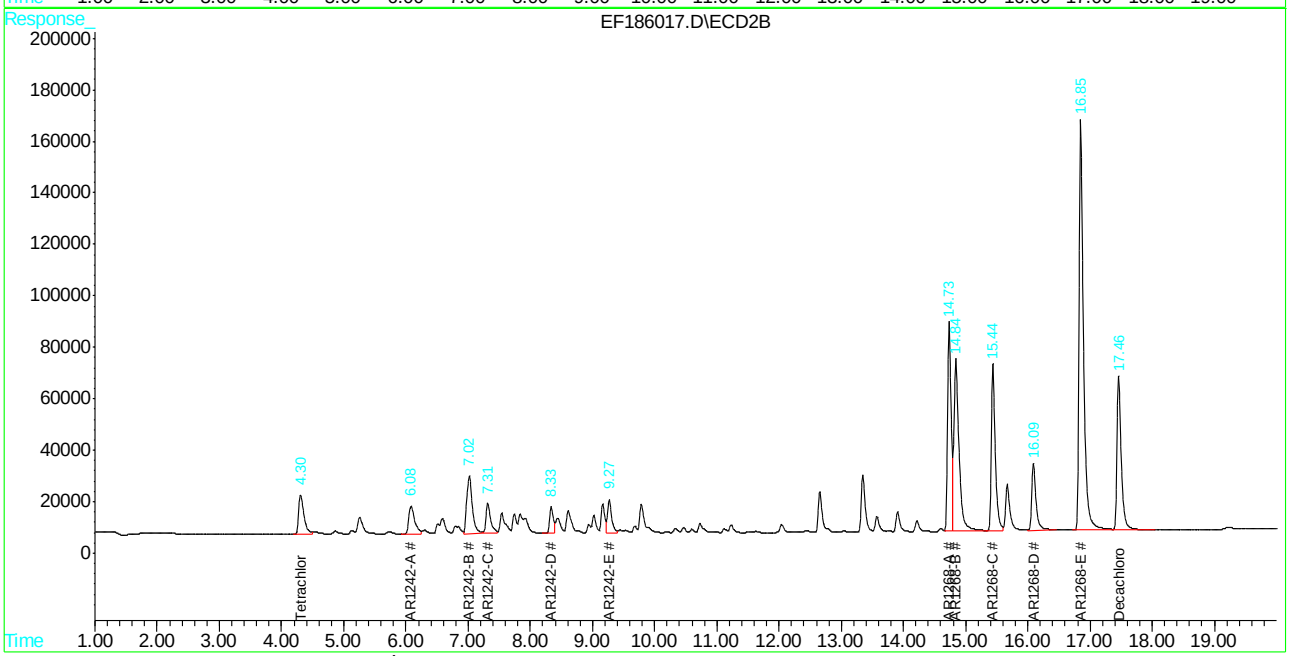
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186017.D\ECD1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186017.D\ECD2B.CH
Acq On : 4 Dec 2018 9:12 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:29 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186018.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186018.D\ECD2B.CH
Acq On : 4 Dec 2018 9:37 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:29 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	704984	919883	50.438	52.279
	Spiked Amount 40.000			Recovery =		126.10%	130.70%
51) S	Decachlorobiphen	15.17	17.47	962071	1291800	50.347	51.830
	Spiked Amount 40.000			Recovery =		125.87%	129.57%
	Target Compounds						
17)	AR1248-A	4.87	6.08	273007	333735	933.863	923.388
18)	AR1248-B	5.72	7.02	658290	904115	987.673	980.111
19)	AR1248-C	6.38	7.74	759335	521932	1014.330	1002.953
20)	AR1248-D	6.78	8.34	717209	655031	1020.261	1010.754
21)	AR1248-E	6.95	8.61	367841	751865	1050.575	1033.692
22)	AR1248-F	7.70	9.27	755496	1094642	1103.752	1051.687
23)	AR1248-G	8.10	9.79	542619	909323	1048.496	1062.776

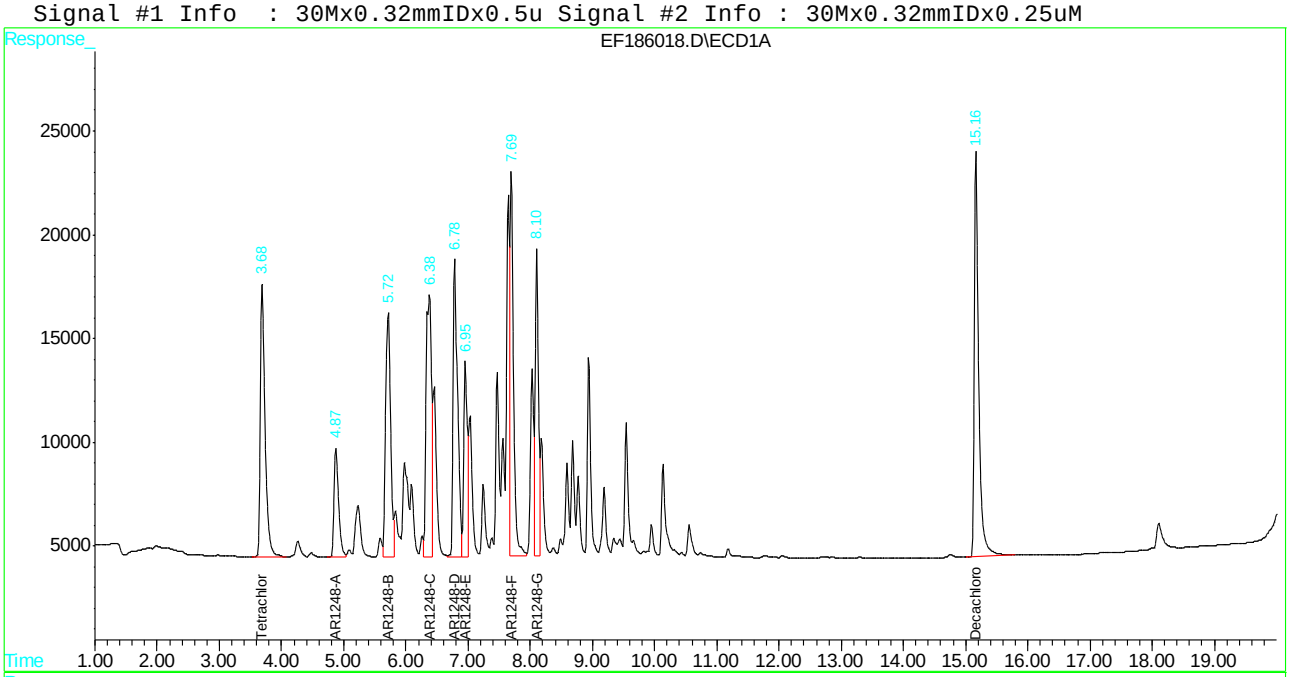
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186018.D PCB6325.M Wed Dec 05 09:30:42 2018 GCEF Page 1

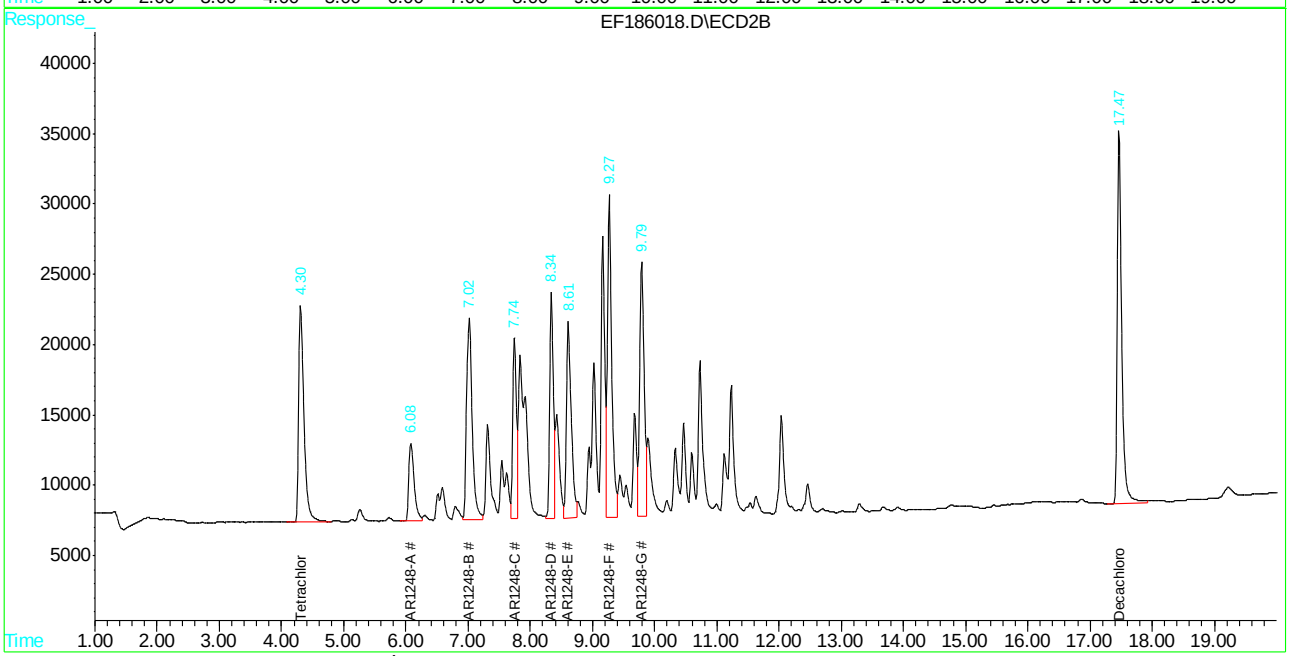
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6325\EF186018.D\ECD1A.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\GEF6325\EF186018.D\ECD2B.CH
Acq On : 4 Dec 2018 9:37 pm Operator: tianweir
Sample : icv6325-1000 Inst : gcef
Misc : op16553,GEF6325,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 5 9:29 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:22

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD2B.CH
Acq On : 6 Dec 2018 2:24 am Operator: tianweir
Sample : cc6325-500 Inst : gcef
Misc : op17100,GEF6326,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.70	4.31	283822	368277	20.306	20.930
	Spiked Amount 40.000			Recovery =		50.77%	52.33%
51) S	Decachlorobiphen	15.18	17.48	353251	419269	18.486	16.822m
	Spiked Amount 40.000			Recovery =		46.22%	42.06%
	Target Compounds						
41)	AR1016-A	4.27	5.26	197273	234925	535.076	571.903
42)	AR1016-B	4.89	6.10	344329	456756	533.442	554.586
43)	AR1016-C	5.73	7.03	688822	892758	520.281	536.936
44)	AR1016-D	5.99	7.33	269073	385609	525.979	532.437
45)	AR1016-E	6.79	8.35	280396	250220	513.590	507.781
46)	AR1260-A	10.56	12.47	651191	904569	500.981	459.433
47)	AR1260-B	10.83	12.67	316746	518368	500.079	461.370
48)	AR1260-C	11.37	13.36	321519	475355	501.116	441.191
49)	AR1260-D	12.06	13.92	765201	1117587	486.402	437.968
50)	AR1260-E	12.68	14.78	719957	1069781	467.119m	417.331

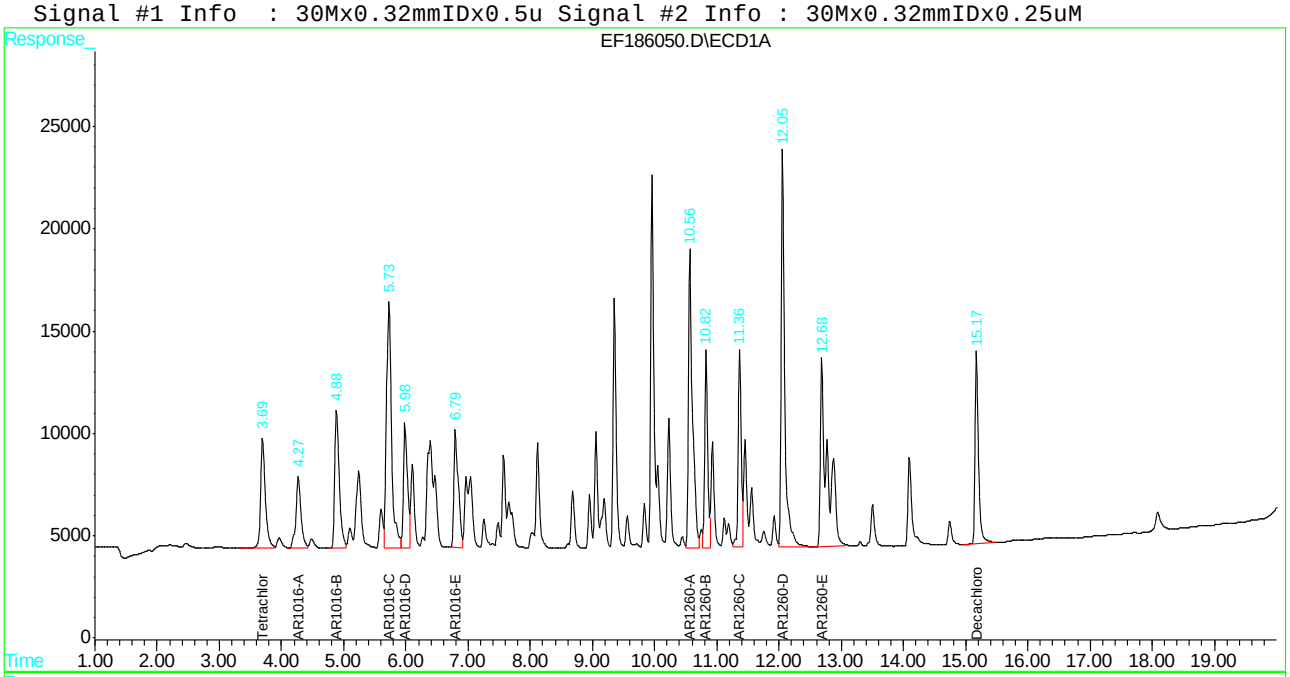
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186050.D PCB6325.M Thu Dec 06 11:13:34 2018 GCEF Page 1

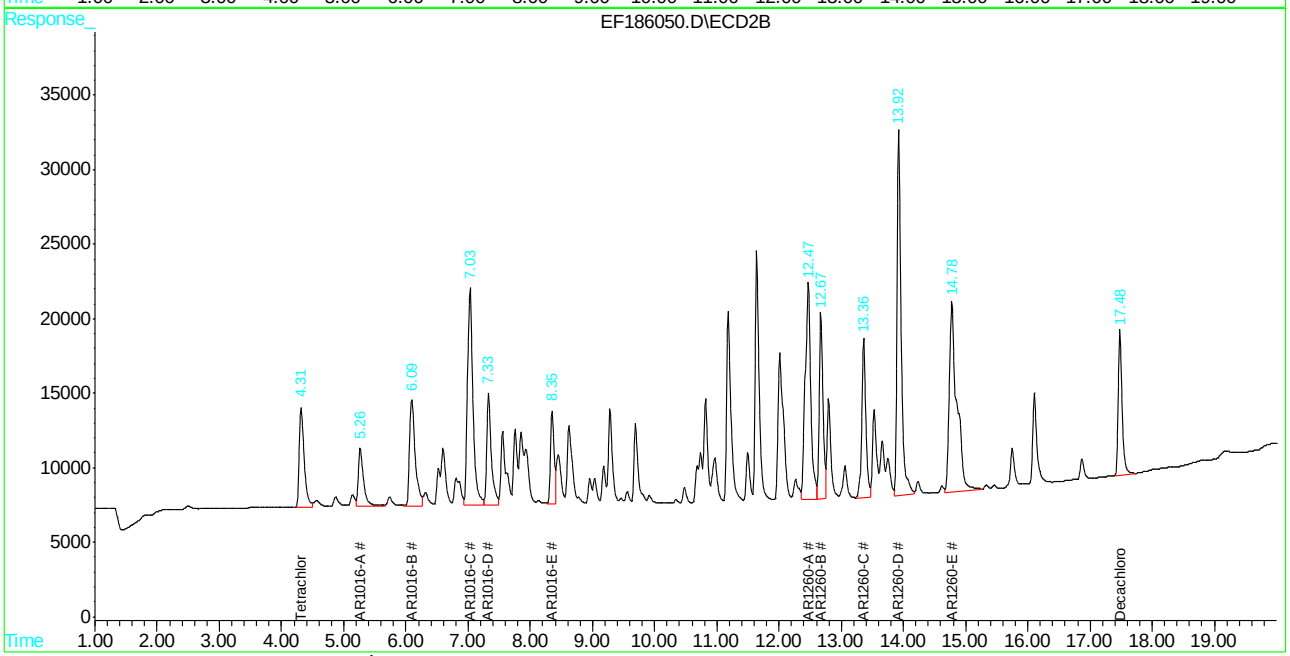
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD2B.CH
Acq On : 6 Dec 2018 2:24 am Operator: tianweir
Sample : cc6325-500 Inst : gcef
Misc : op17100,GEF6326,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

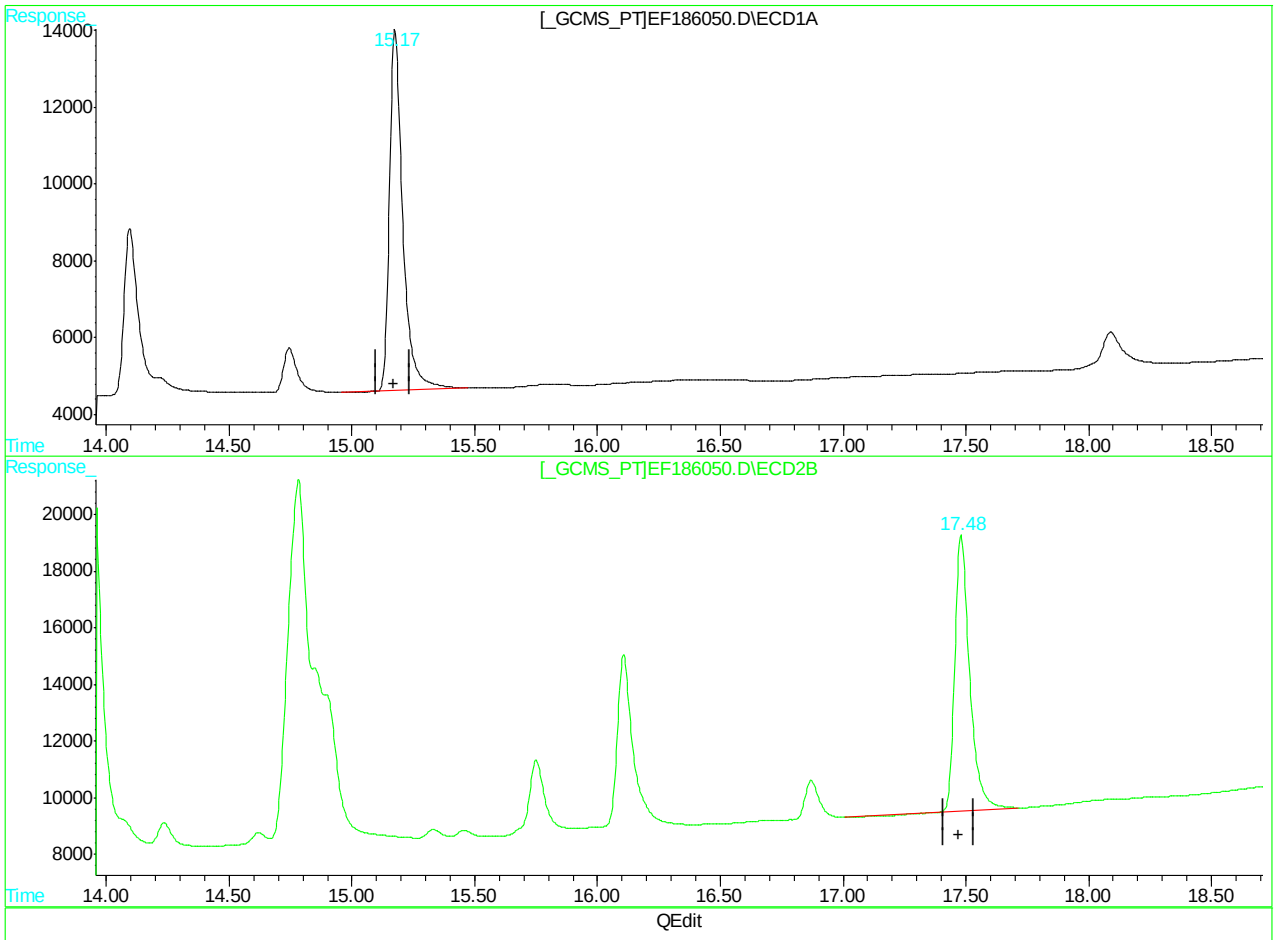
Sample Number:	GEF6326-CC6325	**Method:**	SW846 8082A
Lab FileID:	EF186050.D	**Analyst approved:**	12/06/18 08:55 Tianwei Ruan
Injection Time:	12/06/18 02:24	**Supervisor approved:**	12/06/18 11:22 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.68	Split peak
Decachlorobiphenyl	2051-24-3	2	17.48	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD2B.CH
Acq On : 6 Dec 2018 2:24 am Operator: tianweir
Sample : cc6325-500 Inst : gcef
Misc : op17100,GEF6326,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration



(51) Decachlorobiphenyl (S)

15.18min 18.486PPB

response 353251

(51) Decachlorobiphenyl #2 (S)

17.48min 16.396PPB

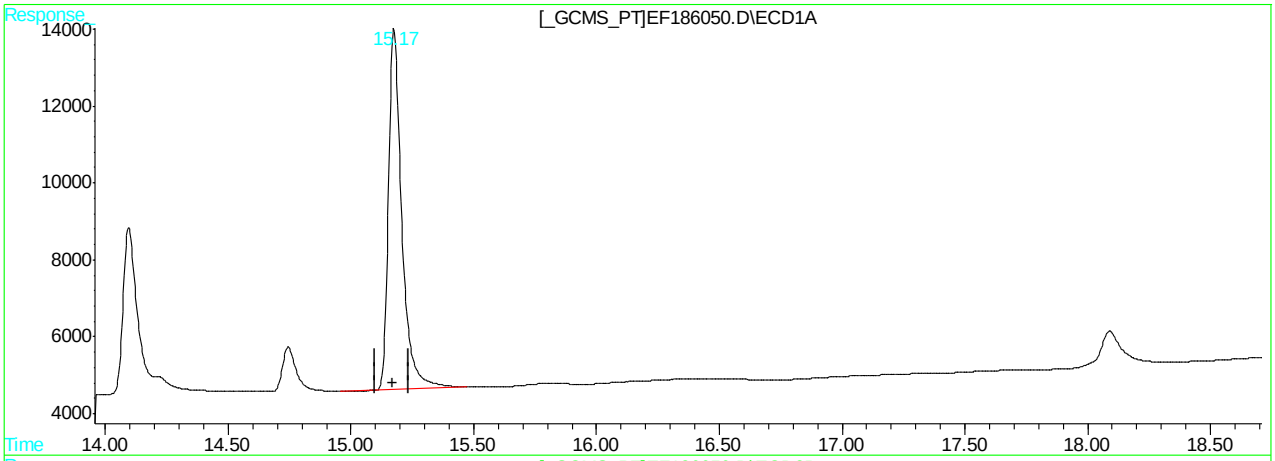
response 408661

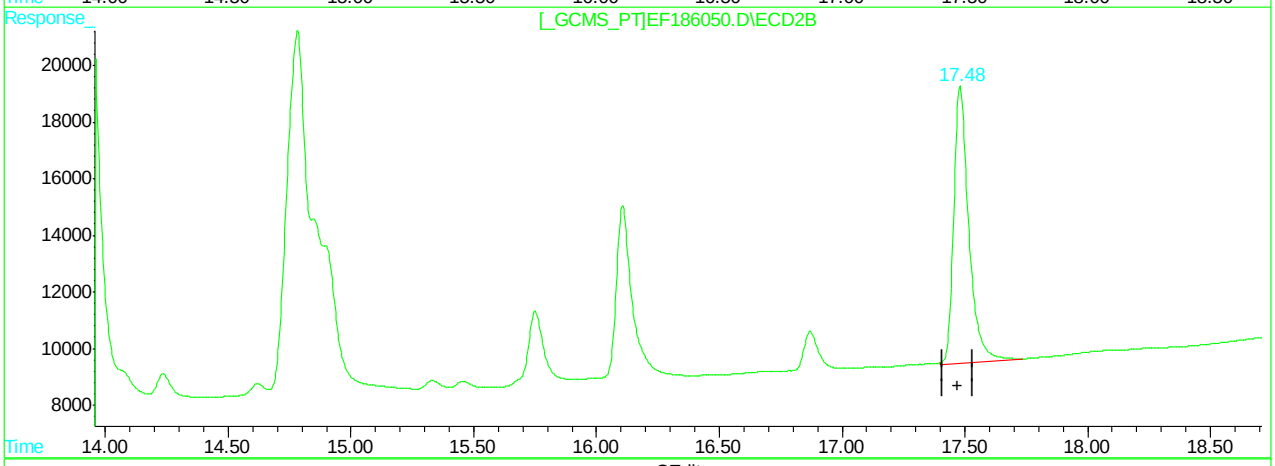
(+) = Expected Retention Time
EF186050.D PCB6325.M Thu Dec 06 08:34:21 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD2B.CH
Acq On : 6 Dec 2018 2:24 am Operator: tianweir
Sample : cc6325-500 Inst : gcef
Misc : op17100,GEF6326,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(51) Decachlorobiphenyl (S)

15.18min 18.486PPB

response 353251

(51) Decachlorobiphenyl #2 (S)

17.48min 16.822PPB m

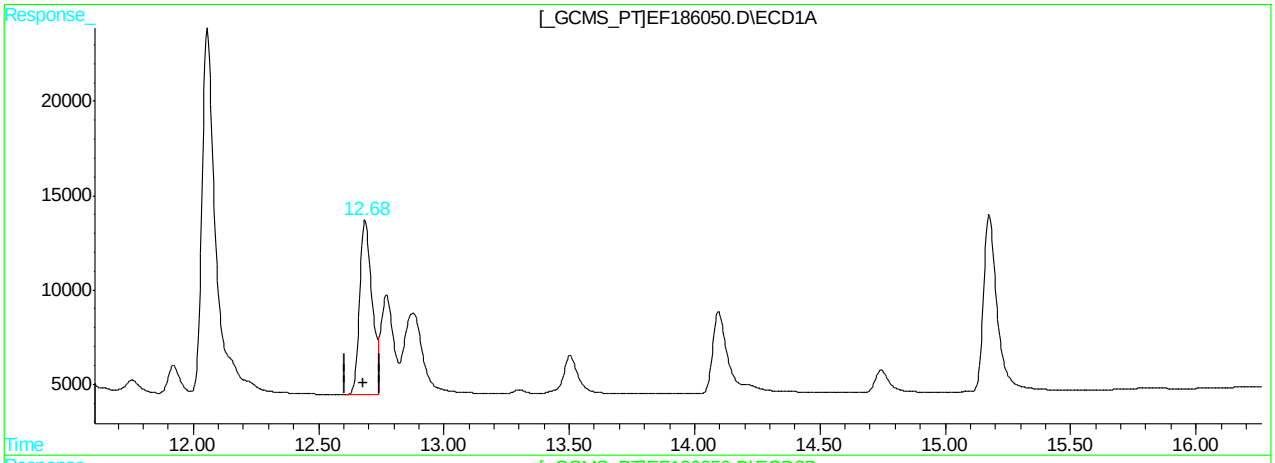
response 419269

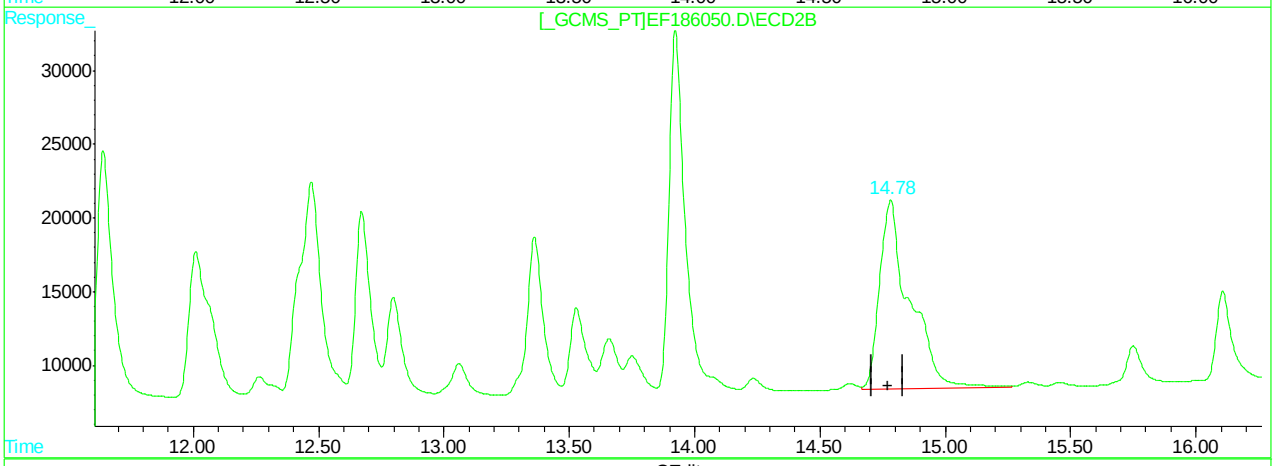
(+) = Expected Retention Time
EF186050.D PCB6325.M Thu Dec 06 08:34:25 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD2B.CH
Acq On : 6 Dec 2018 2:24 am Operator: tianweir
Sample : cc6325-500 Inst : gcef
Misc : op17100,GEF6326,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.69min 203.977PPB

response 314384

(50) AR1260-E #2

14.78min 417.331PPB

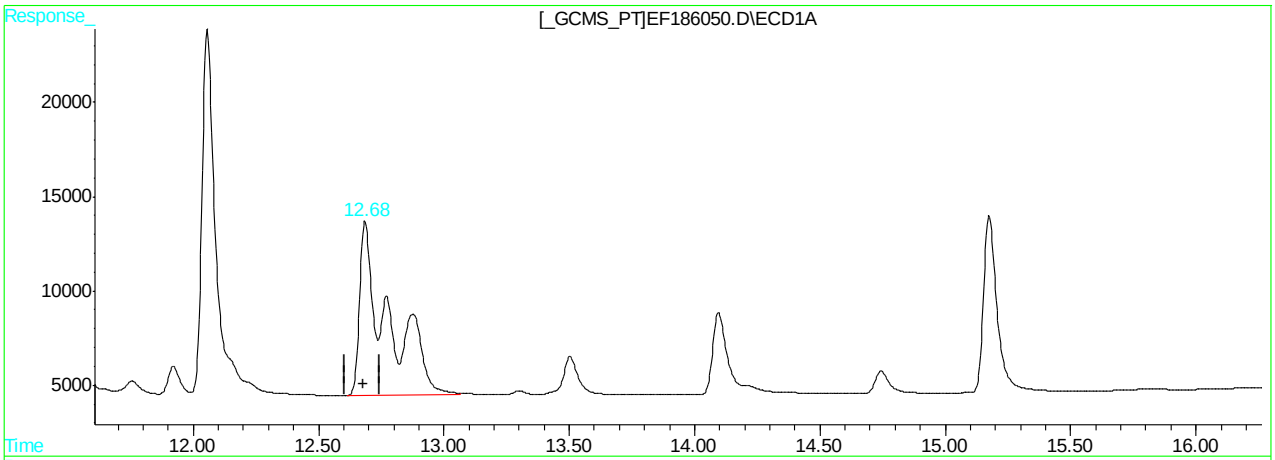
response 1069781

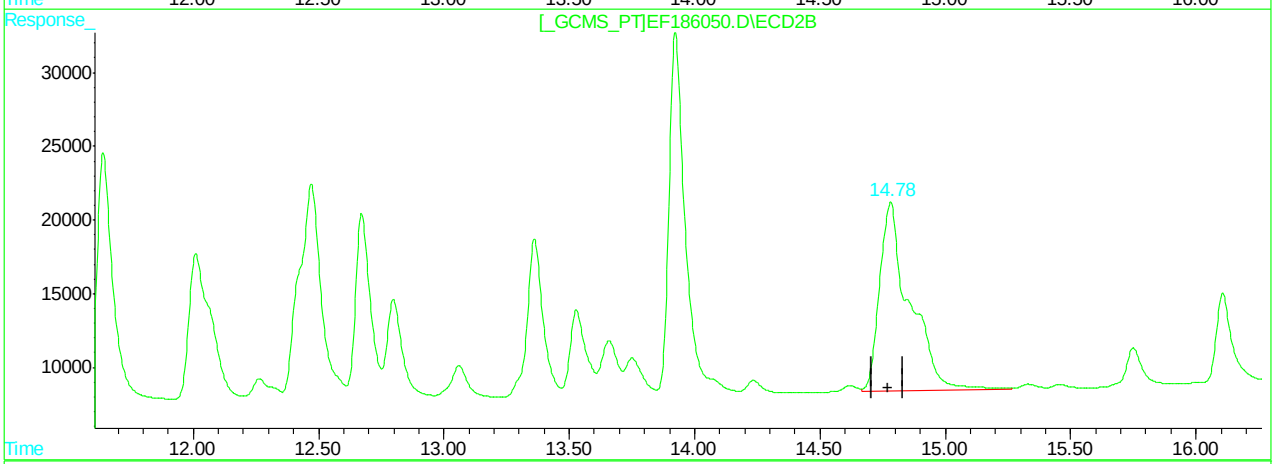
(+) = Expected Retention Time
EF186050.D PCB6325.M Thu Dec 06 08:34:38 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD1A.CH Vial: 23
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186050.D\ECD2B.CH
Acq On : 6 Dec 2018 2:24 am Operator: tianweir
Sample : cc6325-500 Inst : gcef
Misc : op17100,GEF6326,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration





QEdit

(50) AR1260-E

12.68min 467.119PPB m

response 719957

(50) AR1260-E #2

14.78min 417.331PPB

response 1069781

(+) = Expected Retention Time
EF186050.D PCB6325.M Thu Dec 06 08:34:43 2018 GCEF

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 12/06/18 11:22

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD2B.CH
Acq On : 6 Dec 2018 6:33 am Operator: tianweir
Sample : cc6325-1000 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:35 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Initial Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	3.69	4.31	578589	741124	41.395	42.120
	Spiked Amount 40.000			Recovery =		103.49%	105.30%
51) S	Decachlorobiphen	15.17	17.48	734249	980011	38.425	39.320
	Spiked Amount 40.000			Recovery =		96.06%	98.30%
	Target Compounds						
41)	AR1016-A	4.27	5.26	374250	426427	1015.101	1038.097
42)	AR1016-B	4.88	6.10	639556	846116	990.814	1027.341
43)	AR1016-C	5.73	7.03	1313757	1681532	992.307	1011.333
44)	AR1016-D	5.99	7.33	532231	751102	1040.395	1037.096
45)	AR1016-E	6.79	8.35	557141	510166	1020.492	1035.300
46)	AR1260-A	10.56	12.47	1318061	1989517	1014.024	1010.482
47)	AR1260-B	10.82	12.67	627722	1150057	991.049	1023.602
48)	AR1260-C	11.36	13.36	659277	1096987	1027.542	1018.145
49)	AR1260-D	12.05	13.92	1561377	2585447	992.493	1013.204
50)	AR1260-E	12.68	14.78	1546923	2479270	1003.666m	967.185

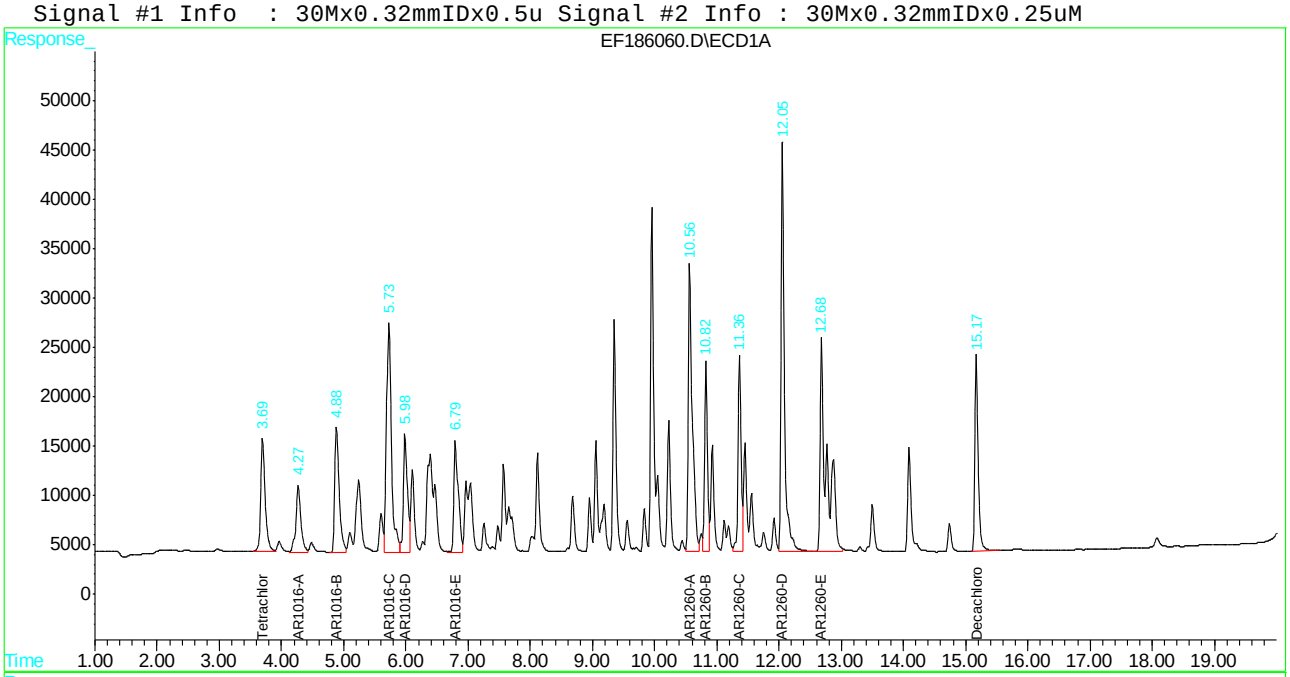
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
EF186060.D PCB6325.M Thu Dec 06 11:14:05 2018 GCEF Page 1

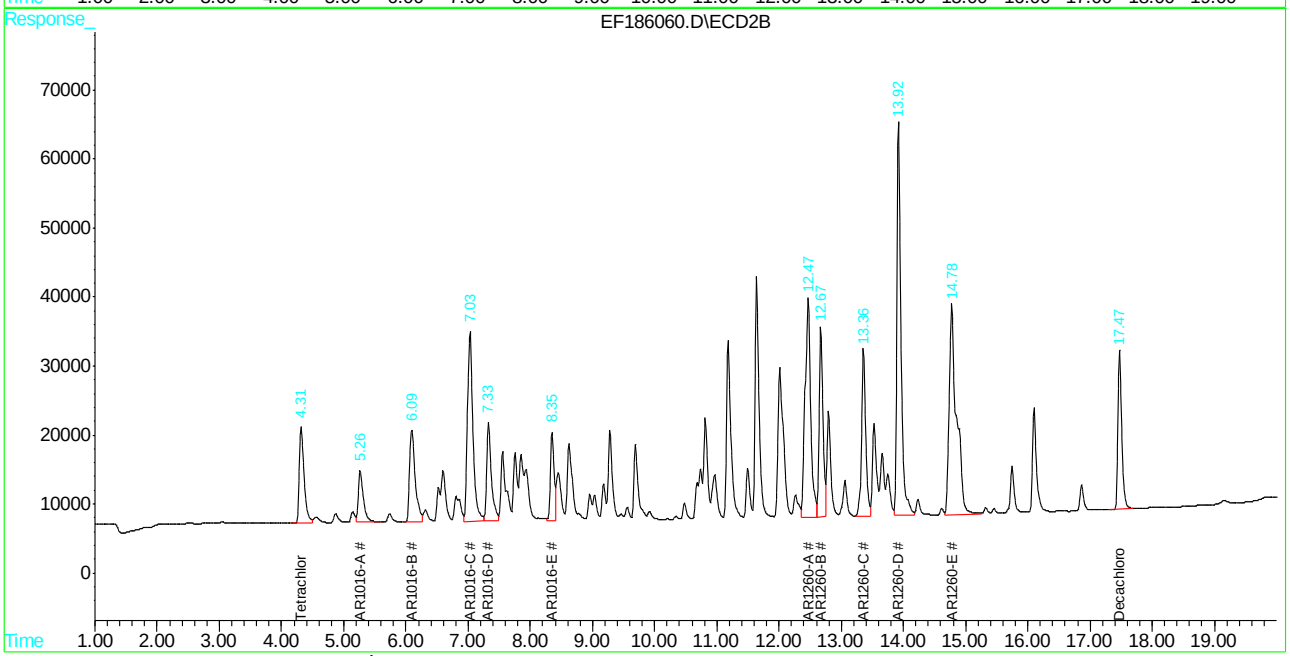
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD2B.CH
Acq On : 6 Dec 2018 6:33 am Operator: tianweir
Sample : cc6325-1000 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:35 2018 Quant Results File: PCB6325.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration
DataAcq Meth : PCB6325.M

Volume Inj. : 1UL/COLUMN
Signal #1 Phase : RTX-CLP1 Signal #2 Phase: RTX-CLP2
Signal #1 Info : 30Mx0.32mmIDx0.5u Signal #2 Info : 30Mx0.32mmIDx0.25uM





Manual Integration Approval Summary

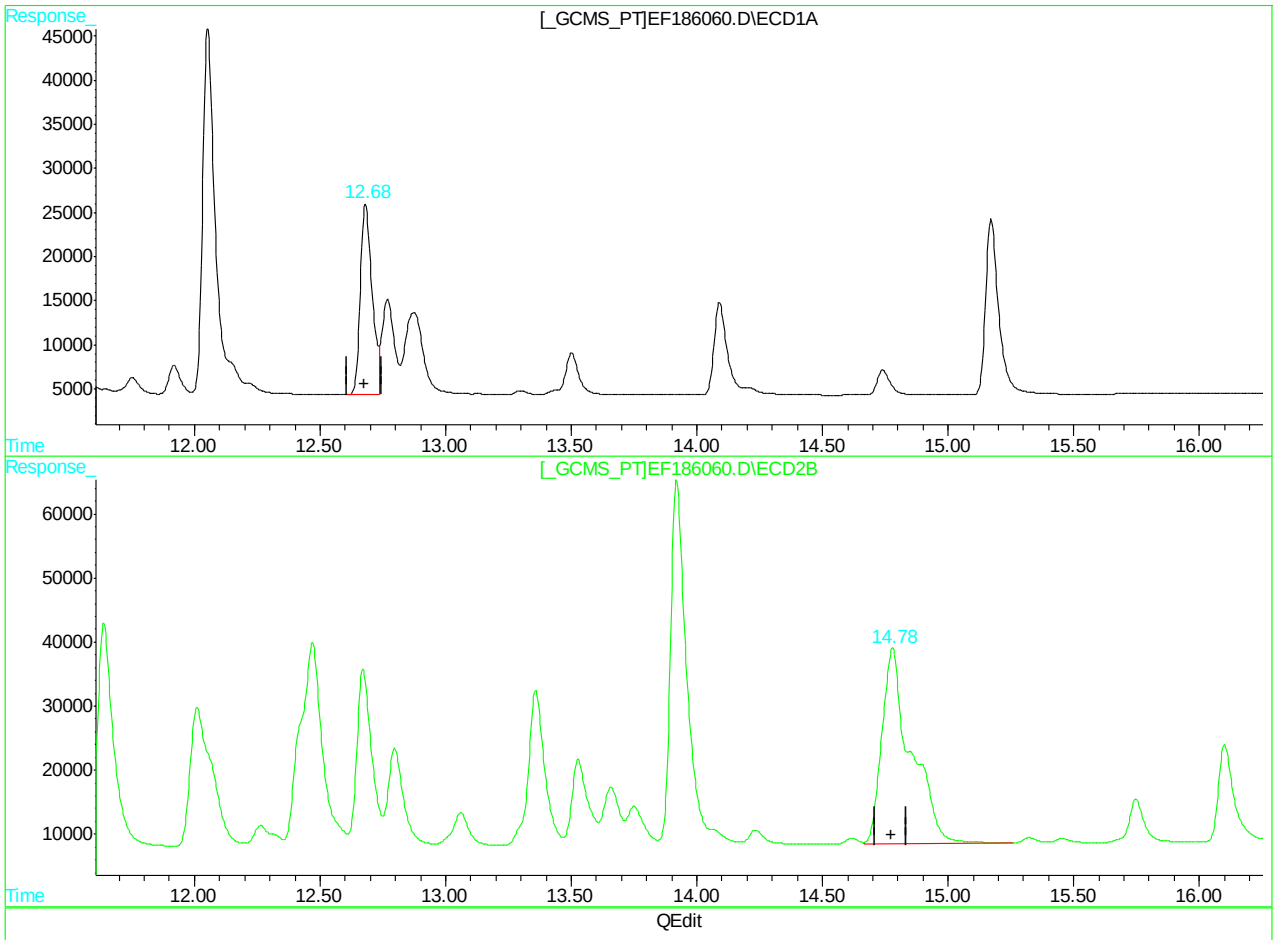
Sample Number:	GEF6326-CC6325	**Method:**	SW846 8082A
Lab FileID:	EF186060.D	**Analyst approved:**	12/06/18 08:55 Tianwei Ruan
Injection Time:	12/06/18 06:33	**Supervisor approved:**	12/06/18 11:22 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
AR1260-E		1	12.68	Split peak

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD2B.CH
Acq On : 6 Dec 2018 6:33 am Operator: tianweir
Sample : cc6325-1000 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration



(50) AR1260-E

12.68min 457.582PPB

response 705258

(50) AR1260-E #2

14.78min 967.185PPB

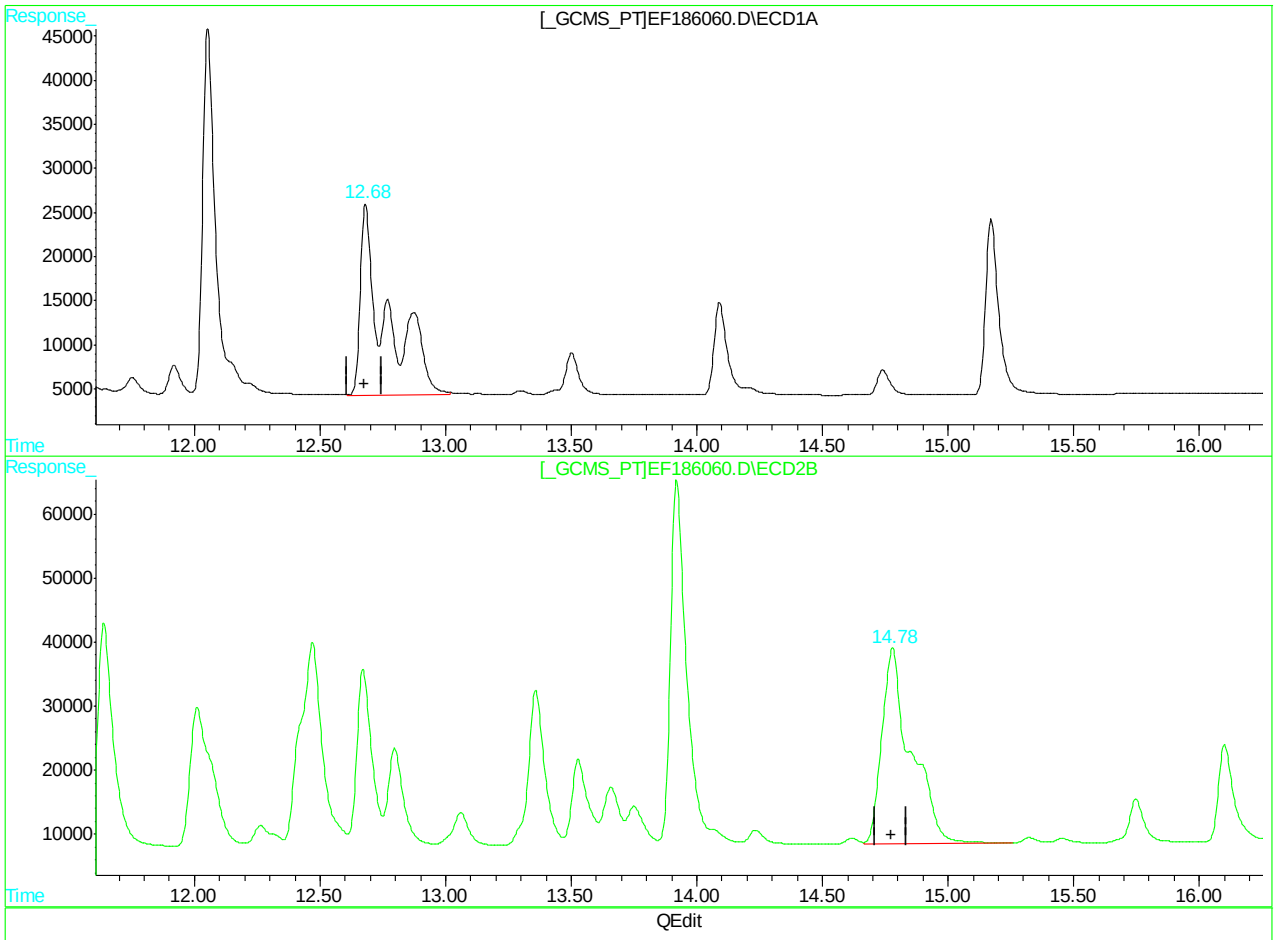
response 2479270

(+) = Expected Retention Time
EF186060.D PCB6325.M Thu Dec 06 08:35:17 2018 GCEF

Quantitation Report (Qedit)

Signal #1 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD1A.CH Vial: 30
Signal #2 : C:\HPCHEM\1\DATA\GEF6326\EF186060.D\ECD2B.CH
Acq On : 6 Dec 2018 6:33 am Operator: tianweir
Sample : cc6325-1000 Inst : gcef
Misc : op17101,GEF6326,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: AUTOINT1.E IntFile Signal #2: .E
Quant Time: Dec 6 8:34 2018 Quant Results File: PCB6325.RES

Method : C:\HPCHEM\1\METHODS\PCB6325.M (Chemstation Integrator)
Title : GC/ECD- PCB
Last Update : Wed Dec 05 09:25:55 2018
Response via : Multiple Level Calibration



(50) AR1260-E

12.68min 1003.666PPB m

response 1546923

(50) AR1260-E #2

14.78min 967.185PPB

response 2479270

(+) = Expected Retention Time
EF186060.D PCB6325.M Thu Dec 06 08:35:21 2018 GCEF

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GEF6325

Print Analyst Name: Tianwei River

Date: 12/4/18

Analyst Signature: TR

Columns: ZBCLP1/ZBCL08

Method 8082

Initial Cal. Method PCB6325

Injection Volume: 1.0ul

Date Archived:

Standard Data		
Lot #	Description	Conc.
488-84A	AR1016/1260	60ppb
84B		250ppb
84C		500ppb
84D		1000ppb
84E		2000ppb
84F		3000ppb
87	IB	0ppb

TR1214

Standard Data		
Lot #	Description	Conc.
488-84A-87		
88		
488-84-88	AR1221/1254	1000ppb
89	AR1232/1262	
90	AR1242/1268	
91	AR1248	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 12-5-18

Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
EF86003	IB				2				OK	
004	ICC6325-60	1016/1260	1214		3				OK	
005	-250				4				OK	
006	-500				5				OK	
007	ICC6325-1000				6				OK	
008	ICC6325-2000				7				OK	
009	-3000				8				OK	
010	-1000	1221/1254			9				OK	
011	-1000	1232/1262			10				OK	
012	-1000	1242/1268			11				OK	
013	-1000	1248			12				OK	
014	ICV6325-1000		WC1		13				OK	
015	-1000				14				OK	Sw18.2484.92 @1000ppb
016	-1000				15				OK	-93
017	-1000				16				OK	94
018	-1000				17				OK	95
019	Rest Mix				18				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate. TR1214

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

167

Form: OR016-09

Rev. Date: 5/25/17

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: GEF6326

Print Analyst Name: Tianwei Ruan

Date: 12/5/18

Analyst Signature: TR

Columns: ZBCLDI / ZBCLDII

Method 8082

Initial Cal. Method PCB6325

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
[illegible]	AR1016/1260	500ppb
34E	↓	100ppb
37	IB	20ppb
183247	Larvon (Hibar)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 12-5-18

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	EF186020	CC6325-500				1					
	021	IB				2				OK	
	022	~~test~~ CC6325-1000 TR12/5				20					
	023	IB				2				OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

169

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GCEF
Method: SW846 8082A

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	EF186007.D	12/04/18 17:03	GEF6325-ICC6325	TIANWEIR
Std#2	EF186020.D	12/05/18 09:11	GEF6326-CC6325	TIANWEIR
Std#3	EF186022.D	12/05/18 10:01	GEF6326-CC6325	TIANWEIR

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
Tetrachloro-m-xylene	1	SURR	3.69	3.69	3.70	3.69	0.006	+/- 0.030 [a]
Decachlorobiphenyl	1	SURR	15.17	15.18	15.19	15.18	0.010	+/- 0.030
Tetrachloro-m-xylene	2	SURR	4.31	4.32	4.32	4.32	0.006	+/- 0.030 [a]
Decachlorobiphenyl	2	SURR	17.47	17.48	17.50	17.48	0.015	+/- 0.046
AR1016-A	1	REG	4.26	4.27	4.28	4.27	0.010	+/- 0.030
AR1016-B	1	REG	4.88	4.88	4.89	4.88	0.006	+/- 0.030 [a]
AR1016-C	1	REG	5.72	5.73	5.74	5.73	0.010	+/- 0.030
AR1016-D	1	REG	5.98	5.98	6.00	5.99	0.012	+/- 0.035
AR1016-E	1	REG	6.79	6.79	6.80	6.79	0.006	+/- 0.030 [a]
AR1260-A	1	REG	10.56	10.56	10.58	10.57	0.012	+/- 0.035
AR1260-B	1	REG	10.82	10.82	10.84	10.83	0.012	+/- 0.035
AR1260-C	1	REG	11.36	11.36	11.38	11.37	0.012	+/- 0.035
AR1260-D	1	REG	12.05	12.06	12.07	12.06	0.010	+/- 0.030
AR1260-E	1	REG	12.68	12.69	12.70	12.69	0.010	+/- 0.030
AR1016-A	2	REG	5.26	5.27	5.27	5.27	0.006	+/- 0.030 [a]
AR1016-B	2	REG	6.09	6.10	6.11	6.10	0.010	+/- 0.030
AR1016-C	2	REG	7.03	7.03	7.05	7.04	0.012	+/- 0.035
AR1016-D	2	REG	7.32	7.33	7.34	7.33	0.010	+/- 0.030
AR1016-E	2	REG	8.34	8.35	8.36	8.35	0.010	+/- 0.030
AR1260-A	2	REG	12.46	12.47	12.48	12.47	0.010	+/- 0.030
AR1260-B	2	REG	12.66	12.67	12.68	12.67	0.010	+/- 0.030
AR1260-C	2	REG	13.35	13.36	13.37	13.36	0.010	+/- 0.030
AR1260-D	2	REG	13.91	13.93	13.94	13.93	0.015	+/- 0.046
AR1260-E	2	REG	14.77	14.79	14.80	14.79	0.015	+/- 0.046

(a) Default minimum StdDev of .01 minutes employed.

LOGBOOK ID: B-7329

Pest / PCB Extraction Log - Soils

Date Started: 12-5-18 Time Started: 12:30
Date Finished: 12-5-18 Time Finished: 3:30

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 ____ Sonication SW3550C ____
Waste Dilution SW3580A √ Soxhlet SW3540 ____

BATCH # GC 17101 RACK# PCB-25

Weighed by:	NT
Extracted by:	NT
Concentrated by:	NT
Final Vol. Top-up:	CC
Vialed by:	CC
Supervisor Review:	12.5.18

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)	2	35.1	+0.1	35.2	1.0
Balance	B-42	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	18216067	400	1.0
PPCB LL			

WITNESS SIGN: CC SPIKE SIGN: NT

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST			
PEST LL			
PCB	18223134	2	1.0
PCB LL			

WITNESS SIGN: CC SPIKE SIGN: NT

SOLVENT	LOT #	BRAND	AMT (mL)
2:1 HEXANE/ ACETONE			
1:1 METH CHLOR/ ACETONE			
HEXANE	175276	FISHER	VAR

REAGENT	LOT #	BAKE BATCH #	BRAND
HYDROMATRIX			
SODIUM SULFATE			
FILTER PAPER			
FLORISIL			
1:1 SULFURIC ACID	280655		VWR
COPPER	18223127		ALDRICH
PERMANG(KMnO4)			
HYDROXYLAMINE			

MATRIX	LOT #	BAKE BATCH #	BRAND
SAND			

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Extract Color	Final Extract Vol (mL)	Extract Cleanup H2SO4	Florisil	Cu	KMnO4	GPC	Comment
	MB1	PCB		HEXANE	1.0					CLEAR	10.0	/		/			
	BS1			HEXANE	1.0					CLEAR	10.0	/		/			
JC78977-1	MS		1	YELLOW	1.0					CLEAR	10.0	/		/			
1	MSD		1	YELLOW	1.0					CLEAR	10.0	/		/			
	BS																
	MS																
	MSD																
#1	JC78977-1	PCB	1	YELLOW	1.0					CLEAR	10.0	/		/			
2	JC78619-2		2	YELLOW	1.0					CLEAR	10.0	/		/			
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Comments: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:

SGS
Form: OP018A-09
Rev Date: 8/2/17

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Metals Analysis

QC Data Summaries

Includes the following where applicable:

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

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: H8120518S1.CSV Date Analyzed: 12/05/18 Methods: SW846 7471B
Analyst: EAL Run ID: MA45785
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:24	MA45785-STD1	1		B=1.1660E-004, C=-2.9879E-002, RHO=0.9998147
13:25	MA45785-STD2	1		STDB
13:27	MA45785-STD3	1		STDC
13:28	MA45785-STD4	1		STDD
13:30	MA45785-STD5	1		STDE
13:31	MA45785-STD6	1		STDF
13:34	MA45785-ICV1	1		
13:35	MA45785-ICB1	1		
13:37	MA45785-CCV1	1		
13:38	MA45785-CCB1	1		
13:40	MA45785-CRI1	1		
13:46	MP11075-MB1	1		
13:47	MP11075-B1	1		
13:49	MP11075-S1	5		%Sol
13:50	MP11075-S2	5		%Sol
13:52	JC78941-1	5		(sample used for QC only; not part of login JC78619A)
13:54	MP11075-S3	2		%Sol
13:56	MP11075-S4	2		%Sol
13:58	JC79057-1	1		(sample used for QC only; not part of login JC78619A)
14:00	MA45785-CCV2	1		
14:02	MA45785-CCB2	1		
14:03	ZZZZZZ	1		
14:05	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:09	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:13	JC78619-2	1		
---------->	Last reportable sample/prep for job JC78619A			
14:15	MA45785-CRI2	1		
14:17	MA45785-CCV3	1		
14:18	MA45785-CCB3	1		
---------->	Last reportable CCB for job JC78619A			
	Refer to raw data for calibration curve and standards.			

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: H8120518S1.CSV Date Analyzed: 12/05/18 Methods: SW846 7471B
Analyst: EAL Run ID: MA45785
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
13:34	MA45785-ICV1	1	X	
13:35	MA45785-ICB1	1	X	
13:37	MA45785-CCV1	1	X	
13:38	MA45785-CCB1	1	X	
13:40	MA45785-CRI1	1	X	
13:46	MP11075-MB1	1	X	
13:47	MP11075-B1	1	X	
13:49	MP11075-S1	5	X	
13:50	MP11075-S2	5	X	
13:52	JC78941-1	5	X	(a)
13:54	MP11075-S3	2	X	
13:56	MP11075-S4	2	X	
13:58	JC79057-1	1	X	(a)
14:00	MA45785-CCV2	1	X	
14:02	MA45785-CCB2	1	X	
14:03	ZZZZZZ	1		
14:05	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:09	ZZZZZZ	1		
14:10	ZZZZZZ	1		
14:12	ZZZZZZ	1		
14:13	JC78619-2	1	X	
14:15	MA45785-CRI2	1	X	
14:17	MA45785-CCV3	1	X	
14:18	MA45785-CCB3	1	X	

(a) Sample used for QC only; not part of login JC78619A.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: H8120518S1.CSV Date Analyzed: 12/05/18 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA45785 Units: ug/l

Time:			13:35		13:38		14:02		14:18	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.017	-0.0117	<0.20	-0.0150	<0.20	-0.00680	<0.20	-0.00840	<0.20

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: H8120518S1.CSV Date Analyzed: 12/05/18 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA45785 Units: ug/l

Time:		13:34			13:37			14:00	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.14	104.7	2.5	2.43	97.2	2.5	2.38	95.2

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: H8120518S1.CSV Date Analyzed: 12/05/18 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA45785 Units: ug/l

Time:		14:17	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Mercury	2.5	2.41	96.4

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: H8120518S1.CSV Date Analyzed: 12/05/18 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA45785 Units: ug/l

Time:			13:40		14:15	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.207	103.5	0.209	104.5

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

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:09	MA45789-STD1	1		STDA
19:14	MA45789-STD2	1		STDB
19:19	ZZZZZZ	1		
19:24	ZZZZZZ	1		
19:29	MA45789-ICV1	1		
19:34	MA45789-ICB1	1		
19:39	MA45789-CCV1	1		
19:44	MA45789-CCB1	1		
19:49	MA45789-CRI1	1		
19:55	MA45789-CRID1	1		See rerun
20:00	MA45789-ICSA1	1		
20:05	MA45789-ICSAB1	1		
20:10	MA45789-HSTD1	1		
20:16	MA45789-HSTD2	1		
20:21	ZZZZZZ	1		
20:27	ZZZZZZ	1		
20:32	ZZZZZZ	1		
20:37	MA45789-CCV2	1		
20:42	MA45789-CCB2	1		
20:47	MA45789-CRID2	1		
20:53	MP10982-MB1	1		Batch to reanalysis for As, ICB out
20:58	MP10982-MB2	1		
21:03	MP10982-B1	1		
21:08	ZZZZZZ	1		
21:13	MP10982-S1	1		
21:18	MP10982-S2	1		
21:23	JC78731-4	1		(sample used for QC only; not part of login JC78619A)
21:28	MP10982-SD1	5		
21:33	MA45789-CCV3	1		
21:38	MA45789-CCB3	1		
21:43	MP10982-S3	1		
21:48	MP10982-S4	1		
21:53	JC78731-4F	1		(sample used for QC only; not part of login JC78619A)

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:58	MP10982-SD2	5		
22:03	ZZZZZZ	1		
22:08	ZZZZZZ	1		
22:14	ZZZZZZ	1		
22:19	ZZZZZZ	1		
22:24	ZZZZZZ	1		
22:29	MA45789-CCV4	1		
22:34	MA45789-CCB4	1		
22:39	ZZZZZZ	1		
22:45	ZZZZZZ	1		
22:50	ZZZZZZ	1		
22:56	ZZZZZZ	1		
23:01	ZZZZZZ	1		
23:06	ZZZZZZ	1		
23:12	ZZZZZZ	1		
23:17	ZZZZZZ	1		
23:22	ZZZZZZ	1		
23:27	ZZZZZZ	1		
23:32	MA45789-CCV5	1		
23:37	MA45789-CCB5	1		
23:43	ZZZZZZ	1		
23:48	ZZZZZZ	1		
23:53	ZZZZZZ	1		
23:58	MP11061-MB1	1		Batch to reanalysis for As, ICB out
00:04	MP11061-B1	1		
00:08	MP11061-S1	1		
00:13	MP11061-S2	1		
00:18	JC78945-2	1		(sample used for QC only; not part of login JC78619A)
00:23	MP11061-SD1	5		
00:28	MA45789-CCV6	1		
00:33	MA45789-CCB6	1		
00:39	ZZZZZZ	1		
00:44	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:49	ZZZZZZ	1		
00:54	ZZZZZZ	1		
00:59	ZZZZZZ	1		
01:05	ZZZZZZ	1		
01:10	ZZZZZZ	1		
01:15	ZZZZZZ	1		
01:20	ZZZZZZ	1		
01:25	ZZZZZZ	1		
01:31	MA45789-CCV7	1		
01:36	MA45789-CCB7	1		
01:41	ZZZZZZ	1		
01:46	ZZZZZZ	1		
01:51	ZZZZZZ	1		
01:56	ZZZZZZ	1		
02:02	ZZZZZZ	1		
02:07	ZZZZZZ	1		
02:12	ZZZZZZ	1		
02:17	MP11023-MB1	1		Batch to reanalysis for As, ICB out
02:23	MP11023-B1	1		
02:27	MA45789-CCV8	1		Tl out
02:32	MA45789-CCB8	1		
02:38	MP11023-S1	1		
02:43	MP11023-S2	1		
02:48	JC78870-1	1		(sample used for QC only; not part of login JC78619A)
02:53	MP11023-SD1	5		
02:58	ZZZZZZ	1		
03:04	ZZZZZZ	1		
03:09	ZZZZZZ	1		
03:14	ZZZZZZ	1		
03:20	ZZZZZZ	1		
03:25	ZZZZZZ	1		
03:30	MA45789-CCV9	1		Tl out
03:35	MA45789-CCB9	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:40	ZZZZZZ	1		
03:45	ZZZZZZ	1		
03:50	ZZZZZZ	1		
03:56	ZZZZZZ	1		
04:01	ZZZZZZ	1		
04:06	ZZZZZZ	1		
04:11	ZZZZZZ	1		
04:17	ZZZZZZ	1		
04:22	ZZZZZZ	1		
04:27	ZZZZZZ	1		
04:33	MA45789-CCV10	1		Tl out
04:37	MA45789-CCB10	1		
04:43	ZZZZZZ	1		
04:48	ZZZZZZ	1		
04:53	ZZZZZZ	1		
04:59	ZZZZZZ	1		
05:04	ZZZZZZ	1		
05:09	ZZZZZZ	1		
05:15	ZZZZZZ	1		
05:20	ZZZZZZ	1		
05:25	ZZZZZZ	1		
05:31	ZZZZZZ	1		
05:36	ZZZZZZ	1		
05:41	ZZZZZZ	1		
05:47	MA45789-CCV11	1		Tl out
05:52	MA45789-CCB11	1		
05:57	ZZZZZZ	1		
06:02	ZZZZZZ	1		
06:07	ZZZZZZ	1		
06:13	MP10983-MB1	1		
06:18	MP10983-B1	1		
06:23	ZZZZZZ	1		
06:28	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:34	MA45789-CCV12	1		Tl out
06:38	MA45789-CCB12	1		
06:44	MP10983-S1	1		Cr>250 ppm
06:49	MP10983-S2	1		Cr>250 ppm
06:54	JC78732-7	1		(sample used for QC only; not part of login JC78619A)
06:59	MP10983-SD1	5		Cr>250 ppm
07:05	MP10983-S3	1		Cr>250 ppm
07:10	MP10983-S4	1		Cr>250 ppm
07:15	JC78732-7F	1		(sample used for QC only; not part of login JC78619A)
07:21	MP10983-SD2	5		Cr>250 ppm
07:26	MA45789-CCV13	1		Tl out
07:31	MA45789-CCB13	1		
07:36	ZZZZZZ	1		
07:41	MP11070-MB1	1		Cr>1/2 of RL
07:47	MP11070-B1	1		
07:52	JC78619-2	1		
---------->	Last reportable sample/prep for job JC78619A			
07:57	ZZZZZZ	1		
08:02	ZZZZZZ	1		
08:07	ZZZZZZ	1		
08:13	ZZZZZZ	1		
08:18	ZZZZZZ	10		
08:23	MA45789-CCV14	1		Tl out
08:28	MA45789-CCB14	1		
---------->	Last reportable CCB for job JC78619A			
08:33	ZZZZZZ	1		
08:39	ZZZZZZ	1		
08:44	ZZZZZZ	1		
08:50	ZZZZZZ	1		
08:55	ZZZZZZ	1		
09:00	ZZZZZZ	10		
09:06	ZZZZZZ	1		
09:11	ZZZZZZ	1		
09:16	MA45789-CCV15	1		
09:22	MA45789-CCB15	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Dilution	Element: As	Ba	Cd	Pb	Se	Ag	
19:19	ZZZZZZ	1							
19:24	ZZZZZZ	1							
19:29	MA45789-ICV1	1	X	X	X	X	X	X	
19:34	MA45789-ICB1	1	X	X	X	X	X	X	
19:39	MA45789-CCV1	1	X	X	X	X	X	X	
19:44	MA45789-CCB1	1	X	X	X	X	X	X	
19:49	MA45789-CRI1	1	X	X	X	X	X	X	
19:55	MA45789-CRID1	1	See	rerun					
20:00	MA45789-ICSA1	1	X	X	X	X	X	X	
20:05	MA45789-ICSAB1	1	X	X	X	X	X	X	
20:10	MA45789-HSTD1	1	X	X	X	X	X	X	
20:16	MA45789-HSTD2	1							
20:21	ZZZZZZ	1							
20:27	ZZZZZZ	1							
20:32	ZZZZZZ	1							
20:37	MA45789-CCV2	1	X	X	X	X	X	X	
20:42	MA45789-CCB2	1	X	X	X	X	X	X	
20:47	MA45789-CRID2	1	X	X	X	X	X	X	
20:53	MP10982-MB1	1		X	X	X	X	X	
20:58	MP10982-MB2	1		X	X	X	X	X	
21:03	MP10982-B1	1		X	X	X	X	X	
21:08	ZZZZZZ	1							
21:13	MP10982-S1	1		X	X	X	X	X	
21:18	MP10982-S2	1		X	X	X	X	X	
21:23	JC78731-4	1		X	X	X	X	X	(a)
21:28	MP10982-SD1	5		X	X	X	X	X	
21:33	MA45789-CCV3	1	X	X	X	X	X	X	
21:38	MA45789-CCB3	1	X	X	X	X	X	X	
21:43	MP10982-S3	1		X	X	X	X	X	
21:48	MP10982-S4	1		X	X	X	X	X	
21:53	JC78731-4F	1							(a)
21:58	MP10982-SD2	5		X	X	X	X	X	
22:03	ZZZZZZ	1							
		Element:	As	Ba	Cd	Pb	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Pb	Se	Ag	
22:08	ZZZZZZ	1							
22:14	ZZZZZZ	1							
22:19	ZZZZZZ	1							
22:24	ZZZZZZ	1							
22:29	MA45789-CCV4	1	X	X	X	X	X	X	
22:34	MA45789-CCB4	1	X	X	X	X	X	X	
22:39	ZZZZZZ	1							
22:45	ZZZZZZ	1							
22:50	ZZZZZZ	1							
22:56	ZZZZZZ	1							
23:01	ZZZZZZ	1							
23:06	ZZZZZZ	1							
23:12	ZZZZZZ	1							
23:17	ZZZZZZ	1							
23:22	ZZZZZZ	1							
23:27	ZZZZZZ	1							
23:32	MA45789-CCV5	1	X	X	X	X	X	X	
23:37	MA45789-CCB5	1	X	X	X	X	X	X	
23:43	ZZZZZZ	1							
23:48	ZZZZZZ	1							
23:53	ZZZZZZ	1							
23:58	MP11061-MB1	1			X	X		X	
00:04	MP11061-B1	1			X	X		X	
00:08	MP11061-S1	1			X	X		X	
00:13	MP11061-S2	1			X	X		X	
00:18	JC78945-2	1							(a)
00:23	MP11061-SD1	5			X	X		X	
00:28	MA45789-CCV6	1	X	X	X	X	X	X	
00:33	MA45789-CCB6	1	X	X	X	X	X	X	
00:39	ZZZZZZ	1							
00:44	ZZZZZZ	1							
00:49	ZZZZZZ	1							
00:54	ZZZZZZ	1							
		Element:	As	Ba	Cd	Pb	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Pb	Se	Ag	
00:59	ZZZZZZ	1							
01:05	ZZZZZZ	1							
01:10	ZZZZZZ	1							
01:15	ZZZZZZ	1							
01:20	ZZZZZZ	1							
01:25	ZZZZZZ	1							
01:31	MA45789-CCV7	1	X	X	X	X	X	X	
01:36	MA45789-CCB7	1	X	X	X	X	X	X	
01:41	ZZZZZZ	1							
01:46	ZZZZZZ	1							
01:51	ZZZZZZ	1							
01:56	ZZZZZZ	1							
02:02	ZZZZZZ	1							
02:07	ZZZZZZ	1							
02:12	ZZZZZZ	1							
02:17	MP11023-MB1	1		X	X	X	X		
02:23	MP11023-B1	1		X	X	X	X		
02:27	MA45789-CCV8	1	X	X	X	X	X	X	
02:32	MA45789-CCB8	1	X	X	X	X	X	X	
02:38	MP11023-S1	1		X	X	X			
02:43	MP11023-S2	1		X	X	X			
02:48	JC78870-1	1							(a)
02:53	MP11023-SD1	5		X	X	X			
02:58	ZZZZZZ	1							
03:04	ZZZZZZ	1							
03:09	ZZZZZZ	1							
03:14	ZZZZZZ	1							
03:20	ZZZZZZ	1							
03:25	ZZZZZZ	1							
03:30	MA45789-CCV9	1	X	X	X	X	X	X	
03:35	MA45789-CCB9	1	X	X	X	X	X	X	
03:40	ZZZZZZ	1							
03:45	ZZZZZZ	1							
		Element:	As	Ba	Cd	Pb	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Pb	Se	Ag
03:50	ZZZZZZ	1						
03:56	ZZZZZZ	1						
04:01	ZZZZZZ	1						
04:06	ZZZZZZ	1						
04:11	ZZZZZZ	1						
04:17	ZZZZZZ	1						
04:22	ZZZZZZ	1						
04:27	ZZZZZZ	1						
04:33	MA45789-CCV10	1	X	X	X	X	X	X
04:37	MA45789-CCB10	1	X	X	X	X	X	X
04:43	ZZZZZZ	1						
04:48	ZZZZZZ	1						
04:53	ZZZZZZ	1						
04:59	ZZZZZZ	1						
05:04	ZZZZZZ	1						
05:09	ZZZZZZ	1						
05:15	ZZZZZZ	1						
05:20	ZZZZZZ	1						
05:25	ZZZZZZ	1						
05:31	ZZZZZZ	1						
05:36	ZZZZZZ	1						
05:41	ZZZZZZ	1						
05:47	MA45789-CCV11	1	X	X	X	X	X	X
05:52	MA45789-CCB11	1	X	X	X	X	X	X
05:57	ZZZZZZ	1						
06:02	ZZZZZZ	1						
06:07	ZZZZZZ	1						
06:13	MP10983-MB1	1						
06:18	MP10983-B1	1						
06:23	ZZZZZZ	1						
06:28	ZZZZZZ	1						
06:34	MA45789-CCV12	1	X	X	X	X	X	X
06:38	MA45789-CCB12	1	X	X	X	X	X	X
		Element:	As	Ba	Cd	Pb	Se	Ag

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Element: Dilution	A s	B a	C d	P b	S e	A g
06:44	MP10983-S1	1	Cr>250 ppm					
06:49	MP10983-S2	1	Cr>250 ppm					
06:54	JC78732-7	1	Cr>250 ppm					
06:59	MP10983-SD1	5	Cr>250 ppm					
07:05	MP10983-S3	1	Cr>250 ppm					
07:10	MP10983-S4	1	Cr>250 ppm					
07:15	JC78732-7F	1	Cr>250 ppm					
07:21	MP10983-SD2	5	Cr>250 ppm					
07:26	MA45789-CCV13	1	X	X	X	X	X	X
07:31	MA45789-CCB13	1	X	X	X	X	X	X
07:36	ZZZZZZ	1						
07:41	MP11070-MB1	1	X	X	X	X	X	X
07:47	MP11070-B1	1	X	X	X	X	X	X
07:52	JC78619-2	1	X	X	X	X	X	X
07:57	ZZZZZZ	1						
08:02	ZZZZZZ	1						
08:07	ZZZZZZ	1						
08:13	ZZZZZZ	1						
08:18	ZZZZZZ	10						
08:23	MA45789-CCV14	1	X	X	X	X	X	X
08:28	MA45789-CCB14	1	X	X	X	X	X	X
08:33	ZZZZZZ	1						
08:39	ZZZZZZ	1						
08:44	ZZZZZZ	1						
08:50	ZZZZZZ	1						
08:55	ZZZZZZ	1						
09:00	ZZZZZZ	10						
09:06	ZZZZZZ	1						
09:11	ZZZZZZ	1						
09:16	MA45789-CCV15	1	X	X	X	X	X	X
09:22	MA45789-CCB15	1	X	X	X	X	X	X

(a) Sample used for QC only; not part of login JC78619A.

Element:	A s	B a	C d	P b	S e	A g

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:09	MA45789-STD1	4291 R	103700 R	19393 R	9507 R
19:14	MA45789-STD2	4045	96136	19053	8175
19:19	ZZZZZZ	4140	99092	19132	8486
19:24	ZZZZZZ	4278	103950	19280	9475
19:29	MA45789-ICV1	4138	99293	19068	8487
19:34	MA45789-ICB1	4270	103950	19361	9456
19:39	MA45789-CCV1	4122	98753	19118	8453
19:44	MA45789-CCB1	4267	103110	19349	9454
19:49	MA45789-CRI1	4230	102090	19216	9221
19:55	MA45789-CRID1	No results reported for the elements associated with this internal standard.			
20:00	MA45789-ICSA1	3873	92271	18773	7540
20:05	MA45789-ICSAB1	3872	92312	18837	7540
20:10	MA45789-HSTD1	4191	101370	19549	9096
20:16	MA45789-HSTD2	3863	92409	18669	7537
20:21	ZZZZZZ	4218	101930	19344	9362
20:27	ZZZZZZ	4189	103400	19218	9415
20:32	ZZZZZZ	4248	102920	19213	9429
20:37	MA45789-CCV2	4119	98576	19022	8448
20:42	MA45789-CCB2	4241	103110	19213	9405
20:47	MA45789-CRID2	4305	103310	19280	9521
20:53	MP10982-MB1	4294	105100	19720	9511
20:58	MP10982-MB2	4307	105020	19744	9541
21:03	MP10982-B1	4182	100750	19394	8706
21:08	ZZZZZZ	4271	103280	19659	9281
21:13	MP10982-S1	4039	97659	19305	8336
21:18	MP10982-S2	4024	97120	19118	8304
21:23	JC78731-4	4093	99108	19296	8674
21:28	MP10982-SD1	4224	102770	19305	9216
21:33	MA45789-CCV3	4118	98497	19117	8449
21:38	MA45789-CCB3	4283	103270	19363	9494
21:43	MP10982-S3	4030	97333	19104	8320
21:48	MP10982-S4	4025	97185	19152	8309
21:53	JC78731-4F	4074	98451	19236	8646

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:58	MP10982-SD2	4213	101860	19239	9193
22:03	ZZZZZZ	4200	101170	19517	8878
22:08	ZZZZZZ	4070	97906	19238	8504
22:14	ZZZZZZ	4055	96282	18961	8334
22:19	ZZZZZZ	4026	96894	19091	8190
22:24	ZZZZZZ	4128	96828	18766	8571
22:29	MA45789-CCV4	4120	98414	18959	8450
22:34	MA45789-CCB4	4257	102940	19108	9438
22:39	ZZZZZZ	4252	103540	19228	9425
22:45	ZZZZZZ	3702	92044	18640	7761
22:50	ZZZZZZ	3699	92664	18642	7766
22:56	ZZZZZZ	4276	104360	19464	9482
23:01	ZZZZZZ	3698	92350	18546	7755
23:06	ZZZZZZ	3689	92526	18632	7749
23:12	ZZZZZZ	4118	100270	19102	8757
23:17	ZZZZZZ	4047	99275	19056	8512
23:22	ZZZZZZ	4262	104460	19385	9463
23:27	ZZZZZZ	4049	98600	19129	8549
23:32	MA45789-CCV5	4092	98016	18883	8406
23:37	MA45789-CCB5	4232	102670	19115	9388
23:43	ZZZZZZ	4216	102850	19166	9362
23:48	ZZZZZZ	4011	98329	18968	8493
23:53	ZZZZZZ	4239	103650	19215	9408
23:58	MP11061-MB1	4261	103110	19166	9450
00:04	MP11061-B1	4187	101290	19260	8713
00:08	MP11061-S1	4069	97905	19022	8283
00:13	MP11061-S2	4045	97790	18977	8222
00:18	JC78945-2	4106	98882	19035	8635
00:23	MP11061-SD1	4188	101550	18963	9121
00:28	MA45789-CCV6	4076	97349	18845	8364
00:33	MA45789-CCB6	4224	101880	19009	9368
00:39	ZZZZZZ	4086	98493	19159	8540
00:44	ZZZZZZ	4289	104850	19469	9513

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:49	ZZZZZZ	4211	102330	19333	9122
00:54	ZZZZZZ	4126	99426	19181	8647
00:59	ZZZZZZ	4101	99293	19219	8666
01:05	ZZZZZZ	4169	99557	19295	8780
01:10	ZZZZZZ	3961	94736	18918	8040
01:15	ZZZZZZ	4153	99721	19282	8765
01:20	ZZZZZZ	4096	98716	19073	8608
01:25	ZZZZZZ	4082	97241	19001	8514
01:31	MA45789-CCV7	4102	97717	18901	8414
01:36	MA45789-CCB7	4241	101990	19029	9403
01:41	ZZZZZZ	4138	99138	19169	8646
01:46	ZZZZZZ	4105	98250	19091	8602
01:51	ZZZZZZ	4150	98982	18979	8710
01:56	ZZZZZZ	4123	98975	19162	8639
02:02	ZZZZZZ	4106	98592	19102	8588
02:07	ZZZZZZ	4244	102920	19224	9412
02:12	ZZZZZZ	4273	103410	19417	9474
02:17	MP11023-MB1	4261	103100	19167	9452
02:23	MP11023-B1	4154	99036	19085	8655
02:27	MA45789-CCV8	4086	96799	18764	8383
02:32	MA45789-CCB8	4218	101270	18923	9361
02:38	MP11023-S1	3930	93708	18679	7857
02:43	MP11023-S2	3950	94472	18843	7906
02:48	JC78870-1	3899	94189	18626	7988
02:53	MP11023-SD1	4088	98225	18636	8740
02:58	ZZZZZZ	4036	96679	18845	8340
03:04	ZZZZZZ	3763	90793	18611	7750
03:09	ZZZZZZ	4129	98774	19109	8711
03:14	ZZZZZZ	4028	96766	19066	8437
03:20	ZZZZZZ	3998	95651	18908	8319
03:25	ZZZZZZ	4143	97552	19071	8669
03:30	MA45789-CCV9	4087	96742	18784	8393
03:35	MA45789-CCB9	4216	101320	18774	9359

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:40	ZZZZZZ	4080	98198	19050	8593
03:45	ZZZZZZ	4097	98442	18955	8714
03:50	ZZZZZZ	4255	103290	19321	9430
03:56	ZZZZZZ	4246	102760	19194	9418
04:01	ZZZZZZ	4233	102840	18932	9391
04:06	ZZZZZZ	4231	102450	19020	9379
04:11	ZZZZZZ	4216	102480	18931	9350
04:17	ZZZZZZ	4208	101810	18920	9336
04:22	ZZZZZZ	3623	85378	17868	7074
04:27	ZZZZZZ	3558	85037	17766	7015
04:33	MA45789-CCV10	4044	96615	18546	8298
04:37	MA45789-CCB10	4187	101280	18786	9282
04:43	ZZZZZZ	4340	104130	19330	9655
04:48	ZZZZZZ	4213	101660	18787	9366
04:53	ZZZZZZ	4207	102030	18910	9289
04:59	ZZZZZZ	4200	101710	18851	9289
05:04	ZZZZZZ	4202	101520	18811	9276
05:09	ZZZZZZ	4219	101170	18806	9347
05:15	ZZZZZZ	4225	101680	18768	9330
05:20	ZZZZZZ	4262	101770	18799	9458
05:25	ZZZZZZ	4242	101700	18853	9434
05:31	ZZZZZZ	4351	96890	19295	8297
05:36	ZZZZZZ	3831	92754	18110	7919
05:41	ZZZZZZ	3844	92138	18179	7922
05:47	MA45789-CCV11	4058	96463	18614	8329
05:52	MA45789-CCB11	4185	100270	18592	9280
05:57	ZZZZZZ	3605	86078	17807	7151
06:02	ZZZZZZ	3749	89014	18113	7495
06:07	ZZZZZZ	3680	87394	17962	7278
06:13	MP10983-MB1	4235	102270	19058	9408
06:18	MP10983-B1	4142	98886	18985	8634
06:23	ZZZZZZ	4256	102730	19038	9438
06:28	ZZZZZZ	4245	102660	19082	9420

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:34	MA45789-CCV12	4053	96019	18471	8325
06:38	MA45789-CCB12	4230	101140	18694	9378
06:44	MP10983-S1	No results reported for the elements associated with this internal standard.			
06:49	MP10983-S2	No results reported for the elements associated with this internal standard.			
06:54	JC78732-7	No results reported for the elements associated with this internal standard.			
06:59	MP10983-SD1	No results reported for the elements associated with this internal standard.			
07:05	MP10983-S3	No results reported for the elements associated with this internal standard.			
07:10	MP10983-S4	No results reported for the elements associated with this internal standard.			
07:15	JC78732-7F	No results reported for the elements associated with this internal standard.			
07:21	MP10983-SD2	No results reported for the elements associated with this internal standard.			
07:26	MA45789-CCV13	4068	96725	18503	8350
07:31	MA45789-CCB13	4211	101260	18679	9330
07:36	ZZZZZZ	4220	101660	18577	9349
07:41	MP11070-MB1	4340	104890	19141	9607
07:47	MP11070-B1	4219	100560	19206	8787
07:52	JC78619-2	4244	100400	18473	9256
07:57	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:02	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:07	ZZZZZZ	3680	85904	17843	7071
08:13	ZZZZZZ	3401	88761	18256	7382
08:18	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:23	MA45789-CCV14	4054	96010	18392	8336
08:28	MA45789-CCB14	4196	100700	18599	9307
08:33	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:39	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:44	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:50	ZZZZZZ	3630	84951	17765	7000
08:55	ZZZZZZ	3356	88144	18077	7325
09:00	ZZZZZZ	No results reported for the elements associated with this internal standard.			
09:06	ZZZZZZ	No results reported for the elements associated with this internal standard.			
09:11	ZZZZZZ	4202	100130	18361	9315
09:16	MA45789-CCV15	4054	95582	18368	8335
09:22	MA45789-CCB15	4229	101360	18658	9389

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

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45789
Parameters: As,Ba,Cd,Pb,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4

LEGEND:

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time: / Sample ID:			19:34 ICB1		19:44 CCB1		20:42 CCB2		21:38 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	.2	anr							
Arsenic	3.0	.9	1.60	<3.0*(a)	2.60	<3.0	1.00	<3.0	0.800	<3.0
Barium	200	.3	0.00	<200	0.200	<200	0.00	<200	-0.100	<200
Beryllium	1.0	.1	anr							
Bismuth	20	2.6								
Boron	100	1.7								
Cadmium	3.0	.3	0.200	<3.0	1.00	<3.0	0.300	<3.0	-0.100	<3.0
Calcium	5000	3.8	anr							
Chromium	10	.4	anr							
Cobalt	50	.2	anr							
Copper	10	.6	anr							
Iron	100	3.4	anr							
Lead	3.0	1.2	0.600	<3.0	0.600	<3.0	0.600	<3.0	0.200	<3.0
Lithium	50	2.6								
Magnesium	5000	23	anr							
Manganese	15	.1	anr							
Molybdenum	20	.3								
Nickel	10	.6	anr							
Phosphorus	50	3								
Potassium	10000	58	anr							
Selenium	10	1.9	0.400	<10	0.300	<10	-0.500	<10	-1.20	<10
Silicon	200	1.5								
Silver	10	.7	-0.400	<10	-0.400	<10	-0.300	<10	0.100	<10
Sodium	10000	16	anr							
Strontium	10	.1								
Sulfur	50	2.6								
Thallium	10	.7	anr							
Tin	10	.8								
Titanium	10	.4								
Tungsten	50	1.1								
Vanadium	50	.3	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time:			19:34		19:44		20:42		21:38	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.4								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time: / Sample ID:			22:34 CCB4		23:37 CCB5		00:33 CCB6		01:36 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	.2	anr							
Arsenic	3.0	.9	0.900	<3.0	1.20	<3.0	0.300	<3.0	0.800	<3.0
Barium	200	.3	0.100	<200	-0.100	<200	0.100	<200	0.00	<200
Beryllium	1.0	.1	anr							
Bismuth	20	2.6								
Boron	100	1.7								
Cadmium	3.0	.3	0.300	<3.0	0.200	<3.0	0.500	<3.0	0.200	<3.0
Calcium	5000	3.8	anr							
Chromium	10	.4	anr							
Cobalt	50	.2	anr							
Copper	10	.6	anr							
Iron	100	3.4	anr							
Lead	3.0	1.2	0.600	<3.0	0.700	<3.0	0.100	<3.0	0.00	<3.0
Lithium	50	2.6								
Magnesium	5000	23	anr							
Manganese	15	.1	anr							
Molybdenum	20	.3								
Nickel	10	.6	anr							
Phosphorus	50	3								
Potassium	10000	58	anr							
Selenium	10	1.9	-1.70	<10	-0.100	<10	1.00	<10	-1.80	<10
Silicon	200	1.5								
Silver	10	.7	-0.200	<10	0.00	<10	-0.100	<10	0.500	<10
Sodium	10000	16	anr							
Strontium	10	.1								
Sulfur	50	2.6								
Thallium	10	.7	anr							
Tin	10	.8								
Titanium	10	.4								
Tungsten	50	1.1								
Vanadium	50	.3	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time:			22:34		23:37		00:33		01:36	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.4								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time:			02:32		03:35		04:37		05:52	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	6.0	.2	anr							
Arsenic	3.0	.9	1.00	<3.0	1.10	<3.0	1.00	<3.0	0.900	<3.0
Barium	200	.3	0.200	<200	0.00	<200	-0.100	<200	0.400	<200
Beryllium	1.0	.1	anr							
Bismuth	20	2.6								
Boron	100	1.7								
Cadmium	3.0	.3	0.300	<3.0	0.200	<3.0	0.200	<3.0	0.400	<3.0
Calcium	5000	3.8	anr							
Chromium	10	.4	anr							
Cobalt	50	.2	anr							
Copper	10	.6	anr							
Iron	100	3.4	anr							
Lead	3.0	1.2	0.00	<3.0	0.700	<3.0	0.800	<3.0	1.40	<3.0
Lithium	50	2.6								
Magnesium	5000	23	anr							
Manganese	15	.1	anr							
Molybdenum	20	.3								
Nickel	10	.6	anr							
Phosphorus	50	3								
Potassium	10000	58	anr							
Selenium	10	1.9	0.00	<10	-1.00	<10	-0.800	<10	-1.20	<10
Silicon	200	1.5								
Silver	10	.7	0.00	<10	-0.200	<10	0.00	<10	0.300	<10
Sodium	10000	16	anr							
Strontium	10	.1								
Sulfur	50	2.6								
Thallium	10	.7	anr							
Tin	10	.8								
Titanium	10	.4								
Tungsten	50	1.1								
Vanadium	50	.3	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time:			02:32		03:35		04:37		05:52	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.4								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time:			06:38		07:31		08:28	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	14	anr					
Antimony	6.0	.2	anr					
Arsenic	3.0	.9	1.20	<3.0	1.10	<3.0	1.00	<3.0
Barium	200	.3	0.400	<200	0.600	<200	0.500	<200
Beryllium	1.0	.1	anr					
Bismuth	20	2.6						
Boron	100	1.7						
Cadmium	3.0	.3	0.800	<3.0	0.800	<3.0	0.900	<3.0
Calcium	5000	3.8	anr					
Chromium	10	.4	anr					
Cobalt	50	.2	anr					
Copper	10	.6	anr					
Iron	100	3.4	anr					
Lead	3.0	1.2	0.600	<3.0	0.500	<3.0	0.900	<3.0
Lithium	50	2.6						
Magnesium	5000	23	anr					
Manganese	15	.1	anr					
Molybdenum	20	.3						
Nickel	10	.6	anr					
Phosphorus	50	3						
Potassium	10000	58	anr					
Selenium	10	1.9	-0.800	<10	-0.300	<10	0.400	<10
Silicon	200	1.5						
Silver	10	.7	0.500	<10	0.400	<10	0.600	<10
Sodium	10000	16	anr					
Strontium	10	.1						
Sulfur	50	2.6						
Thallium	10	.7	anr					
Tin	10	.8						
Titanium	10	.4						
Tungsten	50	1.1						
Vanadium	50	.3	anr					
Zinc	20	.1	anr					

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45789 Units: ug/l

Time:			06:38		07:31		08:28	
Sample ID:			CCB12		CCB13		CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zirconium	10	.4						

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		19:29			19:39			20:37	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1980	99.0	2000	2000	100.0	2000	1990	99.5
Barium	2000	2040	102.0	2000	2070	103.5	2000	2070	103.5
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2060	103.0	2000	2090	104.5	2000	2090	104.5
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2060	103.0	2000	2090	104.5	2000	2100	105.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2040	102.0	2000	2070	103.5	2000	2060	103.0
Silicon									
Silver	250	243	97.2	250	248	99.2	250	249	99.6
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		19:29			19:39			20:37	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		21:33			22:29			23:32	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2010	100.5	2000	2010	100.5	2000	2030	101.5
Barium	2000	2070	103.5	2000	2070	103.5	2000	2100	105.0
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2090	104.5	2000	2100	105.0	2000	2120	106.0
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2090	104.5	2000	2100	105.0	2000	2110	105.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2080	104.0	2000	2080	104.0	2000	2090	104.5
Silicon									
Silver	250	248	99.2	250	249	99.6	250	252	100.8
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		21:33			22:29			23:32	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		00:28			01:31			02:27	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2040	102.0	2000	2040	102.0	2000	2060	103.0
Barium	2000	2100	105.0	2000	2110	105.5	2000	2130	106.5
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2130	106.5	2000	2120	106.0	2000	2130	106.5
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2120	106.0	2000	2110	105.5	2000	2120	106.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2100	105.0	2000	2090	104.5	2000	2110	105.5
Silicon									
Silver	250	253	101.2	250	253	101.2	250	256	102.4
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		00:28			01:31			02:27	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		03:30			04:33			05:47	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2050	102.5	2000	2070	103.5	2000	2100	105.0
Barium	2000	2120	106.0	2000	2140	107.0	2000	2160	108.0
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2130	106.5	2000	2160	108.0	2000	2170	108.5
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2120	106.0	2000	2150	107.5	2000	2160	108.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2100	105.0	2000	2130	106.5	2000	2150	107.5
Silicon									
Silver	250	255	102.0	250	257	102.8	250	259	103.6
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		03:30			04:33			05:47	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		06:34			07:26			08:23	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2110	105.5	2000	2110	105.5	2000	2120	106.0
Barium	2000	2180	109.0	2000	2170	108.5	2000	2200	110.0
Beryllium	anr								
Bismuth									
Boron									
Cadmium	2000	2190	109.5	2000	2180	109.0	2000	2190	109.5
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2160	108.0	2000	2160	108.0	2000	2160	108.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2160	108.0	2000	2140	107.0	2000	2150	107.5
Silicon									
Silver	250	261	104.4	250	260	104.0	250	263	105.2
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45789 Units: ug/l

Time:		06:34			07:26			08:23	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

HIGH STANDARD CHECK SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45789 Units: ug/l

Time:		20:10			20:16	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	8000	8140	101.8			
Barium	8000	8020	100.3			
Beryllium	anr					
Bismuth						
Boron						
Cadmium	8000	7770	97.1			
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	8000	8140	101.8			
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium	8000	8110	101.4			
Silicon						
Silver	625	605	96.8			
Sodium						
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

HIGH STANDARD CHECK SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45789 Units: ug/l

Time:		20:10			20:16	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA45789 Units: ug/l

Time:				19:49		20:47	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0	anr			
Arsenic	8.0	20	3.0	9.60	120.0	2.80	93.3
Barium	200		4.0	205	102.5	4.30	107.5
Beryllium	2.0		1.0	anr			
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	3.30	110.0	1.30	130.0*(a
Calcium	5000	2000	1000	anr			
Chromium	10		2.0	anr			
Cobalt	50		3.0	anr			
Copper	10		2.0	anr			
Iron	100	500		anr			
Lead	3.0	20	2.5	2.70	90.0	0.200U	0.0* (a)
Lithium	50						
Magnesium	5000	2000	100	anr			
Manganese	15		3.0	anr			
Molybdenum	20						
Nickel	10		4.0	anr			
Phosphorus	50						
Potassium	5000		2000	anr			
Selenium	10	20	5.0	10.2	102.0	3.10	62.0*(a)
Silicon	200						
Silver	5.0		2.0	5.20	104.0	0.00U	0.0* (a)
Sodium	5000		1000	anr			
Strontium	10						
Sulfur	50						
Thallium	10		2.0	anr			
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	anr			
Zinc	20		10	anr			

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA45789 Units: ug/l

Time:				19:49		20:47	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zirconium	10						

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

10.2.6 10

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

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45789 Units: ug/l

Time:			20:00		20:05	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	517000	103.4	514000	102.8
Antimony		1000	-1.30		1080	108.0
Arsenic		1000	2.30		1100	110.0
Barium		500	0.00		515	103.0
Beryllium		500	0.400		495	99.0
Bismuth		500	16.0		546	109.2
Boron		500	-5.10		494	98.8
Cadmium		1000	-1.10		1050	105.0
Calcium	400000	400000	387000	96.8	388000	97.0
Chromium		500	0.00		494	98.8
Cobalt		500	-0.700		496	99.2
Copper		500	1.20		506	101.2
Iron	200000	200000	198000	99.0	197000	98.5
Lead		1000	-0.900		986	98.6
Lithium		500	-12.6		518	103.6
Magnesium	500000	500000	505000	101.0	500000	100.0
Manganese		500	0.900		499	99.8
Molybdenum		500	-1.50		487	97.4
Nickel		1000	-2.10		998	99.8
Phosphorus		500	3.10		520	104.0
Potassium			-389		-413	
Selenium		1000	4.60		1060	106.0
Silicon		500	-12.5		488	97.6
Silver		1000	2.10		1030	103.0
Sodium			28.2		39.5	
Strontium		500	-1.50		548	109.6
Sulfur		500	13.5		514	102.8
Thallium		1000	0.100		1010	101.0
Tin		500	0.700		478	95.6
Titanium		500	-0.800		489	97.8
Tungsten		500	11.0		493	98.6
Vanadium		500	1.60		498	99.6
Zinc		1000	4.80		973	97.3

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

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SE120518M1.ICP Date Analyzed: 12/05/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45789 Units: ug/l

Time:			20:00		20:05	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zirconium		500	-3.00		515	103.0

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

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:39	MA45795-STD1	1		STDA
10:45	MA45795-STD2	1		STDB
10:50	ZZZZZZ	1		
10:55	ZZZZZZ	1		
11:01	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:18	MA45795-ICV1	1		
11:23	MA45795-ICB1	1		
11:30	MA45795-ICCV1	1		
11:38	MA45795-CCB1	1		
11:43	ZZZZZZ	1		
11:48	MA45795-CRI1	1		
11:54	MA45795-ICSA1	1		
11:59	MA45795-ICSAB1	1		
12:04	MA45795-HSTD1	1		
12:10	MA45795-HSTD2	1		
12:15	ZZZZZZ	1		
12:21	ZZZZZZ	1		
12:26	MA45795-CRID1	1		
12:32	ZZZZZZ	1		
12:37	MA45795-CCV1	1		
12:43	MA45795-CCB2	1		
12:48	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:21	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:38	MA45795-CCV2	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:43	MA45795-CCB3	1		
13:49	ZZZZZZ	5		
13:54	MP11033-S1	10		
14:00	MP11033-S2	10		
14:05	JC78233-2	10		(sample used for QC only; not part of login JC78619A)
14:10	MP11033-SD1	50		
14:16	ZZZZZZ	1		
14:21	MP11016-S1	5		
14:27	MP11016-S2	5		
14:32	ZZZZZZ	5		
14:37	MA45795-CCV3	1		
14:42	MA45795-CCB4	1		
14:48	ZZZZZZ	5		
14:53	ZZZZZZ	5		
14:59	ZZZZZZ	2		
15:04	ZZZZZZ	2		
15:09	ZZZZZZ	10		
15:15	ZZZZZZ	2		
15:20	ZZZZZZ	10		
15:25	ZZZZZZ	20		
15:31	ZZZZZZ	50		
15:36	MA45795-CCV4	1		
15:42	MA45795-CCB5	1		
15:47	ZZZZZZ	2		
15:52	ZZZZZZ	5		
15:58	ZZZZZZ	5		
16:03	ZZZZZZ	50		
16:09	ZZZZZZ	5		
16:14	ZZZZZZ	25		
16:20	ZZZZZZ	50		
16:25	ZZZZZZ	10		
16:31	ZZZZZZ	1		
16:36	MA45795-CCV5	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:41	MA45795-CCB6	1		
16:47	MA45795-ICSA2	1		
16:52	MA45795-ICSAB2	1		
16:57	ZZZZZZ	10		
17:03	MP11031-MB1	5		
17:08	MP11031-B1	5		
17:13	MP11031-S1	1		
17:18	MP11031-S2	1		
17:24	JC78841-1	1		(sample used for QC only; not part of login JC78619A)
17:29	MP11031-SD1	5		
17:35	ZZZZZZ	1		
17:40	MA45795-CCV6	1		
17:45	MA45795-CCB7	1		
17:51	ZZZZZZ	1		
17:56	ZZZZZZ	1		
18:02	ZZZZZZ	1		
18:07	ZZZZZZ	1		
18:13	ZZZZZZ	1		
18:19	ZZZZZZ	1		
18:24	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:41	ZZZZZZ	1		
18:47	ZZZZZZ	1		
18:52	ZZZZZZ	1		
18:58	MA45795-CCV7	1		
19:03	MA45795-CCB8	1		
19:08	MP11033-MB2	5		
19:14	MP11033-B2	5		
19:19	ZZZZZZ	5		
19:25	ZZZZZZ	5		
19:30	ZZZZZZ	5		
19:36	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:41	MP11032-MB2	5		
19:47	MP11032-B2	5		
19:52	ZZZZZZ	5		
19:57	ZZZZZZ	5		
20:03	MA45795-CCV8	1		
20:08	MA45795-CCB9	1		
20:14	MP11050-MB1	1		
20:19	MP11050-B1	1		
20:24	MP11050-S1	1		
20:29	MP11050-S2	1		
20:35	JC78837-1A	1		(sample used for QC only; not part of login JC78619A)
20:40	MP11050-SD1	5		
20:45	ZZZZZZ	1		
20:51	ZZZZZZ	1		
20:56	ZZZZZZ	1		
21:02	ZZZZZZ	1		
21:07	MA45795-CCV9	1		
21:13	MA45795-CCB10	1		
21:18	ZZZZZZ	1		
21:23	ZZZZZZ	1		
21:29	ZZZZZZ	5		
21:34	ZZZZZZ	10		
21:40	ZZZZZZ	5		
21:45	ZZZZZZ	2		
21:51	ZZZZZZ	1		
21:56	ZZZZZZ	1		
22:01	MP11064-S1	5		
22:06	MP11064-S2	5		
22:12	MA45795-CCV10	1		
22:17	MA45795-CCB11	1		
22:22	JC79015-1	5		(sample used for QC only; not part of login JC78619A)
22:28	MP11064-SD1	25		
22:33	MP11070-MB1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:39	MP11070-B1	1		
22:44	MP11070-S1	1		PS??? Pb overrange
22:49	MP11070-S2	1		PS??? Pb overrange
22:54	JC78941-1	1		(sample used for QC only; not part of login JC78619A)
23:00	MP11070-SD1	5		Pb overrange
23:05	JC78619-2	1		
---------->	Last reportable sample/prep for job JC78619A			
23:10	ZZZZZZ	1		
23:16	MA45795-CCV11	1		
23:21	MA45795-CCB12	1		
---------->	Last reportable CCB for job JC78619A			
23:27	ZZZZZZ	1		
23:32	ZZZZZZ	1		
23:38	ZZZZZZ	1		
23:43	ZZZZZZ	1		
23:48	ZZZZZZ	1		
23:54	ZZZZZZ	1		
23:59	ZZZZZZ	1		
00:04	ZZZZZZ	1		
00:09	ZZZZZZ	1		
00:15	ZZZZZZ	1		
00:20	MA45795-CCV12	1		
00:25	MA45795-CCB13	1		
00:31	ZZZZZZ	1		
00:36	MP11068-MB1	1		
00:42	MP11068-MB2	1		
00:47	MP11068-B1	1		
00:53	MP11068-B3	1		
00:58	MP11068-S1	1		High elements
01:03	MP11068-S2	1		High elements
01:09	JC78789-3	1		(sample used for QC only; not part of login JC78619A)
01:14	MP11068-SD1	5		High elements
01:20	ZZZZZZ	1		
01:25	MA45795-CCV13	1		
01:30	MA45795-CCB14	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:36	ZZZZZZ	1		
01:42	ZZZZZZ	1		
01:47	ZZZZZZ	1		
01:52	ZZZZZZ	1		
01:58	ZZZZZZ	1		
02:03	ZZZZZZ	1		
02:09	ZZZZZZ	1		
02:14	ZZZZZZ	1		
02:20	ZZZZZZ	1		
02:25	ZZZZZZ	1		
02:30	MA45795-CCV14	1		
02:36	MA45795-CCB15	1		
02:41	ZZZZZZ	1		
02:47	ZZZZZZ	1		
02:52	ZZZZZZ	1		
02:57	ZZZZZZ	1		
03:03	ZZZZZZ	1		
03:08	ZZZZZZ	1		
03:14	MP11080-MB1	1		CCV out. Batch to reanalysis for As, MB high
03:19	MP11080-B1	1		
03:25	MP11080-S1	1		
03:30	MP11080-S2	1		
03:35	MA45795-CCV15	1		
03:41	MA45795-CCB16	1		
03:46	JC79023-1	1		(sample used for QC only; not part of login JC78619A)
03:52	MP11080-SD1	5		Fe issue
03:57	ZZZZZZ	1		
04:03	ZZZZZZ	1		
04:08	ZZZZZZ	1		
04:14	ZZZZZZ	1		
04:19	ZZZZZZ	1		
04:25	ZZZZZZ	1		
04:30	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:35	ZZZZZZ	1		
04:41	MA45795-CCV16	1		
04:46	MA45795-CCB17	1		
04:51	ZZZZZZ	1		
04:57	MP11079-MB1	1		
05:03	MP11079-B1	1		Li out
05:08	MP11079-S1	1		
05:13	MP11079-S2	1		
05:18	FA59676-1	1		(sample used for QC only; not part of login JC78619A)
05:24	MP11079-SD1	5		
05:29	ZZZZZZ	1		
05:34	ZZZZZZ	1		
05:40	ZZZZZZ	1		
05:45	MA45795-CCV17	1		Y3710 elements out
05:50	MA45795-CCB18	1		
05:56	ZZZZZZ	1		
06:01	ZZZZZZ	1		
06:07	ZZZZZZ	1		
06:12	ZZZZZZ	1		
06:18	ZZZZZZ	1		
06:23	ZZZZZZ	1		
06:28	ZZZZZZ	1		
06:34	ZZZZZZ	1		
06:39	ZZZZZZ	1		
06:45	ZZZZZZ	1		
06:50	MA45795-CCV18	1		
06:55	MA45795-CCB19	1		
07:01	MP11083-MB1	1		CCV out, rerun the batch.
07:07	MP11083-B1	1		K out
07:12	ZZZZZZ	1		
07:17	ZZZZZZ	1		
07:23	MP11078-MB1	1		
07:29	MP11078-B1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
07:34	ZZZZZZ	1		
07:39	ZZZZZZ	1		
07:44	ZZZZZZ	1		
07:50	MA45795-CCV19	1		
07:55	MA45795-CCB20	1		
08:00	ZZZZZZ	1		
08:06	ZZZZZZ	1		
08:11	ZZZZZZ	1		
08:17	ZZZZZZ	5		
08:22	ZZZZZZ	5		
08:27	ZZZZZZ	5		
08:33	ZZZZZZ	1		
08:38	ZZZZZZ	5		
08:45	ZZZZZZ	10		
08:51	MA45795-CCV20	1		
08:56	MA45795-CCB21	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution	Element: As	Ba	Cd	Cr	Se	Ag
10:50	ZZZZZZ	1						
10:55	ZZZZZZ	1						
11:01	ZZZZZZ	1						
11:06	ZZZZZZ	1						
11:12	ZZZZZZ	1						
11:18	MA45795-ICV1	1	X	X	X	X	X	X
11:23	MA45795-ICB1	1	X	X	X	X	X	X
11:30	MA45795-ICCV1	1	X	X	X	X	X	X
11:38	MA45795-CCB1	1	X	X	X	X	X	X
11:43	ZZZZZZ	1						
11:48	MA45795-CRI1	1	X	X	X	X	X	X
11:54	MA45795-ICSA1	1	X	X	X	X	X	X
11:59	MA45795-ICSAB1	1	X	X	X	X	X	X
12:04	MA45795-HSTD1	1	X	X	X	X	X	X
12:10	MA45795-HSTD2	1						
12:15	ZZZZZZ	1						
12:21	ZZZZZZ	1						
12:26	MA45795-CRID1	1	X	X	X	X	X	X
12:32	ZZZZZZ	1						
12:37	MA45795-CCV1	1	X	X	X	X	X	X
12:43	MA45795-CCB2	1	X	X	X	X	X	X
12:48	ZZZZZZ	1						
12:54	ZZZZZZ	1						
12:59	ZZZZZZ	1						
13:05	ZZZZZZ	1						
13:10	ZZZZZZ	1						
13:16	ZZZZZZ	1						
13:21	ZZZZZZ	1						
13:27	ZZZZZZ	1						
13:32	ZZZZZZ	1						
13:38	MA45795-CCV2	1	X	X	X	X	X	X
13:43	MA45795-CCB3	1	X	X	X	X	X	X
13:49	ZZZZZZ	5						
		Element:	As	Ba	Cd	Cr	Se	Ag

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution	Element: As	Ba	Cd	Cr	Se	Ag	
13:54	MP11033-S1	10							
14:00	MP11033-S2	10							
14:05	JC78233-2	10							(a)
14:10	MP11033-SD1	50							
14:16	ZZZZZZ	1							
14:21	MP11016-S1	5							
14:27	MP11016-S2	5							
14:32	ZZZZZZ	5							
14:37	MA45795-CCV3	1	X	X	X	X	X	X	
14:42	MA45795-CCB4	1	X	X	X	X	X	X	
14:48	ZZZZZZ	5							
14:53	ZZZZZZ	5							
14:59	ZZZZZZ	2							
15:04	ZZZZZZ	2							
15:09	ZZZZZZ	10							
15:15	ZZZZZZ	2							
15:20	ZZZZZZ	10							
15:25	ZZZZZZ	20							
15:31	ZZZZZZ	50							
15:36	MA45795-CCV4	1	X	X	X	X	X	X	
15:42	MA45795-CCB5	1	X	X	X	X	X	X	
15:47	ZZZZZZ	2							
15:52	ZZZZZZ	5							
15:58	ZZZZZZ	5							
16:03	ZZZZZZ	50							
16:09	ZZZZZZ	5							
16:14	ZZZZZZ	25							
16:20	ZZZZZZ	50							
16:25	ZZZZZZ	10							
16:31	ZZZZZZ	1							
16:36	MA45795-CCV5	1	X	X	X	X	X	X	
16:41	MA45795-CCB6	1	X	X	X	X	X	X	
16:47	MA45795-ICSA2	1	X	X	X	X	X	X	
		Element:	As	Ba	Cd	Cr	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Se	Ag	
16:52	MA45795-ICSAB2	1	X	X	X	X	X	X	
16:57	ZZZZZZ	10							
17:03	MP11031-MB1	5	X	X	X	X	X	X	
17:08	MP11031-B1	5	X	X	X	X	X	X	
17:13	MP11031-S1	1	X	X	X	X	X	X	
17:18	MP11031-S2	1	X	X	X	X	X	X	
17:24	JC78841-1	1	X	X	X	X	X	X	(a)
17:29	MP11031-SD1	5	X	X	X	X	X	X	
17:35	ZZZZZZ	1							
17:40	MA45795-CCV6	1	X	X	X	X	X	X	
17:45	MA45795-CCB7	1	X	X	X	X	X	X	
17:51	ZZZZZZ	1							
17:56	ZZZZZZ	1							
18:02	ZZZZZZ	1							
18:07	ZZZZZZ	1							
18:13	ZZZZZZ	1							
18:19	ZZZZZZ	1							
18:24	ZZZZZZ	1							
18:30	ZZZZZZ	1							
18:35	ZZZZZZ	1							
18:41	ZZZZZZ	1							
18:47	ZZZZZZ	1							
18:52	ZZZZZZ	1							
18:58	MA45795-CCV7	1	X	X	X	X	X	X	
19:03	MA45795-CCB8	1	X	X	X	X	X	X	
19:08	MP11033-MB2	5	X	X	X	X	X	X	
19:14	MP11033-B2	5	X	X	X	X	X	X	
19:19	ZZZZZZ	5							
19:25	ZZZZZZ	5							
19:30	ZZZZZZ	5							
19:36	ZZZZZZ	5							
19:41	MP11032-MB2	5	X	X	X	X	X	X	
19:47	MP11032-B2	5	X	X	X	X	X	X	
		Element:	As	Ba	Cd	Cr	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Se	Ag	
19:52	ZZZZZZ	5							
19:57	ZZZZZZ	5							
20:03	MA45795-CCV8	1	X	X	X	X	X	X	
20:08	MA45795-CCB9	1	X	X	X	X	X	X	
20:14	MP11050-MB1	1	X	X	X	X	X	X	
20:19	MP11050-B1	1	X	X	X	X	X	X	
20:24	MP11050-S1	1	X	X	X	X	X	X	
20:29	MP11050-S2	1	X	X	X	X	X	X	
20:35	JC78837-1A	1							(a)
20:40	MP11050-SD1	5	X	X	X	X	X	X	
20:45	ZZZZZZ	1							
20:51	ZZZZZZ	1							
20:56	ZZZZZZ	1							
21:02	ZZZZZZ	1							
21:07	MA45795-CCV9	1	X	X	X	X	X	X	
21:13	MA45795-CCB10	1	X	X	X	X	X	X	
21:18	ZZZZZZ	1							
21:23	ZZZZZZ	1							
21:29	ZZZZZZ	5							
21:34	ZZZZZZ	10							
21:40	ZZZZZZ	5							
21:45	ZZZZZZ	2							
21:51	ZZZZZZ	1							
21:56	ZZZZZZ	1							
22:01	MP11064-S1	5							
22:06	MP11064-S2	5							
22:12	MA45795-CCV10	1	X	X	X	X	X	X	
22:17	MA45795-CCB11	1	X	X	X	X	X	X	
22:22	JC79015-1	5							(a)
22:28	MP11064-SD1	25							
22:33	MP11070-MB1	1				X			
22:39	MP11070-B1	1				X			
22:44	MP11070-S1	1	X	X	X	X	X	X	
		Element:	As	Ba	Cd	Cr	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Se	Ag	
22:49	MP11070-S2	1	X	X	X	X	X	X	
22:54	JC78941-1	1							(a)
23:00	MP11070-SD1	5	X	X	X	X	X	X	
23:05	JC78619-2	1				X			
23:10	ZZZZZZ	1							
23:16	MA45795-CCV11	1	X	X	X	X	X	X	
23:21	MA45795-CCB12	1	X	X	X	X	X	X	
23:27	ZZZZZZ	1							
23:32	ZZZZZZ	1							
23:38	ZZZZZZ	1							
23:43	ZZZZZZ	1							
23:48	ZZZZZZ	1							
23:54	ZZZZZZ	1							
23:59	ZZZZZZ	1							
00:04	ZZZZZZ	1							
00:09	ZZZZZZ	1							
00:15	ZZZZZZ	1							
00:20	MA45795-CCV12	1	X	X	X	X	X	X	
00:25	MA45795-CCB13	1	X	X	X	X	X	X	
00:31	ZZZZZZ	1							
00:36	MP11068-MB1	1		X	X	X	X	X	
00:42	MP11068-MB2	1		X	X	X	X	X	
00:47	MP11068-B1	1		X	X	X	X	X	
00:53	MP11068-B3	1		X	X	X	X	X	
00:58	MP11068-S1	1		X	X	X		X	
01:03	MP11068-S2	1		X	X	X		X	
01:09	JC78789-3	1		X	X	X		X	(a)
01:14	MP11068-SD1	5		X	X	X		X	
01:20	ZZZZZZ	1							
01:25	MA45795-CCV13	1	X	X	X	X	X	X	
01:30	MA45795-CCB14	1	X	X	X	X	X	X	
01:36	ZZZZZZ	1							
01:42	ZZZZZZ	1							
		Element:	As	Ba	Cd	Cr	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Element: Dilution	As	Ba	Cd	Cr	Se	Ag	
01:47	ZZZZZZ	1							
01:52	ZZZZZZ	1							
01:58	ZZZZZZ	1							
02:03	ZZZZZZ	1							
02:09	ZZZZZZ	1							
02:14	ZZZZZZ	1							
02:20	ZZZZZZ	1							
02:25	ZZZZZZ	1							
02:30	MA45795-CCV14	1	X	X	X	X	X	X	
02:36	MA45795-CCB15	1	X	X	X	X	X	X	
02:41	ZZZZZZ	1							
02:47	ZZZZZZ	1							
02:52	ZZZZZZ	1							
02:57	ZZZZZZ	1							
03:03	ZZZZZZ	1							
03:08	ZZZZZZ	1							
03:14	MP11080-MB1	1			X	X	X	X	
03:19	MP11080-B1	1			X	X	X	X	
03:25	MP11080-S1	1			X	X		X	
03:30	MP11080-S2	1			X	X		X	
03:35	MA45795-CCV15	1	X	X	X	X	X	X	
03:41	MA45795-CCB16	1	X	X	X	X	X	X	
03:46	JC79023-1	1				X			(a)
03:52	MP11080-SD1	5			X	X		X	
03:57	ZZZZZZ	1							
04:03	ZZZZZZ	1							
04:08	ZZZZZZ	1							
04:14	ZZZZZZ	1							
04:19	ZZZZZZ	1							
04:25	ZZZZZZ	1							
04:30	ZZZZZZ	1							
04:35	ZZZZZZ	1							
04:41	MA45795-CCV16	1	X	X	X	X	X	X	
		Element:	As	Ba	Cd	Cr	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
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Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Dilution	Element: As	Ba	Cd	Cr	Se	Ag	
04:46	MA45795-CCB17	1	X	X	X	X	X	X	
04:51	ZZZZZZ	1							
04:57	MP11079-MB1	1	X						
05:03	MP11079-B1	1	X						
05:08	MP11079-S1	1	X						
05:13	MP11079-S2	1	X						
05:18	FA59676-1	1							(a)
05:24	MP11079-SD1	5	X						
05:29	ZZZZZZ	1							
05:34	ZZZZZZ	1							
05:40	ZZZZZZ	1							
05:45	MA45795-CCV17	1	X	X	X	X	X	X	
05:50	MA45795-CCB18	1	X	X	X	X	X	X	
05:56	ZZZZZZ	1							
06:01	ZZZZZZ	1							
06:07	ZZZZZZ	1							
06:12	ZZZZZZ	1							
06:18	ZZZZZZ	1							
06:23	ZZZZZZ	1							
06:28	ZZZZZZ	1							
06:34	ZZZZZZ	1							
06:39	ZZZZZZ	1							
06:45	ZZZZZZ	1							
06:50	MA45795-CCV18	1	X	X	X	X	X	X	
06:55	MA45795-CCB19	1	X	X	X	X	X	X	
07:01	MP11083-MB1	1	X	X	X	X	X	X	
07:07	MP11083-B1	1	X	X	X	X	X	X	
07:12	ZZZZZZ	1							
07:17	ZZZZZZ	1							
07:23	MP11078-MB1	1	X	X	X	X	X	X	
07:29	MP11078-B1	1	X	X	X	X	X	X	
07:34	ZZZZZZ	1							
07:39	ZZZZZZ	1							
		Element:	As	Ba	Cd	Cr	Se	Ag	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Element: Dilution	A s	B a	C d	C r	S e	A g
07:44	ZZZZZZ	1						
07:50	MA45795-CCV19	1	X	X	X	X	X	X
07:55	MA45795-CCB20	1	X	X	X	X	X	X
08:00	ZZZZZZ	1						
08:06	ZZZZZZ	1						
08:11	ZZZZZZ	1						
08:17	ZZZZZZ	5						
08:22	ZZZZZZ	5						
08:27	ZZZZZZ	5						
08:33	ZZZZZZ	1						
08:38	ZZZZZZ	5						
08:45	ZZZZZZ	10						
08:51	MA45795-CCV20	1	X	X	X	X	X	X
08:56	MA45795-CCB21	1	X	X	X	X	X	X

(a) Sample used for QC only; not part of login JC78619A.

Element:	A s	B a	C d	C r	S e	A g

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:39	MA45795-STD1	4171 R	109140 R	4568 R	9642 R
10:45	MA45795-STD2	4090	103870	4446	9611
10:50	ZZZZZZ	4327	106770	4422	10117
10:55	ZZZZZZ	4229	108770	4646	9769
11:01	ZZZZZZ	4325	111060	4650	10061
11:06	ZZZZZZ	4305	108480	4496	10050
11:12	ZZZZZZ	20867 !	425150 !	15098 !	44221 !
11:18	MA45795-ICV1	4271	104290	4306	10021
11:23	MA45795-ICB1	4147	107890	4541	9576
11:30	MA45795-ICCV1	4287	104520	4315	10022
11:38	MA45795-CCB1	4123	107930	4590	9523
11:43	ZZZZZZ	999999 !	107780	4378	999999 !
11:48	MA45795-CRI1	4288	107300	4371	9985
11:54	MA45795-ICSA1	3726	96692	4099	8867
11:59	MA45795-ICSAB1	3758	97041	4100	8942
12:04	MA45795-HSTD1	4056	106400	4490	9678
12:10	MA45795-HSTD2	3802	97475	4106	8913
12:15	ZZZZZZ	4123	106460	4316	9798
12:21	ZZZZZZ	4242	107720	4421	10093
12:26	MA45795-CRID1	4133	107560	4468	9591
12:32	ZZZZZZ	4141	107490	4430	9606
12:37	MA45795-CCV1	4308	104220	4401	10068
12:43	MA45795-CCB2	4293	107440	4489	9888
12:48	ZZZZZZ	20789 !	427360 !	15144 !	43959 !
12:54	ZZZZZZ	20614 !	425110 !	15286 !	43535 !
12:59	ZZZZZZ	4160	109010	4534	9642
13:05	ZZZZZZ	4144	108560	4377	9624
13:10	ZZZZZZ	4111	105340	4334	9589
13:16	ZZZZZZ	3983	98477	4380	9106
13:21	ZZZZZZ	4112	98877	4326	9380
13:27	ZZZZZZ	4106	98049	4281	9383
13:32	ZZZZZZ	3910	98670	4404	8944
13:38	MA45795-CCV2	4234	103690	4356	9925

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:43	MA45795-CCB3	4263	107590	4469	9919
13:49	ZZZZZZ	4050	101870	4476	9288
13:54	MP11033-S1	4119	105030	4341	9413
14:00	MP11033-S2	4107	105510	4376	9371
14:05	JC78233-2	4083	105130	4392	9304
14:10	MP11033-SD1	4051	107350	4334	9349
14:16	ZZZZZZ	4027	107640	4290	9338
14:21	MP11016-S1	4003	106580	4227	9339
14:27	MP11016-S2	4053	106080	4228	9453
14:32	ZZZZZZ	3996	107620	4292	9363
14:37	MA45795-CCV3	4238	103850	4243	9959
14:42	MA45795-CCB4	4363	107480	4419	10238
14:48	ZZZZZZ	4479	107500	4302	10529
14:53	ZZZZZZ	4085	107800	4363	9530
14:59	ZZZZZZ	3963	105900	4221	9228
15:04	ZZZZZZ	3979	105190	4312	9238
15:09	ZZZZZZ	4034	106500	4257	9378
15:15	ZZZZZZ	4303	103300	4255	10158
15:20	ZZZZZZ	4057	107110	4418	9499
15:25	ZZZZZZ	3993	106830	4175	9321
15:31	ZZZZZZ	4087	107740	4291	9524
15:36	MA45795-CCV4	3903	104690	4212	9125
15:42	MA45795-CCB5	4091	107290	4279	9461
15:47	ZZZZZZ	3980	104370	4188	9269
15:52	ZZZZZZ	4380	106950	4313	10332
15:58	ZZZZZZ	4091	106570	4343	9530
16:03	ZZZZZZ	4309	106560	4300	10046
16:09	ZZZZZZ	4136	106810	4264	9636
16:14	ZZZZZZ	4047	107330	4157	9397
16:20	ZZZZZZ	4065	107740	4147	9438
16:25	ZZZZZZ	No results reported for the elements associated with this internal standard.			
16:31	ZZZZZZ	4040	106890	4149	9366
16:36	MA45795-CCV5	3976	104060	4213	9299

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:41	MA45795-CCB6	4077	107640	4244	9411
16:47	MA45795-ICSA2	3763	96620	3847	8935
16:52	MA45795-ICSAB2	3723	96931	3959	8857
16:57	ZZZZZZ	4153	103450	4246	9558
17:03	MP11031-MB1	4060	107350	4266	9372
17:08	MP11031-B1	4369	106700	4092	10252
17:13	MP11031-S1	3912	104740	4191	9185
17:18	MP11031-S2	4146	103780	4115	9766
17:24	JC78841-1	4269	107760	4221	10059
17:29	MP11031-SD1	4198	107640	4279	9790
17:35	ZZZZZZ	4110	107800	4180	9614
17:40	MA45795-CCV6	4180	104780	4156	9858
17:45	MA45795-CCB7	4043	108290	4337	9380
17:51	ZZZZZZ	4107	107760	4274	9527
17:56	ZZZZZZ	4174	107630	4247	9733
18:02	ZZZZZZ	4040	107600	4251	9340
18:07	ZZZZZZ	4205	107600	4320	9809
18:13	ZZZZZZ	4084	108110	4353	9465
18:19	ZZZZZZ	4218	116530	4177	9799
18:24	ZZZZZZ	4076	108080	4236	9436
18:30	ZZZZZZ	4099	107800	4266	9484
18:35	ZZZZZZ	4115	107580	4116	9548
18:41	ZZZZZZ	4120	107440	4191	9587
18:47	ZZZZZZ	3957	102920	3731	9295
18:52	ZZZZZZ	3887	100040	4014	8973
18:58	MA45795-CCV7	4307	103910	4148	10063
19:03	MA45795-CCB8	4236	108140	4316	9830
19:08	MP11033-MB2	4020	102130	4266	9168
19:14	MP11033-B2	3985	102180	4083	9134
19:19	ZZZZZZ	3868	100480	4127	8857
19:25	ZZZZZZ	4258	100940	4164	9798
19:30	ZZZZZZ	4318	102290	4292	9915
19:36	ZZZZZZ	3934	101750	4213	9013

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:41	MP11032-MB2	4060	108020	4110	9390
19:47	MP11032-B2	4162	106510	4130	9703
19:52	ZZZZZZ	4049	107630	4055	9362
19:57	ZZZZZZ	4377	106480	4121	10255
20:03	MA45795-CCV8	4280	104390	4250	10017
20:08	MA45795-CCB9	4084	109210	4321	9450
20:14	MP11050-MB1	4005	108090	4024	9308
20:19	MP11050-B1	4221	105320	4060	9920
20:24	MP11050-S1	4160	105310	4164	9746
20:29	MP11050-S2	4306	104390	4182	10103
20:35	JC78837-1A	3973	106440	4181	9211
20:40	MP11050-SD1	4447	107100	4139	10419
20:45	ZZZZZZ	3965	106400	4032	9167
20:51	ZZZZZZ	4043	105500	4062	9342
20:56	ZZZZZZ	4167	107690	4183	9672
21:02	ZZZZZZ	4165	110410	4246	9614
21:07	MA45795-CCV9	4033	104040	4068	9407
21:13	MA45795-CCB10	4093	107880	4194	9453
21:18	ZZZZZZ	4117	107020	4207	9604
21:23	ZZZZZZ	4147	109330	4311	9588
21:29	ZZZZZZ	4005	107140	4111	9258
21:34	ZZZZZZ	4041	104290	4015	9293
21:40	ZZZZZZ	4347	103160	4121	10030
21:45	ZZZZZZ	4230	101530	4199	9719
21:51	ZZZZZZ	4162	109350	4252	9613
21:56	ZZZZZZ	4029	106280	4137	9412
22:01	MP11064-S1	4181	106070	4078	9707
22:06	MP11064-S2	4174	106530	4170	9663
22:12	MA45795-CCV10	4290	105260	4109	10007
22:17	MA45795-CCB11	4114	107300	4297	9504
22:22	JC79015-1	4471	107180	4121	10426
22:28	MP11064-SD1	4212	106720	4217	9746
22:33	MP11070-MB1	4436	107960	4105	10412

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:39	MP11070-B1	4343	106150	4076	10180
22:44	MP11070-S1	4089	105980	4093	9564
22:49	MP11070-S2	4279	107180	4132	9997
22:54	JC78941-1	4011	109330	4191	9400
23:00	MP11070-SD1	4464	109030	4081	10453
23:05	JC78619-2	4414	106640	4090	10371
23:10	ZZZZZZ	3774	99230	4060	8530
23:16	MA45795-CCV11	4299	105320	4038	10048
23:21	MA45795-CCB12	4116	107250	4202	9494
23:27	ZZZZZZ	3761	97918	3980	8530
23:32	ZZZZZZ	3646	96181	3931	8241
23:38	ZZZZZZ	4141	108900	4152	9577
23:43	ZZZZZZ	4554	109080	4173	10474
23:48	ZZZZZZ	4127	107820	4184	9819
23:54	ZZZZZZ	4332	105070	3935	10511
23:59	ZZZZZZ	4389	109940	4229	9987
00:04	ZZZZZZ	4235	110610	4221	9501
00:09	ZZZZZZ	4614	111010	4204	10413
00:15	ZZZZZZ	4076	110040	4245	9318
00:20	MA45795-CCV12	4297	104020	3944	10017
00:25	MA45795-CCB13	4514	109040	4153	10604
00:31	ZZZZZZ	4553	110240	4344	10741
00:36	MP11068-MB1	3976	108610	4115	9177
00:42	MP11068-MB2	4067	106970	4016	9404
00:47	MP11068-B1	4317	104680	3961	10148
00:53	MP11068-B3	3991	105500	4039	9339
00:58	MP11068-S1	3895	93979	3960	8915
01:03	MP11068-S2	3602	94444	3987	8282
01:09	JC78789-3	3651	93599	3816	8349
01:14	MP11068-SD1	4246	101550	3955	9804
01:20	ZZZZZZ	4064	108110	4029	9416
01:25	MA45795-CCV13	3952	104260	3867	9264
01:30	MA45795-CCB14	4148	108170	3949	9586

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:36	ZZZZZZ	3762	98490	3988	8783
01:42	ZZZZZZ	4120	96941	3948	9444
01:47	ZZZZZZ	4300	105580	4249	10098
01:52	ZZZZZZ	4069	106580	4158	9503
01:58	ZZZZZZ	4014	106620	4122	9334
02:03	ZZZZZZ	3978	101610	4056	8955
02:09	ZZZZZZ	4134	107110	4080	9675
02:14	ZZZZZZ	3954	105630	4050	9212
02:20	ZZZZZZ	4146	107760	3893	9699
02:25	ZZZZZZ	4010	106920	4049	9324
02:30	MA45795-CCV14	3964	103730	3851	9291
02:36	MA45795-CCB15	4196	108930	3892	9763
02:41	ZZZZZZ	3952	103540	3844	9214
02:47	ZZZZZZ	4135	104360	3873	9629
02:52	ZZZZZZ	4068	107330	4089	9543
02:57	ZZZZZZ	4030	106950	4059	9367
03:03	ZZZZZZ	4153	104920	3817	9475
03:08	ZZZZZZ	4161	101320	3791	9716
03:14	MP11080-MB1	4224	110590	4008	9845
03:19	MP11080-B1	4102	106780	3945	9644
03:25	MP11080-S1	3711	94992	3856	8474
03:30	MP11080-S2	3769	95175	3893	8581
03:35	MA45795-CCV15	4307	104100	3795	10152
03:41	MA45795-CCB16	4222	108390	3974	9834
03:46	JC79023-1	3988	94731	3806	9015
03:52	MP11080-SD1	4197	102170	3896	9696
03:57	ZZZZZZ	3941	103310	3830	9145
04:03	ZZZZZZ	4063	107400	3668	9484
04:08	ZZZZZZ	4092	106320	3717	9580
04:14	ZZZZZZ	4249	102080	3729	9840
04:19	ZZZZZZ	3996	105600	3842	9291
04:25	ZZZZZZ	4326	106940	3979	10241
04:30	ZZZZZZ	4453	108290	3848	10545

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:35	ZZZZZZ	4257	106380	3928	10001
04:41	MA45795-CCV16	4306	104660	3673	10136
04:46	MA45795-CCB17	4123	108660	3804	9558
04:51	ZZZZZZ	4039	101590	3749	9308
04:57	MP11079-MB1	4055	107770	3702	9410
05:03	MP11079-B1	4344	106270	3659	10222
05:08	MP11079-S1	4282	105520	3687	10086
05:13	MP11079-S2	4152	104200	3728	9758
05:18	FA59676-1	4032	117410	3723	9437
05:24	MP11079-SD1	4154	107140	3730	9679
05:29	ZZZZZZ	3818	102870	3820	8873
05:34	ZZZZZZ	4438	108590	3686	10511
05:40	ZZZZZZ	3841	101780	3656	8944
05:45	MA45795-CCV17	4407	104910	3666	10371
05:50	MA45795-CCB18	4131	108520	3800	9596
05:56	ZZZZZZ	3978	104010	3624	9286
06:01	ZZZZZZ	3929	101870	3654	9219
06:07	ZZZZZZ	3937	102320	3667	9199
06:12	ZZZZZZ	4037	104710	3660	9505
06:18	ZZZZZZ	3976	105520	3672	9337
06:23	ZZZZZZ	4037	107420	3644	9475
06:28	ZZZZZZ	4166	106200	3600	9827
06:34	ZZZZZZ	4240	120260	3660	10028
06:39	ZZZZZZ	4439	108370	3654	10591
06:45	ZZZZZZ	4320	105770	3710	10606
06:50	MA45795-CCV18	4326	105390	3759	10229
06:55	MA45795-CCB19	4149	109010	3827	9701
07:01	MP11083-MB1	4199	108420	3666	9890
07:07	MP11083-B1	4218	106010	3582	10001
07:12	ZZZZZZ	4090	108890	3804	9585
07:17	ZZZZZZ	4075	108300	3702	9552
07:23	MP11078-MB1	4111	109110	3689	9642
07:29	MP11078-B1	4347	105240	3629	10367

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45795
Parameters: As,Ba,Cd,Cr,Se,Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
07:34	ZZZZZZ	4370	110510	3898	10023
07:39	ZZZZZZ	4185	109690	3774	9843
07:44	ZZZZZZ	4227	110150	3798	9716
07:50	MA45795-CCV19	4232	104240	3641	10011
07:55	MA45795-CCB20	4484	109380	3749	10637
08:00	ZZZZZZ	4307	111880	3874	9849
08:06	ZZZZZZ	4423	109990	3818	10264
08:11	ZZZZZZ	3991	107960	3753	9546
08:17	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:22	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:27	ZZZZZZ	No results reported for the elements associated with this internal standard.			
08:33	ZZZZZZ	4128	108570	3793	9676
08:38	ZZZZZZ	3963	105240	3731	9234
08:45	ZZZZZZ	4056	105370	3750	9492
08:51	MA45795-CCV20	4241	104390	3622	10072
08:56	MA45795-CCB21	4126	108840	3782	9672

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

LEGEND:

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time: / Sample ID:			11:23 ICB1		11:38 CCB1		12:43 CCB2		13:43 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	-0.200	<3.0	0.500	<3.0	0.800	<3.0	0.00	<3.0
Barium	200	.2	-0.100	<200	-0.200	<200	-0.200	<200	0.00	<200
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8	anr							
Cadmium	3.0	.1	0.100	<3.0	0.300	<3.0	0.300	<3.0	0.100	<3.0
Calcium	5000	3.2	anr							
Chromium	10	.3	-0.100	<10	-0.200	<10	0.00	<10	-0.200	<10
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	anr							
Lithium	50	.8	anr							
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	-0.400	<10	0.300	<10	0.00	<10	0.400	<10
Silicon	200	1.7								
Silver	10	.4	0.100	<10	0.100	<10	0.100	<10	0.100	<10
Sodium	10000	9.8	anr							
Strontium	10	.1	anr							
Sulfur	50	3.7								
Thallium	10	2.4	anr							
Tin	10	.9	anr							
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time:			11:23		11:38		12:43		13:43	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time: / Sample ID:			14:42 CCB4		15:42 CCB5		16:41 CCB6		17:45 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	1.40	<3.0	0.00	<3.0	-0.100	<3.0	0.100	<3.0
Barium	200	.2	0.00	<200	0.100	<200	-0.100	<200	0.00	<200
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8	anr							
Cadmium	3.0	.1	0.200	<3.0	0.200	<3.0	0.100	<3.0	0.100	<3.0
Calcium	5000	3.2	anr							
Chromium	10	.3	0.00	<10	0.100	<10	0.00	<10	-0.200	<10
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	anr							
Lithium	50	.8	anr							
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	0.00	<10	0.400	<10	0.100	<10	0.600	<10
Silicon	200	1.7								
Silver	10	.4	0.100	<10	0.200	<10	0.200	<10	0.00	<10
Sodium	10000	9.8	anr							
Strontium	10	.1	anr							
Sulfur	50	3.7								
Thallium	10	2.4	anr							
Tin	10	.9	anr							
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time:			14:42		15:42		16:41		17:45	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time: / Sample ID:			19:03 CCB8		20:08 CCB9		21:13 CCB10		22:17 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	1.40	<3.0	0.600	<3.0	0.600	<3.0	0.800	<3.0
Barium	200	.2	-0.200	<200	-0.200	<200	0.00	<200	-0.100	<200
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8	anr							
Cadmium	3.0	.1	0.200	<3.0	0.200	<3.0	0.100	<3.0	0.200	<3.0
Calcium	5000	3.2	anr							
Chromium	10	.3	-0.100	<10	-0.100	<10	0.00	<10	0.100	<10
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	anr							
Lithium	50	.8	anr							
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	0.400	<10	-1.00	<10	0.00	<10	0.600	<10
Silicon	200	1.7								
Silver	10	.4	0.00	<10	0.200	<10	0.00	<10	-0.400	<10
Sodium	10000	9.8	anr							
Strontium	10	.1	anr							
Sulfur	50	3.7								
Thallium	10	2.4	anr							
Tin	10	.9	anr							
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time:			19:03		20:08		21:13		22:17	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time:			23:21	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	8.8	anr	
Antimony	6.0	1	anr	
Arsenic	3.0	1.2	0.600	<3.0
Barium	200	.2	0.400	<200
Beryllium	1.0	.1	anr	
Bismuth	20	1.2		
Boron	100	1.8	anr	
Cadmium	3.0	.1	0.200	<3.0
Calcium	5000	3.2	anr	
Chromium	10	.3	-0.100	<10
Cobalt	50	.3	anr	
Copper	10	1.3	anr	
Iron	100	1.9	anr	
Lead	3.0	1.2	anr	
Lithium	50	.8	anr	
Magnesium	5000	16	anr	
Manganese	15	.1	anr	
Molybdenum	20	.4	anr	
Nickel	10	.3	anr	
Phosphorus	50	1.5		
Potassium	10000	46	anr	
Selenium	10	2	-0.600	<10
Silicon	200	1.7		
Silver	10	.4	-0.100	<10
Sodium	10000	9.8	anr	
Strontium	10	.1	anr	
Sulfur	50	3.7		
Thallium	10	2.4	anr	
Tin	10	.9	anr	
Titanium	10	.1		
Tungsten	50	2.1		
Vanadium	50	.2	anr	
Zinc	20	.1	anr	

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45795 Units: ug/l

Time:			23:21	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Zirconium	10	.2		

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA45795 Units: ug/l

Time:		11:30	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	2000	1940	97.0
Barium	2000	2010	100.5
Beryllium	anr		
Bismuth			
Boron	anr		
Cadmium	2000	1970	98.5
Calcium	anr		
Chromium	2000	2050	102.5
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	anr		
Lithium	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Phosphorus			
Potassium	anr		
Selenium	2000	1910	95.5
Silicon			
Silver	250	251	100.4
Sodium	anr		
Strontium	anr		
Sulfur			
Thallium	anr		
Tin	anr		
Titanium			
Tungsten			
Vanadium	anr		
Zinc	anr		

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA45795 Units: ug/l

Time:		11:30	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zirconium			

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		11:18			12:37			13:38	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1950	97.5	2000	1940	97.0	2000	1960	98.0
Barium	2000	2020	101.0	2000	2030	101.5	2000	2050	102.5
Beryllium	anr								
Bismuth									
Boron	anr								
Cadmium	2000	1980	99.0	2000	1970	98.5	2000	1980	99.0
Calcium	anr								
Chromium	2000	2060	103.0	2000	2050	102.5	2000	2060	103.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	1920	96.0	2000	1890	94.5	2000	1930	96.5
Silicon									
Silver	250	254	101.6	250	250	100.0	250	253	101.2
Sodium	anr								
Strontium	anr								
Sulfur									
Thallium	anr								
Tin	anr								
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		11:18			12:37			13:38	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		14:37			15:36			16:36	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1950	97.5	2000	2130	106.5	2000	2090	104.5
Barium	2000	2050	102.5	2000	2060	103.0	2000	2070	103.5
Beryllium	anr								
Bismuth									
Boron	anr								
Cadmium	2000	1990	99.5	2000	2070	103.5	2000	2060	103.0
Calcium	anr								
Chromium	2000	2040	102.0	2000	2050	102.5	2000	2060	103.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	1920	96.0	2000	2110	105.5	2000	2070	103.5
Silicon									
Silver	250	252	100.8	250	250	100.0	250	252	100.8
Sodium	anr								
Strontium	anr								
Sulfur									
Thallium	anr								
Tin	anr								
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		14:37			15:36			16:36	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		17:40			18:58			20:03	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	1960	98.0	2000	1940	97.0	2000	1950	97.5
Barium	2000	2060	103.0	2000	2070	103.5	2000	2100	105.0
Beryllium	anr								
Bismuth									
Boron	anr								
Cadmium	2000	1990	99.5	2000	1970	98.5	2000	1980	99.0
Calcium	anr								
Chromium	2000	2020	101.0	2000	2060	103.0	2000	2040	102.0
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	1940	97.0	2000	1900	95.0	2000	1910	95.5
Silicon									
Silver	250	250	100.0	250	251	100.4	250	250	100.0
Sodium	anr								
Strontium	anr								
Sulfur									
Thallium	anr								
Tin	anr								
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		17:40			18:58			20:03	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		21:07			22:12			23:16	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	2000	2060	103.0	2000	1950	97.5	2000	1950	97.5
Barium	2000	2100	105.0	2000	2110	105.5	2000	2120	106.0
Beryllium	anr								
Bismuth									
Boron	anr								
Cadmium	2000	2030	101.5	2000	1980	99.0	2000	1970	98.5
Calcium	anr								
Chromium	2000	2050	102.5	2000	2030	101.5	2000	2030	101.5
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	anr								
Lithium	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2000	2030	101.5	2000	1910	95.5	2000	1910	95.5
Silicon									
Silver	250	251	100.4	250	248	99.2	250	249	99.6
Sodium	anr								
Strontium	anr								
Sulfur									
Thallium	anr								
Tin	anr								
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45795 Units: ug/l

Time:		21:07			22:12			23:16	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

HIGH STANDARD CHECK SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45795 Units: ug/l

Time:		12:04			12:10	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	8000	8300	103.8			
Barium	8000	8140	101.8			
Beryllium	anr					
Bismuth						
Boron	anr					
Cadmium	8000	7910	98.9			
Calcium						
Chromium	8000	8360	104.5			
Cobalt	anr					
Copper	anr					
Iron						
Lead	anr					
Lithium	anr					
Magnesium						
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium						
Selenium	8000	8100	101.3			
Silicon						
Silver	625	610	97.6			
Sodium						
Strontium	anr					
Sulfur						
Thallium	anr					
Tin	anr					
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

HIGH STANDARD CHECK SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45795 Units: ug/l

Time:		12:04			12:10	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA45795 Units: ug/l

Time:				11:48		12:26	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0	anr			
Arsenic	8.0	20	3.0	7.60	95.0	3.40	113.3
Barium	200		4.0	194	97.0	4.00	100.0
Beryllium	2.0		1.0	anr			
Bismuth	20						
Boron	100		10	anr			
Cadmium	3.0		1.0	3.10	103.3	1.10	110.0
Calcium	5000	2000	1000	anr			
Chromium	10		2.0	10.2	102.0	2.00	100.0
Cobalt	50		3.0	anr			
Copper	10		2.0	anr			
Iron	100	500		anr			
Lead	3.0	20	2.5	anr			
Lithium	50			anr			
Magnesium	5000	2000	100	anr			
Manganese	15		3.0	anr			
Molybdenum	20			anr			
Nickel	10		4.0	anr			
Phosphorus	50						
Potassium	5000		2000	anr			
Selenium	10	20	5.0	10.8	108.0	6.30	126.0*(a
Silicon	200						
Silver	5.0		2.0	5.40	108.0	0.500	25.0*(a)
Sodium	5000		1000	anr			
Strontium	10			anr			
Sulfur	50						
Thallium	10		2.0	anr			
Tin	10			anr			
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	anr			
Zinc	20		10	anr			

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA45795 Units: ug/l

Time:				11:48		12:26	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zirconium	10						

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

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

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45795 Units: ug/l

Time:			11:54		11:59		16:47		16:52	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	537000	107.4	533000	106.6	549000	109.8	539000	107.8
Antimony		1000	1.10		1110	111.0	-1.10		1120	112.0
Arsenic		1000	-1.40		1120	112.0	-1.50		1120	112.0
Barium		500	1.40		537	107.4	1.60		549	109.8
Beryllium		500	0.00		516	103.2	0.00		511	102.2
Bismuth		500	8.40		570	114.0	7.20		574	114.8
Boron		500	0.800		528	105.6	0.500		531	106.2
Cadmium		1000	0.400		1050	105.0	0.400		1060	106.0
Calcium	400000	400000	406000	101.5	402000	100.5	404000	101.0	396000	99.0
Chromium		500	-2.00		483	96.6	-2.20		483	96.6
Cobalt		500	-0.800		487	97.4	-1.00		490	98.0
Copper		500	-1.90		541	108.2	-2.40		544	108.8
Iron	200000	200000	210000	105.0	207000	103.5	204000	102.0	201000	100.5
Lead		1000	-0.900		986	98.6	-0.400		989	98.9
Lithium		500	2.60		537	107.4	1.60		558	111.6
Magnesium	500000	500000	528000	105.6	519000	103.8	520000	104.0	502000	100.4
Manganese		500	2.70		509	101.8	2.10		509	101.8
Molybdenum		500	2.50		504	100.8	2.70		507	101.4
Nickel		1000	-1.40		985	98.5	-1.30		987	98.7
Phosphorus		500	19.1		547	109.4	19.1		549	109.8
Potassium			90.9		76.9		93.3		57.4	
Selenium		1000	3.90		1090	109.0	6.00		1090	109.0
Silicon		500	-5.00		539	107.8	-4.60		545	109.0
Silver		1000	0.500		1080	108.0	-1.00		1070	107.0
Sodium			32.1		26.8		52.5		48.2	
Strontium		500	-6.40		586	117.2	-6.10		596	119.2
Sulfur		500	-24.7		486	97.2	-24.1		493	98.6
Thallium		1000	-0.700		997	99.7	-1.20		1000	100.0
Tin		500	-4.90		493	98.6	-4.70		492	98.4
Titanium		500	3.90		505	101.0	3.80		505	101.0
Tungsten		500	0.800		490	98.0	4.40		494	98.8
Vanadium		500	-0.300		494	98.8	-0.100		494	98.8
Zinc		1000	2.20		976	97.6	1.70		975	97.5

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

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120618M1.ICP Date Analyzed: 12/06/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45795 Units: ug/l

Time:			11:54		11:59		16:47		16:52	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	1.00		492	98.4	0.700		497	99.4

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

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:00	MA45805-STD1	1		STDA
12:05	MA45805-STD2	1		STDB
12:11	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:22	MA45805-ICV1	1		
12:27	MA45805-ICB1	1		
12:34	MA45805-ICCV1	1		
12:41	MA45805-CCB1	1		
12:46	MA45805-CRID1	1		
12:51	MA45805-CRI1	1		
12:57	MA45805-ICSA1	1		
13:02	MA45805-ICSAB1	1		
13:07	MA45805-HSTD1	1		
13:13	MA45805-HSTD2	1		
13:18	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:29	MA45805-CRI2	1		
13:35	ZZZZZZ	1		
13:40	MA45805-CCV1	1		
13:45	MA45805-CCB2	1		
13:51	MP11083-MB1	1		
13:56	MP11083-B1	1		
14:02	MP11083-S1	1		
14:07	MP11083-S2	1		
14:12	JC78687-7	1		(sample used for QC only; not part of login JC78619A)
14:17	MP11083-SD1	5		
14:23	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:34	JC79015-1	1		(sample used for QC only; not part of login JC78619A)
14:39	MA45805-CCV2	1		
14:44	MA45805-CCB3	1		
14:50	ZZZZZZ	5		
14:55	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:01	MA45805-CRID2	1		
15:06	MA45805-CRI3	1		
15:12	MA45805-CRID3	1		
15:17	MP11079-B1	1		
15:22	MP11079-MB1	1		
15:28	MP11079-S1	1		
15:33	MP11079-S2	1		
15:38	FA59676-1	1		(sample used for QC only; not part of login JC78619A)
15:44	MA45805-CCV3	1		
15:49	MA45805-CCB4	1		
15:54	MP11079-SD1	5		
16:00	MP11125-MB1	1		
16:05	MP11125-B1	1		
16:10	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:21	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:32	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:43	MA45805-CCV4	1		
16:48	MA45805-CCB5	1		
16:53	ZZZZZZ	1		
16:59	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:15	ZZZZZZ	1		
17:21	ZZZZZZ	1		
17:26	ZZZZZZ	1		
17:32	MP11122-MB1	1		Batch to reanalyze for Sb, Mb too neg
17:37	MP11122-B1	1		
17:42	MA45805-CCV5	1		
17:48	MA45805-CCB6	1		
17:53	ZZZZZZ	2		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:59	ZZZZZZ	2		
18:04	ZZZZZZ	5		
18:10	ZZZZZZ	1		
18:15	ZZZZZZ	1		
18:21	MA45805-ICSA2	1		
18:26	MA45805-ICSAB2	1		
18:31	MA45805-CCV6	1		
18:36	MA45805-CCB7	1		
18:42	ZZZZZZ	1		
18:47	ZZZZZZ	1		
18:53	ZZZZZZ	1		
18:58	ZZZZZZ	1		
19:04	ZZZZZZ	1		
19:10	ZZZZZZ	1		
19:15	ZZZZZZ	1		
19:21	ZZZZZZ	1		
19:27	ZZZZZZ	1		
19:32	ZZZZZZ	1		
19:37	ZZZZZZ	1		
19:43	ZZZZZZ	1		
19:49	ZZZZZZ	1		
19:54	MA45805-CCV7	1		
19:59	MA45805-CCB8	1		
20:05	ZZZZZZ	1		
20:10	ZZZZZZ	1		
20:16	ZZZZZZ	1		
20:21	ZZZZZZ	1		
20:26	ZZZZZZ	1		
20:32	ZZZZZZ	1		
20:37	ZZZZZZ	1		
20:42	ZZZZZZ	1		
20:48	ZZZZZZ	1		
20:53	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:58	MA45805-CCV8	1		
21:04	MA45805-CCB9	1		
21:09	ZZZZZZ	1		
21:15	ZZZZZZ	1		
21:20	ZZZZZZ	1		
21:26	ZZZZZZ	1		
21:31	ZZZZZZ	1		
21:37	ZZZZZZ	1		
21:42	MP11070-S1	5		%sol
21:47	MP11070-S2	5		%sol
21:52	JC78941-1	5		(sample used for QC only; not part of login JC78619A)
21:57	MP11070-SD1	25		%sol
---------->	Last reportable sample/prep for job JC78619A			
22:03	MA45805-CCV9	1		
22:08	MA45805-CCB10	1		
---------->	Last reportable CCB for job JC78619A			
22:13	ZZZZZZ	10		
22:19	ZZZZZZ	10		
22:24	ZZZZZZ	20		
22:30	ZZZZZZ	3		
22:35	ZZZZZZ	3		
22:40	ZZZZZZ	1		
22:46	ZZZZZZ	1		
22:51	MP11068-S1	10		
22:56	MP11068-S2	10		
23:01	JC78789-3	10		(sample used for QC only; not part of login JC78619A)
23:07	MA45805-CCV10	1		
23:12	MA45805-CCB11	1		
23:17	MP11068-SD1	50		
23:23	ZZZZZZ	10		
23:28	ZZZZZZ	5		
23:34	ZZZZZZ	1		
23:39	ZZZZZZ	1		
23:44	ZZZZZZ	1		
23:50	MP11081-MB1	1		Zn>1/2 dl

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:55	MP11081-B1	1		
00:01	MP11081-S1	1		Ca, Na, S high
00:06	MP11081-S2	1		Ca, Na, S high
00:11	MA45805-CCV11	1		
00:16	MA45805-CCB12	1		
00:22	JC79027-3A	1		(sample used for QC only; not part of login JC78619A)
00:27	MP11081-SD1	5		Ca, Na, S high
00:33	ZZZZZZ	1		
00:38	ZZZZZZ	1		
00:44	ZZZZZZ	1		
00:49	ZZZZZZ	1		
00:54	ZZZZZZ	1		
01:00	ZZZZZZ	1		
01:05	ZZZZZZ	1		
01:11	ZZZZZZ	1		
01:16	MA45805-CCV12	1		
01:22	MA45805-CCB13	1		
01:27	ZZZZZZ	1		
01:33	ZZZZZZ	1		
01:38	ZZZZZZ	1		
01:43	ZZZZZZ	1		
01:49	ZZZZZZ	1		
01:55	MP11114-MB1	1		
02:00	MP11114-B1	1		
02:05	MP11114-S1	1		
02:10	MP11114-S2	1		
02:16	JC79118-8	1		(sample used for QC only; not part of login JC78619A)
02:21	MA45805-CCV13	1		
02:26	MA45805-CCB14	1		
02:32	MP11114-SD1	5		
02:37	ZZZZZZ	1		
02:43	ZZZZZZ	1		
02:48	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:54	ZZZZZZ	1		
02:59	ZZZZZZ	1		
03:05	ZZZZZZ	1		
03:10	ZZZZZZ	1		
03:15	ZZZZZZ	1		
03:21	ZZZZZZ	1		
03:26	MA45805-CCV14	1		
03:31	MA45805-CCB15	1		
03:37	ZZZZZZ	1		
03:42	ZZZZZZ	1		
03:48	ZZZZZZ	1		
03:53	ZZZZZZ	1		
03:59	ZZZZZZ	1		
04:04	ZZZZZZ	1		
04:10	ZZZZZZ	1		
04:15	ZZZZZZ	1		
04:21	ZZZZZZ	1		
04:26	ZZZZZZ	1		
04:32	MA45805-CCV15	1		
04:37	MA45805-CCB16	1		
04:43	ZZZZZZ	1		
04:48	ZZZZZZ	1		
04:54	ZZZZZZ	1		
04:59	ZZZZZZ	1		
05:04	MP11125-S1	1		Cu, Zn high. Needs post spike for Ba, K
05:10	MP11125-S2	1		Cu, Zn high
05:15	JC78814-8	1		(sample used for QC only; not part of login JC78619A)
05:21	MP11125-SD1	5		Cu high
05:26	ZZZZZZ	1		
05:31	ZZZZZZ	1		
05:37	MA45805-CCV16	1		
05:42	MA45805-CCB17	1		
05:47	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:53	ZZZZZZ	1		
05:58	ZZZZZZ	1		
06:04	ZZZZZZ	1		
06:09	ZZZZZZ	1		
06:15	ZZZZZZ	1		
06:20	ZZZZZZ	1		
06:25	ZZZZZZ	1		
06:31	ZZZZZZ	1		
06:36	MA45805-CCV17	1		
06:41	MA45805-CCB18	1		
06:47	ZZZZZZ	1		
06:52	ZZZZZZ	1		
06:58	MP11122-B2	1		
07:03	MP11122-S1	1		Ca, Na high
07:08	MP11122-S2	1		Ca, Na high
07:14	JC78686-8	1		(sample used for QC only; not part of login JC78619A)
07:19	MP11122-SD1	5		Ca high
07:24	ZZZZZZ	1		
07:30	ZZZZZZ	1		
07:35	ZZZZZZ	1		
07:41	MA45805-CCV18	1		
07:46	MA45805-CCB19	1		
07:51	ZZZZZZ	1		
07:57	ZZZZZZ	1		
08:02	ZZZZZZ	1		
08:08	ZZZZZZ	1		
08:13	ZZZZZZ	1		
08:19	ZZZZZZ	1		
08:24	ZZZZZZ	1		
08:30	ZZZZZZ	1		
08:35	ZZZZZZ	1		
08:41	ZZZZZZ	1		
08:46	MA45805-CCV19	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:52	MA45805-CCB20	1		
08:57	ZZZZZZ	1		
09:03	ZZZZZZ	1		
09:08	ZZZZZZ	1		
09:14	ZZZZZZ	1		
09:19	MA45805-CCV20	1		
09:24	MA45805-CCB21	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
12:11	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:22	MA45805-ICV1	1	X	
12:27	MA45805-ICB1	1	X	
12:34	MA45805-ICCV1	1	X	
12:41	MA45805-CCB1	1	X	
12:46	MA45805-CRID1	1	X	
12:51	MA45805-CRI1	1		
12:57	MA45805-ICSA1	1	X	
13:02	MA45805-ICSAB1	1	X	
13:07	MA45805-HSTD1	1	X	
13:13	MA45805-HSTD2	1	X	
13:18	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:29	MA45805-CRI2	1	X	
13:35	ZZZZZZ	1		
13:40	MA45805-CCV1	1	X	
13:45	MA45805-CCB2	1	X	
13:51	MP11083-MB1	1		
13:56	MP11083-B1	1		
14:02	MP11083-S1	1	X	
14:07	MP11083-S2	1	X	
14:12	JC78687-7	1		(a)
14:17	MP11083-SD1	5	X	
14:23	ZZZZZZ	1		
14:28	ZZZZZZ	1		
14:34	JC79015-1	1		(a)
14:39	MA45805-CCV2	1	X	
14:44	MA45805-CCB3	1	X	
14:50	ZZZZZZ	5		
14:55	ZZZZZZ	5		
15:01	MA45805-CRID2	1	X	
15:06	MA45805-CRI3	1	X	
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
15:12	MA45805-CRID3	1	X	
15:17	MP11079-B1	1		
15:22	MP11079-MB1	1		
15:28	MP11079-S1	1		
15:33	MP11079-S2	1		
15:38	FA59676-1	1		(a)
15:44	MA45805-CCV3	1	X	
15:49	MA45805-CCB4	1	X	
15:54	MP11079-SD1	5		
16:00	MP11125-MB1	1	X	
16:05	MP11125-B1	1	X	
16:10	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:21	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:32	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:43	MA45805-CCV4	1	X	
16:48	MA45805-CCB5	1	X	
16:53	ZZZZZZ	1		
16:59	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:10	ZZZZZZ	1		
17:15	ZZZZZZ	1		
17:21	ZZZZZZ	1		
17:26	ZZZZZZ	1		
17:32	MP11122-MB1	1	X	
17:37	MP11122-B1	1	X	
17:42	MA45805-CCV5	1	X	
17:48	MA45805-CCB6	1	X	
17:53	ZZZZZZ	2		
17:59	ZZZZZZ	2		
18:04	ZZZZZZ	5		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b
18:10	ZZZZZZ	1	
18:15	ZZZZZZ	1	
18:21	MA45805-ICSA2	1	X
18:26	MA45805-ICSAB2	1	X
18:31	MA45805-CCV6	1	X
18:36	MA45805-CCB7	1	X
18:42	ZZZZZZ	1	
18:47	ZZZZZZ	1	
18:53	ZZZZZZ	1	
18:58	ZZZZZZ	1	
19:04	ZZZZZZ	1	
19:10	ZZZZZZ	1	
19:15	ZZZZZZ	1	
19:21	ZZZZZZ	1	
19:27	ZZZZZZ	1	
19:32	ZZZZZZ	1	
19:37	ZZZZZZ	1	
19:43	ZZZZZZ	1	
19:49	ZZZZZZ	1	
19:54	MA45805-CCV7	1	X
19:59	MA45805-CCB8	1	X
20:05	ZZZZZZ	1	
20:10	ZZZZZZ	1	
20:16	ZZZZZZ	1	
20:21	ZZZZZZ	1	
20:26	ZZZZZZ	1	
20:32	ZZZZZZ	1	
20:37	ZZZZZZ	1	
20:42	ZZZZZZ	1	
20:48	ZZZZZZ	1	
20:53	ZZZZZZ	1	
20:58	MA45805-CCV8	1	X
21:04	MA45805-CCB9	1	X
		Element:	P b

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
21:09	ZZZZZZ	1		
21:15	ZZZZZZ	1		
21:20	ZZZZZZ	1		
21:26	ZZZZZZ	1		
21:31	ZZZZZZ	1		
21:37	ZZZZZZ	1		
21:42	MP11070-S1	5	X	
21:47	MP11070-S2	5	X	
21:52	JC78941-1	5	X	(a)
21:57	MP11070-SD1	25	X	
22:03	MA45805-CCV9	1	X	
22:08	MA45805-CCB10	1	X	
22:13	ZZZZZZ	10		
22:19	ZZZZZZ	10		
22:24	ZZZZZZ	20		
22:30	ZZZZZZ	3		
22:35	ZZZZZZ	3		
22:40	ZZZZZZ	1		
22:46	ZZZZZZ	1		
22:51	MP11068-S1	10	X	
22:56	MP11068-S2	10	X	
23:01	JC78789-3	10	X	(a)
23:07	MA45805-CCV10	1	X	
23:12	MA45805-CCB11	1	X	
23:17	MP11068-SD1	50	X	
23:23	ZZZZZZ	10		
23:28	ZZZZZZ	5		
23:34	ZZZZZZ	1		
23:39	ZZZZZZ	1		
23:44	ZZZZZZ	1		
23:50	MP11081-MB1	1	X	
23:55	MP11081-B1	1	X	
00:01	MP11081-S1	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
00:06	MP11081-S2	1		
00:11	MA45805-CCV11	1	X	
00:16	MA45805-CCB12	1	X	
00:22	JC79027-3A	1		(a)
00:27	MP11081-SD1	5		
00:33	ZZZZZZ	1		
00:38	ZZZZZZ	1		
00:44	ZZZZZZ	1		
00:49	ZZZZZZ	1		
00:54	ZZZZZZ	1		
01:00	ZZZZZZ	1		
01:05	ZZZZZZ	1		
01:11	ZZZZZZ	1		
01:16	MA45805-CCV12	1	X	
01:22	MA45805-CCB13	1	X	
01:27	ZZZZZZ	1		
01:33	ZZZZZZ	1		
01:38	ZZZZZZ	1		
01:43	ZZZZZZ	1		
01:49	ZZZZZZ	1		
01:55	MP11114-MB1	1	X	
02:00	MP11114-B1	1	X	
02:05	MP11114-S1	1	X	
02:10	MP11114-S2	1	X	
02:16	JC79118-8	1	X	(a)
02:21	MA45805-CCV13	1	X	
02:26	MA45805-CCB14	1	X	
02:32	MP11114-SD1	5	X	
02:37	ZZZZZZ	1		
02:43	ZZZZZZ	1		
02:48	ZZZZZZ	1		
02:54	ZZZZZZ	1		
02:59	ZZZZZZ	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
03:05	ZZZZZZ	1		
03:10	ZZZZZZ	1		
03:15	ZZZZZZ	1		
03:21	ZZZZZZ	1		
03:26	MA45805-CCV14	1	X	
03:31	MA45805-CCB15	1	X	
03:37	ZZZZZZ	1		
03:42	ZZZZZZ	1		
03:48	ZZZZZZ	1		
03:53	ZZZZZZ	1		
03:59	ZZZZZZ	1		
04:04	ZZZZZZ	1		
04:10	ZZZZZZ	1		
04:15	ZZZZZZ	1		
04:21	ZZZZZZ	1		
04:26	ZZZZZZ	1		
04:32	MA45805-CCV15	1	X	
04:37	MA45805-CCB16	1	X	
04:43	ZZZZZZ	1		
04:48	ZZZZZZ	1		
04:54	ZZZZZZ	1		
04:59	ZZZZZZ	1		
05:04	MP11125-S1	1		
05:10	MP11125-S2	1		
05:15	JC78814-8	1		(a)
05:21	MP11125-SD1	5		
05:26	ZZZZZZ	1		
05:31	ZZZZZZ	1		
05:37	MA45805-CCV16	1	X	
05:42	MA45805-CCB17	1	X	
05:47	ZZZZZZ	1		
05:53	ZZZZZZ	1		
05:58	ZZZZZZ	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
06:04	ZZZZZZ	1		
06:09	ZZZZZZ	1		
06:15	ZZZZZZ	1		
06:20	ZZZZZZ	1		
06:25	ZZZZZZ	1		
06:31	ZZZZZZ	1		
06:36	MA45805-CCV17	1	X	
06:41	MA45805-CCB18	1	X	
06:47	ZZZZZZ	1		
06:52	ZZZZZZ	1		
06:58	MP11122-B2	1	X	
07:03	MP11122-S1	1	X	
07:08	MP11122-S2	1	X	
07:14	JC78686-8	1	X	(a)
07:19	MP11122-SD1	5	X	
07:24	ZZZZZZ	1		
07:30	ZZZZZZ	1		
07:35	ZZZZZZ	1		
07:41	MA45805-CCV18	1	X	
07:46	MA45805-CCB19	1	X	
07:51	ZZZZZZ	1		
07:57	ZZZZZZ	1		
08:02	ZZZZZZ	1		
08:08	ZZZZZZ	1		
08:13	ZZZZZZ	1		
08:19	ZZZZZZ	1		
08:24	ZZZZZZ	1		
08:30	ZZZZZZ	1		
08:35	ZZZZZZ	1		
08:41	ZZZZZZ	1		
08:46	MA45805-CCV19	1	X	
08:52	MA45805-CCB20	1	X	
08:57	ZZZZZZ	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Element: Dilution	P b
09:03	ZZZZZZ	1	
09:08	ZZZZZZ	1	
09:14	ZZZZZZ	1	
09:19	MA45805-CCV20	1	X
09:24	MA45805-CCB21	1	X

(a) Sample used for QC only; not part of login JC78619A.

Element: P
b

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:00	MA45805-STD1	4577 R	109540 R	3937 R	9180 R
12:05	MA45805-STD2	4341	102740	3805	8876
12:11	ZZZZZZ	4714	104320	3890	9574
12:16	ZZZZZZ	4586	108830	4007	9246
12:22	MA45805-ICV1	4370	104520	3883	8850
12:27	MA45805-ICB1	4494	107970	3924	9036
12:34	MA45805-ICCV1	4655	105560	3831	9453
12:41	MA45805-CCB1	4494	108320	3975	9021
12:46	MA45805-CRID1	4565	108330	3905	9211
12:51	MA45805-CRI1	No results reported for the elements associated with this internal standard.			
12:57	MA45805-ICSA1	4420	97887	3599	9043
13:02	MA45805-ICSAB1	4335	97621	3688	8914
13:07	MA45805-HSTD1	4467	106250	3934	9293
13:13	MA45805-HSTD2	4188	99435	3737	8554
13:18	ZZZZZZ	4483	108420	3896	9258
13:24	ZZZZZZ	4788	108860	3859	9963
13:29	MA45805-CRI2	4442	108180	3818	8950
13:35	ZZZZZZ	4360	107930	3829	8752
13:40	MA45805-CCV1	4651	104340	3783	9486
13:45	MA45805-CCB2	4483	109690	3948	9040
13:51	MP11083-MB1	4530	107790	3838	9191
13:56	MP11083-B1	4652	104560	3817	9501
14:02	MP11083-S1	4496	102600	3796	9171
14:07	MP11083-S2	4513	102500	3805	9176
14:12	JC78687-7	4286	103330	3739	8657
14:17	MP11083-SD1	4449	106310	3813	8958
14:23	ZZZZZZ	4333	99553	3799	8712
14:28	ZZZZZZ	4103	98206	3758	8254
14:34	JC79015-1	4400	105550	3836	8857
14:39	MA45805-CCV2	4577	104060	3822	9306
14:44	MA45805-CCB3	4462	106780	3864	8950
14:50	ZZZZZZ	4414	104960	3693	8836
14:55	ZZZZZZ	4487	103530	3795	9033

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:01	MA45805-CRID2	4602	106590	3893	9236
15:06	MA45805-CRI3	4824	106020	3829	9824
15:12	MA45805-CRID3	4470	106320	3893	8968
15:17	MP11079-B1	4324	103780	3737	8763
15:22	MP11079-MB1	4439	106110	3767	8918
15:28	MP11079-S1	4609	102780	3665	9378
15:33	MP11079-S2	4566	102650	3761	9310
15:38	FA59676-1	4601	104180	3829	9379
15:44	MA45805-CCV3	4503	103490	3726	9118
15:49	MA45805-CCB4	4475	106680	3771	8979
15:54	MP11079-SD1	4768	105460	3761	9727
16:00	MP11125-MB1	4468	107200	3821	8976
16:05	MP11125-B1	4635	104240	3744	9438
16:10	ZZZZZZ	4870	108450	3924	9629
16:16	ZZZZZZ	4568	108030	3972	9181
16:21	ZZZZZZ	4690	109670	3959	9179
16:26	ZZZZZZ	5017	108410	3898	10015
16:32	ZZZZZZ	4904	108770	4002	9857
16:37	ZZZZZZ	4604	107710	3978	9209
16:43	MA45805-CCV4	4389	102280	3740	8882
16:48	MA45805-CCB5	4571	107060	3802	9203
16:53	ZZZZZZ	4643	110350	3970	9387
16:59	ZZZZZZ	4425	105210	3786	8954
17:04	ZZZZZZ	4403	104350	3780	8915
17:10	ZZZZZZ	4362	103470	3753	8967
17:15	ZZZZZZ	4381	103830	3720	9024
17:21	ZZZZZZ	4267	105380	3773	8563
17:26	ZZZZZZ	4435	104950	3696	8932
17:32	MP11122-MB1	4517	107970	3898	9062
17:37	MP11122-B1	4900	106390	3846	9975
17:42	MA45805-CCV5	4659	104240	3808	9413
17:48	MA45805-CCB6	4654	107660	3779	9396
17:53	ZZZZZZ	4853	107370	3804	9784

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:59	ZZZZZZ	4655	108430	3909	9344
18:04	ZZZZZZ	4728	108500	3738	9510
18:10	ZZZZZZ	4604	109160	3901	9290
18:15	ZZZZZZ	4499	108650	3895	9053
18:21	MA45805-ICSA2	4305	96204	3499	8791
18:26	MA45805-ICSAB2	4337	96129	3481	8855
18:31	MA45805-CCV6	4642	104260	3791	9395
18:36	MA45805-CCB7	4585	107870	3822	9207
18:42	ZZZZZZ	4624	110430	3916	9290
18:47	ZZZZZZ	4525	106920	3753	9108
18:53	ZZZZZZ	4590	107270	3717	9200
18:58	ZZZZZZ	4456	106920	3713	8901
19:04	ZZZZZZ	4500	107050	3680	9000
19:10	ZZZZZZ	4550	106560	3783	9095
19:15	ZZZZZZ	4541	106280	3567	9119
19:21	ZZZZZZ	4553	108220	3807	9083
19:27	ZZZZZZ	4553	107490	3786	9137
19:32	ZZZZZZ	4499	103440	3499	9046
19:37	ZZZZZZ	4636	107680	3723	9383
19:43	ZZZZZZ	4260	99745	3694	8523
19:49	ZZZZZZ	4293	100120	3680	8610
19:54	MA45805-CCV7	4636	104070	3690	9365
19:59	MA45805-CCB8	4709	107360	3777	9503
20:05	ZZZZZZ	4484	104750	3697	9069
20:10	ZZZZZZ	4688	102240	3623	9534
20:16	ZZZZZZ	4679	104100	3825	9540
20:21	ZZZZZZ	4155	100200	3728	8393
20:26	ZZZZZZ	4162	100160	3596	8428
20:32	ZZZZZZ	4266	101200	3716	8632
20:37	ZZZZZZ	4496	100910	3625	9148
20:42	ZZZZZZ	4343	102350	3680	8797
20:48	ZZZZZZ	4218	101780	3698	8517
20:53	ZZZZZZ	4090	98428	3629	8270

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:58	MA45805-CCV8	4679	104300	3699	9470
21:04	MA45805-CCB9	4608	127730	3827	9260
21:09	ZZZZZZ	4542	106840	3673	9150
21:15	ZZZZZZ	4414	99534	3588	8893
21:20	ZZZZZZ	4396	98548	3681	8818
21:26	ZZZZZZ	4526	98956	3729	9130
21:31	ZZZZZZ	4446	106730	3780	8897
21:37	ZZZZZZ	4600	104140	3616	9331
21:42	MP11070-S1	4489	106300	3681	9010
21:47	MP11070-S2	4526	106450	3634	9070
21:52	JC78941-1	4757	106210	3715	9629
21:57	MP11070-SD1	4570	106770	3778	9157
22:03	MA45805-CCV9	4365	102980	3653	8801
22:08	MA45805-CCB10	4442	107030	3740	8848
22:13	ZZZZZZ	4632	102950	3659	9308
22:19	ZZZZZZ	4410	103380	3675	8830
22:24	ZZZZZZ	4728	103650	3684	9567
22:30	ZZZZZZ	4556	106850	3761	9185
22:35	ZZZZZZ	4797	105880	3662	9818
22:40	ZZZZZZ	4475	106600	3745	8975
22:46	ZZZZZZ	4753	104330	3589	9667
22:51	MP11068-S1	4468	104120	3779	8926
22:56	MP11068-S2	4468	104100	3669	8912
23:01	JC78789-3	4465	103240	3746	8916
23:07	MA45805-CCV10	4423	103860	3631	8892
23:12	MA45805-CCB11	4934	106910	3679	10017
23:17	MP11068-SD1	4524	105710	3686	9064
23:23	ZZZZZZ	4733	104350	3679	9566
23:28	ZZZZZZ	4441	103040	3707	8849
23:34	ZZZZZZ	4439	103210	3631	8872
23:39	ZZZZZZ	4435	104560	3589	8922
23:44	ZZZZZZ	4511	106620	3684	9071
23:50	MP11081-MB1	4530	106260	3613	9069

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:55	MP11081-B1	4735	103790	3636	9606
00:01	MP11081-S1	4280	96104	3488	8556
00:06	MP11081-S2	4007	95966	3571	8023
00:11	MA45805-CCV11	4720	103730	3524	9545
00:16	MA45805-CCB12	4525	107350	3731	9033
00:22	JC79027-3A	4203	95351	3532	8385
00:27	MP11081-SD1	4635	102580	3654	9322
00:33	ZZZZZZ	4344	97575	3618	8697
00:38	ZZZZZZ	4396	102220	3562	8817
00:44	ZZZZZZ	4414	102300	3576	8861
00:49	ZZZZZZ	4448	101330	3518	8964
00:54	ZZZZZZ	4414	102830	3599	8839
01:00	ZZZZZZ	4474	106450	3527	8960
01:05	ZZZZZZ	4173	97647	3559	8365
01:11	ZZZZZZ	4394	104090	3596	8838
01:16	MA45805-CCV12	4728	103130	3450	9552
01:22	MA45805-CCB13	4877	107060	3673	9879
01:27	ZZZZZZ	4383	101880	3499	8780
01:33	ZZZZZZ	4363	102790	3523	8733
01:38	ZZZZZZ	4344	99596	3508	8645
01:43	ZZZZZZ	4691	104470	3690	9100
01:49	ZZZZZZ	4808	107210	3546	9787
01:55	MP11114-MB1	4420	107360	3643	8815
02:00	MP11114-B1	4392	103580	3407	8855
02:05	MP11114-S1	4561	102250	3437	9210
02:10	MP11114-S2	4254	102520	3507	8578
02:16	JC79118-8	4470	102830	3457	8982
02:21	MA45805-CCV13	4772	102810	3427	9633
02:26	MA45805-CCB14	4536	107110	3619	9038
02:32	MP11114-SD1	4488	105010	3519	8963
02:37	ZZZZZZ	4438	106200	3557	8861
02:43	ZZZZZZ	4360	101440	3485	8730
02:48	ZZZZZZ	4102	92814	3509	8168

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:54	ZZZZZZ	4345	102360	3466	8708
02:59	ZZZZZZ	4575	100510	3478	9138
03:05	ZZZZZZ	4374	101480	3462	8754
03:10	ZZZZZZ	4472	106220	3527	8920
03:15	ZZZZZZ	4746	105400	3445	9611
03:21	ZZZZZZ	4530	105500	3527	9065
03:26	MA45805-CCV14	4738	102400	3406	9524
03:31	MA45805-CCB15	4617	106970	3561	9153
03:37	ZZZZZZ	4558	105540	3451	9169
03:42	ZZZZZZ	4321	101880	3508	8610
03:48	ZZZZZZ	4328	101530	3412	8645
03:53	ZZZZZZ	4812	106770	3386	9824
03:59	ZZZZZZ	4286	97370	3487	8507
04:04	ZZZZZZ	4793	107450	3536	9734
04:10	ZZZZZZ	4542	106910	3497	9074
04:15	ZZZZZZ	4129	95161	3323	8194
04:21	ZZZZZZ	4198	96645	3392	8341
04:26	ZZZZZZ	4573	107080	3371	9147
04:32	MA45805-CCV15	4646	102800	3322	9340
04:37	MA45805-CCB16	4537	106730	3447	9046
04:43	ZZZZZZ	4752	107040	3386	9574
04:48	ZZZZZZ	4761	106730	3397	9622
04:54	ZZZZZZ	4597	105670	3443	9212
04:59	ZZZZZZ	4609	106290	3385	9274
05:04	MP11125-S1	4511	105890	3436	9028
05:10	MP11125-S2	4598	105210	3391	9235
05:15	JC78814-8	4732	107380	3427	9648
05:21	MP11125-SD1	4689	106800	3503	9416
05:26	ZZZZZZ	4569	108050	3480	8995
05:31	ZZZZZZ	4558	109290	3405	9019
05:37	MA45805-CCV16	4524	102180	3290	9085
05:42	MA45805-CCB17	4534	106540	3350	9027
05:47	ZZZZZZ	4719	109350	3462	9115

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:53	ZZZZZZ	4949	110670	3584	9566
05:58	ZZZZZZ	4778	110360	3605	9262
06:04	ZZZZZZ	4848	109510	3508	9479
06:09	ZZZZZZ	4911	110610	3634	9595
06:15	ZZZZZZ	4980	107080	3465	9948
06:20	ZZZZZZ	4842	108410	3579	9525
06:25	ZZZZZZ	4919	108950	3449	9717
06:31	ZZZZZZ	4612	106470	3512	9153
06:36	MA45805-CCV17	4465	103550	3329	8980
06:41	MA45805-CCB18	4592	106840	3423	9148
06:47	ZZZZZZ	4708	107800	3407	9282
06:52	ZZZZZZ	4935	107480	3409	9909
06:58	MP11122-B2	4777	104470	3486	9654
07:03	MP11122-S1	4094	99321	3383	8254
07:08	MP11122-S2	4363	98234	3306	8814
07:14	JC78686-8	4337	97880	3341	8738
07:19	MP11122-SD1	4370	103300	3392	8748
07:24	ZZZZZZ	4160	99717	3275	8373
07:30	ZZZZZZ	4375	100200	3327	8827
07:35	ZZZZZZ	4209	100160	3339	8494
07:41	MA45805-CCV18	4622	103920	3317	9325
07:46	MA45805-CCB19	4658	108380	3482	9334
07:51	ZZZZZZ	4580	106310	3388	9181
07:57	ZZZZZZ	4245	99305	3275	8438
08:02	ZZZZZZ	4416	101100	3356	8779
08:08	ZZZZZZ	4159	99212	3289	8332
08:13	ZZZZZZ	4710	103650	3326	9545
08:19	ZZZZZZ	4273	97946	3279	8493
08:24	ZZZZZZ	4470	96499	3250	8882
08:30	ZZZZZZ	4381	102130	3380	8822
08:35	ZZZZZZ	4376	97533	3310	8725
08:41	ZZZZZZ	4549	105760	3375	9157
08:46	MA45805-CCV19	4649	103550	3258	9366

INTERNAL STANDARD SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
Analyst: ND Run ID: MA45805
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:52	MA45805-CCB20	4563	107190	3361	9116
08:57	ZZZZZZ	4365	100100	3271	8625
09:03	ZZZZZZ	4466	103450	3345	9004
09:08	ZZZZZZ	4688	103630	3334	9532
09:14	ZZZZZZ	4696	102850	3285	9579
09:19	MA45805-CCV20	4621	104190	3362	9328
09:24	MA45805-CCB21	4647	108220	3347	9315

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

LEGEND:

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45805 Units: ug/l

Time:			12:27		12:41		13:45		14:44	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	anr							
Barium	200	.2	anr							
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8	anr							
Cadmium	3.0	.1	anr							
Calcium	5000	3.2	anr							
Chromium	10	.3	anr							
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	0.800	<3.0	0.700	<3.0	1.10	<3.0	1.40	<3.0
Lithium	50	.8	anr							
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	anr							
Silicon	200	1.7								
Silver	10	.4	anr							
Sodium	10000	9.8	anr							
Strontium	10	.1								
Sulfur	50	3.7								
Thallium	10	2.4	anr							
Tin	10	.9								
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45805 Units: ug/l

Time:			12:27		12:41		13:45		14:44	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45805 Units: ug/l

Time: / Sample ID:			15:49 CCB4		16:48 CCB5		17:48 CCB6		18:36 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.2	anr							
Barium	200	.2	anr							
Beryllium	1.0	.1	anr							
Bismuth	20	1.2								
Boron	100	1.8	anr							
Cadmium	3.0	.1	anr							
Calcium	5000	3.2	anr							
Chromium	10	.3	anr							
Cobalt	50	.3	anr							
Copper	10	1.3	anr							
Iron	100	1.9	anr							
Lead	3.0	1.2	0.700	<3.0	0.700	<3.0	0.300	<3.0	1.70	<3.0
Lithium	50	.8	anr							
Magnesium	5000	16	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	10	.3	anr							
Phosphorus	50	1.5								
Potassium	10000	46	anr							
Selenium	10	2	anr							
Silicon	200	1.7								
Silver	10	.4	anr							
Sodium	10000	9.8	anr							
Strontium	10	.1								
Sulfur	50	3.7								
Thallium	10	2.4	anr							
Tin	10	.9								
Titanium	10	.1								
Tungsten	50	2.1								
Vanadium	50	.2	anr							
Zinc	20	.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45805 Units: ug/l

Time:			15:49		16:48		17:48		18:36	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zirconium	10	.2								

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

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45805 Units: ug/l

Time:			19:59		21:04		22:08	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	8.8	anr					
Antimony	6.0	1	anr					
Arsenic	3.0	1.2	anr					
Barium	200	.2	anr					
Beryllium	1.0	.1	anr					
Bismuth	20	1.2						
Boron	100	1.8	anr					
Cadmium	3.0	.1	anr					
Calcium	5000	3.2	anr					
Chromium	10	.3	anr					
Cobalt	50	.3	anr					
Copper	10	1.3	anr					
Iron	100	1.9	anr					
Lead	3.0	1.2	1.00	<3.0	-0.100	<3.0	0.900	<3.0
Lithium	50	.8	anr					
Magnesium	5000	16	anr					
Manganese	15	.1	anr					
Molybdenum	20	.4	anr					
Nickel	10	.3	anr					
Phosphorus	50	1.5						
Potassium	10000	46	anr					
Selenium	10	2	anr					
Silicon	200	1.7						
Silver	10	.4	anr					
Sodium	10000	9.8	anr					
Strontium	10	.1						
Sulfur	50	3.7						
Thallium	10	2.4	anr					
Tin	10	.9						
Titanium	10	.1						
Tungsten	50	2.1						
Vanadium	50	.2	anr					
Zinc	20	.1	anr					

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA45805 Units: ug/l

Time:			19:59		21:04		22:08	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zirconium	10	.2						

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		12:34	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Bismuth			
Boron	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	2020	101.0
Lithium	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Phosphorus			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Strontium			
Sulfur			
Thallium	anr		
Tin			
Titanium			
Tungsten			
Vanadium	anr		
Zinc	anr		

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		12:34	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zirconium			

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		12:22			13:40			14:39	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	2020	101.0	2000	1990	99.5
Lithium	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		12:22			13:40			14:39	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		15:44			16:43			17:42	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2030	101.5	2000	2010	100.5
Lithium	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		15:44			16:43			17:42	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		18:31			19:54			20:58	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2010	100.5	2000	1990	99.5
Lithium	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								
Zinc	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		18:31			19:54			20:58	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zirconium									

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

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		22:03	
Sample ID:	CCV	CCV9	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Bismuth			
Boron	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	2020	101.0
Lithium	anr		
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Phosphorus			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Strontium			
Sulfur			
Thallium	anr		
Tin			
Titanium			
Tungsten			
Vanadium	anr		
Zinc	anr		

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA45805 Units: ug/l

Time:		22:03	
Sample ID:	CCV	CCV9	
Metal	True	Results	% Rec
Zirconium			

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

HIGH STANDARD CHECK SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45805 Units: ug/l

Time:		13:07			13:13	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	8000	8120	101.5			
Lithium	anr					
Magnesium						
Manganese	anr					
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

HIGH STANDARD CHECK SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA45805 Units: ug/l

Time:		13:07			13:13	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zirconium						

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45805 Units: ug/l

Time:				12:46		13:29		15:01	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI2		CRID2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr					
Antimony	6.0	20	3.0						
Arsenic	8.0	20	3.0	anr					
Barium	200		4.0	anr					
Beryllium	2.0		1.0	anr					
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	anr					
Calcium	5000	2000	1000	anr					
Chromium	10		2.0	anr					
Cobalt	50		3.0	anr					
Copper	10		2.0						
Iron	100	500							
Lead	3.0	20	2.5			3.50	116.7		
Lithium	50								
Magnesium	5000	2000	100	anr					
Manganese	15		3.0	anr					
Molybdenum	20								
Nickel	10		4.0	anr					
Phosphorus	50								
Potassium	5000		2000	anr					
Selenium	10	20	5.0						
Silicon	200								
Silver	5.0		2.0						
Sodium	5000		1000	anr					
Strontium	10								
Sulfur	50								
Thallium	10		2.0						
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0						
Zinc	20		10	anr					

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45805 Units: ug/l

Time:				12:46		13:29		15:01	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI2		CRID2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium	10								

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

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45805 Units: ug/l

Time:				15:06		15:12	
Sample ID:	CRI	CRIA	CRID	CRI3		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0	anr			
Arsenic	8.0	20	3.0	anr			
Barium	200		4.0	anr			
Beryllium	2.0		1.0	anr			
Bismuth	20						
Boron	100		10	anr			
Cadmium	3.0		1.0	anr			
Calcium	5000	2000	1000	anr			
Chromium	10		2.0	anr			
Cobalt	50		3.0	anr			
Copper	10		2.0	anr			
Iron	100	500		anr			
Lead	3.0	20	2.5	3.50	116.7		
Lithium	50			anr			
Magnesium	5000	2000	100	anr			
Manganese	15		3.0	anr			
Molybdenum	20			anr			
Nickel	10		4.0	anr			
Phosphorus	50						
Potassium	5000		2000	anr			
Selenium	10	20	5.0	anr			
Silicon	200						
Silver	5.0		2.0	anr			
Sodium	5000		1000	anr			
Strontium	10						
Sulfur	50						
Thallium	10		2.0	anr			
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	anr			
Zinc	20		10	anr			

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45805 Units: ug/l

Time:				15:06		15:12	
Sample ID:	CRI	CRIA	CRID	CRI3		CRID3	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zirconium	10						

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

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

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45805 Units: ug/l

Time:			12:57		13:02		18:21		18:26	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	527000	105.4	512000	102.4	527000	105.4	521000	104.2
Antimony		1000	3.60		1060	106.0	3.90		1060	106.0
Arsenic		1000	2.40		1020	102.0	2.40		1030	103.0
Barium		500	1.60		528	105.6	1.80		534	106.8
Beryllium		500	0.100		495	99.0	0.100		509	101.8
Bismuth		500	8.90		551	110.2	8.10		557	111.4
Boron		500	0.500		486	97.2	0.00		489	97.8
Cadmium		1000	0.200		1010	101.0	0.100		1010	101.0
Calcium	400000	400000	407000	101.8	392000	98.0	402000	100.5	398000	99.5
Chromium		500	0.200		482	96.4	0.500		492	98.4
Cobalt		500	-0.500		473	94.6	-0.500		476	95.2
Copper		500	-4.50		531	106.2	-4.40		544	108.8
Iron	200000	200000	208000	104.0	200000	100.0	203000	101.5	201000	100.5
Lead		1000	-1.10		969	96.9	1.40		973	97.3
Lithium		500	5.50		520	104.0	1.30		531	106.2
Magnesium	500000	500000	536000	107.2	507000	101.4	528000	105.6	520000	104.0
Manganese		500	5.30		506	101.2	3.90		520	104.0
Molybdenum		500	4.20		496	99.2	3.70		497	99.4
Nickel		1000	-1.30		950	95.0	-1.30		966	96.6
Phosphorus		500	18.3		500	100.0	20.8		507	101.4
Potassium			47.7		16.0		-46.3		1.80	
Selenium		1000	-0.600		996	99.6	-7.60		996	99.6
Silicon		500	-8.50		509	101.8	-6.00		512	102.4
Silver		1000	4.00		1050	105.0	0.500		1070	107.0
Sodium			37.8		42.7		38.5		60.1	
Strontium		500	-6.60		574	114.8	-6.40		582	116.4
Sulfur		500	-16.1		439	87.8	-13.2		439	87.8
Thallium		1000	1.60		1020	102.0	4.00		1020	102.0
Tin		500	-4.20		476	95.2	-3.50		483	96.6
Titanium		500	3.20		500	100.0	3.40		508	101.6
Tungsten		500	11.6		493	98.6	12.7		497	99.4
Vanadium		500	-1.50		490	98.0	-0.900		501	100.2
Zinc		1000	0.800		923	92.3	1.00		931	93.1

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

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

File ID: SF120718M1.ICP Date Analyzed: 12/07/18 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA45805 Units: ug/l

Time:			12:57		13:02		18:21		18:26	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zirconium		500	-7.20		475	95.0	-7.00		491	98.2

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 12/05/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	52	.91	8.3		
Antimony	2.1	.021	.42		
Arsenic	2.1	.093	.29	-0.062	<2.1
Barium	21	.021	2	0.010	<21
Beryllium	0.21	.01	.082		
Bismuth	2.1	.12	.54		
Boron	10	.18	1.5		
Cadmium	0.52	.01	.072	0.010	<0.52
Calcium	520	.33	46		
Chromium	1.0	.031	.38	0.11	<1.0
Cobalt	5.2	.021	.29		
Copper	2.6	.062	.87		
Iron	52	.2	20		
Lead	2.1	.12	.42	0.062	<2.1
Lithium	5.2	.082	.95		
Magnesium	520	1.7	14		
Manganese	1.5	.01	.42		
Molybdenum	2.1	.031	.33		
Nickel	4.1	.031	.36		
Phosphorus	21	.15	3.4		
Potassium	1000	4.7	33		
Selenium	2.1	.2	.67	-0.052	<2.1
Silicon	21	.15	11		
Silver	0.52	.041	.18	0.021	<0.52
Sodium	1000	1	80		
Strontium	5.2	.01	.19		
Sulfur	10	.27	9.7		
Thallium	1.0	.25	.6		
Tin	21	.082	3.9		
Titanium	1.0	.01	.35		
Tungsten	5.2	.11	1.8		
Vanadium	5.2	.021	.2		
Zinc	5.2	.01	2.4		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 12/05/18

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.1	.021	.24		

Associated samples MP11070: JC78619-2

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 12/05/18

Metal	JC78941-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	10.9	304	303	96.7	75-125
Barium	321	661	303	112.2	75-125
Beryllium	anr				
Bismuth					
Boron					
Cadmium	2.6	293	303	95.8	75-125
Calcium	anr				
Chromium	165	460	303	97.4	75-125
Cobalt					
Copper					
Iron					
Lead	2550	2530	303	-6.6 (a)	75-125
Lithium					
Magnesium	anr				
Manganese					
Molybdenum					
Nickel	anr				
Potassium					
Selenium	2.0	288	303	94.4	75-125
Silicon					
Silver	0.0	33.2	37.9	87.6	75-125
Sodium					
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc	anr				
Zirconium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 12/05/18

Metal	JC78941-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits

Associated samples MP11070: JC78619-2

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 12/05/18

Metal	JC78941-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	10.9	290	306	91.2	4.7	20
Barium	321	677	306	116.3	2.4	20
Beryllium	anr					
Bismuth						
Boron						
Cadmium	2.6	289	306	93.6	1.4	20
Calcium	anr					
Chromium	165	459	306	96.0	0.2	20
Cobalt						
Copper						
Iron						
Lead	2550	3110	306	183.0(a)	20.6 (b)	20
Lithium						
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	anr					
Potassium						
Selenium	2.0	279	306	90.5	3.2	20
Silicon						
Silver	0.0	33.1	38.3	86.5	0.3	20
Sodium						
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc	anr					
Zirconium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 12/05/18

Metal	JC78941-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit

Associated samples MP11070: JC78619-2

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 12/05/18

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	196	196	100.0	80-120
Barium	198	196	101.0	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	197	196	100.5	80-120
Calcium	anr			
Chromium	200	196	102.0	80-120
Cobalt				
Copper	anr			
Iron				
Lead	195	196	99.5	80-120
Lithium				
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	192	196	97.9	80-120
Silicon				
Silver	23.9	24.5	97.5	80-120
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	anr			

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 12/05/18

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP11070: JC78619-2

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 12/05/18

Metal	JC78941-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	69.0	64.1	7.1	0-10
Barium	2040	2020	0.5	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	16.3	16.1	1.2	0-10
Calcium	anr			
Chromium	1040	1100	5.0	0-10
Cobalt				
Copper	anr			
Iron				
Lead	16200	18100	11.6*(a)	0-10
Lithium				
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	12.4	11.2	9.7	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11070
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 12/05/18

Metal	JC78941-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP11070: JC78619-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11075 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 12/05/18

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0028	.015	-0.0014	<0.033

Associated samples MP11075: JC78619-2

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11075
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 12/05/18

Metal	JC78941-1 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	2.8	2.5	0.457	-65.7(a)	80-120

Associated samples MP11075: JC78619-2

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11075 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 12/05/18

Metal	JC78941-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	2.8	3.4	0.463	129.6(a)	30.5 (b)	20

Associated samples MP11075: JC78619-2

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC78619A
Account: TCMAW - Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

QC Batch ID: MP11075
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 12/05/18

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.30	0.333	90.0	80-120

Associated samples MP11075: JC78619-2

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

Instrument Detection Limits

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Instrument ID: LEEMANHG8 **Effective Date:** 08/15/18

Analyte	IDL ug/l
Mercury	.0166

The above applies to the following instrument runs:
MA45785

Instrument Detection Limits

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Instrument ID: SSTRACE5 **Effective Date:** 07/05/18

Analyte	IDL ug/l
Aluminum	14.1
Antimony	.2
Arsenic	.9
Barium	.3
Beryllium	.1
Bismuth	2.6
Boron	1.7
Cadmium	.3
Calcium	3.8
Chromium	.4
Cobalt	.2
Copper	.6
Iron	3.4
Lead	1.2
Lithium	2.6
Magnesium	22.5
Manganese	.1
Molybdenum	.3
Nickel	.6
Phosphorus	3
Potassium	57.8
Selenium	1.9
Silicon	1.5
Silver	.7
Sodium	15.6
Sulfur	2.6
Strontium	.1
Thallium	.7
Tin	.8
Titanium	.4
Tungsten	1.1
Vanadium	.3
Zinc	.1
Zirconium	.4

The above applies to the following instrument runs:
MA45789

Instrument Detection Limits

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Instrument ID: SSTRACE6 **Effective Date:** 07/11/18

Analyte	IDL ug/l
Aluminum	8.8
Antimony	1
Arsenic	1.2
Barium	.2
Beryllium	.1
Bismuth	1.2
Boron	1.8
Cadmium	.1
Calcium	3.2
Chromium	.3
Cobalt	.3
Copper	1.3
Iron	1.9
Lead	1.2
Lithium	.8
Magnesium	16.2
Manganese	.1
Molybdenum	.4
Nickel	.3
Phosphorus	1.5
Potassium	45.9
Selenium	2
Silicon	1.7
Silver	.4
Sodium	9.8
Sulfur	3.7
Strontium	.1
Thallium	2.4
Tin	.9
Titanium	.1
Tungsten	2.1
Vanadium	.2
Zinc	.1
Zirconium	.2

The above applies to the following instrument runs:
MA45795,MA45805

Instrument Linear Ranges

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Instrument ID: LEEMANHG8 **Effective Date:** 03/10/17

Analyte	Linear Range ug/l
Mercury	5

The above applies to the following instrument runs:
MA45785

Instrument Linear Ranges

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

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

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

The above applies to the following instrument runs:
MA45789

Instrument Linear Ranges

Job Number: JC78619A
Account: TCMAW Tantara Corporation
Project: USACE Buffalo Nike Missle UST, East Aurora, NY

Instrument ID: SSTRACE6 **Effective Date:** 07/16/18

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

The above applies to the following instrument runs:
MA45795,MA45805

Metals Analysis

Raw Data

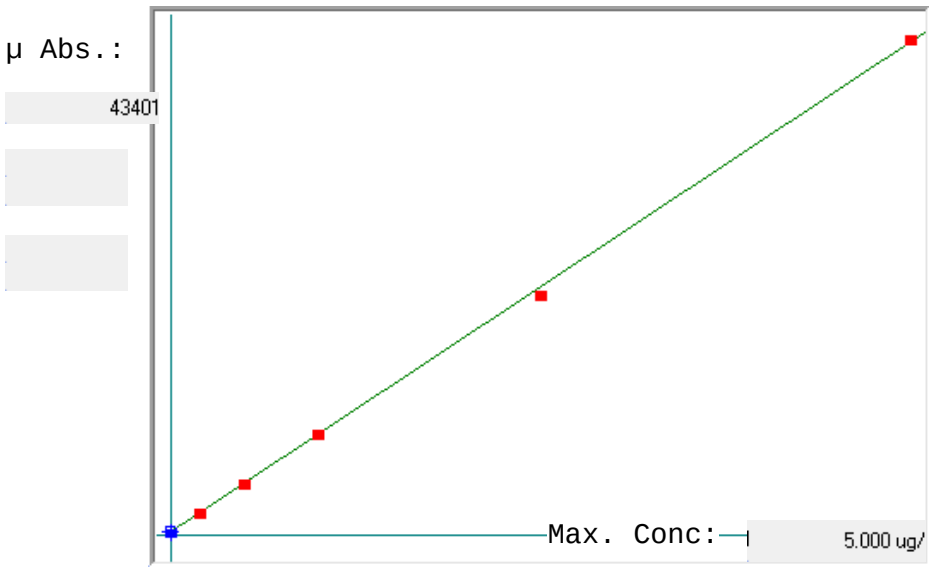
MA45785

Method: ACCUTEST Operator: Admin Date of Analysis: 05 Dec 2018 13:15:10

Sample ID	Date	Type	Units	Conc.	µ Abs.	Wt.	Vol.
STDA - 1	05 Dec 2018 13:24:36	Std	ug/l	-	390	1.000	1.000
STDB - 1	05 Dec 2018 13:25:55	Std	ug/l	-	2023	1.000	1.000
STDC - 1	05 Dec 2018 13:27:15	Std	ug/l	-	4550	1.000	1.000
STDD - 1	05 Dec 2018 13:28:42	Std	ug/l	-	9000	1.000	1.000
STDE - 1	05 Dec 2018 13:30:15	Std	ug/l	-	21077	1.000	1.000
STDF - 1	05 Dec 2018 13:31:53	Std	ug/l	-	43401	1.000	1.000
ICV - 1	05 Dec 2018 13:34:22	CK STND	ug/l	104.5% 3.1365	27156	1.000	1.000
ICB - 1	05 Dec 2018 13:35:47	CK STND	ug/l	-0.0117	156	1.000	1.000
CCV - 1	05 Dec 2018 13:37:34	CK STND	ug/l	97.1% 2.4268	21070	1.000	1.000
CCB - 1	05 Dec 2018 13:38:54	CK STND	ug/l	-0.0150	128	1.000	1.000
CRI - 1	05 Dec 2018 13:40:38	CK STND	ug/l	103.4% 0.2068	2030	1.000	1.000
MP11075-MB1 - 1	05 Dec 2018 13:46:40	SMPL	ug/l	-0.0084	184	1.000	1.000
MP11075-B1 - 1	05 Dec 2018 13:47:56	SMPL	ug/l	1.7730	15462	1.000	1.000
MP11075-S1 - 1	05 Dec 2018 13:49:13	SMPL	ug/l	10.8773	18914	1.000	5.000
MP11075-S2 - 1	05 Dec 2018 13:50:59	SMPL	ug/l	14.8999	25814	1.000	5.000
JC78941-1 - 1	05 Dec 2018 13:52:45	SMPL	ug/l	12.4549	21620	1.000	5.000
MP11075-S3 - 1	05 Dec 2018 13:54:36	SMPL	ug/l	5.0895	22081	1.000	2.000
MP11075-S4 - 1	05 Dec 2018 13:56:26	SMPL	ug/l	4.9896	21653	1.000	2.000
JC79057-1 - 1	05 Dec 2018 13:58:17	SMPL	ug/l	4.1378	35744	1.000	1.000
CCV - 1	05 Dec 2018 14:00:11	CK STND	ug/l	95.0% 2.3759	20633	1.000	1.000
CCB - 1	05 Dec 2018 14:02:12	CK STND	ug/l	-0.0068	198	1.000	1.000
JC78941-4 - 1	05 Dec 2018 14:03:57	SMPL	ug/l	0.1371	1432	1.000	1.000
JC78982-1 - 1	05 Dec 2018 14:05:17	SMPL	ug/l	0.0308	520	1.000	1.000
JC78982-2 - 1	05 Dec 2018 14:06:42	SMPL	ug/l	0.0150	385	1.000	1.000
JC78982-3 - 1	05 Dec 2018 14:08:04	SMPL	ug/l	0.0292	507	1.000	1.000
JC78967-1 - 1	05 Dec 2018 14:09:24	SMPL	ug/l	-0.0439	-120	1.000	1.000
JC79057-2 - 1	05 Dec 2018 14:10:43	SMPL	ug/l	3.4009	29424	1.000	1.000
JC78829-1R - 1	05 Dec 2018 14:12:01	SMPL	ug/l	1.3986	12251	1.000	1.000
JC78619-2 - 1	05 Dec 2018 14:13:57	SMPL	ug/l	-0.0616	-272	1.000	1.000
CRI - 1	05 Dec 2018 14:15:42	CK STND	ug/l	104.3% 0.2087	2046	1.000	1.000
CCV - 1	05 Dec 2018 14:17:00	CK STND	ug/l	96.3% 2.4084	20912	1.000	1.000
CCB - 1	05 Dec 2018 14:18:28	CK STND	ug/l	-0.0084	184	1.000	1.000

ACCUTEST

Linear



A= 0.0000e+000

B= 1.1660e-004

C= -2.9879e-002

Rho= 0.9998147

Accept=Accepted

Accepted Date=

12/05/18 13:34

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
STDA	0.000	0.016	0.016	390	0.000	390				
STDB	0.200	0.206	0.006	2023	0.0 %	2023				
STDC	0.500	0.501	0.001	4550	0.0 %	4550				
STDD	1.000	1.020	0.020	9000	0.0 %	9000				
STDE	2.500	2.428	-0.072	21077	0.0 %	21077				
STDF	5.000	5.031	0.031	43401	0.0 %	43401				

Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 12/5/2018 19:09:12 Type: Cal
Method: SGS 3(v280) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0045**	**-.0004**	**.0002**	**-.0004**	**-.0000**	**.0044**	**.0000**	**-.0001**	**-.0006**
Stddev	.0002	.0000	.0001	.0000	.0000	.0001	.0000	.0000	.0000
%RSD	4.814	12.81	38.02	6.162	24.74	1.755	17.05	41.88	2.012
#1	.0047	-.0004	.0001	-.0004	-.0000	.0045	.0001	-.0001	-.0007
#2	.0043	-.0004	.0003	-.0004	-.0000	.0044	.0000	-.0001	-.0006
#3	.0043	-.0003	.0002	-.0004	-.0000	.0044	.0000	-.0001	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**.0004**	**-.0002**	**-.0002**	**.0003**	**.0003**	**-.0003**	**-.0015**	**.0055**
Stddev	.0000	.0001	.0001	.0001	.0002	.0002	.0003	.0001	.0001
%RSD	28.58	33.35	67.74	37.43	64.42	74.62	113.3	4.279	1.282
#1	-.0000	.0003	-.0002	-.0003	.0002	.0005	.0001	-.0014	.0054
#2	-.0001	.0005	-.0002	-.0002	.0001	.0002	-.0003	-.0015	.0055
#3	-.0001	.0003	-.0000	-.0001	.0004	.0001	-.0005	-.0015	.0055

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**-.0000**	**.0027**	**-.0010**	**.0007**	**.0002**	**.0051**	**.0002**	**.0000**
Stddev	.0001	.0001	.0004	.0003	.0002	.0001	.0002	.0000	.0001
%RSD	453.2	2209.	15.78	27.54	22.76	65.71	3.702	14.58	169.0
#1	-.0001	-.0001	.0031	-.0013	.0007	.0001	.0053	.0002	.0001
#2	.0000	.0001	.0028	-.0009	.0006	.0001	.0051	.0002	-.0000
#3	.0001	-.0000	.0022	-.0008	.0009	.0003	.0049	.0003	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**.0016**	**-.0001**	**-.0009**	**-.0013**	**.0016**	**-.0064**
Stddev	.0000	.0002	.0000	.0001	.0002	.0006	.0001
%RSD	222.7	13.58	6.327	16.27	15.30	40.74	1.976
#1	.0000	.0015	-.0001	-.0008	-.0015	.0023	-.0062
#2	-.0000	.0018	-.0002	-.0009	-.0011	.0014	-.0065
#3	.0000	.0014	-.0002	-.0010	-.0013	.0011	-.0065

Sample Name: STDA Acquired: 12/5/2018 19:09:12 Type: Cal
Method: SGS 3(v280) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103700.**	**19393.**	**4291.2**	**9506.8**
Stddev	295.	80.	2.0	10.4
%RSD	.28452	.41416	.04675	.10956
#1	103740.	19302.	4293.5	9511.4
#2	103980.	19454.	4290.6	9494.8
#3	103390.	19425.	4289.6	9514.0

Sample Name: STDB Acquired: 12/5/2018 19:14:26 Type: Cal
Method: SGS 3(v280) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**6.563**	**6.073**	**3.329**	**2.101**	**.2869**	**.7356**	**1.519**	**1.418**	**.0552**
Stddev	.013	.014	.029	.017	.0002	.0004	.001	.012	.0001
%RSD	.1917	.2255	.8623	.8160	.0664	.0570	.0848	.8519	.2495
#1	6.577	6.089	3.346	2.110	.2869	.7361	1.520	1.424	.0553
#2	6.557	6.062	3.296	2.081	.2871	.7354	1.520	1.404	.0550
#3	6.554	6.069	3.344	2.111	.2867	.7354	1.518	1.426	.0553

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4743**	**5.504**	**.4813**	**.2495**	**.7312**	**.4246**	**.7384**	**2.771**	**4.208**
Stddev	.0006	.053	.0052	.0037	.0061	.0044	.0070	.006	.007
%RSD	.1217	.9723	1.071	1.484	.8375	1.043	.9447	.2072	.1692
#1	.4746	5.531	.4844	.2519	.7344	.4274	.7415	2.777	4.216
#2	.4746	5.442	.4754	.2453	.7241	.4195	.7304	2.769	4.207
#3	.4736	5.538	.4842	.2514	.7350	.4269	.7433	2.766	4.201

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.786**	**.3362**	**2.042**	**6.514**	**.9547**	**3.797**	**2.619**	**.8898**	**11.17**
Stddev	.004	.0009	.005	.017	.0078	.039	.022	.0106	.14
%RSD	.2332	.2624	.2672	.2574	.8177	1.033	.8543	1.186	1.252
#1	1.790	.3368	2.048	6.532	.9592	3.818	2.633	.8962	11.27
#2	1.783	.3352	2.040	6.513	.9456	3.752	2.593	.8776	11.01
#3	1.784	.3367	2.038	6.498	.9591	3.822	2.632	.8956	11.23

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2123**	**1.860**	**1.332**	**.2357**	**.8364**	**2.289**	**.5054**
Stddev	.0004	.018	.002	.0034	.0072	.004	.0083
%RSD	.1780	.9794	.1181	1.452	.8595	.1978	1.647
#1	.2122	1.870	1.333	.2377	.8409	2.294	.5109
#2	.2119	1.839	1.332	.2318	.8281	2.286	.4958
#3	.2127	1.870	1.330	.2377	.8401	2.286	.5094

Sample Name: STDB Acquired: 12/5/2018 19:14:26 Type: Cal
Method: SGS 3(v280) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96136.**	**19053.**	**4045.2**	**8175.4**
Stddev	72.	94.	29.6	54.9
%RSD	.07513	.49283	.73236	.67176
#1	96143.	18947.	4034.3	8154.7
#2	96204.	19128.	4078.7	8237.6
#3	96060.	19083.	4022.5	8133.8

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 12/5/2018 19:19:23 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.054**	**2.069**	**2.075**	**2.039**	**2.063**	**2.010**	**2.072**	**2.071**	**.2464**
Stddev	.002	.004	.005	.003	.001	.004	.002	.003	.0005
%RSD	.1169	.1941	.2198	.1611	.0379	.1891	.1174	.1491	.2049
#1	2.054	2.064	2.080	2.041	2.064	2.013	2.074	2.071	.2469
#2	2.056	2.071	2.071	2.041	2.062	2.010	2.073	2.073	.2460
#3	2.051	2.071	2.073	2.035	2.063	2.005	2.070	2.067	.2462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.045**	**2.085**	**1.988**	**2.155**	**2.076**	**2.056**	**1.959**	**39.16**	**39.59**
Stddev	.002	.001	.003	.010	.002	.005	.003	.05	.08
%RSD	.1005	.0523	.1568	.4544	.0721	.2528	.1628	.1165	.1977
#1	2.047	2.085	1.986	2.147	2.078	2.051	1.962	39.15	39.50
#2	2.043	2.084	1.992	2.153	2.075	2.055	1.959	39.20	39.65
#3	2.045	2.086	1.987	2.166	2.076	2.061	1.955	39.11	39.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.95**	**39.59**	**39.07**	**39.36**	**2.044**	**1.968**	**4.881**	**2.012**	**2.052**
Stddev	.06	.07	.02	.06	.003	.002	.004	.002	.002
%RSD	.1541	.1784	.0611	.1620	.1552	.1076	.0728	.0863	.0901
#1	39.89	39.53	39.06	39.43	2.047	1.970	4.885	2.012	2.052
#2	40.01	39.67	39.10	39.36	2.044	1.968	4.882	2.010	2.054
#3	39.95	39.57	39.05	39.30	2.041	1.966	4.878	2.013	2.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 12/5/2018 19:19:23 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.954**	**1.966**	**1.941**	**1.993**	**2.004**	**1.981**	**2.091**
Stddev	.001	.002	.001	.005	.006	.004	.009
%RSD	.0671	.0801	.0708	.2598	.3115	.2297	.4389
#1	1.956	1.968	1.942	1.987	2.010	1.983	2.082
#2	1.953	1.965	1.941	1.996	1.998	1.984	2.089
#3	1.954	1.965	1.939	1.995	2.003	1.975	2.100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99092.**	**19132.**	**4140.3**	**8485.5**
Stddev	246.	34.	5.1	12.9
%RSD	.24870	.17655	.12273	.15204
#1	99224.	19093.	4137.4	8483.7
#2	99244.	19151.	4137.3	8473.6
#3	98808.	19151.	4146.2	8499.2

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 12/5/2018 19:24:15 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0003**	**.0003**	**.0001**	**-.0010**	**.0001**	**.0002**	**.0000**
Stddev	.0002	.0001	.0001	.0001	.0003	.0002	.0001	.0003	.0003
%RSD	1405.	788.2	50.83	30.11	277.4	24.42	79.23	202.5	610.3
#1	.0002	.0000	.0001	.0003	.0001	-.0009	.0000	.0003	.0003
#2	-.0000	-.0001	.0003	.0003	-.0002	-.0012	.0001	-.0002	.0001
#3	-.0001	.0001	.0004	.0002	.0003	-.0008	.0002	.0004	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0002**	**.0004**	**.0007**	**.0008**	**.0003**	**.0009**	**.0015**	**-.0002**
Stddev	.0003	.0001	.0005	.0004	.0009	.0009	.0006	.0017	.0022
%RSD	79.45	38.53	104.8	50.65	110.1	289.7	69.46	112.0	1426.
#1	.0002	.0001	.0002	.0006	-.0001	-.0007	.0002	-.0004	-.0024
#2	.0007	.0002	.0010	.0004	.0009	.0007	.0014	.0025	-.0002
#3	.0002	.0003	.0002	.0011	.0017	.0009	.0012	.0026	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0090**	**.0245**	**.0043**	**.0019**	**.0010**	**.0016**	**.0008**	**.0000**
Stddev	.0008	.0090	.0293	.0032	.0002	.0001	.0007	.0005	.0000
%RSD	23.28	99.27	119.6	73.69	8.400	9.285	44.77	56.32	80.37
#1	.0024	.0190	.0153	.0074	.0020	.0010	.0025	.0014	.0000
#2	.0036	.0015	.0009	.0011	.0019	.0010	.0012	.0005	.0001
#3	.0038	.0066	.0572	.0044	.0017	.0009	.0013	.0007	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 12/5/2018 19:24:15 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0026**	**.0001**	**-.0030**	**.0005**	**-.0002**	**.0000**
Stddev	.0004	.0001	.0000	.0005	.0003	.0020	.0006
%RSD	49.57	3.800	34.47	16.51	56.62	1153.	4307.
#1	.0005	.0026	.0001	-.0026	.0002	.0013	.0003
#2	.0008	.0027	.0001	-.0036	.0006	-.0024	.0005
#3	.0014	.0025	.0002	-.0028	.0008	.0007	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103950.**	**19280.**	**4277.7**	**9475.0**
Stddev	390.	31.	15.1	27.4
%RSD	.37476	.16281	.35239	.28879
#1	103780.	19244.	4266.2	9446.2
#2	103670.	19291.	4294.8	9500.6
#3	104400.	19304.	4272.2	9478.2

Zoom In Zoom Out

Sample Name: icv 7 Acquired: 12/5/2018 19:29:33 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.038**	**2.063**	**2.058**	**2.021**	**2.034**	**1.988**	**2.051**	**2.052**	**.2430**
Stddev	.010	.004	.003	.003	.002	.001	.001	.004	.0008
%RSD	.4950	.2157	.1288	.1367	.0980	.0693	.0618	.1696	.3184
#1	2.049	2.068	2.061	2.023	2.032	1.987	2.051	2.055	.2421
#2	2.029	2.062	2.056	2.022	2.035	1.988	2.052	2.053	.2433
#3	2.036	2.060	2.056	2.018	2.036	1.989	2.049	2.048	.2436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.019**	**2.070**	**1.976**	F **2.150**	**2.059**	**2.043**	**1.942**	**38.93**	**39.42**
Stddev	.003	.003	.003	.012	.002	.002	.003	.15	.12
%RSD	.1521	.1224	.1519	.5668	.1028	.1030	.1669	.3798	.3089
#1	2.016	2.072	1.973	2.140	2.059	2.042	1.942	39.10	39.51
#2	2.018	2.070	1.979	2.163	2.062	2.042	1.938	38.83	39.47
#3	2.022	2.067	1.975	2.147	2.058	2.046	1.944	38.87	39.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				5.000%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.87**	**39.61**	**38.76**	**39.10**	**2.026**	**1.954**	**4.863**	**2.000**	**2.034**
Stddev	.07	.16	.18	.17	.002	.002	.003	.002	.011
%RSD	.1779	.3977	.4555	.4243	.1089	.1194	.0577	.1090	.5501
#1	39.95	39.67	38.96	39.29	2.026	1.952	4.866	1.998	2.046
#2	39.83	39.73	38.65	39.01	2.029	1.957	4.860	2.003	2.024
#3	39.82	39.43	38.66	39.00	2.024	1.953	4.862	2.000	2.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: icv 7 Acquired: 12/5/2018 19:29:33 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.937**	**1.945**	**1.920**	**1.996**	**1.989**	**1.966**	**2.091**
Stddev	.012	.001	.001	.008	.004	.009	.012
%RSD	.6122	.0449	.0699	.4066	.1977	.4807	.5645
#1	1.947	1.944	1.918	1.987	1.993	1.976	2.080
#2	1.940	1.945	1.921	2.004	1.986	1.958	2.103
#3	1.924	1.944	1.921	1.996	1.988	1.962	2.090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99293.**	**19068.**	**4138.3**	**8486.7**
Stddev	198.	113.	10.1	23.3
%RSD	.19966	.59059	.24436	.27399
#1	99415.	19004.	4141.6	8491.4
#2	99064.	19001.	4126.9	8461.4
#3	99399.	19198.	4146.3	8507.2

Zoom In Zoom Out

Sample Name: icb Acquired: 12/5/2018 19:34:24 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	**.0002**	**.0002**	**.0004**	**-.0005**	**.0001**	**.0003**	**-.0004**
Stddev	.0000	.0000	.0001	.0003	.0000	.0003	.0000	.0002	.0003
%RSD	633.2	25.11	21.00	171.6	12.78	70.78	35.65	60.68	74.43
#1	.0000	.0002	.0003	-.0001	.0004	-.0001	.0001	.0005	-.0003
#2	.0000	.0001	.0002	.0002	.0003	-.0005	.0002	.0001	-.0008
#3	-.0000	.0002	.0002	.0005	.0004	-.0008	.0001	.0004	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0003**	**.0016**	**-.0002**	**.0006**	**.0004**	**.0006**	**-.0044**	**.0013**
Stddev	.0003	.0000	.0008	.0013	.0008	.0016	.0009	.0109	.0016
%RSD	71.68	6.654	49.31	635.0	140.1	449.9	146.3	248.0	126.0
#1	.0002	.0003	.0019	.0011	.0014	.0021	.0010	-.0119	-.0006
#2	.0007	.0003	.0022	-.0014	-.0000	-.0011	-.0004	-.0094	.0024
#3	.0003	.0003	.0007	-.0003	.0003	.0001	.0011	.0081	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**-.0135**	**.0110**	**.0086**	**.0009**	**.0006**	**.0015**	**.0007**	**.0001**
Stddev	.0034	.0144	.0093	.0015	.0004	.0002	.0002	.0005	.0001
%RSD	115.7	106.9	84.39	17.97	45.24	26.73	13.92	69.93	80.43
#1	-.0009	-.0258	.0167	.0101	.0004	.0008	.0013	.0001	.0000
#2	.0055	.0024	.0003	.0070	.0012	.0005	.0014	.0009	.0001
#3	.0042	-.0170	.0160	.0087	.0010	.0006	.0017	.0010	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icb Acquired: 12/5/2018 19:34:24 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0012**	**.0002**	**-.0004**	**-.0008**	**.0019**	**-.0003**
Stddev	.0003	.0002	.0001	.0025	.0015	.0002	.0008
%RSD	98.45	17.61	64.39	608.2	187.7	8.631	246.6
#1	.0004	.0014	.0001	.0024	-.0005	.0018	-.0012
#2	.0007	.0011	.0001	-.0019	-.0025	.0019	.0003
#3	-.0000	.0010	.0003	-.0017	.0005	.0021	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103950.**	**19361.**	**4270.2**	**9455.6**
Stddev	276.	76.	16.6	34.0
%RSD	.26532	.39289	.38820	.35945
#1	103880.	19334.	4279.7	9469.2
#2	103720.	19303.	4279.9	9480.7
#3	104260.	19447.	4251.1	9417.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 19:39:44 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.068**	**2.086**	**2.087**	**2.050**	**2.072**	**2.027**	**2.084**	**2.079**	**.2480**
Stddev	.013	.019	.006	.001	.007	.006	.002	.003	.0011
%RSD	.6352	.9298	.2844	.0314	.3212	.3168	.1112	.1417	.4575
#1	2.083	2.107	2.092	2.050	2.080	2.034	2.085	2.082	.2493
#2	2.060	2.081	2.090	2.050	2.068	2.023	2.085	2.076	.2472
#3	2.062	2.069	2.081	2.049	2.069	2.024	2.081	2.079	.2474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.055**	**2.096**	**2.000**	**2.152**	**2.085**	**2.065**	**1.970**	**39.41**	**39.89**
Stddev	.002	.003	.009	.021	.001	.012	.003	.29	.27
%RSD	.0875	.1557	.4486	.9823	.0522	.5558	.1488	.7259	.6688
#1	2.057	2.100	2.004	2.158	2.086	2.071	1.972	39.74	40.19
#2	2.054	2.095	2.006	2.170	2.084	2.072	1.972	39.29	39.81
#3	2.054	2.094	1.990	2.129	2.084	2.052	1.967	39.21	39.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.23**	**39.86**	**39.26**	**39.63**	**2.052**	**1.978**	**4.898**	**2.018**	**2.067**
Stddev	.36	.37	.18	.28	.006	.006	.016	.009	.012
%RSD	.8973	.9403	.4551	.7031	.2882	.3226	.3156	.4424	.5743
#1	40.63	40.24	39.46	39.95	2.055	1.980	4.910	2.018	2.081
#2	40.11	39.84	39.15	39.46	2.056	1.983	4.903	2.027	2.058
#3	39.94	39.49	39.16	39.49	2.045	1.971	4.880	2.009	2.062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 19:39:44 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.976**	**1.972**	**1.951**	**1.994**	**2.017**	**1.992**	**2.094**
Stddev	.004	.003	.003	.019	.009	.013	.024
%RSD	.1809	.1725	.1256	.9566	.4415	.6439	1.158
#1	1.973	1.975	1.953	1.998	2.025	2.006	2.100
#2	1.976	1.974	1.949	2.010	2.019	1.982	2.115
#3	1.980	1.969	1.950	1.973	2.007	1.986	2.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98753.**	**19118.**	**4121.9**	**8452.9**
Stddev	304.	134.	19.9	30.6
%RSD	.30822	.69907	.48246	.36259
#1	98424.	18979.	4110.7	8432.9
#2	99024.	19129.	4110.2	8437.7
#3	98811.	19246.	4144.9	8488.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 19:44:36 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	F **.0002**	F **.0010**	**.0010**	**.0006**	**.0002**	**.0005**	**.0011**	**-.0004**
Stddev	.0001	.0001	.0001	.0003	.0002	.0004	.0002	.0003	.0001
%RSD	89.21	21.20	5.505	32.15	36.37	223.4	37.57	30.32	31.46
#1	.0003	.0002	.0010	.0008	.0004	-.0002	.0003	.0014	-.0005
#2	.0000	.0002	.0009	.0014	.0005	.0001	.0004	.0008	-.0005
#3	.0002	.0003	.0010	.0010	.0008	.0006	.0006	.0009	-.0003
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002	.0007						
Low Limit		-.0002	-.0007						

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0009**	**.0026**	**.0008**	**.0006**	**.0003**	**.0008**	**-.0019**	**.0041**
Stddev	.0002	.0001	.0011	.0004	.0002	.0027	.0013	.0064	.0020
%RSD	35.67	13.61	41.48	56.71	37.44	843.9	173.8	333.4	48.97
#1	.0008	.0007	.0035	.0009	.0005	-.0027	-.0003	-.0086	.0031
#2	.0006	.0009	.0014	.0003	.0008	.0027	.0003	-.0014	.0028
#3	.0004	.0010	.0029	.0012	.0004	.0010	.0023	.0042	.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**.0022**	**.0208**	**.0107**	**.0022**	**.0012**	**.0035**	**.0011**	**.0001**
Stddev	.0016	.0132	.0138	.0016	.0001	.0002	.0005	.0003	.0001
%RSD	47.80	598.4	66.27	15.00	3.351	12.94	13.49	32.12	64.68
#1	.0021	.0006	.0352	.0091	.0022	.0011	.0038	.0011	.0000
#2	.0050	.0162	.0194	.0108	.0023	.0014	.0038	.0014	.0001
#3	.0027	-.0101	.0078	.0123	.0021	.0012	.0030	.0007	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 19:44:36 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0023**	**.0003**	**-.0009**	**.0004**	**.0014**	**.0009**
Stddev	.0003	.0007	.0001	.0018	.0002	.0014	.0001
%RSD	21.05	32.42	37.18	203.3	53.54	102.1	11.08
#1	.0014	.0031	.0002	.0002	.0006	-.0002	.0010
#2	.0016	.0016	.0004	.0001	.0005	.0019	.0008
#3	.0011	.0022	.0004	-.0030	.0002	.0025	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103110.**	**19349.**	**4267.0**	**9454.0**
Stddev	263.	67.	9.8	16.7
%RSD	.25476	.34661	.22994	.17657
#1	103250.	19367.	4277.2	9459.4
#2	102800.	19274.	4257.7	9435.3
#3	103270.	19404.	4266.3	9467.4

Zoom In Zoom Out

Sample Name: CRI Acquired: 12/5/2018 19:49:54 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2052**	**.0022**	**.0033**	**.0499**	**.0106**	**.0102**	**.0162**	**.0104**	**.0052**
Stddev	.0005	.0001	.0002	.0002	.0002	.0005	.0001	.0001	.0001
%RSD	.2667	3.982	6.382	.4831	1.960	5.267	.3089	1.268	1.044
#1	.2047	.0021	.0032	.0502	.0105	.0097	.0162	.0103	.0053
#2	.2051	.0023	.0035	.0498	.0105	.0101	.0162	.0105	.0052
#3	.2057	.0022	.0031	.0498	.0109	.0108	.0163	.0103	.0052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0524**	**.0221**	**.0096**	**.0108**	**.0027**	**.0102**	**.0057**	**.2097**	**5.201**
Stddev	.0003	.0002	.0016	.0010	.0009	.0017	.0017	.0107	.009
%RSD	.6227	.7535	16.54	8.908	32.25	16.66	30.34	5.089	.1688
#1	.0526	.0221	.0077	.0116	.0034	.0109	.0055	.2218	5.206
#2	.0521	.0223	.0103	.0110	.0029	.0083	.0041	.2016	5.191
#3	.0527	.0220	.0106	.0097	.0017	.0115	.0076	.2057	5.206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1088**	**5.198**	**4.993**	**5.060**	**.1027**	**.0217**	**.2002**	**.0117**	**.0103**
Stddev	.0005	.021	.013	.012	.0004	.0001	.0008	.0003	.0001
%RSD	.4419	.4133	.2571	.2414	.3908	.2796	.4068	2.635	.5698
#1	.1085	5.174	4.995	5.073	.1022	.0218	.2007	.0114	.0104
#2	.1087	5.214	5.005	5.057	.1029	.0217	.1993	.0120	.0102
#3	.1094	5.206	4.980	5.049	.1028	.0217	.2008	.0117	.0103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CRI Acquired: 12/5/2018 19:49:54 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106**	**.0541**	**.0114**	**.0536**	F **.0244**	**.0536**	**.0534**
Stddev	.0005	.0012	.0001	.0016	.0009	.0014	.0002
%RSD	4.482	2.150	.8375	3.069	3.754	2.702	.4165
#1	.0108	.0537	.0115	.0539	.0254	.0545	.0532
#2	.0110	.0554	.0114	.0518	.0236	.0519	.0535
#3	.0101	.0532	.0113	.0551	.0241	.0543	.0536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					.0200		
Range					20.00%		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102090.**	**19216.**	**4229.9**	**9221.3**
Stddev	289.	101.	4.4	6.4
%RSD	.28317	.52683	.10512	.06940
#1	102220.	19099.	4231.3	9218.8
#2	102290.	19267.	4233.4	9228.6
#3	101760.	19281.	4224.9	9216.5

Zoom In Zoom Out

Sample Name: CRID Acquired: 12/5/2018 19:55:08 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044**	**.0012**	**.0013**	**.0033**	**.0023**	F **.0006**	**.0035**	**.0047**
Stddev	.0002	.0000	.0001	.0002	.0003	.0001	.0000	.0002
%RSD	4.702	.4277	10.77	4.656	14.59	13.70	.7032	3.797
#1	.0044	.0012	.0014	.0035	.0023	.0005	.0035	.0048
#2	.0042	.0012	.0013	.0032	.0020	.0006	.0035	.0045
#3	.0047	.0012	.0012	.0034	.0027	.0005	.0036	.0046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-30.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0001**	**.0025**	F **.0143**	F **.0038**	**.0018**	F **.0001**	**.0039**	F **-.0003**
Stddev	.0001	.0004	.0003	.0010	.0006	.0007	.0013	.0005
%RSD	108.0	14.83	2.407	26.68	35.91	477.9	33.63	145.3
#1	.0001	.0025	.0147	.0033	.0011	-.0006	.0028	.0001
#2	-.0000	.0028	.0141	.0032	.0023	.0008	.0035	-.0002
#3	.0002	.0021	.0141	.0050	.0021	.0003	.0053	-.0009
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value	.0020		.0100	.0030		.0025		.0030
Range	-30.00%		30.00%	20.00%		-30.00%		-30.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1190**	**1.138**	**.0041**	**.1037**	**2.140**	**1.074**	F **-.0004**	**.0001**
Stddev	.0070	.013	.0013	.0083	.046	.011	.0001	.0002
%RSD	5.863	1.148	32.86	8.001	2.170	.9758	16.51	421.8
#1	.1258	1.148	.0029	.1015	2.157	1.085	-.0004	-.0000
#2	.1119	1.123	.0055	.0967	2.087	1.064	-.0004	-.0001
#3	.1191	1.144	.0039	.1128	2.175	1.075	-.0005	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None
Value							.0100	
Range							-30.00%	

Zoom In Zoom Out

Sample Name: CRID Acquired: 12/5/2018 19:55:08 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0001**	**.0000**	**.0008**	F **.0009**	F **-.0001**	F **.0003**	F **.0003**
Stddev	.0003	.0003	.0000	.0006	.0008	.0000	.0005	.0004
%RSD	131.9	376.9	67.51	70.60	82.36	22.73	156.8	135.3
#1	.0001	-.0003	.0001	.0004	.0012	-.0001	.0001	.0003
#2	-.0004	.0001	.0000	.0006	.0001	-.0002	.0009	.0006
#3	-.0005	.0004	.0001	.0014	.0014	-.0001	-.0000	-.0001
Check ?	None	None	None	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value					.0040	.0040	.0040	.0040
Range					-30.00%	-30.00%	-30.00%	-30.00%

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	F **-.0004**	F **.0003**
Stddev	.0002	.0004
%RSD	42.64	143.9
#1	-.0004	.0002
#2	-.0002	.0007
#3	-.0005	-.0001
Check ?	Chk Fail	Chk Fail
Value	.0040	.0040
Range	-30.00%	-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102890.**	**19456.**	**4262.5**	**9403.6**
Stddev	120.	201.	37.7	69.1
%RSD	.11700	1.0346	.88426	.73455
#1	102960.	19342.	4219.0	9324.0
#2	102750.	19689.	4284.7	9448.4
#3	102950.	19338.	4283.7	9438.3

Zoom In Zoom Out

Sample Name: ICSA Acquired: 12/5/2018 20:00:25 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0004**	**-.0011**	**-.0007**	**.0000**	**.0012**	**.0009**	**-.0021**	**.0021**
Stddev	.0001	.0001	.0001	.0004	.0005	.0006	.0001	.0005	.0004
%RSD	1188.	24.03	9.862	52.91	7082.	48.39	8.334	22.62	17.32
#1	.0000	.0003	-.0012	-.0009	.0004	.0007	.0008	-.0023	.0021
#2	-.0002	.0003	-.0011	-.0009	-.0005	.0019	.0010	-.0015	.0025
#3	.0001	.0005	-.0010	-.0003	.0002	.0010	.0008	-.0023	.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0048**	**.0023**	**.0001**	**-.0009**	**.0046**	**-.0013**	**517.0**	**387.0**
Stddev	.0001	.0003	.0020	.0017	.0011	.0012	.0013	3.3	2.6
%RSD	7.187	5.415	85.92	1556.	127.1	25.97	98.89	.6341	.6730
#1	.0014	.0047	.0004	-.0001	.0004	.0032	-.0011	514.6	385.4
#2	.0016	.0047	.0022	.0019	-.0018	.0051	-.0026	520.7	390.0
#3	.0016	.0051	.0043	-.0015	-.0012	.0054	-.0001	515.7	385.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**198.1**	**505.2**	**-.3885**	**.0282**	**-.0051**	**-.0015**	**-.0125**	**.0007**	**-.0015**
Stddev	1.7	5.0	.0114	.0008	.0004	.0007	.0011	.0010	.0001
%RSD	.8812	.9870	2.947	2.844	7.387	47.49	8.977	151.6	6.374
#1	197.2	502.5	-.4017	.0289	-.0047	-.0019	-.0122	.0017	-.0014
#2	200.1	511.0	-.3808	.0273	-.0051	-.0007	-.0138	-.0003	-.0016
#3	197.0	502.2	-.3831	.0284	-.0054	-.0018	-.0116	.0006	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ICSA Acquired: 12/5/2018 20:00:25 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0110**	**-.0030**	**.0135**	**.0160**	**-.0126**	**.0031**
Stddev	.0003	.0018	.0002	.0048	.0009	.0008	.0012
%RSD	38.25	16.49	5.911	35.86	5.454	6.556	37.61
#1	-.0006	.0115	-.0031	.0140	.0150	-.0119	.0043
#2	-.0006	.0124	-.0028	.0084	.0163	-.0135	.0031
#3	-.0011	.0089	-.0031	.0181	.0167	-.0123	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92271.**	**18773.**	**3872.6**	**7539.9**
Stddev	123.	139.	10.9	14.1
%RSD	.13329	.73833	.28245	.18733
#1	92158.	18883.	3868.4	7540.4
#2	92402.	18617.	3885.1	7553.7
#3	92253.	18819.	3864.5	7525.5

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/5/2018 20:05:46 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5154**	**.4945**	**1.045**	**.4957**	**.4941**	**.5064**	**.4993**	**.9979**	**1.030**
Stddev	.0003	.0014	.001	.0005	.0010	.0020	.0007	.0007	.003
%RSD	.0559	.2912	.1026	.1039	.1947	.3881	.1365	.0701	.2419
#1	.5151	.4947	1.044	.4953	.4951	.5077	.4999	.9985	1.032
#2	.5156	.4929	1.046	.4963	.4938	.5074	.4993	.9971	1.032
#3	.5156	.4958	1.045	.4955	.4933	.5041	.4986	.9980	1.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4981**	**.9726**	**1.095**	**1.007**	**.9855**	**1.061**	**1.079**	**514.0**	**387.7**
Stddev	.0005	.0019	.003	.004	.0014	.002	.001	2.9	3.1
%RSD	.0914	.1941	.2601	.4273	.1378	.1438	.0587	.5722	.8075
#1	.4986	.9732	1.092	1.004	.9842	1.061	1.079	511.3	384.1
#2	.4977	.9705	1.097	1.005	.9853	1.059	1.078	517.2	389.2
#3	.4981	.9741	1.097	1.012	.9869	1.062	1.079	513.7	389.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**197.0**	**500.1**	**-.4127**	**.0395**	**.4939**	**.4870**	**.4881**	**.4780**	**.5481**
Stddev	.4	2.0	.0107	.0045	.0027	.0006	.0036	.0022	.0001
%RSD	.2153	.3994	2.581	11.49	.5390	.1166	.7456	.4578	.0273
#1	196.9	500.3	-.4038	.0448	.4910	.4874	.4920	.4756	.5480
#2	196.7	498.0	-.4245	.0370	.4963	.4863	.4875	.4799	.5480
#3	197.5	502.0	-.4099	.0368	.4942	.4872	.4848	.4784	.5483
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/5/2018 20:05:46 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4891**	**.4928**	**.5146**	**.5140**	**.5461**	**.5177**	**.5204**
Stddev	.0014	.0011	.0006	.0010	.0048	.0015	.0024
%RSD	.2814	.2188	.1150	.2020	.8725	.2987	.4678
#1	.4879	.4926	.5140	.5137	.5417	.5195	.5183
#2	.4889	.4940	.5152	.5131	.5454	.5165	.5200
#3	.4906	.4918	.5145	.5151	.5512	.5172	.5231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92312.**	**18837.**	**3872.0**	**7540.4**
Stddev	136.	50.	10.0	14.3
%RSD	.14708	.26795	.25856	.18994
#1	92223.	18895.	3863.2	7527.0
#2	92245.	18816.	3869.9	7538.9
#3	92468.	18800.	3882.9	7555.5

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 12/5/2018 20:10:54 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.016**	**7.919**	**7.771**	**8.030**	**8.286**	**8.150**	**7.999**	**8.029**	**.6049**
Stddev	.141	.064	.068	.082	.016	.008	.025	.087	.0016
%RSD	1.757	.8040	.8750	1.017	.1944	.1033	.3189	1.086	.2647
#1	8.025	7.885	7.720	7.987	8.305	8.156	8.024	7.989	.6064
#2	7.870	7.992	7.848	8.124	8.280	8.154	7.973	8.129	.6051
#3	8.152	7.878	7.743	7.978	8.274	8.140	7.998	7.968	.6032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.195**	**8.358**	**8.137**	**8.420**	**8.139**	**8.106**	**8.149**	**.1883**	**-.1413**
Stddev	.013	.095	.060	.030	.089	.065	.088	.0138	.0018
%RSD	.1536	1.138	.7385	.3558	1.093	.8012	1.075	7.356	1.262
#1	8.208	8.295	8.093	8.393	8.085	8.072	8.092	.2039	-.1406
#2	8.183	8.467	8.205	8.452	8.242	8.181	8.250	.1776	-.1433
#3	8.193	8.312	8.113	8.415	8.090	8.066	8.106	.1833	-.1400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0298**	**-.0089**	**.1927**	**.0441**	**7.909**	**8.222**	**23.73**	**8.511**	**8.030**
Stddev	.0028	.0064	.0252	.0042	.079	.074	.24	.074	.075
%RSD	9.493	71.63	13.08	9.533	1.003	.8963	.9918	.8716	.9370
#1	.0329	-.0016	.1665	.0447	7.859	8.181	23.56	8.458	8.079
#2	.0274	-.0134	.1947	.0397	8.001	8.308	24.00	8.596	8.067
#3	.0291	-.0118	.2168	.0480	7.868	8.179	23.64	8.480	7.943
Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 12/5/2018 20:10:54 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.049**	**8.457**	**7.896**	**100.7**	**8.138**	**7.930**	**8.123**
Stddev	.006	.084	.040	.3	.082	.009	.019
%RSD	.0724	.9940	.5046	.2922	1.010	.1140	.2354
#1	8.052	8.404	7.938	100.5	8.088	7.919	8.104
#2	8.042	8.554	7.890	101.0	8.233	7.935	8.142
#3	8.052	8.413	7.859	100.6	8.092	7.935	8.123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101370.**	**19549.**	**4190.8**	**9095.9**
Stddev	352.	99.	29.1	59.5
%RSD	.34758	.50413	.69366	.65457
#1	101010.	19551.	4209.8	9122.0
#2	101720.	19647.	4157.4	9027.8
#3	101370.	19450.	4205.4	9138.0

Zoom In Zoom Out

Sample Name: hstd Acquired: 12/5/2018 20:16:30 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0022**	**.0010**	**.0014**	**.0024**	**.0030**	**.0026**	**-.0003**	**.0190**
Stddev	.0002	.0001	.0002	.0002	.0002	.0005	.0002	.0004	.0011
%RSD	15.79	2.799	15.78	17.61	10.43	16.10	7.155	155.8	5.717
#1	.0008	.0021	.0009	.0016	.0026	.0027	.0027	-.0001	.0195
#2	.0011	.0023	.0009	.0011	.0024	.0027	.0027	-.0007	.0198
#3	.0011	.0022	.0012	.0013	.0021	.0035	.0024	.0001	.0178
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0180**	**.0065**	**-.0002**	**.0020**	**.0076**	**.0006**	**304.3**	**198.0**
Stddev	.0000	.0005	.0018	.0008	.0011	.0029	.0022	.2	.4
%RSD	1.280	2.952	27.39	463.1	54.09	38.12	390.4	.0794	.1938
#1	.0026	.0175	.0074	.0001	.0008	.0057	.0019	304.3	198.4
#2	.0026	.0179	.0076	-.0011	.0024	.0062	.0018	304.6	198.1
#3	.0025	.0185	.0044	.0005	.0029	.0109	-.0020	304.2	197.6
Check ?	None	None	None	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**190.4**	**296.7**	**198.4**	**198.4**	**.0003**	**.0015**	**.0021**	**.0005**	**.0003**
Stddev	.3	.9	.3	1.6	.0014	.0005	.0018	.0011	.0000
%RSD	.1699	.2957	.1585	.7912	499.1	33.67	86.85	193.4	9.717
#1	190.5	297.5	198.7	199.4	-.0000	.0020	.0008	.0009	.0003
#2	190.7	296.7	198.6	199.1	-.0009	.0010	.0041	-.0006	.0003
#3	190.0	295.8	198.1	196.6	.0018	.0014	.0013	.0013	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd Acquired: 12/5/2018 20:16:30 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0092**	**-.0022**	**.0252**	**.0134**	**.0001**	**.0056**
Stddev	.0002	.0009	.0001	.0027	.0011	.0007	.0006
%RSD	19.18	9.958	6.827	10.64	7.935	1137.	11.27
#1	-.0008	.0101	-.0021	.0254	.0122	.0007	.0064
#2	-.0011	.0082	-.0021	.0224	.0136	-.0007	.0054
#3	-.0008	.0093	-.0023	.0277	.0143	.0001	.0052
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92409.**	**18669.**	**3862.7**	**7536.7**
Stddev	60.	38.	10.6	12.4
%RSD	.06445	.20148	.27412	.16391
#1	92456.	18639.	3869.8	7538.8
#2	92342.	18657.	3850.5	7523.4
#3	92429.	18711.	3867.7	7547.8

Zoom In Zoom Out

Sample Name: feconf Acquired: 12/5/2018 20:21:48 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0005**	W **-.0008**	**-.0002**	**.0009**	**-.0004**	**.0011**	W **-.0014**
Stddev	.0002	.0001	.0002	.0004	.0003	.0002	.0001	.0006
%RSD	42.64	12.26	23.63	161.9	37.34	55.75	12.80	42.19
#1	.0008	.0005	-.0010	-.0007	.0005	-.0004	.0010	-.0018
#2	.0005	.0004	-.0007	-.0001	.0010	-.0006	.0012	-.0016
#3	.0004	.0004	-.0006	.0001	.0011	-.0002	.0010	-.0007

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0028**	**-.0004**	**.0012**	**.0025**	**-.0012**	**.0045**	**.0005**
Stddev	.0001	.0003	.0001	.0010	.0003	.0009	.0009	.0010
%RSD	5.768	11.89	33.00	89.20	12.65	75.98	20.40	199.3
#1	.0024	.0031	-.0005	.0009	.0029	-.0011	.0050	.0001
#2	.0024	.0024	-.0004	.0003	.0022	-.0022	.0051	-.0002
#3	.0026	.0029	-.0002	.0023	.0024	-.0004	.0035	.0016

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059**	**-.0199**	F **209.4**	**.0033**	**.1266**	**.0364**	**-.0015**	**.0014**
Stddev	.0019	.0008	.6	.0110	.0130	.0031	.0008	.0001
%RSD	31.80	3.771	.3067	330.7	10.27	8.582	57.93	4.831
#1	.0074	-.0198	209.7	.0065	.1403	.0338	-.0023	.0014
#2	.0038	-.0193	209.9	.0124	.1144	.0399	-.0006	.0013
#3	.0066	-.0208	208.7	-.0089	.1251	.0356	-.0014	.0015

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0070**	**.0012**	**-.0005**	**.0006**	**.0024**	W **-.0028**	**.0047**	**.0162**
Stddev	.0007	.0003	.0001	.0008	.0008	.0002	.0031	.0004
%RSD	10.50	29.75	18.80	129.7	33.28	6.892	66.90	2.457
#1	-.0078	.0008	-.0004	.0013	.0023	-.0026	.0011	.0158
#2	-.0064	.0012	-.0005	-.0003	.0017	-.0029	.0059	.0162
#3	-.0068	.0015	-.0004	.0008	.0032	-.0029	.0069	.0166

Zoom In Zoom Out

Sample Name: feconf Acquired: 12/5/2018 20:21:48 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0000**	**.0047**
Stddev	.0010	.0017
%RSD	16600.	34.91
#1	.0006	.0034
#2	.0006	.0042
#3	-.0012	.0066

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101930.**	**19344.**	**4217.5**	**9362.1**
Stddev	117.	144.	5.8	10.4
%RSD	.11498	.74231	.13778	.11086
#1	101970.	19285.	4218.2	9358.7
#2	102020.	19239.	4211.4	9353.8
#3	101800.	19508.	4223.0	9373.7

Zoom In Zoom Out

Sample Name: crconf Acquired: 12/5/2018 20:27:04 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**.0004**	**.0008**	F **10.37**	**-.0003**	**-.0000**	**.0003**	**.0003**
Stddev	.0002	.0000	.0002	.0001	.02	.0003	.0000	.0001	.0003
%RSD	126.8	78.90	54.60	11.22	.1923	84.86	166.5	28.73	99.49
#1	.0003	-.0001	.0002	.0007	10.38	-.0000	-.0000	.0002	.0006
#2	-.0000	-.0001	.0006	.0008	10.35	-.0006	.0000	.0003	.0001
#3	.0001	-.0000	.0004	.0008	10.39	-.0005	-.0000	.0004	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0023**	**.0006**	**.0059**	**-.0002**	**.0016**	**.0002**	**.0003**	**-.0026**	**-.0006**
Stddev	.0002	.0002	.0009	.0004	.0012	.0025	.0013	.0026	.0014
%RSD	9.008	26.01	15.98	199.5	75.69	1156.	509.6	99.68	254.0
#1	-.0022	.0005	.0062	.0002	.0011	.0021	.0010	-.0027	.0010
#2	-.0022	.0006	.0049	-.0002	.0030	-.0026	.0010	-.0052	-.0019
#3	-.0026	.0008	.0067	-.0006	.0007	.0011	-.0013	.0001	-.0008

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0148**	**.0050**	**.0286**	**-.0004**	**.0003**	**.0009**	**.0022**	**.0001**	**.0001**
Stddev	.0004	.0082	.0091	.0141	.0006	.0001	.0005	.0005	.0000
%RSD	2.563	163.2	31.73	3332.	247.0	5.618	23.29	657.1	47.82
#1	.0152	.0141	.0183	.0051	.0009	.0009	.0016	.0007	.0000
#2	.0148	.0026	.0353	-.0165	.0003	.0010	.0023	-.0001	.0000
#3	.0144	-.0017	.0323	.0101	-.0004	.0010	.0026	-.0004	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0048**	**.0043**	**.0040**	**-.0030**	**-.0004**	**-.0006**
Stddev	.0008	.0004	.0002	.0018	.0006	.0005	.0007
%RSD	161.7	8.124	3.564	44.15	18.64	145.7	116.8
#1	-.0013	.0045	.0044	.0056	-.0023	-.0003	-.0005
#2	.0001	.0046	.0041	.0043	-.0031	.0001	-.0013
#3	-.0002	.0052	.0043	.0021	-.0034	-.0009	.0000

Zoom In Zoom Out

Sample Name: crconf Acquired: 12/5/2018 20:27:04 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103400.**	**19218.**	**4188.7**	**9414.7**
Stddev	143.	46.	7.4	14.6
%RSD	.13839	.24043	.17581	.15544
#1	103560.	19188.	4194.0	9428.3
#2	103280.	19271.	4191.9	9416.5
#3	103360.	19196.	4180.3	9399.2

Zoom In Zoom Out

Sample Name: asconf Acquired: 12/5/2018 20:32:20 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0000**	**-.0002**	**-.0006**	**.0002**	**-.0002**	**.0000**	**.0004**	**-.0003**
Stddev	.0001	.0001	.0001	.0002	.0002	.0001	.0000	.0002	.0005
%RSD	139.8	258.8	51.85	26.47	110.4	57.78	41.61	57.80	169.5
#1	-.0002	.0001	-.0001	-.0006	.0000	-.0001	.0000	.0003	-.0006
#2	-.0000	-.0001	-.0003	-.0004	.0005	-.0002	.0000	.0007	.0003
#3	-.0000	.0001	-.0002	-.0007	.0002	-.0003	.0000	.0003	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0005**	**5.424**	**-.0007**	**-.0011**	**-.0003**	**.0007**	**-.0063**	**.0027**
Stddev	.0002	.0000	.003	.0004	.0010	.0012	.0004	.0034	.0025
%RSD	74.76	9.434	.0630	51.59	94.55	449.2	59.36	53.85	94.11
#1	.0004	.0006	5.427	-.0012	-.0010	-.0015	.0011	-.0028	.0029
#2	.0002	.0005	5.424	-.0006	-.0001	.0008	.0006	-.0065	.0000
#3	.0001	.0005	5.420	-.0004	-.0022	-.0000	.0003	-.0095	.0050

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**-.0035**	**.0033**	**-.0066**	**.0005**	**.0003**	**.0017**	**.0003**	**.0001**
Stddev	.0022	.0176	.0160	.0023	.0006	.0002	.0003	.0006	.0000
%RSD	68.96	503.9	490.9	35.21	122.7	49.42	19.61	231.1	63.43
#1	.0031	-.0024	-.0124	-.0078	.0008	.0002	.0015	.0006	.0001
#2	.0054	.0135	.0196	-.0039	-.0002	.0005	.0020	-.0004	.0001
#3	.0010	-.0216	.0027	-.0081	.0008	.0003	.0014	.0006	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0010**	**-.0001**	**-.0013**	**-.0005**	**.0001**	**-.0005**
Stddev	.0004	.0003	.0001	.0010	.0013	.0006	.0011
%RSD	55.25	30.16	214.1	75.23	233.4	889.6	235.3
#1	.0011	.0011	-.0002	-.0002	-.0009	.0003	-.0002
#2	.0007	.0007	.0001	-.0018	-.0016	.0006	.0005
#3	.0003	.0013	-.0000	-.0019	.0009	-.0007	-.0017

Zoom In Zoom Out

Sample Name: asconf Acquired: 12/5/2018 20:32:20 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102920.**	**19213.**	**4248.3**	**9428.6**
Stddev	207.	58.	5.9	3.4
%RSD	.20087	.30319	.13840	.03583
#1	102740.	19173.	4243.3	9425.0
#2	102880.	19186.	4254.8	9429.1
#3	103150.	19280.	4246.8	9431.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 20:37:37 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.068**	**2.080**	**2.093**	**2.059**	**2.081**	**2.030**	**2.086**	**2.091**	**.2490**
Stddev	.005	.006	.003	.002	.005	.004	.001	.002	.0005
%RSD	.2218	.2840	.1182	.0835	.2557	.2026	.0232	.1122	.1819
#1	2.074	2.078	2.090	2.057	2.087	2.030	2.086	2.088	.2496
#2	2.066	2.087	2.095	2.060	2.081	2.026	2.085	2.092	.2487
#3	2.065	2.076	2.093	2.060	2.077	2.034	2.086	2.092	.2488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.058**	**2.106**	**1.990**	**2.117**	**2.097**	**2.061**	**1.976**	**39.36**	**39.94**
Stddev	.002	.003	.006	.012	.002	.008	.004	.02	.10
%RSD	.0828	.1583	.3279	.5562	.0997	.3710	.2223	.0580	.2558
#1	2.060	2.103	1.984	2.113	2.095	2.056	1.971	39.38	39.90
#2	2.057	2.110	1.997	2.130	2.099	2.069	1.978	39.37	40.06
#3	2.058	2.104	1.989	2.108	2.096	2.056	1.979	39.34	39.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.08**	**39.82**	**39.36**	**39.77**	**2.059**	**1.981**	**4.915**	**2.019**	**2.072**
Stddev	.13	.20	.03	.04	.004	.003	.008	.006	.007
%RSD	.3159	.5058	.0863	.0935	.2101	.1504	.1628	.2926	.3363
#1	39.98	39.68	39.40	39.79	2.055	1.978	4.906	2.016	2.080
#2	40.22	40.05	39.34	39.80	2.060	1.984	4.921	2.025	2.068
#3	40.03	39.72	39.33	39.73	2.063	1.980	4.918	2.014	2.067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 20:37:37 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.944**	**1.974**	**1.952**	**1.960**	**2.021**	**1.992**	**2.039**
Stddev	.007	.005	.003	.011	.005	.001	.014
%RSD	.3465	.2391	.1353	.5479	.2692	.0469	.6821
#1	1.937	1.978	1.955	1.949	2.019	1.992	2.035
#2	1.945	1.974	1.950	1.971	2.027	1.993	2.055
#3	1.951	1.969	1.951	1.960	2.016	1.992	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98576.**	**19022.**	**4119.1**	**8448.0**
Stddev	155.	86.	6.0	11.6
%RSD	.15681	.45196	.14453	.13698
#1	98449.	19121.	4119.4	8445.9
#2	98531.	18960.	4124.9	8460.5
#3	98748.	18986.	4113.0	8437.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 20:42:28 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	**.0003**	**.0003**	**.0001**	**-.0001**	**.0002**	**.0003**	**-.0003**
Stddev	.0002	.0000	.0001	.0000	.0003	.0002	.0001	.0002	.0003
%RSD	868.4	9.474	26.44	8.315	530.8	252.1	28.30	65.26	99.88
#1	-.0001	.0002	.0003	.0003	.0005	.0002	.0001	.0002	-.0001
#2	-.0000	.0001	.0003	.0003	-.0002	-.0002	.0002	.0001	-.0006
#3	.0002	.0001	.0002	.0003	-.0001	-.0003	.0002	.0005	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0002**	**.0010**	**.0002**	**.0006**	**-.0005**	**-.0004**	**-.0026**	**.0020**
Stddev	.0003	.0000	.0005	.0007	.0006	.0020	.0004	.0089	.0030
%RSD	57.64	21.08	51.32	295.6	91.59	373.0	110.4	339.6	145.7
#1	.0002	.0002	.0008	-.0002	.0010	-.0029	-.0007	-.0028	.0040
#2	.0007	.0001	.0007	.0011	.0009	.0004	-.0005	.0064	-.0014
#3	.0007	.0002	.0016	-.0001	-.0000	.0008	.0001	-.0115	.0035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0088**	**-.0138**	**-.0079**	**.0003**	**.0008**	**.0012**	**.0004**	**.0001**
Stddev	.0038	.0050	.0074	.0033	.0004	.0001	.0008	.0005	.0000
%RSD	80.39	56.65	53.23	41.77	153.5	12.78	65.75	112.9	11.13
#1	.0040	.0107	-.0223	-.0117	.0007	.0009	.0013	.0002	.0002
#2	.0089	.0125	-.0090	-.0056	.0002	.0007	.0003	.0001	.0001
#3	.0014	.0031	-.0102	-.0065	-.0001	.0008	.0019	.0010	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 20:42:28 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0006**	**.0002**	**-.0042**	**-.0002**	**-.0001**	**-.0010**
Stddev	.0004	.0007	.0001	.0026	.0002	.0006	.0015
%RSD	64.07	117.9	65.38	62.04	91.97	590.8	152.5
#1	.0006	.0014	.0001	-.0022	.0000	.0006	-.0013
#2	.0002	.0005	.0001	-.0071	-.0003	-.0004	-.0022
#3	.0010	-.0001	.0003	-.0032	-.0002	-.0005	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103110.**	**19213.**	**4241.3**	**9405.0**
Stddev	323.	40.	30.0	63.4
%RSD	.31352	.20805	.70688	.67396
#1	102760.	19248.	4256.1	9426.4
#2	103170.	19170.	4206.8	9333.7
#3	103390.	19220.	4261.0	9455.0

Zoom In Zoom Out

Sample Name: CRID Acquired: 12/5/2018 20:47:48 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0012**	**.0013**	**.0032**	**.0023**	F **.0002**	**.0035**	**.0042**
Stddev	.0002	.0001	.0001	.0007	.0002	.0005	.0000	.0006
%RSD	4.233	4.360	5.574	20.20	9.422	238.6	1.284	13.79
#1	.0041	.0011	.0013	.0038	.0024	.0002	.0035	.0048
#2	.0045	.0012	.0012	.0034	.0024	-.0003	.0036	.0040
#3	.0044	.0012	.0014	.0025	.0020	.0007	.0035	.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-30.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0000**	F **.0027**	F **.0137**	**.0028**	F **.0014**	F **.0002**	F **.0031**	F **-.0001**
Stddev	.0002	.0002	.0010	.0009	.0009	.0011	.0010	.0007
%RSD	456.0	6.033	7.125	31.41	66.97	465.0	33.83	569.4
#1	-.0001	.0026	.0142	.0033	.0014	.0008	.0027	.0001
#2	.0002	.0029	.0142	.0034	.0022	-.0010	.0043	-.0009
#3	-.0001	.0027	.0125	.0018	.0004	.0009	.0023	.0004
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.0020	.0020	.0100		.0020	.0025	.0050	.0030
Range	-30.00%	30.00%	30.00%		-20.00%	-30.00%	-30.00%	-30.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1162**	**1.155**	**.0064**	**.1267**	**2.140**	**1.084**	F **-.0000**	**.0000**
Stddev	.0079	.002	.0009	.0206	.019	.007	.0002	.0002
%RSD	6.836	.1559	13.54	16.28	.8768	.6564	2000.	2285.
#1	.1251	1.155	.0069	.1279	2.157	1.087	.0002	-.0001
#2	.1100	1.156	.0070	.1055	2.120	1.089	-.0003	.0002
#3	.1134	1.153	.0054	.1467	2.143	1.076	.0001	-.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None
Value							.0100	
Range							-30.00%	

Zoom In Zoom Out

Sample Name: CRID Acquired: 12/5/2018 20:47:48 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0002**	**.0005**	F **.0000**	F **-.0000**	F **-.0029**	F **.0006**
Stddev	.0004	.0003	.0000	.0005	.0008	.0000	.0039	.0013
%RSD	1378.	782.4	27.76	89.73	5241.	102.5	136.5	225.9
#1	.0002	.0003	.0002	.0004	-.0006	-.0001	-.0003	.0003
#2	.0002	-.0001	.0002	.0011	-.0003	-.0000	-.0010	-.0006
#3	-.0004	-.0002	.0001	.0001	.0009	-.0000	-.0074	.0019
Check ?	None	None	None	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value					.0040	.0040	.0040	.0040
Range					-30.00%	-30.00%	-30.00%	-30.00%

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	F **-.0003**	F **-.0014**
Stddev	.0009	.0027
%RSD	323.9	195.1
#1	.0005	.0012
#2	-.0012	-.0011
#3	-.0001	-.0042
Check ?	Chk Fail	Chk Fail
Value	.0040	.0040
Range	-30.00%	-30.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103310.**	**19280.**	**4304.6**	**9520.7**
Stddev	242.	56.	73.1	185.9
%RSD	.23459	.29070	1.6979	1.9522
#1	103060.	19301.	4270.2	9427.7
#2	103310.	19216.	4255.1	9399.7
#3	103550.	19322.	4388.6	9734.7

Zoom In Zoom Out

Sample Name: MP10982-MB1 7 Acquired: 12/5/2018 20:53:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0000**	**.0002**	**.0000**	**.0001**	**-.0005**	**.0001**	**.0002**	**-.0003**
Stddev	.0001	.0000	.0001	.0000	.0001	.0003	.0000	.0002	.0000
%RSD	172.4	89.51	89.48	140.8	85.30	49.59	21.06	96.10	11.81
#1	.0000	.0000	.0002	.0000	.0001	-.0007	.0001	.0003	-.0003
#2	-.0002	.0001	.0003	.0000	.0003	-.0002	.0001	-.0000	-.0003
#3	-.0000	.0000	.0000	.0000	.0000	-.0006	.0002	.0004	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0054**	**.0003**	**-.0006**	**-.0004**	**-.0010**	**.0001**	**.0051**	**.0506**
Stddev	.0003	.0002	.0005	.0006	.0007	.0021	.0015	.0060	.0032
%RSD	333.3	2.845	169.6	101.4	199.2	212.1	2283.	117.9	6.298
#1	-.0001	.0054	.0008	-.0004	.0004	-.0029	.0002	.0074	.0543
#2	.0004	.0054	-.0002	-.0013	-.0004	-.0014	-.0015	.0096	.0485
#3	.0000	.0056	.0003	-.0001	-.0011	.0013	.0015	-.0017	.0491

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0017**	**-.0024**	**-.0047**	**.0003**	**.0001**	**.0072**	**-.0002**	**.0001**
Stddev	.0021	.0211	.0267	.0056	.0004	.0003	.0005	.0003	.0001
%RSD	49.39	1217.	1129.	119.8	147.9	224.8	6.664	142.3	99.50
#1	.0020	.0212	.0279	-.0112	.0005	-.0002	.0074	-.0000	.0001
#2	.0062	.0048	-.0227	-.0020	-.0002	.0003	.0067	-.0006	-.0000
#3	.0046	-.0208	-.0124	-.0009	.0005	.0002	.0076	-.0001	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0012**	**.0003**	**.0024**	**-.0004**	**-.0000**	**.0017**
Stddev	.0004	.0001	.0001	.0016	.0004	.0005	.0003
%RSD	208.6	11.16	42.51	66.84	98.42	1356.	16.02
#1	-.0002	.0012	.0002	.0042	-.0003	.0005	.0019
#2	.0002	.0012	.0004	.0017	-.0007	-.0002	.0014
#3	.0005	.0014	.0004	.0012	-.0001	-.0004	.0018

Zoom In Zoom Out

Sample Name: MP10982-MB1 7 Acquired: 12/5/2018 20:53:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105100.**	**19720.**	**4293.6**	**9511.4**
Stddev	110.	68.	24.3	49.1
%RSD	.10465	.34390	.56583	.51645
#1	105180.	19768.	4318.9	9560.7
#2	104970.	19751.	4291.3	9511.1
#3	105140.	19643.	4270.5	9462.4

Zoom In Zoom Out

Sample Name: MP10982-MB2 Acquired: 12/5/2018 20:58:19 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0000**	**.0000**	**.0003**	**.0001**	**-.0005**	**.0000**	**.0000**	**-.0004**
Stddev	.0001	.0000	.0001	.0001	.0001	.0004	.0000	.0003	.0003
%RSD	143.8	659.5	5356.	41.74	86.99	77.91	118.3	867.1	75.64
#1	-.0003	-.0000	.0001	.0002	.0001	-.0001	.0000	-.0002	-.0005
#2	.0000	.0000	.0001	.0003	.0003	-.0007	.0000	.0003	-.0006
#3	-.0000	.0000	-.0002	.0004	.0000	-.0006	-.0000	-.0001	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0001**	**-.0004**	**.0004**	**.0002**	**-.0008**	**.0002**	**.0009**	**.0049**
Stddev	.0003	.0001	.0006	.0013	.0005	.0020	.0005	.0118	.0030
%RSD	110.8	100.4	158.8	313.7	227.1	258.0	333.7	1263.	60.38
#1	.0005	.0001	.0002	-.0001	.0006	-.0032	-.0001	.0145	.0077
#2	-.0001	.0000	-.0003	-.0005	-.0004	.0003	-.0002	-.0060	.0018
#3	.0005	.0003	-.0010	.0020	.0004	.0004	.0007	-.0057	.0051

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**-.0092**	**-.0097**	**-.0117**	**-.0009**	**.0001**	**.0059**	**-.0001**	**.0000**
Stddev	.0023	.0186	.0119	.0024	.0002	.0001	.0003	.0004	.0000
%RSD	55.69	201.1	122.6	20.08	26.35	160.9	5.037	280.9	26.95
#1	.0041	-.0163	.0027	-.0105	-.0008	-.0000	.0061	-.0002	.0000
#2	.0019	-.0232	-.0211	-.0102	-.0012	.0002	.0055	-.0005	.0000
#3	.0066	.0118	-.0108	-.0144	-.0007	.0000	.0061	.0003	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0004**	**.0001**	**.0019**	**-.0015**	**-.0001**	**.0010**
Stddev	.0003	.0003	.0001	.0011	.0009	.0002	.0005
%RSD	119.4	59.41	67.79	60.10	59.17	275.8	50.22
#1	.0003	.0007	.0000	.0029	-.0019	-.0000	.0010
#2	-.0001	.0002	.0002	.0022	-.0021	.0001	.0005
#3	.0005	.0005	.0002	.0006	-.0005	-.0003	.0015

Zoom In Zoom Out

Sample Name: MP10982-MB2 Acquired: 12/5/2018 20:58:19 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105020.**	**19744.**	**4307.4**	**9540.8**
Stddev	193.	83.	4.5	13.3
%RSD	.18386	.42148	.10475	.13895
#1	104900.	19692.	4312.1	9556.1
#2	104930.	19700.	4303.1	9532.5
#3	105250.	19840.	4306.9	9533.8

Zoom In Zoom Out

Sample Name: MP10982-B1 Acquired: 12/5/2018 21:03:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.037**	**2.066**	**2.054**	**2.012**	**2.040**	**1.999**	**2.058**	**2.035**
Stddev	.013	.008	.002	.003	.001	.004	.001	.000
%RSD	.6315	.4042	.0721	.1346	.0699	.2044	.0549	.0205
#1	2.028	2.059	2.054	2.015	2.041	2.004	2.057	2.035
#2	2.031	2.063	2.055	2.013	2.041	1.996	2.057	2.035
#3	2.052	2.075	2.052	2.009	2.039	1.998	2.059	2.036

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2477**	**2.020**	**2.062**	**2.017**	**2.146**	**2.049**	**2.023**	**2.037**
Stddev	.0007	.002	.004	.004	.012	.001	.005	.002
%RSD	.2830	.0894	.2191	.2024	.5428	.0586	.2478	.1036
#1	.2472	2.019	2.058	2.015	2.136	2.050	2.023	2.040
#2	.2485	2.020	2.061	2.021	2.159	2.048	2.028	2.036
#3	.2473	2.022	2.067	2.014	2.144	2.048	2.018	2.036

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.19**	**25.52**	**25.74**	**25.15**	**25.02**	**25.39**	**2.007**	**2.078**
Stddev	.12	.10	.14	.10	.14	.12	.001	.002
%RSD	.4776	.3750	.5545	.4104	.5513	.4794	.0616	.1152
#1	25.14	25.47	25.64	25.13	24.95	25.32	2.007	2.076
#2	25.10	25.46	25.67	25.06	24.93	25.31	2.008	2.080
#3	25.33	25.63	25.90	25.26	25.18	25.53	2.006	2.080

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0838**	**2.110**	**2.044**	**2.021**	**1.959**	**2.013**	F **-.0847**	**.0153**
Stddev	.0012	.008	.012	.006	.003	.001	.0012	.0011
%RSD	1.485	.3731	.5906	.2789	.1378	.0256	1.424	6.908
#1	.0847	2.101	2.036	2.016	1.957	2.013	-.0833	.0142
#2	.0824	2.113	2.038	2.019	1.958	2.012	-.0855	.0153
#3	.0843	2.116	2.058	2.027	1.962	2.013	-.0852	.0163

Zoom In Zoom Out

Sample Name: MP10982-B1 Acquired: 12/5/2018 21:03:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0019**	**2.074**
Stddev	.0005	.012
%RSD	28.00	.5568
#1	-.0023	2.061
#2	-.0023	2.081
#3	-.0013	2.081

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100750.**	**19394.**	**4181.7**	**8705.9**
Stddev	114.	62.	9.1	12.3
%RSD	.11315	.32185	.21694	.14097
#1	100620.	19402.	4191.3	8719.7
#2	100820.	19452.	4180.5	8701.8
#3	100820.	19328.	4173.3	8696.1

Zoom In Zoom Out

Sample Name: MP10982-B2conf Acquired: 12/5/2018 21:08:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0810**	**.0806**	**.0831**	**.0786**	**.0824**	**.0768**	**.0828**	**.0803**	**.0773**
Stddev	.0002	.0001	.0003	.0002	.0001	.0003	.0001	.0002	.0001
%RSD	.2036	.1332	.3416	.3004	.1328	.3616	.1655	.2492	.1073
#1	.0811	.0805	.0834	.0785	.0826	.0765	.0828	.0803	.0774
#2	.0809	.0805	.0829	.0789	.0824	.0771	.0827	.0805	.0773
#3	.0808	.0807	.0830	.0784	.0824	.0769	.0829	.0801	.0773

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0809**	**.0851**	**.0793**	**.0871**	**.0815**	**.3953**	**.0807**	**3.971**	**4.078**
Stddev	.0002	.0003	.0013	.0003	.0010	.0011	.0007	.012	.016
%RSD	.2178	.4109	1.670	.3145	1.242	.2823	.8232	.2936	.3919
#1	.0808	.0852	.0778	.0872	.0815	.3940	.0804	3.963	4.094
#2	.0808	.0854	.0800	.0868	.0826	.3960	.0802	3.965	4.062
#3	.0811	.0847	.0802	.0873	.0805	.3958	.0814	3.984	4.079

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.085**	**4.019**	**3.888**	**3.962**	**.0792**	**.0840**	**.0042**	**.0845**	**.0798**
Stddev	.008	.022	.030	.007	.0004	.0001	.0003	.0006	.0001
%RSD	.1933	.5500	.7805	.1891	.5522	.0887	6.774	.6947	.1264
#1	4.094	4.044	3.902	3.965	.0797	.0840	.0045	.0846	.0799
#2	4.082	4.007	3.910	3.953	.0791	.0839	.0043	.0850	.0797
#3	4.079	4.006	3.854	3.968	.0788	.0841	.0039	.0839	.0799

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0791**	**.0874**	**.0768**	**-.0040**	**.0004**	**-.0005**	**.0845**
Stddev	.0009	.0010	.0002	.0026	.0016	.0009	.0007
%RSD	1.183	1.169	.2509	63.85	379.1	173.4	.7924
#1	.0782	.0880	.0766	-.0013	-.0005	-.0015	.0838
#2	.0790	.0879	.0769	-.0044	-.0005	.0002	.0844
#3	.0801	.0862	.0769	-.0064	.0023	-.0002	.0852

Zoom In Zoom Out

Sample Name: MP10982-B2conf Acquired: 12/5/2018 21:08:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103280.**	**19659.**	**4270.9**	**9281.2**
Stddev	56.	51.	3.2	6.4
%RSD	.05423	.25786	.07406	.06844
#1	103220.	19642.	4271.7	9279.8
#2	103330.	19717.	4267.5	9275.6
#3	103300.	19620.	4273.7	9288.1

Zoom In Zoom Out

Sample Name: MP10982-S1 Acquired: 12/5/2018 21:13:32 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.038**	**2.040**	**2.085**	**2.011**	**2.039**	**2.014**	**2.602**	**2.033**	**.2520**
Stddev	.003	.001	.003	.002	.003	.006	.002	.002	.0008
%RSD	.1437	.0538	.1242	.0831	.1312	.2883	.0829	.1056	.3132
#1	2.041	2.039	2.082	2.010	2.040	2.019	2.603	2.030	.2529
#2	2.035	2.041	2.087	2.013	2.036	2.017	2.600	2.034	.2518
#3	2.037	2.041	2.085	2.011	2.040	2.008	2.604	2.034	.2513

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.032**	**2.055**	**2.073**	**2.106**	**2.036**	**2.072**	**2.067**	**24.99**	**108.2**
Stddev	.002	.002	.004	.017	.001	.006	.003	.03	.2
%RSD	.1086	.0828	.1876	.8219	.0612	.3001	.1441	.1016	.1581
#1	2.033	2.053	2.078	2.123	2.035	2.079	2.065	25.00	108.1
#2	2.030	2.057	2.072	2.088	2.035	2.067	2.071	24.96	108.4
#3	2.034	2.055	2.070	2.108	2.037	2.070	2.067	25.02	108.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.45**	**29.69**	**32.89**	**62.64**	**2.132**	**2.102**	**5.856**	**2.095**	**2.185**
Stddev	.03	.07	.05	.04	.002	.001	.006	.004	.002
%RSD	.1081	.2283	.1544	.0584	.1036	.0357	.1009	.1670	.0895
#1	25.42	29.64	32.95	62.68	2.132	2.103	5.850	2.098	2.187
#2	25.47	29.76	32.85	62.61	2.130	2.101	5.862	2.091	2.184
#3	25.45	29.65	32.88	62.63	2.134	2.103	5.855	2.097	2.185

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.028**	**2.031**	**2.024**	**65.95**	**.0167**	**-.0035**	**2.144**
Stddev	.004	.002	.003	.56	.0022	.0005	.020
%RSD	.1818	.0945	.1218	.8488	13.44	14.62	.9491
#1	2.028	2.029	2.026	66.54	.0176	-.0036	2.164
#2	2.025	2.033	2.021	65.42	.0183	-.0040	2.124
#3	2.032	2.032	2.025	65.89	.0141	-.0030	2.144

Zoom In Zoom Out

Sample Name: MP10982-S1 Acquired: 12/5/2018 21:13:32 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97659.**	**19305.**	**4039.3**	**8335.6**
Stddev	203.	41.	11.2	17.7
%RSD	.20736	.21104	.27751	.21253
#1	97742.	19258.	4046.5	8347.8
#2	97806.	19320.	4026.3	8315.3
#3	97428.	19335.	4044.9	8343.8

Zoom In Zoom Out

Sample Name: MP10982-S2 Acquired: 12/5/2018 21:18:22 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.038**	**2.030**	**2.081**	**2.003**	**2.029**	**2.006**	**2.598**	**2.024**	**.2528**
Stddev	.012	.007	.005	.002	.003	.005	.003	.002	.0005
%RSD	.5710	.3631	.2667	.1184	.1595	.2444	.1142	.0896	.1853
#1	2.033	2.026	2.080	2.004	2.028	2.003	2.600	2.026	.2529
#2	2.051	2.038	2.087	2.000	2.033	2.012	2.600	2.023	.2532
#3	2.030	2.025	2.076	2.005	2.027	2.004	2.595	2.024	.2523

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.023**	**2.047**	**2.073**	**2.093**	**2.028**	**2.066**	**2.073**	**25.19**	**108.9**
Stddev	.000	.003	.007	.006	.005	.005	.005	.13	.4
%RSD	.0196	.1275	.3440	.2678	.2396	.2307	.2380	.5032	.3619
#1	2.024	2.049	2.066	2.086	2.030	2.061	2.070	25.14	108.6
#2	2.024	2.049	2.080	2.098	2.031	2.068	2.079	25.34	109.3
#3	2.023	2.044	2.071	2.094	2.022	2.070	2.071	25.10	108.7

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.52**	**29.79**	**33.26**	**63.16**	**2.133**	**2.100**	**5.872**	**2.094**	**2.191**
Stddev	.11	.13	.19	.35	.004	.002	.008	.001	.011
%RSD	.4421	.4198	.5701	.5521	.2073	.0959	.1288	.0571	.4797
#1	25.46	29.70	33.15	62.99	2.133	2.098	5.867	2.093	2.186
#2	25.65	29.93	33.48	63.56	2.138	2.102	5.881	2.093	2.202
#3	25.44	29.73	33.15	62.93	2.129	2.100	5.869	2.095	2.183

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.036**	**2.019**	**2.027**	**66.05**	**.0145**	**-.0025**	**2.127**
Stddev	.002	.002	.001	.42	.0011	.0010	.015
%RSD	.1007	.0790	.0290	.6374	7.688	42.29	.7254
#1	2.035	2.017	2.028	65.56	.0136	-.0017	2.110
#2	2.039	2.020	2.027	66.33	.0158	-.0036	2.134
#3	2.036	2.020	2.026	66.24	.0142	-.0020	2.138

Zoom In Zoom Out

Sample Name: MP10982-S2 Acquired: 12/5/2018 21:18:22 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97120.**	**19118.**	**4024.3**	**8303.7**
Stddev	246.	65.	7.3	5.3
%RSD	.25345	.34128	.18099	.06413
#1	97266.	19149.	4030.3	8309.8
#2	96836.	19043.	4016.2	8300.3
#3	97259.	19162.	4026.3	8301.0

Zoom In Zoom Out

Sample Name: JC78731-4 Acquired: 12/5/2018 21:23:12 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0151**	**-.0000**	**.0003**	**.0008**	**.0012**	**.0015**	**.5611**	**.0023**	**.0008**
Stddev	.0002	.0000	.0001	.0000	.0001	.0001	.0010	.0004	.0003
%RSD	1.222	404.9	40.86	4.572	9.935	7.580	.1855	18.79	39.72
#1	.0153	-.0000	.0002	.0008	.0011	.0015	.5623	.0021	.0007
#2	.0151	.0000	.0003	.0009	.0013	.0014	.5603	.0019	.0005
#3	.0149	-.0000	.0004	.0009	.0011	.0016	.5607	.0027	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0021**	**.0012**	**-.0001**	**.0003**	**-.0012**	**.0004**	**.0144**	**84.21**
Stddev	.0002	.0003	.0011	.0009	.0011	.0004	.0007	.0044	.11
%RSD	18.79	12.55	91.73	1724.	426.2	32.61	186.7	30.72	.1312
#1	.0008	.0018	.0003	-.0010	-.0006	-.0008	.0007	.0195	84.33
#2	.0012	.0022	.0008	-.0000	.0015	-.0012	.0008	.0115	84.20
#3	.0011	.0023	.0024	.0009	-.0002	-.0016	-.0004	.0122	84.11

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2392**	**5.254**	**7.848**	**37.65**	**.1028**	**.0195**	**5.774**	**-.0008**	**.1591**
Stddev	.0018	.035	.034	.06	.0009	.0002	.007	.0002	.0002
%RSD	.7565	.6710	.4302	.1710	.8293	1.012	.1153	24.32	.1209
#1	.2379	5.228	7.879	37.71	.1037	.0196	5.772	-.0009	.1593
#2	.2385	5.240	7.812	37.66	.1028	.0193	5.768	-.0009	.1590
#3	.2413	5.294	7.853	37.58	.1020	.0197	5.781	-.0006	.1589

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0128**	**.0013**	**65.91**	**-.0005**	**-.0024**	**.0144**
Stddev	.0006	.0011	.0002	.73	.0005	.0015	.0012
%RSD	41.47	8.337	15.67	1.108	92.72	63.60	8.695
#1	.0020	.0140	.0015	65.90	-.0003	-.0036	.0151
#2	.0016	.0123	.0014	65.19	-.0011	-.0029	.0151
#3	.0008	.0121	.0011	66.65	-.0002	-.0007	.0129

Zoom In Zoom Out

Sample Name: JC78731-4 Acquired: 12/5/2018 21:23:12 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99108.**	**19296.**	**4093.0**	**8673.8**
Stddev	147.	71.	1.6	8.1
%RSD	.14810	.36963	.03915	.09312
#1	99180.	19220.	4094.8	8665.3
#2	99205.	19304.	4092.1	8674.8
#3	98939.	19362.	4092.0	8681.4

Zoom In Zoom Out

Sample Name: MP10982-SD1 Acquired: 12/5/2018 21:28:25 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0180**	**.0042**	**.0040**	**.0051**	**.0081**	**.0055**	**.5735**	**.0064**	**-.0006**
Stddev	.0002	.0001	.0003	.0016	.0010	.0013	.0015	.0014	.0027
%RSD	.8696	3.137	8.378	30.76	12.89	22.84	.2563	22.27	482.5
#1	.0181	.0044	.0038	.0067	.0071	.0062	.5743	.0072	-.0036
#2	.0178	.0041	.0038	.0036	.0080	.0063	.5718	.0072	.0001
#3	.0181	.0042	.0044	.0049	.0092	.0041	.5745	.0047	.0018

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	**.0124**	**.0052**	**.0036**	**.0011**	**-.0010**	**.0013**	**.0374**	**85.13**
Stddev	.0020	.0002	.0073	.0053	.0023	.0054	.0030	.0170	.21
%RSD	30.75	1.281	142.0	145.7	205.7	518.1	231.3	45.50	.2494
#1	.0052	.0126	.0071	.0050	-.0009	-.0068	.0042	.0207	85.35
#2	.0054	.0123	-.0029	.0081	.0036	.0038	-.0018	.0547	85.11
#3	.0087	.0124	.0113	-.0022	.0007	-.0001	.0014	.0369	84.93

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3025**	**5.513**	**7.829**	**37.56**	**.1039**	**.0239**	**5.790**	**.0023**	**.1658**
Stddev	.0143	.023	.047	.08	.0021	.0009	.058	.0039	.0008
%RSD	4.724	.4228	.6039	.2001	1.991	3.738	.9937	169.9	.4771
#1	.2961	5.494	7.847	37.51	.1020	.0235	5.724	.0061	.1650
#2	.2926	5.506	7.864	37.65	.1061	.0249	5.820	-.0017	.1659
#3	.3189	5.539	7.775	37.52	.1037	.0233	5.827	.0024	.1666

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062**	**.0258**	**.0035**	**65.38**	**-.0009**	**-.0011**	**.0182**
Stddev	.0028	.0001	.0001	.42	.0044	.0057	.0013
%RSD	45.14	.5653	2.940	.6390	507.8	520.8	7.395
#1	.0030	.0259	.0035	65.04	.0011	-.0015	.0176
#2	.0075	.0259	.0035	65.85	.0022	.0048	.0197
#3	.0080	.0257	.0034	65.26	-.0059	-.0066	.0172

Zoom In Zoom Out

Sample Name: MP10982-SD1 Acquired: 12/5/2018 21:28:25 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102770.**	**19305.**	**4223.6**	**9215.6**
Stddev	335.	68.	34.0	55.8
%RSD	.32563	.35090	.80588	.60505
#1	102820.	19256.	4262.9	9279.9
#2	103080.	19382.	4203.0	9180.2
#3	102410.	19277.	4204.9	9186.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 21:33:39 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.065**	**2.064**	**2.094**	**2.053**	**2.085**	**2.024**	**2.086**	**2.084**	**.2481**
Stddev	.001	.002	.015	.017	.003	.006	.003	.017	.0004
%RSD	.0618	.1048	.7359	.8254	.1416	.2798	.1436	.8291	.1590
#1	2.067	2.062	2.083	2.047	2.083	2.031	2.082	2.076	.2481
#2	2.065	2.063	2.112	2.072	2.085	2.021	2.086	2.104	.2478
#3	2.064	2.066	2.088	2.040	2.088	2.021	2.088	2.072	.2485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.058**	**2.105**	**2.010**	**2.189**	**2.092**	**2.077**	**1.973**	**39.25**	**39.72**
Stddev	.001	.021	.018	.025	.015	.014	.015	.04	.09
%RSD	.0525	1.007	.8967	1.166	.7320	.6722	.7353	.0999	.2143
#1	2.057	2.091	2.005	2.184	2.084	2.069	1.963	39.28	39.75
#2	2.059	2.129	2.030	2.216	2.110	2.093	1.990	39.21	39.63
#3	2.057	2.094	1.995	2.166	2.083	2.069	1.967	39.27	39.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.78**	**39.56**	**39.40**	**39.71**	**2.059**	**1.986**	**4.914**	**2.037**	**2.070**
Stddev	.05	.15	.06	.03	.016	.018	.036	.018	.003
%RSD	.1202	.3761	.1639	.0681	.7972	.9233	.7296	.8685	.1415
#1	39.76	39.56	39.45	39.74	2.049	1.980	4.895	2.028	2.074
#2	39.74	39.41	39.33	39.69	2.078	2.007	4.956	2.058	2.069
#3	39.83	39.71	39.41	39.70	2.049	1.972	4.892	2.026	2.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 21:33:39 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.965**	**1.977**	**1.951**	**2.028**	**2.019**	**1.986**	**2.133**
Stddev	.009	.018	.001	.024	.016	.001	.029
%RSD	.4652	.9155	.0583	1.187	.7707	.0643	1.359
#1	1.956	1.969	1.952	2.023	2.010	1.988	2.126
#2	1.974	1.998	1.950	2.054	2.037	1.986	2.165
#3	1.966	1.965	1.951	2.007	2.010	1.985	2.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98497.**	**19117.**	**4118.2**	**8449.4**
Stddev	11.	46.	26.1	50.2
%RSD	.01101	.23995	.63357	.59405
#1	98484.	19111.	4133.3	8472.0
#2	98503.	19166.	4088.1	8391.9
#3	98503.	19075.	4133.2	8484.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 21:38:30 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0000**	**-.0001**	**.0002**	**.0001**	**-.0001**	**-.0000**	**.0001**	**.0001**
Stddev	.0002	.0000	.0000	.0002	.0001	.0000	.0000	.0001	.0002
%RSD	191.8	130.9	48.11	106.3	143.1	42.06	3152.	67.61	148.5
#1	.0001	.0000	-.0001	.0000	-.0001	-.0001	.0000	.0001	-.0000
#2	-.0003	.0001	-.0001	.0002	.0001	-.0001	-.0000	.0001	.0004
#3	-.0001	-.0000	-.0000	.0004	.0002	-.0001	-.0000	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0001**	**.0008**	**-.0001**	**.0002**	**-.0012**	**-.0004**	**-.0005**	**-.0003**
Stddev	.0002	.0000	.0007	.0005	.0003	.0014	.0009	.0029	.0010
%RSD	349.6	47.81	86.96	403.4	173.0	117.9	200.3	640.9	335.0
#1	.0001	.0000	.0000	.0001	.0003	-.0005	-.0010	.0008	-.0015
#2	-.0003	.0001	.0009	.0002	-.0002	-.0003	.0006	.0016	.0000
#3	-.0000	.0001	.0014	-.0007	.0003	-.0027	-.0009	-.0038	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0036**	**.0179**	**-.0021**	**.0008**	**.0005**	**-.0001**	**.0005**	**.0000**
Stddev	.0019	.0097	.0086	.0014	.0007	.0002	.0007	.0003	.0001
%RSD	147.1	270.2	48.15	66.76	81.65	37.78	645.9	60.06	10680.
#1	.0006	-.0075	.0258	-.0035	.0004	.0007	-.0003	.0001	.0001
#2	.0034	.0105	.0087	-.0007	.0016	.0006	-.0007	.0007	-.0000
#3	-.0002	.0078	.0193	-.0021	.0005	.0003	.0007	.0006	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 21:38:30 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0027**	**.0000**	**-.0008**	**-.0009**	**-.0009**	**-.0005**
Stddev	.0003	.0006	.0001	.0008	.0004	.0007	.0010
%RSD	35.08	23.94	5560.	107.3	42.02	72.53	179.3
#1	.0010	.0033	-.0000	-.0004	-.0009	-.0004	.0005
#2	.0009	.0020	-.0001	-.0018	-.0013	-.0006	-.0006
#3	.0005	.0027	.0001	-.0002	-.0005	-.0017	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103270.**	**19363.**	**4282.5**	**9493.6**
Stddev	178.	71.	8.8	10.3
%RSD	.17202	.36749	.20498	.10890
#1	103070.	19443.	4273.3	9484.1
#2	103360.	19340.	4283.4	9492.0
#3	103390.	19306.	4290.8	9504.6

Zoom In Zoom Out

Sample Name: MP10982-S3 Acquired: 12/5/2018 21:43:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.030**	**2.030**	**2.073**	**1.997**	**2.035**	**2.005**	**2.587**	**2.019**	**.2516**
Stddev	.005	.006	.003	.003	.004	.003	.003	.002	.0007
%RSD	.2308	.2900	.1436	.1463	.2170	.1585	.1059	.0972	.2819
#1	2.028	2.028	2.076	1.999	2.039	2.001	2.590	2.021	.2514
#2	2.027	2.025	2.072	1.994	2.030	2.006	2.584	2.019	.2509
#3	2.036	2.036	2.070	1.998	2.036	2.007	2.588	2.017	.2523

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.029**	**2.046**	**2.053**	**2.087**	**2.026**	**2.053**	**2.056**	**24.92**	**107.1**
Stddev	.002	.003	.004	.010	.004	.002	.003	.04	.3
%RSD	.1141	.1570	.1834	.4970	.2055	.1070	.1244	.1762	.2755
#1	2.029	2.048	2.058	2.082	2.030	2.054	2.059	24.89	107.0
#2	2.027	2.047	2.053	2.099	2.026	2.054	2.055	24.89	107.0
#3	2.031	2.042	2.050	2.080	2.022	2.050	2.054	24.97	107.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**29.58**	**32.75**	**62.16**	**2.114**	**2.088**	**5.698**	**2.078**	**2.177**
Stddev	.05	.08	.05	.15	.006	.003	.009	.008	.005
%RSD	.2046	.2698	.1489	.2415	.2625	.1560	.1503	.3726	.2377
#1	25.12	29.49	32.74	62.05	2.120	2.090	5.706	2.079	2.176
#2	25.10	29.64	32.71	62.09	2.111	2.089	5.699	2.086	2.173
#3	25.20	29.62	32.81	62.33	2.111	2.084	5.689	2.070	2.183

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.030**	**2.054**	**2.023**	**64.40**	**.0180**	**-.0026**	**2.109**
Stddev	.004	.003	.002	.30	.0005	.0014	.016
%RSD	.2023	.1338	.0749	.4630	2.764	54.10	.7376
#1	2.027	2.056	2.025	64.31	.0183	-.0042	2.106
#2	2.035	2.054	2.022	64.73	.0174	-.0018	2.126
#3	2.028	2.051	2.023	64.15	.0183	-.0017	2.095

Zoom In Zoom Out

Sample Name: MP10982-S3 Acquired: 12/5/2018 21:43:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97333.**	**19104.**	**4030.2**	**8320.4**
Stddev	190.	86.	2.9	3.3
%RSD	.19528	.45150	.07268	.04010
#1	97118.	19203.	4031.1	8319.2
#2	97480.	19046.	4027.0	8317.7
#3	97400.	19062.	4032.7	8324.1

Zoom In Zoom Out

Sample Name: MP10982-S4 Acquired: 12/5/2018 21:48:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.056**	**2.057**	**2.102**	**2.024**	**2.055**	**2.031**	**2.613**	**2.045**	**.2568**
Stddev	.003	.006	.002	.004	.021	.019	.026	.004	.0029
%RSD	.1576	.2881	.0994	.1754	1.013	.9317	1.005	.1755	1.146
#1	2.060	2.054	2.101	2.021	2.079	2.053	2.643	2.042	.2602
#2	2.053	2.064	2.101	2.028	2.042	2.020	2.595	2.049	.2552
#3	2.055	2.053	2.105	2.024	2.045	2.021	2.601	2.044	.2551

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.052**	**2.072**	**2.094**	**2.134**	**2.051**	**2.089**	**2.094**	**25.44**	**108.0**
Stddev	.018	.006	.003	.004	.005	.000	.004	.03	.3
%RSD	.8651	.2957	.1627	.1644	.2588	.0176	.1810	.1173	.2413
#1	2.072	2.068	2.093	2.131	2.045	2.089	2.090	25.47	108.0
#2	2.038	2.079	2.097	2.133	2.055	2.089	2.094	25.43	108.2
#3	2.045	2.069	2.091	2.138	2.052	2.089	2.098	25.41	107.7

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.64**	**30.06**	**33.32**	**62.65**	**2.148**	**2.124**	**5.707**	**2.119**	**2.202**
Stddev	.08	.18	.05	.07	.004	.002	.005	.003	.003
%RSD	.3166	.5897	.1473	.1047	.1695	.0749	.0967	.1226	.1358
#1	25.67	30.02	33.38	62.72	2.144	2.123	5.701	2.118	2.204
#2	25.69	30.25	33.29	62.60	2.150	2.126	5.712	2.122	2.198
#3	25.54	29.91	33.29	62.63	2.151	2.123	5.709	2.117	2.203

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.069**	**2.089**	**2.051**	**65.62**	**.0169**	**-.0027**	**2.165**
Stddev	.015	.004	.017	.02	.0005	.0011	.003
%RSD	.7255	.2050	.8403	.0334	2.896	39.73	.1391
#1	2.086	2.088	2.071	65.60	.0174	-.0039	2.162
#2	2.059	2.093	2.039	65.65	.0169	-.0024	2.164
#3	2.062	2.085	2.044	65.62	.0164	-.0018	2.168

Zoom In Zoom Out

Sample Name: MP10982-S4 Acquired: 12/5/2018 21:48:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97185.**	**19152.**	**4025.1**	**8308.5**
Stddev	1067.	116.	9.0	17.8
%RSD	1.0975	.60773	.22273	.21405
#1	95954.	19020.	4031.3	8320.2
#2	97837.	19195.	4029.2	8317.2
#3	97765.	19240.	4014.8	8288.0

Zoom In Zoom Out

Sample Name: JC78731-4F Acquired: 12/5/2018 21:53:24 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0147**	**.0000**	**.0003**	**.0007**	**.0030**	**.0010**	**.5475**	**.0028**	**.0009**
Stddev	.0002	.0000	.0001	.0001	.0001	.0005	.0068	.0004	.0004
%RSD	1.043	40.35	51.40	21.03	4.900	53.88	1.250	12.69	41.88
#1	.0148	.0001	.0001	.0006	.0031	.0006	.5424	.0028	.0011
#2	.0147	.0000	.0002	.0009	.0028	.0007	.5552	.0031	.0005
#3	.0145	.0000	.0004	.0006	.0031	.0016	.5448	.0024	.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0018**	**.0013**	**-.0014**	**-.0005**	**-.0010**	**-.0014**	**-.0015**	**82.65**
Stddev	.0003	.0000	.0013	.0012	.0003	.0003	.0019	.0048	.11
%RSD	61.88	2.653	105.1	85.80	53.41	34.31	137.2	321.2	.1371
#1	.0004	.0017	.0020	-.0027	-.0009	-.0010	.0008	-.0054	82.78
#2	.0008	.0018	-.0003	-.0012	-.0003	-.0007	-.0023	-.0030	82.56
#3	.0002	.0018	.0021	-.0003	-.0004	-.0013	-.0026	.0039	82.61

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0316**	**5.174**	**7.740**	**36.84**	**.0987**	**.0189**	**5.620**	**-.0005**	**.1561**
Stddev	.0016	.041	.028	.08	.0002	.0002	.013	.0005	.0002
%RSD	5.182	.7874	.3637	.2081	.2263	.8122	.2310	102.7	.1435
#1	.0298	5.138	7.770	36.91	.0989	.0188	5.620	.0001	.1562
#2	.0318	5.166	7.734	36.87	.0989	.0188	5.633	-.0010	.1562
#3	.0331	5.218	7.715	36.76	.0985	.0191	5.607	-.0007	.1558

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0105**	**.0017**	**64.78**	**-.0016**	**-.0016**	**.0058**
Stddev	.0008	.0007	.0002	.89	.0005	.0013	.0010
%RSD	125.1	6.278	14.01	1.369	31.94	79.57	17.31
#1	-.0003	.0113	.0019	64.10	-.0012	-.0012	.0069
#2	.0009	.0101	.0018	65.79	-.0022	-.0005	.0049
#3	.0012	.0101	.0014	64.46	-.0014	-.0030	.0057

Zoom In Zoom Out

Sample Name: JC78731-4F Acquired: 12/5/2018 21:53:24 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98451.**	**19236.**	**4073.9**	**8645.8**
Stddev	1129.	57.	11.9	24.5
%RSD	1.1471	.29680	.29192	.28394
#1	99278.	19174.	4079.3	8653.6
#2	97164.	19251.	4060.2	8618.3
#3	98910.	19285.	4082.0	8665.6

Zoom In Zoom Out

Sample Name: MP10982-SD2 Acquired: 12/5/2018 21:58:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0147**	**-.0000**	**.0004**	**.0010**	**.0051**	**.0005**	**.5540**	**.0037**	**-.0004**
Stddev	.0006	.0002	.0003	.0009	.0024	.0025	.0011	.0009	.0019
%RSD	3.907	522.6	92.71	88.61	46.89	505.1	.2063	23.54	533.1
#1	.0141	.0001	.0007	.0016	.0078	.0002	.5548	.0044	.0017
#2	.0153	-.0003	.0004	-.0000	.0033	.0031	.5545	.0027	-.0021
#3	.0147	.0001	.0000	.0015	.0042	-.0018	.5527	.0040	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0046**	**-.0030**	**-.0019**	**.0004**	**-.0019**	**-.0004**	**-.0223**	**83.98**
Stddev	.0007	.0006	.0047	.0003	.0032	.0064	.0032	.0195	.19
%RSD	70.89	13.52	156.7	17.71	733.9	337.4	731.9	87.50	.2210
#1	.0013	.0051	-.0003	-.0023	-.0031	-.0060	.0012	-.0363	83.99
#2	.0002	.0039	-.0084	-.0016	.0010	.0055	.0016	-.0000	84.16
#3	.0014	.0047	-.0003	-.0019	.0033	-.0052	-.0041	-.0306	83.79

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0298**	**5.301**	**7.770**	**36.82**	**.0976**	**.0193**	**5.646**	**-.0013**	**.1594**
Stddev	.0139	.068	.186	.08	.0013	.0007	.003	.0030	.0006
%RSD	46.51	1.277	2.388	.2131	1.342	3.774	.0457	234.9	.3816
#1	.0444	5.334	7.573	36.88	.0964	.0194	5.644	.0012	.1600
#2	.0282	5.347	7.941	36.86	.0990	.0200	5.645	-.0004	.1594
#3	.0168	5.224	7.796	36.73	.0973	.0185	5.649	-.0047	.1588

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0145**	**-.0004**	**63.84**	**-.0070**	**-.0014**	**.0041**
Stddev	.0014	.0015	.0003	.55	.0061	.0034	.0053
%RSD	103.9	10.06	84.07	.8657	87.86	234.7	130.1
#1	.0006	.0162	-.0008	64.10	-.0063	.0018	-.0010
#2	.0031	.0138	-.0003	63.21	-.0012	-.0011	.0096
#3	.0005	.0137	-.0001	64.22	-.0134	-.0049	.0037

Zoom In Zoom Out

Sample Name: MP10982-SD2 Acquired: 12/5/2018 21:58:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101860.**	**19239.**	**4212.8**	**9193.1**
Stddev	75.	13.	9.5	24.3
%RSD	.07372	.06954	.22642	.26378
#1	101770.	19238.	4209.9	9185.6
#2	101900.	19226.	4205.1	9173.4
#3	101890.	19253.	4223.5	9220.2

Zoom In Zoom Out

Sample Name: JC78712-1 Acquired: 12/5/2018 22:03:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0415**	**.0003**	**.0004**	**.0036**	**.0102**	**.0236**	**.0865**	**.0085**	**.0002**
Stddev	.0003	.0000	.0002	.0001	.0001	.0001	.0005	.0005	.0002
%RSD	.6615	13.12	47.98	3.463	1.060	.5990	.5825	6.115	96.96
#1	.0412	.0003	.0002	.0037	.0101	.0236	.0860	.0091	.0000
#2	.0416	.0003	.0005	.0035	.0104	.0236	.0870	.0085	.0004
#3	.0416	.0003	.0005	.0035	.0102	.0238	.0866	.0080	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100**	**.1126**	**.0065**	**-.0002**	**.0094**	**-.0020**	**.0013**	**2.432**	**17.79**
Stddev	.0001	.0009	.0003	.0007	.0005	.0012	.0005	.009	.05
%RSD	1.158	.8369	3.846	395.5	4.926	57.95	37.22	.3490	.2778
#1	.0100	.1119	.0068	-.0009	.0092	-.0029	.0017	2.438	17.76
#2	.0100	.1123	.0066	-.0001	.0090	-.0023	.0008	2.422	17.76
#3	.0102	.1137	.0063	.0005	.0099	-.0007	.0015	2.436	17.85

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.967**	**7.180**	**3.131**	**32.52**	**.1016**	**.0008**	**14.64**	**-.0017**	**.0976**
Stddev	.012	.033	.016	.05	.0011	.0002	.11	.0003	.0001
%RSD	.1325	.4540	.5217	.1480	1.092	25.71	.7777	21.05	.1142
#1	8.978	7.204	3.141	32.57	.1013	.0011	14.58	-.0018	.0977
#2	8.954	7.143	3.112	32.49	.1006	.0007	14.58	-.0013	.0975
#3	8.968	7.193	3.140	32.49	.1028	.0007	14.78	-.0019	.0975

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0321**	**.0145**	**.0003**	**7.166**	**-.0013**	**.0053**	**.3165**
Stddev	.0004	.0006	.0001	.109	.0008	.0005	.0044
%RSD	1.297	4.428	23.92	1.516	62.53	8.884	1.400
#1	.0325	.0145	.0003	7.160	-.0005	.0058	.3171
#2	.0322	.0138	.0004	7.061	-.0021	.0051	.3118
#3	.0317	.0151	.0002	7.278	-.0013	.0049	.3206

Zoom In Zoom Out

Sample Name: JC78712-1 Acquired: 12/5/2018 22:03:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101170.**	**19517.**	**4199.5**	**8878.2**
Stddev	44.	52.	20.0	53.2
%RSD	.04306	.26520	.47563	.59873
#1	101120.	19506.	4208.6	8898.0
#2	101200.	19472.	4213.3	8918.7
#3	101190.	19573.	4176.6	8818.0

Zoom In Zoom Out

Sample Name: JC78712-2 Acquired: 12/5/2018 22:08:55 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4379**	**.0054**	**-.0001**	**.0210**	**.0029**	**.0129**	**.9764**	**.0475**	**.0016**
Stddev	.0009	.0001	.0001	.0004	.0003	.0003	.0025	.0001	.0007
%RSD	.1980	1.341	157.7	1.708	9.996	2.676	.2589	.2693	43.19
#1	.4388	.0053	.0000	.0210	.0029	.0131	.9779	.0476	.0008
#2	.4378	.0054	-.0001	.0214	.0026	.0132	.9735	.0474	.0022
#3	.4370	.0055	-.0002	.0207	.0032	.0126	.9778	.0475	.0019

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080**	**.1150**	**.0014**	**-.0004**	**.0008**	**.0000**	**.0005**	**.4611**	**31.73**
Stddev	.0002	.0001	.0005	.0005	.0003	.0023	.0002	.0037	.02
%RSD	2.699	.0713	34.10	140.5	34.15	11270.	45.56	.8100	.0700
#1	.0082	.1149	.0014	-.0009	.0009	.0017	.0004	.4652	31.73
#2	.0080	.1150	.0009	-.0003	.0005	-.0026	.0008	.4603	31.71
#3	.0078	.1151	.0018	.0001	.0010	.0010	.0004	.4578	31.76

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**54.58**	**46.25**	**11.37**	**72.46**	**.0642**	**.0003**	**5.178**	**-.0012**	**.3215**
Stddev	.02	.34	.01	.09	.0012	.0001	.007	.0008	.0003
%RSD	.0283	.7439	.0994	.1207	1.922	20.96	.1277	67.42	.1074
#1	54.59	45.87	11.36	72.50	.0630	.0002	5.172	-.0006	.3218
#2	54.56	46.36	11.36	72.52	.0654	.0003	5.185	-.0008	.3214
#3	54.59	46.53	11.38	72.36	.0642	.0003	5.177	-.0021	.3211

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0068**	**-.0006**	**7.933**	**.0032**	**.0160**	**.0461**
Stddev	.0004	.0004	.0003	.082	.0007	.0006	.0015
%RSD	10.28	5.380	46.87	1.030	21.57	3.637	3.180
#1	.0038	.0067	-.0004	7.953	.0027	.0167	.0445
#2	.0036	.0072	-.0010	8.002	.0039	.0158	.0474
#3	.0031	.0066	-.0006	7.843	.0029	.0156	.0463

Zoom In Zoom Out

Sample Name: JC78712-2 Acquired: 12/5/2018 22:08:55 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97906.**	**19238.**	**4069.7**	**8504.2**
Stddev	312.	58.	6.8	21.1
%RSD	.31869	.30170	.16700	.24781
#1	98098.	19300.	4063.2	8482.9
#2	98075.	19185.	4076.8	8525.0
#3	97546.	19229.	4069.0	8504.7

Zoom In Zoom Out

Sample Name: JC78712-3 Acquired: 12/5/2018 22:14:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0522**	**.0001**	**.0005**	**.0014**	**.0042**	**.0530**	**.2963**	**.0103**	**.0017**
Stddev	.0002	.0001	.0001	.0002	.0003	.0005	.0012	.0002	.0003
%RSD	.3274	77.26	20.28	17.96	8.098	.9536	.4100	2.246	18.80
#1	.0524	.0000	.0005	.0016	.0045	.0527	.2957	.0100	.0014
#2	.0522	.0002	.0006	.0014	.0041	.0527	.2955	.0104	.0017
#3	.0521	.0001	.0004	.0011	.0038	.0536	.2977	.0104	.0020

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.2904**	**.0201**	**-.0013**	**.0060**	**.0011**	**.0032**	**.5291**	**52.53**
Stddev	.0002	.0004	.0009	.0011	.0018	.0011	.0007	.0046	.01
%RSD	4.764	.1343	4.236	86.60	30.20	99.30	22.42	.8713	.0240
#1	.0045	.2907	.0194	-.0000	.0071	-.0000	.0038	.5238	52.54
#2	.0041	.2900	.0211	-.0021	.0039	.0022	.0024	.5315	52.55
#3	.0041	.2905	.0199	-.0017	.0071	.0013	.0034	.5320	52.52

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.22**	**8.193**	**9.278**	**170.2**	**.1808**	**.0233**	**6.374**	**-.0001**	**.2884**
Stddev	.01	.089	.003	1.1	.0005	.0001	.013	.0007	.0004
%RSD	.0137	1.090	.0331	.6341	.2821	.5389	.1983	774.0	.1254
#1	49.21	8.092	9.280	169.1	.1810	.0232	6.388	-.0001	.2888
#2	49.22	8.261	9.280	171.3	.1802	.0234	6.367	-.0007	.2883
#3	49.22	8.227	9.275	170.2	.1812	.0232	6.366	.0006	.2880

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0134**	**.0090**	**.0000**	**5.995**	**.0025**	**.0032**	**.3072**
Stddev	.0001	.0003	.0001	.030	.0015	.0010	.0022
%RSD	1.000	3.721	415.1	.4994	60.17	30.38	.7257
#1	.0135	.0088	.0001	5.993	.0038	.0021	.3053
#2	.0133	.0094	-.0000	5.967	.0027	.0035	.3066
#3	.0134	.0088	-.0000	6.027	.0009	.0040	.3097

Zoom In Zoom Out

Sample Name: JC78712-3 Acquired: 12/5/2018 22:14:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96282.**	**18961.**	**4054.8**	**8333.6**
Stddev	308.	41.	4.2	6.7
%RSD	.31937	.21838	.10320	.08021
#1	96630.	19009.	4050.3	8336.5
#2	96047.	18940.	4055.7	8325.9
#3	96168.	18934.	4058.5	8338.3

Zoom In Zoom Out

Sample Name: JC78712-4 Acquired: 12/5/2018 22:19:21 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1371**	**.0009**	**.0005**	**.0275**	**.0019**	**.0079**	**.4879**	**.0313**
Stddev	.0003	.0000	.0001	.0002	.0004	.0002	.0011	.0004
%RSD	.2369	4.421	13.86	.8017	20.16	2.965	.2238	1.122
#1	.1375	.0009	.0005	.0277	.0014	.0080	.4890	.0317
#2	.1371	.0009	.0006	.0275	.0020	.0077	.4879	.0311
#3	.1369	.0009	.0005	.0272	.0021	.0082	.4868	.0310

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0015**	**.1642**	**.0005**	**-.0006**	**.0005**	**-.0002**	**-.0010**
Stddev	.0002	.0001	.0001	.0005	.0007	.0004	.0020	.0007
%RSD	34.61	7.450	.0379	99.81	125.7	85.31	917.6	66.37
#1	.0006	.0015	.1642	-.0001	-.0005	.0010	.0013	-.0003
#2	.0007	.0016	.1641	.0008	-.0013	.0001	.0005	-.0012
#3	.0003	.0014	.1643	.0007	.0001	.0004	-.0024	-.0015

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7538**	**51.89**	**1.219**	**12.80**	**9.152**	W **217.9**	**.1441**	**.0002**
Stddev	.0068	.01	.006	.05	.030	.8	.0006	.0002
%RSD	.8960	.0173	.5248	.3694	.3250	.3622	.4319	121.1
#1	.7509	51.89	1.212	12.74	9.131	217.6	.1439	-.0000
#2	.7490	51.89	1.221	12.84	9.138	217.2	.1436	.0004
#3	.7615	51.88	1.224	12.81	9.186	218.8	.1448	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.723**	**-.0010**	**.2184**	**.0026**	**.0074**	**.0005**	**19.62**	**-.0008**
Stddev	.006	.0005	.0003	.0009	.0005	.0003	.11	.0016
%RSD	.1205	43.89	.1588	34.32	6.618	50.60	.5418	209.7
#1	4.717	-.0015	.2187	.0037	.0079	.0005	19.75	-.0026
#2	4.728	-.0007	.2184	.0021	.0069	.0008	19.56	.0006
#3	4.724	-.0008	.2180	.0022	.0074	.0003	19.56	-.0003

Zoom In Zoom Out

Sample Name: JC78712-4 Acquired: 12/5/2018 22:19:21 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0046**	**.0226**
Stddev	.0009	.0009
%RSD	19.18	3.771
#1	.0036	.0216
#2	.0049	.0227
#3	.0053	.0233

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96894.**	**19091.**	**4025.7**	**8189.8**
Stddev	271.	62.	5.2	3.0
%RSD	.28010	.32630	.13010	.03697
#1	96581.	19060.	4031.7	8192.2
#2	97066.	19162.	4023.6	8190.7
#3	97035.	19050.	4021.9	8186.4

Zoom In Zoom Out

Sample Name: JC78712-5 Acquired: 12/5/2018 22:24:39 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0892**	**.0020**	**.0030**	**.0209**	**.0329**	**.3331**	**.0397**	**.0680**	**.0007**
Stddev	.0002	.0000	.0002	.0001	.0009	.0079	.0009	.0004	.0006
%RSD	.1969	1.776	6.977	.3719	2.769	2.377	2.359	.5546	87.49
#1	.0892	.0020	.0032	.0208	.0340	.3422	.0408	.0681	.0013
#2	.0893	.0019	.0029	.0209	.0325	.3289	.0392	.0683	.0009
#3	.0890	.0020	.0028	.0209	.0324	.3282	.0392	.0676	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0419**	**.5474**	**.0222**	**-.0009**	**.0188**	**.0015**	**.0336**	**5.296**	**1.999**
Stddev	.0010	.0011	.0008	.0004	.0007	.0007	.0009	.009	.009
%RSD	2.412	.1952	3.714	39.83	3.753	46.59	2.754	.1767	.4250
#1	.0430	.5479	.0221	-.0012	.0186	.0019	.0329	5.299	2.004
#2	.0414	.5481	.0231	-.0005	.0183	.0020	.0333	5.286	1.989
#3	.0412	.5462	.0215	-.0011	.0196	.0007	.0347	5.304	2.003

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.58**	**.7824**	**4.631**	**108.4**	**.5526**	**.1003**	**9.819**	**.0110**	**.0106**
Stddev	.02	.0067	.027	.1	.0020	.0004	.009	.0010	.0001
%RSD	.1948	.8599	.5867	.0677	.3585	.3524	.0876	9.320	1.137
#1	10.60	.7885	4.656	108.5	.5549	.1006	9.817	.0114	.0105
#2	10.56	.7752	4.636	108.4	.5514	.0999	9.829	.0098	.0105
#3	10.57	.7835	4.602	108.3	.5515	.1003	9.813	.0118	.0107

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0744**	**.0130**	**.0100**	**10.61**	**-.0008**	**.0029**	**3.024**
Stddev	.0018	.0005	.0001	.04	.0018	.0002	.014
%RSD	2.419	4.005	1.014	.3510	237.4	8.145	.4687
#1	.0765	.0124	.0102	10.61	-.0020	.0031	3.029
#2	.0736	.0134	.0100	10.57	-.0016	.0026	3.008
#3	.0732	.0132	.0100	10.64	.0013	.0029	3.035

Zoom In Zoom Out

Sample Name: JC78712-5 Acquired: 12/5/2018 22:24:39 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96828.**	**18766.**	**4127.8**	**8571.1**
Stddev	2029.	73.	3.6	2.6
%RSD	2.0951	.38868	.08763	.03028
#1	94486.	18682.	4131.1	8572.1
#2	98044.	18803.	4123.9	8568.2
#3	97954.	18813.	4128.3	8573.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 22:29:44 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.074**	**2.082**	**2.098**	**2.056**	**2.092**	**2.035**	**2.096**	**2.085**	**.2492**
Stddev	.002	.001	.003	.001	.001	.005	.002	.001	.0006
%RSD	.0980	.0510	.1618	.0456	.0431	.2624	.0929	.0540	.2575
#1	2.076	2.083	2.101	2.057	2.092	2.038	2.094	2.086	.2494
#2	2.072	2.082	2.099	2.056	2.092	2.037	2.097	2.085	.2498
#3	2.075	2.081	2.095	2.055	2.093	2.028	2.098	2.084	.2485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.068**	**2.107**	**2.012**	**2.179**	**2.097**	**2.076**	**1.972**	**39.50**	**39.98**
Stddev	.001	.001	.006	.017	.001	.005	.008	.04	.04
%RSD	.0699	.0504	.2914	.7621	.0656	.2563	.3887	.0937	.1027
#1	2.067	2.108	2.008	2.163	2.098	2.079	1.976	39.51	40.02
#2	2.067	2.106	2.019	2.196	2.095	2.079	1.978	39.46	39.94
#3	2.069	2.106	2.010	2.179	2.097	2.070	1.964	39.54	39.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.11**	**39.91**	**39.59**	**39.82**	**2.058**	**1.985**	**4.912**	**2.035**	**2.075**
Stddev	.05	.03	.06	.07	.003	.003	.009	.005	.003
%RSD	.1169	.0805	.1465	.1874	.1467	.1646	.1731	.2415	.1206
#1	40.14	39.94	39.61	39.89	2.061	1.985	4.919	2.030	2.077
#2	40.12	39.88	39.52	39.74	2.059	1.988	4.915	2.040	2.073
#3	40.05	39.90	39.63	39.82	2.055	1.981	4.903	2.036	2.076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 22:29:44 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.984**	**1.979**	**1.960**	**2.018**	**2.017**	**1.999**	**2.120**
Stddev	.008	.004	.002	.020	.003	.003	.017
%RSD	.4052	.1848	.0894	.9749	.1686	.1498	.7863
#1	1.977	1.982	1.959	2.000	2.019	2.001	2.104
#2	1.993	1.980	1.959	2.039	2.019	1.995	2.137
#3	1.983	1.975	1.962	2.015	2.013	2.000	2.119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98414.**	**18959.**	**4120.0**	**8450.0**
Stddev	198.	53.	12.6	13.9
%RSD	.20123	.27702	.30574	.16507
#1	98318.	18931.	4108.2	8439.5
#2	98642.	19019.	4118.5	8444.6
#3	98283.	18926.	4133.3	8465.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 22:34:35 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0003**	**.0002**	**.0003**	**-.0002**	**.0002**	**.0006**	**-.0002**
Stddev	.0002	.0001	.0001	.0000	.0003	.0001	.0001	.0001	.0003
%RSD	254.6	111.6	30.18	19.68	115.7	69.21	45.42	24.07	152.2
#1	.0003	.0001	.0004	.0002	-.0000	-.0002	.0001	.0004	-.0005
#2	-.0001	.0001	.0002	.0002	.0006	-.0000	.0001	.0006	.0000
#3	.0000	-.0000	.0004	.0002	.0002	-.0003	.0003	.0007	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0003**	**.0009**	**.0003**	**.0006**	**-.0017**	**-.0004**	**-.0021**	**.0021**
Stddev	.0001	.0001	.0008	.0002	.0007	.0006	.0002	.0038	.0009
%RSD	25.34	56.89	92.70	56.19	119.8	35.08	50.62	175.6	43.92
#1	.0004	.0003	.0011	.0003	-.0002	-.0016	-.0006	-.0065	.0015
#2	.0006	.0001	-.0000	.0005	.0011	-.0023	-.0002	.0002	.0031
#3	.0005	.0004	.0016	.0001	.0009	-.0011	-.0004	-.0001	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**-.0096**	**.0379**	**.0230**	**.0001**	**.0007**	**.0020**	**.0003**	**.0001**
Stddev	.0004	.0201	.0180	.0031	.0010	.0001	.0008	.0005	.0001
%RSD	11.15	208.2	47.34	13.34	721.7	16.07	40.26	178.9	106.0
#1	.0029	-.0130	.0173	.0236	-.0004	.0006	.0028	.0001	.0001
#2	.0030	.0119	.0467	.0197	-.0005	.0007	.0013	.0009	-.0000
#3	.0036	-.0278	.0499	.0258	.0013	.0008	.0018	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 22:34:35 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0020**	**.0002**	**.0005**	**.0003**	**.0009**	**.0002**
Stddev	.0002	.0009	.0002	.0004	.0003	.0012	.0007
%RSD	30.58	47.56	77.98	80.37	77.19	123.9	470.1
#1	.0005	.0021	.0000	.0001	.0006	.0003	.0001
#2	.0008	.0028	.0003	.0008	.0004	.0023	-.0005
#3	.0010	.0010	.0003	.0006	.0001	.0002	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102940.**	**19108.**	**4257.3**	**9438.4**
Stddev	334.	25.	2.4	10.6
%RSD	.32449	.12891	.05672	.11246
#1	102840.	19108.	4254.6	9428.6
#2	102670.	19133.	4259.1	9437.0
#3	103320.	19084.	4258.2	9449.7

Zoom In Zoom Out

Sample Name: JC78731-1 Acquired: 12/5/2018 22:39:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0000**	**.0003**	**.0001**	**.0010**	**.0002**	**.0003**	**.0005**	**.0001**
Stddev	.0002	.0000	.0002	.0000	.0002	.0003	.0000	.0003	.0002
%RSD	82.31	139.5	91.84	47.31	15.92	138.4	9.976	60.31	129.7
#1	.0005	-.0000	.0004	.0000	.0009	.0004	.0003	.0006	-.0001
#2	.0001	.0001	.0004	.0001	.0010	.0004	.0003	.0001	.0003
#3	.0002	.0000	-.0000	.0001	.0012	-.0001	.0004	.0006	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0013**	**.0004**	**-.0012**	**.0004**	**.0014**	**-.0001**	**.0027**	**.0219**
Stddev	.0001	.0002	.0008	.0005	.0005	.0004	.0021	.0022	.0034
%RSD	54.58	16.02	204.3	41.45	111.2	25.67	1644.	82.20	15.43
#1	.0002	.0013	-.0002	-.0007	.0008	.0015	.0003	.0051	.0183
#2	.0004	.0011	.0000	-.0018	-.0001	.0010	-.0024	.0024	.0226
#3	.0001	.0015	.0012	-.0012	.0005	.0016	.0018	.0007	.0249

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0094**	**.0097**	**-.0060**	**.0228**	**.0002**	**.0005**	**.0784**	**.0002**	**.0001**
Stddev	.0034	.0164	.0202	.0064	.0005	.0001	.0007	.0002	.0000
%RSD	36.03	169.3	337.0	28.25	258.2	25.66	.9252	106.5	36.01
#1	.0080	.0146	-.0283	.0249	.0008	.0004	.0778	.0000	.0001
#2	.0069	-.0086	.0110	.0156	-.0003	.0006	.0781	.0004	.0002
#3	.0132	.0231	-.0007	.0279	.0001	.0005	.0792	.0001	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0036**	**.0007**	**.0057**	**.0009**	**-.0002**	**.0014**
Stddev	.0003	.0004	.0001	.0002	.0011	.0004	.0012
%RSD	33.93	9.951	10.59	2.931	125.8	199.6	85.54
#1	.0011	.0039	.0007	.0056	.0003	-.0006	.0008
#2	.0005	.0032	.0008	.0058	.0022	.0001	.0006
#3	.0009	.0036	.0006	.0059	.0002	-.0001	.0027

Zoom In Zoom Out

Sample Name: JC78731-1 Acquired: 12/5/2018 22:39:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103540.**	**19228.**	**4252.2**	**9424.8**
Stddev	237.	293.	6.3	15.9
%RSD	.22846	1.5238	.14895	.16872
#1	103370.	18893.	4259.5	9437.7
#2	103810.	19351.	4248.6	9429.8
#3	103430.	19439.	4248.5	9407.0

Zoom In Zoom Out

Sample Name: JC78731-2 Acquired: 12/5/2018 22:45:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0599**	**-.0001**	**.0021**	**.0095**	F **15.67**	**.0316**	**1.433**	**.0242**
Stddev	.0001	.0000	.0001	.0001	.03	.0005	.003	.0005
%RSD	.1952	41.35	6.090	1.049	.1630	1.458	.1990	2.080
#1	.0598	-.0001	.0023	.0094	15.70	.0322	1.436	.0246
#2	.0600	-.0001	.0020	.0096	15.66	.0314	1.433	.0236
#3	.0599	-.0001	.0021	.0095	15.65	.0314	1.431	.0243

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**-.0011**	**.0158**	**.0112**	F **-.0027**	**-.0013**	**-.0028**	**-.0042**
Stddev	.0001	.0003	.0002	.0006	.0006	.0006	.0008	.0013
%RSD	4.865	23.78	1.053	5.499	22.86	44.52	29.11	30.28
#1	.0023	-.0014	.0157	.0118	-.0033	-.0011	-.0038	-.0030
#2	.0026	-.0011	.0157	.0113	-.0021	-.0020	-.0025	-.0055
#3	.0024	-.0009	.0160	.0106	-.0026	-.0008	-.0023	-.0041

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078**	F **287.5**	**.0789**	**56.24**	**11.81**	W **210.6**	**.8337**	**.0121**
Stddev	.0109	2.9	.0028	.27	.07	1.5	.0044	.0001
%RSD	139.8	1.002	3.492	.4849	.6304	.7024	.5306	.7677
#1	.0002	287.2	.0813	56.03	11.74	209.1	.8388	.0121
#2	.0029	284.8	.0795	56.15	11.80	212.1	.8310	.0121
#3	.0203	290.5	.0759	56.55	11.89	210.5	.8314	.0120

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.488**	**-.0020**	**.7484**	W **-.0016**	**.0170**	**.0058**	F **273.1**	**-.0031**
Stddev	.061	.0004	.0006	.0007	.0007	.0000	.8	.0001
%RSD	.7144	20.58	.0817	42.23	4.379	.7674	.2832	2.004
#1	8.558	-.0017	.7481	-.0014	.0174	.0059	273.9	-.0031
#2	8.450	-.0019	.7491	-.0024	.0161	.0058	272.4	-.0031
#3	8.456	-.0025	.7480	-.0011	.0175	.0058	272.9	-.0030

Zoom In Zoom Out

Sample Name: JC78731-2 Acquired: 12/5/2018 22:45:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0004**	**.0630**
Stddev	.0004	.0008
%RSD	101.5	1.218
#1	-.0001	.0624
#2	.0006	.0639
#3	.0008	.0627

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92044.**	**18640.**	**3701.9**	**7760.8**
Stddev	126.	49.	27.8	47.8
%RSD	.13720	.26269	.75204	.61563
#1	91996.	18680.	3669.9	7705.6
#2	92187.	18655.	3714.6	7787.9
#3	91949.	18586.	3721.1	7788.9

Zoom In Zoom Out

Sample Name: JC78731-3 Acquired: 12/5/2018 22:50:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0573**	**-.0000**	**.0019**	**.0092**	F **15.52**	**.0299**	**1.377**	**.0237**
Stddev	.0002	.0000	.0001	.0003	.03	.0005	.000	.0004
%RSD	.3000	1260.	4.445	3.308	.1616	1.670	.0161	1.537
#1	.0571	.0000	.0018	.0093	15.51	.0294	1.377	.0241
#2	.0574	-.0000	.0019	.0089	15.51	.0300	1.377	.0236
#3	.0573	-.0000	.0018	.0095	15.55	.0304	1.378	.0234

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**-.0012**	**.0163**	**.0117**	F **-.0029**	**-.0008**	**-.0012**	**-.0010**
Stddev	.0004	.0002	.0001	.0003	.0006	.0003	.0015	.0019
%RSD	14.34	16.68	.3478	2.178	21.06	35.25	125.4	192.6
#1	.0023	-.0012	.0163	.0116	-.0031	-.0006	-.0010	.0011
#2	.0030	-.0013	.0163	.0114	-.0034	-.0012	.0002	-.0017
#3	.0029	-.0009	.0162	.0119	-.0022	-.0008	-.0028	-.0024

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0048**	F **274.6**	**.0596**	**54.26**	**11.42**	**199.9**	**.8155**	**.0118**
Stddev	.0017	1.5	.0015	.12	.05	.9	.0034	.0001
%RSD	34.62	.5579	2.512	.2125	.4437	.4454	.4134	.8044
#1	-.0033	276.3	.0610	54.36	11.36	199.1	.8171	.0117
#2	-.0065	273.5	.0580	54.13	11.46	200.8	.8116	.0119
#3	-.0045	273.9	.0597	54.27	11.44	199.7	.8178	.0117

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.211**	**-.0029**	**.7175**	W **-.0024**	**.0165**	**.0060**	F **263.2**	**-.0023**
Stddev	.019	.0005	.0018	.0004	.0003	.0000	1.3	.0009
%RSD	.2288	17.12	.2480	18.47	1.916	.4654	.4817	40.09
#1	8.230	-.0023	.7158	-.0029	.0167	.0060	263.8	-.0033
#2	8.192	-.0032	.7193	-.0022	.0167	.0060	261.8	-.0017
#3	8.210	-.0031	.7174	-.0021	.0161	.0060	264.1	-.0018

Zoom In Zoom Out

Sample Name: JC78731-3 Acquired: 12/5/2018 22:50:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0020**	**.0602**
Stddev	.0004	.0008
%RSD	19.02	1.333
#1	.0016	.0611
#2	.0021	.0599
#3	.0023	.0595

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92664.**	**18642.**	**3698.8**	**7765.7**
Stddev	49.	51.	13.0	26.4
%RSD	.05301	.27251	.35113	.33945
#1	92607.	18634.	3683.8	7735.6
#2	92689.	18596.	3706.6	7776.8
#3	92696.	18696.	3706.0	7784.7

Zoom In Zoom Out

Sample Name: JC78731-1F Acquired: 12/5/2018 22:56:02 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0001**	**.0002**	**.0003**	**-.0000**	**.0002**	**.0000**	**-.0002**
Stddev	.0002	.0000	.0002	.0002	.0004	.0004	.0000	.0005	.0001
%RSD	343.3	140.2	182.7	132.1	148.8	2676.	17.49	1728.	43.91
#1	-.0001	.0000	.0001	.0004	.0007	-.0004	.0002	.0001	-.0001
#2	.0002	.0000	-.0001	.0001	-.0002	.0002	.0002	-.0005	-.0003
#3	.0000	-.0000	.0003	-.0000	.0004	.0002	.0002	.0005	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0010**	**-.0006**	**-.0012**	**-.0004**	**-.0022**	**-.0004**	**-.0010**	**.0245**
Stddev	.0002	.0001	.0009	.0005	.0004	.0010	.0015	.0062	.0020
%RSD	102.8	9.697	165.4	40.48	100.7	44.07	374.0	603.3	8.278
#1	.0004	.0010	-.0016	-.0016	-.0007	-.0026	-.0019	.0059	.0237
#2	.0001	.0011	.0001	-.0011	.0001	-.0028	-.0004	-.0029	.0231
#3	.0001	.0010	-.0002	-.0007	-.0006	-.0011	.0011	-.0062	.0269

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**.0003**	**.0664**	**.0646**	**.0001**	**.0001**	**.0782**	**-.0003**	**.0001**
Stddev	.0012	.0241	.0082	.0025	.0004	.0001	.0012	.0005	.0001
%RSD	19.73	8079.	12.34	3.824	313.4	97.38	1.518	191.3	72.51
#1	.0054	.0267	.0582	.0675	.0003	.0002	.0792	.0003	.0001
#2	.0073	-.0205	.0746	.0631	-.0003	.0000	.0769	-.0007	.0001
#3	.0052	-.0052	.0664	.0633	.0004	.0000	.0785	-.0005	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0009**	**.0000**	**.0211**	**-.0015**	**.0002**	**.0004**
Stddev	.0003	.0005	.0001	.0015	.0016	.0010	.0013
%RSD	35.77	60.53	438.4	6.891	103.3	600.1	350.8
#1	.0007	.0015	.0001	.0225	-.0033	.0002	.0019
#2	.0006	.0007	-.0001	.0210	-.0010	.0012	-.0002
#3	.0012	.0005	.0000	.0196	-.0003	-.0008	-.0005

Zoom In Zoom Out

Sample Name: JC78731-1F Acquired: 12/5/2018 22:56:02 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104360.**	**19464.**	**4275.9**	**9481.5**
Stddev	196.	120.	15.1	23.3
%RSD	.18805	.61903	.35423	.24612
#1	104170.	19555.	4270.0	9477.2
#2	104560.	19328.	4293.1	9506.7
#3	104340.	19510.	4264.5	9460.6

Zoom In Zoom Out

Sample Name: JC78731-2F Acquired: 12/5/2018 23:01:18 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0597**	**-.0000**	**.0022**	**.0096**	F **15.80**	**.0307**	**1.436**	**.0241**
Stddev	.0002	.0000	.0000	.0003	.01	.0002	.002	.0006
%RSD	.3898	108.5	1.711	3.112	.0606	.5124	.1091	2.320
#1	.0594	-.0001	.0022	.0093	15.80	.0308	1.434	.0245
#2	.0598	-.0000	.0022	.0098	15.80	.0307	1.437	.0242
#3	.0598	.0000	.0021	.0096	15.78	.0305	1.437	.0234

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**-.0015**	**.0154**	**.0103**	F **-.0033**	**-.0007**	**-.0017**	**-.0017**
Stddev	.0003	.0003	.0001	.0022	.0007	.0004	.0004	.0031
%RSD	9.250	19.28	.7457	20.99	22.05	50.04	25.13	184.5
#1	.0030	-.0012	.0154	.0079	-.0041	-.0012	-.0021	.0016
#2	.0025	-.0018	.0156	.0107	-.0027	-.0004	-.0018	-.0021
#3	.0030	-.0015	.0154	.0121	-.0032	-.0006	-.0013	-.0046

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0168**	F **290.2**	**.0189**	**56.84**	**11.79**	W **208.9**	**.8379**	**.0122**
Stddev	.0072	3.3	.0034	.20	.03	1.0	.0068	.0002
%RSD	43.05	1.126	18.20	.3451	.2432	.4611	.8155	1.358
#1	-.0213	294.0	.0153	56.85	11.77	208.3	.8450	.0124
#2	-.0206	288.2	.0194	56.64	11.77	210.0	.8374	.0123
#3	-.0085	288.5	.0221	57.03	11.82	208.5	.8314	.0121

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.461**	**-.0028**	**.7478**	W **-.0042**	**.0170**	**.0058**	F **275.0**	**-.0029**
Stddev	.034	.0006	.0016	.0001	.0007	.0002	2.3	.0017
%RSD	.4064	20.73	.2158	3.090	3.889	2.605	.8312	57.16
#1	8.494	-.0035	.7470	-.0042	.0163	.0058	277.4	-.0034
#2	8.463	-.0025	.7468	-.0043	.0171	.0059	274.6	-.0011
#3	8.425	-.0025	.7497	-.0041	.0176	.0056	272.9	-.0043

Zoom In Zoom Out

Sample Name: JC78731-2F Acquired: 12/5/2018 23:01:18 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0007**	**.0573**
Stddev	.0005	.0010
%RSD	69.68	1.753
#1	.0006	.0571
#2	.0003	.0584
#3	.0013	.0564

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92350.**	**18546.**	**3697.8**	**7754.7**
Stddev	142.	61.	15.4	33.1
%RSD	.15349	.32652	.41667	.42724
#1	92285.	18533.	3680.3	7716.8
#2	92253.	18612.	3703.5	7769.2
#3	92513.	18494.	3709.5	7778.0

Zoom In Zoom Out

Sample Name: JC78731-3F Acquired: 12/5/2018 23:06:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0583**	**-.0000**	**.0022**	**.0094**	F **15.72**	**.0304**	**1.411**	**.0237**
Stddev	.0001	.0001	.0001	.0002	.02	.0002	.002	.0004
%RSD	.1185	343.8	4.775	1.857	.1057	.8065	.1409	1.863
#1	.0583	-.0001	.0021	.0095	15.73	.0306	1.413	.0241
#2	.0584	-.0001	.0022	.0092	15.70	.0302	1.409	.0237
#3	.0584	.0001	.0023	.0095	15.72	.0305	1.410	.0232

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**-.0015**	**.0160**	**.0113**	F **-.0040**	**-.0016**	**.0005**	**.0009**
Stddev	.0004	.0004	.0001	.0003	.0010	.0008	.0007	.0014
%RSD	13.14	24.19	.5267	2.627	25.51	53.34	143.1	164.7
#1	.0032	-.0013	.0161	.0109	-.0039	-.0023	.0008	-.0000
#2	.0032	-.0019	.0159	.0114	-.0031	-.0018	.0010	.0001
#3	.0025	-.0012	.0160	.0114	-.0051	-.0007	-.0003	.0025

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0185**	F **283.8**	**.0204**	**55.52**	**11.67**	W **206.9**	**.8285**	**.0120**
Stddev	.0048	2.5	.0013	.16	.05	1.0	.0029	.0003
%RSD	25.77	.8739	6.140	.2817	.4325	.4997	.3457	2.257
#1	-.0138	285.4	.0213	55.34	11.62	205.7	.8280	.0121
#2	-.0234	280.9	.0210	55.58	11.71	207.6	.8259	.0122
#3	-.0183	285.0	.0189	55.63	11.69	207.4	.8316	.0117

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.350**	**-.0029**	**.7330**	W **-.0031**	**.0169**	**.0058**	F **269.3**	**-.0026**
Stddev	.005	.0006	.0007	.0002	.0011	.0003	2.0	.0009
%RSD	.0548	20.45	.0889	5.226	6.280	4.301	.7283	36.33
#1	8.344	-.0033	.7322	-.0033	.0181	.0057	270.4	-.0015
#2	8.353	-.0032	.7332	-.0030	.0164	.0056	270.4	-.0028
#3	8.351	-.0022	.7335	-.0032	.0162	.0061	267.0	-.0034

Zoom In Zoom Out

Sample Name: JC78731-3F Acquired: 12/5/2018 23:06:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0021**	**.0572**
Stddev	.0008	.0007
%RSD	36.10	1.201
#1	.0015	.0564
#2	.0018	.0575
#3	.0029	.0576

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92526.**	**18632.**	**3689.0**	**7748.5**
Stddev	420.	94.	3.1	2.6
%RSD	.45363	.50425	.08379	.03317
#1	92173.	18692.	3688.7	7745.6
#2	92990.	18681.	3692.2	7750.5
#3	92415.	18524.	3686.0	7749.5

Zoom In Zoom Out

Sample Name: JC78761-1 Acquired: 12/5/2018 23:12:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2316**	**.0002**	**.0000**	**.0002**	**.0011**	**.0115**	**1.567**	**.0027**
Stddev	.0002	.0000	.0001	.0001	.0002	.0005	.003	.0002
%RSD	.0863	10.09	401.8	47.02	17.38	4.020	.1718	8.078
#1	.2318	.0002	-.0000	.0003	.0010	.0115	1.570	.0026
#2	.2316	.0001	.0002	.0003	.0013	.0111	1.565	.0030
#3	.2314	.0002	-.0001	.0001	.0010	.0120	1.565	.0026

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0010**	**.0471**	**.0008**	**-.0001**	**.0011**	**-.0030**	**-.0003**
Stddev	.0003	.0001	.0002	.0014	.0003	.0004	.0009	.0007
%RSD	36.17	11.49	.4082	181.1	262.4	38.26	29.94	237.4
#1	.0010	.0011	.0469	-.0001	.0000	.0011	-.0032	.0004
#2	.0008	.0009	.0473	.0023	-.0005	.0007	-.0020	-.0004
#3	.0005	.0009	.0471	-.0000	.0001	.0015	-.0038	-.0009

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0113**	**41.04**	**6.797**	**23.75**	**2.462**	**18.38**	**.0684**	**-.0000**
Stddev	.0048	.08	.017	.05	.015	.05	.0005	.0003
%RSD	42.34	.1835	.2450	.1902	.6183	.2688	.7833	799.6
#1	-.0114	41.10	6.816	23.72	2.480	18.43	.0690	-.0000
#2	-.0064	40.95	6.783	23.74	2.453	18.36	.0681	-.0003
#3	-.0160	41.07	6.792	23.80	2.455	18.34	.0681	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.11**	**-.0022**	**.3254**	W **-.0017**	**.0163**	W **-.0015**	**7.040**	**-.0013**
Stddev	.03	.0005	.0006	.0007	.0012	.0002	.026	.0014
%RSD	.1545	24.12	.1827	38.99	7.348	13.80	.3725	107.6
#1	17.11	-.0017	.3261	-.0021	.0149	-.0012	7.038	-.0009
#2	17.13	-.0028	.3254	-.0009	.0171	-.0016	7.014	-.0030
#3	17.08	-.0022	.3249	-.0021	.0169	-.0016	7.066	-.0002

Zoom In Zoom Out

Sample Name: JC78761-1 Acquired: 12/5/2018 23:12:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0176**	**.1028**
Stddev	.0010	.0001
%RSD	5.468	.1395
#1	.0174	.1027
#2	.0186	.1028
#3	.0167	.1030

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100270.**	**19102.**	**4117.6**	**8757.4**
Stddev	519.	23.	8.0	14.8
%RSD	.51737	.12257	.19537	.16945
#1	99682.	19101.	4108.5	8740.9
#2	100470.	19126.	4120.6	8769.7
#3	100660.	19079.	4123.8	8761.4

Zoom In Zoom Out

Sample Name: JC78761-2 Acquired: 12/5/2018 23:17:17 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8143**	**.0001**	**.0002**	**-.0004**	**.0010**	**.0011**	**.5128**	**.0026**
Stddev	.0011	.0001	.0003	.0003	.0003	.0003	.0009	.0001
%RSD	.1309	52.93	162.3	60.74	28.78	29.97	.1780	3.706
#1	.8154	.0001	.0004	-.0007	.0008	.0014	.5120	.0027
#2	.8141	.0000	.0001	-.0002	.0009	.0012	.5125	.0026
#3	.8133	.0001	-.0000	-.0005	.0013	.0008	.5138	.0025

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0002**	**.0001**	**.0028**	**.0004**	**.0010**	**-.0017**	**-.0005**
Stddev	.0000	.0002	.0001	.0018	.0006	.0007	.0013	.0013
%RSD	5.493	112.1	223.1	62.32	152.3	73.50	72.67	273.7
#1	.0008	.0003	-.0001	.0025	-.0003	.0004	-.0030	-.0007
#2	.0008	-.0001	.0002	.0047	.0009	.0007	-.0017	-.0016
#3	.0009	.0003	.0001	.0012	.0007	.0018	-.0005	.0009

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0163**	**89.07**	**1.244**	**40.48**	**3.263**	**19.45**	**.0681**	**.0008**
Stddev	.0085	.20	.004	.11	.029	.02	.0009	.0001
%RSD	52.15	.2252	.3507	.2793	.8722	.1198	1.394	12.00
#1	-.0093	89.28	1.242	40.48	3.246	19.47	.0684	.0007
#2	-.0138	88.88	1.240	40.37	3.296	19.43	.0670	.0008
#3	-.0257	89.04	1.249	40.59	3.247	19.43	.0688	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.81**	**-.0020**	**1.213**	**-.0012**	**.0193**	W **-.0014**	**4.626**	**-.0020**
Stddev	.10	.0004	.002	.0005	.0006	.0002	.029	.0020
%RSD	.5162	21.03	.1207	39.63	3.151	12.87	.6262	99.81
#1	18.77	-.0023	1.215	-.0008	.0189	-.0016	4.618	-.0032
#2	18.74	-.0015	1.213	-.0011	.0200	-.0012	4.601	-.0032
#3	18.92	-.0022	1.212	-.0017	.0190	-.0014	4.657	.0003

Zoom In Zoom Out

Sample Name: JC78761-2 Acquired: 12/5/2018 23:17:17 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0242**	**.0648**
Stddev	.0007	.0001
%RSD	2.989	.1319
#1	.0242	.0649
#2	.0250	.0648
#3	.0235	.0647

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99275.**	**19056.**	**4046.6**	**8511.8**
Stddev	225.	64.	13.0	30.3
%RSD	.22662	.33402	.32041	.35600
#1	99060.	19024.	4056.7	8537.5
#2	99509.	19014.	4051.1	8519.6
#3	99256.	19129.	4032.0	8478.4

Zoom In Zoom Out

Sample Name: JC78761-3 Acquired: 12/5/2018 23:22:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0001**	**.0000**	**.0001**	**.0004**	**-.0003**	**.0013**	**.0024**	**.0000**
Stddev	.0002	.0000	.0002	.0002	.0001	.0001	.0000	.0001	.0001
%RSD	21.52	28.88	1347.	205.0	31.49	44.58	1.085	4.937	270.5
#1	.0006	.0001	-.0002	.0002	.0003	-.0002	.0013	.0025	-.0001
#2	.0007	.0001	.0001	-.0001	.0003	-.0002	.0012	.0023	.0001
#3	.0009	.0001	.0002	.0001	.0005	-.0004	.0013	.0023	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0047**	**.0005**	**-.0006**	**-.0001**	**.0008**	**-.0000**	**.0020**	**.2187**
Stddev	.0002	.0001	.0012	.0012	.0001	.0008	.0010	.0082	.0010
%RSD	81.19	1.840	223.3	195.9	157.7	94.44	3248.	400.9	.4640
#1	.0005	.0046	.0002	.0008	-.0001	.0002	.0003	-.0038	.2175
#2	.0001	.0048	.0019	-.0014	-.0002	.0006	.0007	.0114	.2192
#3	.0002	.0047	-.0005	-.0012	.0000	.0017	-.0011	-.0014	.2193

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0127**	**.1168**	**.1513**	**.0002**	**.0000**	**.5275**	**.0003**	**.0045**
Stddev	.0014	.0119	.0124	.0041	.0002	.0002	.0011	.0005	.0001
%RSD	36.58	93.58	10.63	2.695	131.0	4761.	.2086	162.8	1.631
#1	.0050	.0230	.1183	.1481	.0003	.0002	.5286	.0005	.0044
#2	.0023	-.0004	.1037	.1559	-.0001	-.0001	.5274	-.0002	.0046
#3	.0038	.0156	.1284	.1500	.0003	-.0001	.5264	.0006	.0045

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0010**	**-.0000**	**.0149**	**-.0013**	**-.0018**	**.0026**
Stddev	.0006	.0004	.0001	.0013	.0005	.0006	.0015
%RSD	73.51	38.64	1209.	8.493	41.31	35.22	56.81
#1	.0002	.0011	.0000	.0141	-.0007	-.0020	.0035
#2	.0008	.0012	.0000	.0141	-.0013	-.0011	.0035
#3	.0013	.0005	-.0001	.0163	-.0018	-.0023	.0009

Zoom In Zoom Out

Sample Name: JC78761-3 Acquired: 12/5/2018 23:22:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104460.**	**19385.**	**4261.7**	**9462.6**
Stddev	98.	29.	3.3	6.7
%RSD	.09377	.14786	.07627	.07059
#1	104490.	19356.	4258.0	9457.2
#2	104540.	19384.	4263.2	9470.1
#3	104350.	19414.	4263.9	9460.4

Zoom In Zoom Out

Sample Name: JC78781-1 Acquired: 12/5/2018 23:27:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0325**	**.0001**	**-.0002**	**.0015**	**.0388**	**.0095**	**.0908**	**.0164**	**.0011**
Stddev	.0004	.0002	.0002	.0001	.0002	.0003	.0001	.0003	.0003
%RSD	1.194	125.7	114.9	8.558	.5806	3.625	.1296	1.874	27.97
#1	.0324	.0001	-.0003	.0016	.0386	.0099	.0908	.0164	.0009
#2	.0321	.0000	-.0003	.0014	.0389	.0092	.0908	.0168	.0015
#3	.0329	.0003	.0001	.0014	.0390	.0094	.0910	.0162	.0010

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030**	**.3271**	**-.0007**	**-.0011**	**-.0006**	**-.0012**	**.0000**	**1.205**	**106.0**
Stddev	.0001	.0011	.0020	.0012	.0008	.0013	.0017	.010	.0
%RSD	2.893	.3256	304.4	104.6	139.5	108.3	9802.	.8616	.0206
#1	.0031	.3282	-.0003	-.0025	.0002	-.0002	.0005	1.207	106.0
#2	.0030	.3270	-.0029	-.0004	-.0006	-.0028	-.0019	1.193	106.0
#3	.0030	.3261	.0011	-.0005	-.0013	-.0007	.0014	1.213	106.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.174**	**7.762**	**7.773**	**37.28**	**.0375**	**.0155**	**6.179**	**.0029**	**.1892**
Stddev	.016	.057	.013	.02	.0003	.0001	.013	.0004	.0006
%RSD	.4871	.7343	.1649	.0598	.8773	.5745	.2176	13.47	.3061
#1	3.187	7.823	7.758	37.26	.0376	.0155	6.194	.0027	.1889
#2	3.177	7.755	7.780	37.27	.0371	.0154	6.177	.0026	.1888
#3	3.157	7.710	7.780	37.30	.0377	.0156	6.167	.0033	.1899

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1027**	**.0073**	**.0002**	**72.73**	**-.0006**	**-.0016**	**.0913**
Stddev	.0005	.0009	.0001	.40	.0016	.0005	.0004
%RSD	.4390	12.53	83.27	.5532	276.0	31.81	.4146
#1	.1024	.0081	.0003	72.86	-.0005	-.0016	.0912
#2	.1025	.0076	.0001	72.28	-.0023	-.0011	.0909
#3	.1032	.0063	.0001	73.05	.0010	-.0022	.0917

Zoom In Zoom Out

Sample Name: JC78781-1 Acquired: 12/5/2018 23:27:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98600.**	**19129.**	**4049.2**	**8549.4**
Stddev	194.	37.	17.5	40.9
%RSD	.19656	.19547	.43320	.47886
#1	98820.	19086.	4033.3	8506.9
#2	98453.	19152.	4046.3	8552.9
#3	98529.	19149.	4068.0	8588.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 23:32:53 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.101**	**2.114**	**2.122**	**2.067**	**2.098**	**2.059**	**2.116**	**2.096**	**.2519**
Stddev	.003	.001	.006	.005	.002	.006	.001	.004	.0008
%RSD	.1350	.0554	.2616	.2307	.1045	.3116	.0558	.1935	.3120
#1	2.101	2.116	2.126	2.072	2.096	2.066	2.116	2.101	.2528
#2	2.104	2.114	2.124	2.067	2.099	2.055	2.117	2.094	.2516
#3	2.099	2.114	2.115	2.063	2.100	2.056	2.115	2.094	.2513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.086**	**2.120**	**2.034**	**2.186**	**2.107**	**2.092**	**1.989**	**40.06**	**40.35**
Stddev	.004	.002	.005	.020	.004	.005	.006	.05	.01
%RSD	.1800	.1099	.2591	.9128	.2113	.2610	.3271	.1250	.0262
#1	2.089	2.120	2.037	2.197	2.112	2.095	1.996	40.05	40.36
#2	2.086	2.123	2.036	2.199	2.106	2.095	1.988	40.12	40.36
#3	2.082	2.118	2.028	2.163	2.103	2.086	1.983	40.02	40.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.67**	**40.40**	**40.05**	**40.23**	**2.074**	**2.003**	**4.954**	**2.041**	**2.097**
Stddev	.04	.03	.06	.05	.001	.003	.010	.010	.003
%RSD	.1010	.0834	.1380	.1269	.0291	.1475	.2081	.4946	.1607
#1	40.65	40.43	40.03	40.25	2.073	2.005	4.959	2.048	2.097
#2	40.65	40.41	40.11	40.27	2.074	2.004	4.962	2.046	2.100
#3	40.72	40.36	40.00	40.18	2.073	2.000	4.943	2.029	2.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/5/2018 23:32:53 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.037**	**1.996**	**1.980**	**2.036**	**2.033**	**2.021**	**2.126**
Stddev	.015	.002	.000	.022	.012	.002	.017
%RSD	.7107	.1162	.0046	1.067	.5937	.1122	.8024
#1	2.050	1.997	1.980	2.046	2.045	2.021	2.131
#2	2.038	1.998	1.979	2.050	2.034	2.022	2.139
#3	2.022	1.994	1.980	2.011	2.021	2.018	2.106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98016.**	**18883.**	**4091.7**	**8406.1**
Stddev	36.	26.	3.4	16.4
%RSD	.03653	.13628	.08385	.19463
#1	98013.	18872.	4088.2	8388.0
#2	98053.	18913.	4095.0	8419.8
#3	97982.	18865.	4091.9	8410.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 23:37:43 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0001**	**.0002**	**.0004**	**.0003**	**-.0000**	**.0002**	**.0002**	**-.0000**
Stddev	.0001	.0000	.0001	.0000	.0001	.0005	.0001	.0004	.0005
%RSD	133.7	32.57	40.50	7.602	34.43	1852.	23.28	157.0	1548.
#1	-.0002	.0001	.0001	.0003	.0003	-.0006	.0003	-.0002	-.0004
#2	.0000	.0001	.0003	.0004	.0002	.0004	.0003	.0005	.0006
#3	-.0001	.0002	.0002	.0004	.0004	.0001	.0002	.0003	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0002**	**.0012**	**.0006**	**.0007**	**-.0001**	**-.0006**	**-.0055**	**.0042**
Stddev	.0002	.0001	.0010	.0006	.0011	.0011	.0010	.0044	.0019
%RSD	35.48	40.80	87.13	113.0	165.8	824.7	175.9	80.30	46.36
#1	.0004	.0003	.0021	.0010	.0019	.0012	-.0017	-.0006	.0020
#2	.0006	.0002	.0013	-.0002	-.0004	-.0008	.0001	-.0066	.0055
#3	.0008	.0002	.0001	.0008	.0006	-.0008	-.0001	-.0092	.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036**	**-.0054**	**.0158**	**.0243**	**-.0003**	**.0006**	**.0014**	**.0005**	**.0001**
Stddev	.0016	.0023	.0515	.0050	.0005	.0000	.0008	.0004	.0000
%RSD	45.37	42.18	326.7	20.58	158.5	2.458	54.95	70.12	30.13
#1	.0032	-.0035	-.0436	.0289	.0002	.0006	.0018	.0009	.0001
#2	.0022	-.0049	.0493	.0251	-.0004	.0006	.0019	.0002	.0002
#3	.0054	-.0079	.0416	.0190	-.0009	.0007	.0005	.0006	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/5/2018 23:37:43 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0011**	**.0003**	**.0040**	**-.0001**	**.0003**	**-.0008**
Stddev	.0002	.0006	.0001	.0022	.0009	.0009	.0011
%RSD	16.51	54.57	37.92	56.30	637.1	273.5	132.3
#1	.0013	.0018	.0004	.0054	.0000	.0014	-.0001
#2	.0009	.0006	.0002	.0014	-.0011	.0001	-.0003
#3	.0011	.0010	.0003	.0051	.0007	-.0004	-.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102670.**	**19115.**	**4232.3**	**9387.7**
Stddev	179.	40.	9.5	28.1
%RSD	.17464	.20782	.22529	.29906
#1	102490.	19070.	4242.4	9420.1
#2	102680.	19138.	4223.4	9373.0
#3	102850.	19139.	4231.2	9370.1

Zoom In Zoom Out

Sample Name: JC78781-2 Acquired: 12/5/2018 23:43:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0001**	**.0002**	**.0002**	**.0004**	**.0003**	**.0011**	**.0007**	**-.0001**
Stddev	.0002	.0000	.0001	.0002	.0001	.0003	.0001	.0001	.0000
%RSD	14.59	55.87	26.08	112.5	17.49	97.70	6.441	15.19	40.40
#1	.0012	.0000	.0002	-.0000	.0005	-.0000	.0011	.0007	-.0002
#2	.0015	.0001	.0003	.0002	.0003	.0005	.0011	.0005	-.0001
#3	.0017	.0001	.0002	.0004	.0004	.0004	.0012	.0007	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0304**	**.0004**	**-.0000**	**.0006**	**-.0009**	**-.0000**	**-.0022**	**.6276**
Stddev	.0001	.0001	.0011	.0007	.0003	.0014	.0012	.0045	.0012
%RSD	30.23	.4773	299.8	6988.	54.71	152.6	5564.	205.2	.1915
#1	.0001	.0304	.0008	-.0007	.0010	.0005	-.0008	.0012	.6278
#2	.0002	.0305	.0012	.0005	.0003	-.0022	.0014	-.0073	.6287
#3	.0002	.0302	-.0009	.0002	.0005	-.0011	-.0007	-.0005	.6263

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0641**	**.0087**	**.0070**	**.0004**	**.0005**	**.0132**	**-.0001**	**.0019**
Stddev	.0025	.0221	.0138	.0016	.0005	.0001	.0006	.0002	.0001
%RSD	63.89	34.44	157.8	22.90	103.5	13.74	4.653	227.0	5.418
#1	.0017	.0387	.0241	.0085	-.0000	.0005	.0127	-.0002	.0018
#2	.0067	.0784	-.0025	.0053	.0009	.0005	.0139	-.0002	.0020
#3	.0034	.0752	.0046	.0073	.0004	.0004	.0131	.0001	.0018

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0010**	**-.0001**	**.0056**	**-.0011**	**-.0008**	**.0013**
Stddev	.0011	.0002	.0001	.0015	.0008	.0009	.0007
%RSD	144.0	24.25	116.4	26.27	75.28	111.6	52.37
#1	-.0005	.0013	-.0001	.0041	-.0013	-.0015	.0018
#2	.0016	.0008	.0000	.0055	-.0019	.0002	.0005
#3	.0013	.0009	-.0002	.0071	-.0002	-.0011	.0016

Zoom In Zoom Out

Sample Name: JC78781-2 Acquired: 12/5/2018 23:43:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102850.**	**19166.**	**4216.4**	**9361.5**
Stddev	69.	20.	5.7	18.1
%RSD	.06708	.10615	.13409	.19343
#1	102780.	19181.	4214.5	9348.3
#2	102920.	19143.	4222.7	9382.1
#3	102860.	19174.	4211.9	9354.1

Zoom In Zoom Out

Sample Name: JC78781-1F Acquired: 12/5/2018 23:48:17 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0237**	**.0000**	**.0000**	**.0003**	**.0045**	**.0033**	**.0533**	**.0053**	**.0009**
Stddev	.0000	.0001	.0002	.0003	.0004	.0003	.0002	.0003	.0004
%RSD	.0306	848.9	1071.	75.35	9.934	10.08	.3115	6.101	49.67
#1	.0237	-.0001	.0001	.0000	.0043	.0033	.0533	.0050	.0007
#2	.0237	.0001	-.0002	.0005	.0042	.0036	.0531	.0053	.0014
#3	.0237	.0000	.0001	.0004	.0050	.0029	.0535	.0056	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.2645**	**.0009**	**-.0010**	**-.0012**	**-.0002**	**-.0007**	**-.0010**	**103.8**
Stddev	.0000	.0002	.0004	.0001	.0007	.0012	.0002	.0133	.2
%RSD	2.522	.0813	41.84	13.61	60.68	646.7	32.61	1285.	.1717
#1	.0008	.2643	.0014	-.0010	-.0007	-.0015	-.0007	-.0152	103.8
#2	.0008	.2645	.0006	-.0009	-.0020	.0000	-.0004	.0009	103.9
#3	.0008	.2647	.0009	-.0012	-.0008	.0009	-.0009	.0112	103.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217**	**7.196**	**7.346**	**36.93**	**.0374**	**.0173**	**3.555**	**-.0005**	**.1840**
Stddev	.0017	.029	.037	.06	.0006	.0003	.013	.0007	.0001
%RSD	8.027	.4087	.4978	.1756	1.489	1.977	.3616	129.9	.0498
#1	.0201	7.164	7.304	36.85	.0379	.0169	3.541	.0003	.1841
#2	.0215	7.204	7.368	36.96	.0376	.0175	3.565	-.0009	.1839
#3	.0236	7.221	7.365	36.97	.0368	.0175	3.561	-.0010	.1840

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0333**	**.0001**	**73.10**	**-.0025**	**-.0017**	**.0031**
Stddev	.0005	.0023	.0001	.48	.0015	.0011	.0014
%RSD	778.4	7.006	127.7	.6610	59.99	63.85	46.15
#1	-.0003	.0308	.0002	72.87	-.0026	-.0023	.0028
#2	-.0002	.0336	.0000	73.65	-.0010	-.0004	.0018
#3	.0007	.0354	.0000	72.77	-.0040	-.0023	.0046

Zoom In Zoom Out

Sample Name: JC78781-1F Acquired: 12/5/2018 23:48:17 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98329.**	**18968.**	**4011.2**	**8493.0**
Stddev	522.	106.	5.8	4.6
%RSD	.53113	.55783	.14474	.05399
#1	98219.	19021.	4017.3	8493.1
#2	98897.	18846.	4010.6	8497.5
#3	97870.	19037.	4005.7	8488.4

Zoom In Zoom Out

Sample Name: JC78781-2F Acquired: 12/5/2018 23:53:28 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0000**	**.0001**	**.0000**	**.0003**	**.0001**	**.0014**	**.0015**	**-.0002**
Stddev	.0002	.0000	.0001	.0002	.0003	.0002	.0000	.0001	.0004
%RSD	8.445	178.2	124.6	1603.	78.84	197.9	.6550	6.808	275.9
#1	.0026	.0001	.0001	-.0002	.0000	.0001	.0014	.0015	-.0006
#2	.0022	-.0000	-.0000	.0001	.0004	.0004	.0014	.0014	-.0001
#3	.0023	.0000	.0002	.0002	.0005	-.0001	.0014	.0015	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0428**	**.0003**	**-.0012**	**-.0010**	**-.0001**	**-.0002**	**.0053**	**.6354**
Stddev	.0002	.0002	.0004	.0005	.0008	.0022	.0004	.0076	.0014
%RSD	49.21	.3507	140.1	44.20	81.65	2934.	189.2	143.1	.2231
#1	.0005	.0428	.0000	-.0016	-.0009	-.0002	-.0005	.0119	.6352
#2	.0003	.0430	.0001	-.0006	-.0002	-.0022	-.0003	-.0030	.6369
#3	.0002	.0427	.0007	-.0013	-.0018	.0022	.0002	.0071	.6341

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0733**	**.0058**	**.0343**	**-.0001**	**.0002**	**.1098**	**.0001**	**.0030**
Stddev	.0013	.0187	.0266	.0022	.0003	.0001	.0010	.0002	.0000
%RSD	32.41	25.48	458.7	6.394	592.7	98.87	.9060	166.7	1.264
#1	.0041	.0576	-.0248	.0361	-.0004	.0003	.1106	-.0001	.0030
#2	.0026	.0939	.0188	.0351	-.0000	.0001	.1087	.0002	.0030
#3	.0051	.0684	.0233	.0319	.0002	.0000	.1100	.0002	.0030

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0026**	**-.0001**	**.0117**	**-.0005**	**-.0006**	**.0012**
Stddev	.0005	.0007	.0000	.0020	.0008	.0002	.0004
%RSD	127.2	27.89	47.29	17.09	163.9	38.85	28.11
#1	.0009	.0022	-.0001	.0098	-.0010	-.0004	.0010
#2	.0003	.0034	-.0000	.0117	-.0008	-.0009	.0011
#3	-.0001	.0021	-.0001	.0138	.0004	-.0006	.0016

Zoom In Zoom Out

Sample Name: JC78781-2F Acquired: 12/5/2018 23:53:28 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103650.**	**19215.**	**4238.5**	**9407.8**
Stddev	103.	43.	3.8	9.4
%RSD	.09977	.22608	.08936	.09980
#1	103570.	19203.	4234.3	9409.3
#2	103760.	19262.	4239.5	9397.7
#3	103610.	19178.	4241.7	9416.3

Zoom In Zoom Out

Sample Name: MP11061-MB1 Acquired: 12/5/2018 23:58:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0001**	**.0000**	**.0001**	**.0004**	**.0001**	**.0001**	**.0002**	**-.0003**
Stddev	.0002	.0000	.0001	.0005	.0001	.0002	.0000	.0001	.0001
%RSD	1060.	83.51	166.9	394.8	24.12	238.9	30.10	59.11	37.75
#1	-.0000	-.0000	.0000	-.0001	.0005	.0003	.0001	.0002	-.0002
#2	.0002	-.0000	.0001	.0006	.0003	-.0000	.0001	.0001	-.0004
#3	-.0002	-.0001	-.0000	-.0002	.0004	-.0000	.0001	.0004	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0020**	**.0005**	**.0000**	**.0003**	**-.0001**	**.0010**	**.0052**	**.0077**
Stddev	.0001	.0001	.0015	.0006	.0006	.0006	.0006	.0044	.0016
%RSD	117.3	2.722	285.2	4828.	212.6	501.8	57.94	83.81	20.35
#1	.0000	.0019	.0016	.0005	-.0004	-.0007	.0017	.0102	.0092
#2	-.0001	.0020	-.0012	.0002	.0006	.0004	.0007	.0035	.0078
#3	-.0001	.0020	.0012	-.0006	.0007	-.0000	.0007	.0020	.0061

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0013**	**-.0046**	**.0041**	**-.0012**	**.0002**	**.0068**	**-.0001**	**-.0000**
Stddev	.0003	.0146	.0176	.0025	.0007	.0001	.0002	.0006	.0001
%RSD	10.46	1159.	386.0	59.53	55.22	33.30	2.737	621.6	847.8
#1	.0025	.0060	-.0012	.0056	-.0006	.0002	.0066	-.0002	-.0001
#2	.0029	.0128	.0111	.0013	-.0011	.0002	.0067	-.0007	-.0000
#3	.0024	-.0151	-.0236	.0055	-.0019	.0003	.0070	.0006	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0010**	**-.0001**	**.0047**	**-.0008**	**-.0018**	**.0012**
Stddev	.0006	.0004	.0001	.0016	.0010	.0012	.0009
%RSD	101.5	38.02	123.1	33.58	115.3	66.78	70.29
#1	-.0001	.0009	-.0001	.0029	-.0019	-.0030	.0022
#2	.0009	.0015	.0000	.0059	-.0006	-.0018	.0010
#3	.0010	.0008	-.0002	.0053	-.0000	-.0006	.0005

Zoom In Zoom Out

Sample Name: MP11061-MB1 Acquired: 12/5/2018 23:58:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103110.**	**19166.**	**4261.3**	**9449.8**
Stddev	80.	72.	11.2	19.7
%RSD	.07796	.37364	.26268	.20834
#1	103120.	19158.	4248.7	9433.6
#2	103020.	19099.	4265.1	9444.0
#3	103180.	19242.	4270.1	9471.7

Zoom In Zoom Out

Sample Name: MP11061-B1 Acquired: 12/6/2018 0:04:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.050**	**2.076**	**2.084**	**2.033**	**2.055**	**2.027**	**2.081**	**2.056**
Stddev	.001	.004	.002	.002	.003	.005	.002	.001
%RSD	.0280	.2058	.0758	.0978	.1199	.2262	.0939	.0667
#1	2.050	2.074	2.083	2.032	2.053	2.031	2.079	2.056
#2	2.051	2.081	2.084	2.035	2.055	2.022	2.082	2.057
#3	2.050	2.074	2.086	2.031	2.058	2.029	2.083	2.054

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2476**	**2.039**	**2.085**	**2.049**	**2.181**	**2.071**	**2.054**	**2.064**
Stddev	.0010	.002	.003	.002	.017	.002	.004	.004
%RSD	.3973	.1157	.1594	.0784	.7645	.0740	.1776	.2152
#1	.2469	2.038	2.085	2.050	2.173	2.072	2.050	2.060
#2	.2472	2.042	2.088	2.047	2.171	2.072	2.054	2.069
#3	.2487	2.038	2.081	2.050	2.201	2.069	2.058	2.064

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.14**	**25.43**	**25.60**	**25.14**	**25.04**	**25.32**	**2.035**	**2.105**
Stddev	.02	.04	.04	.06	.03	.04	.002	.001
%RSD	.0825	.1564	.1578	.2469	.1354	.1452	.1026	.0266
#1	25.12	25.43	25.57	25.14	25.00	25.30	2.033	2.105
#2	25.15	25.47	25.65	25.20	25.06	25.36	2.037	2.106
#3	25.15	25.39	25.59	25.07	25.05	25.29	2.036	2.106

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0736**	**2.137**	**2.054**	**2.048**	**2.026**	**2.033**	F **-.0890**	**.0159**
Stddev	.0007	.003	.001	.003	.002	.001	.0005	.0005
%RSD	.9709	.1215	.0681	.1423	.1080	.0494	.5198	3.411
#1	.0732	2.139	2.053	2.051	2.027	2.032	-.0893	.0163
#2	.0731	2.134	2.055	2.049	2.024	2.034	-.0885	.0153
#3	.0744	2.138	2.053	2.045	2.028	2.034	-.0891	.0160

Zoom In Zoom Out

Sample Name: MP11061-B1 Acquired: 12/6/2018 0:04:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0012**	**2.118**
Stddev	.0005	.013
%RSD	44.62	.6087
#1	-.0006	2.116
#2	-.0017	2.106
#3	-.0012	2.132

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101290.**	**19260.**	**4186.6**	**8713.3**
Stddev	254.	94.	4.6	8.9
%RSD	.25056	.49010	.11029	.10220
#1	101330.	19156.	4188.9	8719.4
#2	101530.	19284.	4181.3	8703.0
#3	101020.	19340.	4189.6	8717.4

Zoom In Zoom Out

Sample Name: MP11061-S1 Acquired: 12/6/2018 0:08:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.032**	**2.032**	**2.055**	**2.017**	**2.016**	**1.981**	**2.125**	**2.039**	**.2456**
Stddev	.002	.003	.001	.001	.009	.004	.005	.001	.0005
%RSD	.0868	.1570	.0355	.0461	.4661	.2089	.2185	.0334	.1988
#1	2.032	2.034	2.055	2.018	2.024	1.978	2.130	2.039	.2453
#2	2.031	2.029	2.056	2.016	2.006	1.979	2.121	2.039	.2452
#3	2.034	2.035	2.055	2.017	2.018	1.985	2.124	2.040	.2461

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.011**	**2.048**	**2.040**	**2.115**	**2.040**	**2.039**	**2.031**	**25.13**	**46.02**
Stddev	.005	.001	.003	.013	.003	.004	.002	.01	.05
%RSD	.2535	.0638	.1413	.6158	.1376	.1985	.1056	.0327	.1156
#1	2.014	2.049	2.038	2.100	2.040	2.034	2.030	25.14	46.01
#2	2.005	2.047	2.040	2.123	2.043	2.042	2.033	25.12	45.97
#3	2.013	2.049	2.043	2.122	2.038	2.040	2.029	25.13	46.08

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.60**	**36.71**	**34.50**	**99.79**	**2.031**	**2.052**	**5.056**	**2.066**	**2.152**
Stddev	.06	.05	.05	.07	.003	.002	.008	.001	.002
%RSD	.2237	.1248	.1425	.0698	.1652	.0795	.1538	.0629	.0915
#1	25.61	36.69	34.52	99.78	2.033	2.053	5.065	2.067	2.151
#2	25.53	36.68	34.44	99.73	2.032	2.050	5.050	2.065	2.150
#3	25.65	36.76	34.54	99.87	2.027	2.053	5.052	2.066	2.154

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.014**	**2.014**	**1.998**	**30.52**	**.0155**	**-.0001**	**2.213**
Stddev	.010	.004	.001	.13	.0011	.0005	.013
%RSD	.4900	.1834	.0374	.4337	7.268	563.4	.5969
#1	2.012	2.016	1.998	30.38	.0157	-.0000	2.200
#2	2.024	2.010	1.997	30.54	.0165	.0004	2.213
#3	2.004	2.016	1.999	30.64	.0143	-.0006	2.226

Zoom In Zoom Out

Sample Name: MP11061-S1 Acquired: 12/6/2018 0:08:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97905.**	**19022.**	**4069.4**	**8282.8**
Stddev	308.	34.	16.7	26.6
%RSD	.31478	.17725	.41083	.32137
#1	97692.	19057.	4050.1	8252.1
#2	98259.	19020.	4080.0	8299.1
#3	97766.	18990.	4078.0	8297.3

Zoom In Zoom Out

Sample Name: MP11061-S2 Acquired: 12/6/2018 0:13:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.074**	**2.086**	**2.108**	**2.069**	**2.055**	**2.025**	**2.168**	**2.090**	**.2521**
Stddev	.005	.003	.016	.016	.002	.003	.001	.015	.0009
%RSD	.2415	.1510	.7627	.7939	.1105	.1284	.0289	.7381	.3453
#1	2.073	2.089	2.098	2.059	2.053	2.027	2.167	2.081	.2531
#2	2.080	2.082	2.100	2.060	2.054	2.025	2.168	2.082	.2517
#3	2.070	2.086	2.127	2.088	2.057	2.022	2.169	2.108	.2516

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.053**	**2.097**	**2.083**	**2.147**	**2.092**	**2.079**	**2.088**	**25.69**	**47.00**
Stddev	.002	.019	.017	.018	.018	.015	.017	.03	.07
%RSD	.0837	.9105	.8153	.8218	.8352	.7189	.8334	.1343	.1501
#1	2.055	2.087	2.072	2.136	2.081	2.069	2.079	25.71	47.00
#2	2.052	2.085	2.074	2.137	2.083	2.072	2.077	25.70	46.94
#3	2.052	2.119	2.102	2.167	2.112	2.096	2.108	25.65	47.08

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.21**	**37.64**	**35.19**	**101.5**	**2.082**	**2.101**	**5.140**	**2.116**	**2.193**
Stddev	.02	.12	.03	.2	.016	.016	.039	.016	.004
%RSD	.0679	.3145	.0750	.1525	.7628	.7646	.7661	.7516	.1692
#1	26.22	37.67	35.22	101.6	2.071	2.093	5.111	2.110	2.191
#2	26.22	37.51	35.20	101.5	2.074	2.092	5.125	2.103	2.197
#3	26.19	37.74	35.16	101.3	2.100	2.120	5.185	2.134	2.191

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.083**	**2.049**	**2.047**	**30.75**	**.0161**	**.0011**	**2.238**
Stddev	.000	.017	.000	.22	.0015	.0010	.017
%RSD	.0162	.8399	.0123	.7253	9.630	96.78	.7750
#1	2.082	2.042	2.047	30.67	.0152	-.0001	2.229
#2	2.083	2.036	2.047	30.59	.0151	.0016	2.228
#3	2.082	2.068	2.047	31.01	.0178	.0017	2.258

Zoom In Zoom Out

Sample Name: MP11061-S2 Acquired: 12/6/2018 0:13:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97790.**	**18977.**	**4044.7**	**8222.3**
Stddev	108.	61.	16.5	36.2
%RSD	.11036	.31919	.40884	.44033
#1	97714.	18908.	4056.4	8250.9
#2	97742.	19005.	4052.0	8234.4
#3	97913.	19018.	4025.8	8181.6

Zoom In Zoom Out

Sample Name: JC78945-2 Acquired: 12/6/2018 0:18:32 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0263**	**.0001**	**.0000**	**.0004**	**.0016**	**.0020**	**.0913**	**.0015**	**.0008**
Stddev	.0001	.0001	.0001	.0002	.0002	.0002	.0008	.0003	.0003
%RSD	.3936	124.6	873.1	38.03	14.43	9.930	.8928	20.60	41.28
#1	.0265	.0002	.0001	.0004	.0019	.0020	.0923	.0012	.0005
#2	.0263	.0000	.0000	.0005	.0016	.0023	.0908	.0017	.0007
#3	.0263	.0000	-.0001	.0002	.0014	.0019	.0909	.0017	.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030**	**.0091**	**.0027**	**-.0017**	**.0012**	**.0019**	**-.0001**	**.3336**	**22.37**
Stddev	.0001	.0000	.0002	.0001	.0010	.0022	.0005	.0095	.05
%RSD	3.612	.5309	5.734	7.359	77.46	120.5	433.7	2.855	.2438
#1	.0031	.0091	.0025	-.0017	.0012	.0035	-.0004	.3228	22.37
#2	.0029	.0090	.0027	-.0019	.0022	-.0007	-.0004	.3376	22.43
#3	.0029	.0091	.0028	-.0016	.0003	.0028	.0005	.3406	22.32

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6342**	**12.88**	**9.987**	**77.54**	**.0349**	**.0017**	**5.002**	**-.0002**	**.1435**
Stddev	.0031	.09	.041	.19	.0004	.0001	.011	.0007	.0004
%RSD	.4884	.7117	.4112	.2388	1.131	9.031	.2200	329.4	.2851
#1	.6374	12.87	10.01	77.66	.0346	.0018	5.007	-.0011	.1439
#2	.6312	12.98	10.01	77.63	.0348	.0017	5.010	.0003	.1432
#3	.6342	12.80	9.940	77.33	.0354	.0015	4.989	.0001	.1434

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0122**	**.0092**	**.0015**	**31.33**	**-.0017**	**.0012**	**.1069**
Stddev	.0012	.0005	.0002	.08	.0012	.0012	.0006
%RSD	10.01	5.730	15.86	.2421	69.44	98.65	.5413
#1	.0108	.0086	.0013	31.38	-.0009	.0024	.1069
#2	.0127	.0092	.0018	31.24	-.0031	.0000	.1063
#3	.0132	.0097	.0014	31.37	-.0012	.0012	.1074

Zoom In Zoom Out

Sample Name: JC78945-2 Acquired: 12/6/2018 0:18:32 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98882.**	**19035.**	**4105.7**	**8634.8**
Stddev	148.	158.	4.0	5.7
%RSD	.14940	.82889	.09792	.06559
#1	98737.	19030.	4101.8	8628.3
#2	98878.	18879.	4105.3	8638.1
#3	99032.	19195.	4109.8	8638.0

Zoom In Zoom Out

Sample Name: MP11061-SD1 Acquired: 12/6/2018 0:23:44 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0254**	**-.0000**	**.0000**	**.0009**	**.0019**	**.0013**	**.0906**	**.0024**	**-.0003**
Stddev	.0005	.0002	.0001	.0010	.0007	.0017	.0005	.0004	.0001
%RSD	1.969	699.7	8723.	109.3	37.24	126.3	.5173	18.57	25.12
#1	.0249	-.0001	-.0000	.0021	.0018	.0031	.0901	.0027	-.0002
#2	.0256	-.0001	.0001	.0002	.0013	-.0001	.0910	.0019	-.0003
#3	.0258	.0002	-.0001	.0005	.0027	.0009	.0907	.0027	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030**	**.0119**	**.0055**	**-.0009**	**.0015**	**-.0039**	**.0019**	**.3553**	**22.33**
Stddev	.0016	.0005	.0062	.0041	.0066	.0035	.0030	.0275	.45
%RSD	51.67	3.801	114.1	438.6	437.6	90.21	156.0	7.740	2.034
#1	.0045	.0115	-.0017	-.0040	.0081	-.0079	.0031	.3242	22.16
#2	.0033	.0119	.0087	.0037	.0017	-.0012	-.0015	.3654	22.84
#3	.0014	.0124	.0094	-.0024	-.0052	-.0027	.0042	.3764	21.99

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6356**	**12.82**	**9.795**	**76.43**	**.0353**	**.0026**	**5.868**	**-.0027**	**.1437**
Stddev	.0172	.16	.203	1.09	.0028	.0002	.011	.0027	.0022
%RSD	2.714	1.238	2.076	1.421	7.798	7.609	.1915	99.78	1.504
#1	.6296	12.84	9.816	76.09	.0375	.0028	5.858	-.0044	.1429
#2	.6550	12.96	9.988	77.64	.0363	.0027	5.880	-.0040	.1462
#3	.6221	12.65	9.583	75.55	.0322	.0024	5.866	.0004	.1421

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0149**	**.0065**	**.0004**	**30.45**	**-.0063**	**-.0032**	**.0995**
Stddev	.0035	.0024	.0002	.18	.0081	.0036	.0066
%RSD	23.56	36.19	64.80	.5994	127.7	113.5	6.585
#1	.0144	.0043	.0001	30.44	.0027	-.0062	.0956
#2	.0117	.0063	.0003	30.27	-.0129	-.0042	.0957
#3	.0186	.0090	.0006	30.64	-.0088	.0008	.1070

Zoom In Zoom Out

Sample Name: MP11061-SD1 Acquired: 12/6/2018 0:23:44 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101550.**	**18963.**	**4188.3**	**9121.2**
Stddev	377.	188.	11.1	18.8
%RSD	.37120	.99071	.26534	.20640
#1	101680.	19016.	4186.3	9120.7
#2	101130.	18754.	4178.3	9102.6
#3	101850.	19118.	4200.3	9140.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 0:28:56 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.104**	**2.105**	**2.128**	**2.083**	**2.116**	**2.067**	**2.124**	**2.113**	**.2525**
Stddev	.009	.009	.004	.002	.003	.009	.004	.003	.0008
%RSD	.4509	.4211	.1876	.1097	.1238	.4590	.2114	.1180	.3071
#1	2.093	2.094	2.124	2.085	2.118	2.077	2.129	2.112	.2533
#2	2.110	2.109	2.132	2.084	2.113	2.058	2.121	2.116	.2517
#3	2.110	2.110	2.127	2.081	2.116	2.066	2.122	2.111	.2524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.095**	**2.132**	**2.042**	**2.196**	**2.121**	**2.099**	**2.000**	**40.03**	**40.32**
Stddev	.004	.002	.008	.011	.000	.006	.003	.14	.16
%RSD	.2022	.0817	.3924	.5074	.0167	.3044	.1639	.3520	.3994
#1	2.100	2.132	2.040	2.193	2.121	2.092	1.996	39.86	40.15
#2	2.092	2.130	2.051	2.208	2.121	2.104	2.001	40.11	40.34
#3	2.094	2.133	2.035	2.186	2.121	2.101	2.003	40.10	40.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.43**	**40.21**	**40.14**	**40.37**	**2.088**	**2.013**	**4.986**	**2.056**	**2.103**
Stddev	.18	.14	.15	.14	.003	.004	.013	.001	.009
%RSD	.4452	.3529	.3666	.3514	.1523	.1780	.2546	.0523	.4369
#1	40.22	40.05	39.98	40.22	2.085	2.012	4.976	2.055	2.093
#2	40.55	40.27	40.17	40.39	2.089	2.017	5.000	2.057	2.107
#3	40.52	40.32	40.28	40.50	2.091	2.009	4.981	2.056	2.109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 0:28:56 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.011**	**2.006**	**1.989**	**2.036**	**2.050**	**2.026**	**2.140**
Stddev	.006	.003	.003	.012	.004	.007	.016
%RSD	.2782	.1596	.1666	.6030	.1793	.3439	.7334
#1	2.010	2.002	1.993	2.035	2.045	2.018	2.133
#2	2.006	2.008	1.986	2.049	2.052	2.029	2.158
#3	2.017	2.007	1.987	2.025	2.051	2.032	2.129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97349.**	**18845.**	**4075.9**	**8364.3**
Stddev	307.	99.	7.2	23.3
%RSD	.31524	.52584	.17722	.27843
#1	97066.	18952.	4069.6	8342.1
#2	97307.	18827.	4074.2	8362.2
#3	97675.	18757.	4083.8	8388.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 0:33:47 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0005**	**.0006**	**.0005**	**-.0006**	**.0002**	**.0003**	**-.0001**
Stddev	.0002	.0001	.0001	.0001	.0003	.0000	.0001	.0003	.0004
%RSD	322.9	66.01	15.83	18.52	56.63	7.522	23.57	87.16	321.5
#1	.0001	.0001	.0005	.0005	.0004	-.0006	.0002	.0005	-.0004
#2	-.0002	.0001	.0006	.0006	.0002	-.0007	.0002	.0004	.0003
#3	.0002	.0002	.0004	.0007	.0008	-.0006	.0003	.0000	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0003**	**.0003**	**-.0006**	**.0001**	**.0010**	**.0001**	**.0014**	**.0031**
Stddev	.0001	.0000	.0003	.0015	.0002	.0005	.0012	.0037	.0024
%RSD	78.39	6.542	88.51	260.4	152.8	57.25	1092.	269.2	78.77
#1	.0000	.0003	.0006	-.0013	.0001	.0015	.0002	-.0016	.0003
#2	.0003	.0003	.0002	.0011	.0004	.0008	.0013	.0003	.0048
#3	.0002	.0004	.0001	-.0015	-.0001	.0005	-.0012	.0054	.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**.0051**	**.0269**	**.0112**	**.0007**	**.0008**	**.0023**	**.0009**	**.0001**
Stddev	.0022	.0191	.0236	.0076	.0004	.0003	.0005	.0003	.0001
%RSD	48.53	373.5	87.66	67.71	59.33	35.85	20.41	29.66	53.10
#1	.0036	.0030	.0193	.0181	.0011	.0010	.0029	.0006	.0001
#2	.0029	-.0128	.0534	.0123	.0003	.0009	.0021	.0011	.0001
#3	.0069	.0252	.0080	.0031	.0006	.0005	.0021	.0010	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 0:33:47 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0007**	**.0002**	**.0009**	**.0002**	**.0003**	**.0004**
Stddev	.0006	.0009	.0001	.0008	.0014	.0009	.0013
%RSD	42.98	132.9	51.88	86.11	607.2	343.5	360.4
#1	.0012	.0014	.0002	.0004	-.0009	-.0007	.0019
#2	.0009	-.0003	.0001	.0018	-.0002	.0008	-.0004
#3	.0020	.0008	.0003	.0006	.0018	.0007	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101880.**	**19009.**	**4223.6**	**9368.2**
Stddev	1040.	61.	4.0	1.5
%RSD	1.0205	.31930	.09395	.01553
#1	102330.	18982.	4221.8	9367.5
#2	100690.	19078.	4228.1	9369.9
#3	102610.	18966.	4220.8	9367.3

Zoom In Zoom Out

Sample Name: JC78605-25 Acquired: 12/6/2018 0:39:05 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3254**	**.0001**	**.0004**	**.0022**	**.0499**	**.0063**	**.1161**	**.0027**	**.0008**
Stddev	.0005	.0000	.0002	.0002	.0007	.0003	.0021	.0003	.0004
%RSD	.1400	76.97	46.99	8.552	1.361	4.523	1.770	10.43	50.59
#1	.3256	.0000	.0006	.0021	.0496	.0060	.1152	.0027	.0006
#2	.3258	.0001	.0002	.0022	.0507	.0065	.1184	.0024	.0006
#3	.3249	.0001	.0003	.0025	.0495	.0065	.1146	.0029	.0013

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053**	**.0466**	**.0025**	**-.0006**	**.0152**	**-.0002**	**.0008**	**1.866**	**121.3**
Stddev	.0004	.0000	.0012	.0013	.0012	.0011	.0004	.015	.2
%RSD	7.671	.0743	48.72	202.5	7.889	477.3	49.90	.7866	.1576
#1	.0049	.0466	.0027	-.0019	.0139	-.0014	.0013	1.871	121.1
#2	.0056	.0465	.0012	-.0006	.0163	.0007	.0006	1.877	121.5
#3	.0056	.0466	.0037	.0006	.0152	.0000	.0005	1.849	121.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.954**	**25.67**	**1.798**	**20.10**	**.0390**	**-.0001**	**12.13**	**-.0013**	**.2484**
Stddev	.016	.11	.038	.02	.0004	.0001	.02	.0002	.0002
%RSD	.8106	.4207	2.107	.0879	1.075	158.8	.1773	12.02	.0970
#1	1.949	25.56	1.765	20.10	.0389	-.0001	12.14	-.0011	.2487
#2	1.972	25.78	1.790	20.12	.0395	.0000	12.14	-.0012	.2483
#3	1.942	25.68	1.840	20.09	.0386	-.0002	12.10	-.0014	.2483

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0566**	**.0125**	**.0003**	**20.48**	**-.0017**	**.0018**	**.1198**
Stddev	.0018	.0003	.0001	.24	.0013	.0007	.0018
%RSD	3.143	2.570	42.26	1.176	76.33	38.96	1.461
#1	.0546	.0127	.0003	20.71	-.0033	.0014	.1219
#2	.0581	.0126	.0002	20.23	-.0010	.0014	.1188
#3	.0571	.0121	.0005	20.49	-.0009	.0027	.1188

Zoom In Zoom Out

Sample Name: JC78605-25 Acquired: 12/6/2018 0:39:05 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98493.**	**19159.**	**4085.7**	**8539.5**
Stddev	1370.	48.	14.4	25.6
%RSD	1.3906	.25069	.35256	.29993
#1	99150.	19210.	4093.8	8557.5
#2	96919.	19115.	4069.1	8510.2
#3	99410.	19152.	4094.3	8550.9

Zoom In Zoom Out

Sample Name: JC78605-27 Acquired: 12/6/2018 0:44:14 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0001**	**.0001**	**.0005**	**.0004**	**.0000**	**.0010**	**.0008**	**-.0006**
Stddev	.0002	.0000	.0001	.0001	.0002	.0003	.0000	.0001	.0001
%RSD	15.68	21.48	130.7	20.64	57.75	896.3	1.680	8.619	26.72
#1	.0009	.0000	-.0000	.0004	.0001	-.0000	.0010	.0008	-.0007
#2	.0012	.0001	.0002	.0005	.0006	-.0002	.0010	.0009	-.0005
#3	.0011	.0000	.0001	.0005	.0005	.0004	.0010	.0008	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0344**	**.0010**	**-.0008**	**.0010**	**-.0001**	**.0000**	**.0032**	**.4337**
Stddev	.0003	.0002	.0000	.0008	.0003	.0002	.0004	.0114	.0031
%RSD	194.2	.5438	3.069	101.3	30.13	194.0	1984.	360.9	.7037
#1	.0002	.0346	.0011	.0001	.0008	-.0000	-.0002	.0073	.4371
#2	.0005	.0344	.0011	-.0010	.0008	.0001	.0004	-.0097	.4312
#3	-.0002	.0342	.0010	-.0014	.0013	-.0003	-.0002	.0119	.4327

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0474**	**.0147**	**-.0048**	**.0003**	**.0001**	**.0104**	**.0003**	**.0014**
Stddev	.0018	.0136	.0131	.0056	.0001	.0002	.0010	.0006	.0001
%RSD	71.84	28.70	89.01	115.6	53.68	150.9	9.703	170.3	7.025
#1	.0013	.0631	.0070	-.0045	.0001	.0003	.0092	-.0003	.0013
#2	.0016	.0406	.0074	.0006	.0004	.0001	.0109	.0009	.0015
#3	.0046	.0386	.0298	-.0106	.0003	-.0001	.0111	.0004	.0014

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0003**	**.0001**	**.0037**	**-.0003**	**-.0012**	**.0008**
Stddev	.0004	.0005	.0000	.0006	.0019	.0008	.0010
%RSD	30.07	205.8	41.87	16.72	717.3	68.90	134.5
#1	.0016	.0003	.0000	.0041	.0011	-.0002	.0017
#2	.0012	-.0003	.0001	.0040	-.0024	-.0017	-.0003
#3	.0009	.0008	.0000	.0030	.0005	-.0016	.0010

Zoom In Zoom Out

Sample Name: JC78605-27 Acquired: 12/6/2018 0:44:14 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104850.**	**19469.**	**4288.9**	**9512.5**
Stddev	116.	59.	5.5	8.4
%RSD	.11074	.30433	.12728	.08847
#1	104720.	19416.	4294.8	9521.7
#2	104910.	19459.	4284.0	9505.2
#3	104920.	19533.	4288.1	9510.5

Zoom In Zoom Out

Sample Name: JC78605-28 Acquired: 12/6/2018 0:49:30 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0137**	**.0001**	**.0000**	**.0002**	**.0019**	**.0025**	**.3369**	**.0012**	**.0005**
Stddev	.0001	.0000	.0001	.0002	.0004	.0005	.0002	.0003	.0002
%RSD	.5379	39.75	2258.	90.87	19.63	21.07	.0699	22.88	37.69
#1	.0137	.0001	-.0002	.0002	.0015	.0019	.3367	.0015	.0003
#2	.0136	.0001	.0001	.0001	.0023	.0030	.3368	.0010	.0008
#3	.0137	.0001	.0000	.0005	.0019	.0025	.3372	.0011	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0093**	**.0017**	**-.0007**	**.0013**	**-.0003**	**.0007**	**.2606**	**14.16**
Stddev	.0002	.0001	.0009	.0005	.0006	.0013	.0003	.0022	.04
%RSD	10.83	1.066	53.73	78.52	44.19	431.7	48.59	.8394	.2471
#1	.0018	.0093	.0024	-.0006	.0012	.0012	.0010	.2631	14.15
#2	.0014	.0094	.0007	-.0013	.0019	-.0012	.0006	.2599	14.20
#3	.0016	.0093	.0020	-.0002	.0008	-.0009	.0004	.2589	14.13

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.82**	**1.067**	**2.659**	**14.50**	**.0159**	**.0031**	**1.613**	**-.0000**	**.3365**
Stddev	.05	.008	.017	.01	.0008	.0002	.001	.0002	.0005
%RSD	.2225	.7131	.6553	.0989	5.184	6.887	.0747	563.1	.1396
#1	21.85	1.069	2.639	14.52	.0150	.0031	1.613	.0002	.3368
#2	21.85	1.074	2.671	14.49	.0165	.0029	1.615	-.0002	.3368
#3	21.77	1.059	2.666	14.49	.0163	.0033	1.612	-.0001	.3360

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0094**	**.0095**	**-.0001**	**.1793**	**.0016**	**.0092**	**.0477**
Stddev	.0003	.0002	.0002	.0017	.0005	.0006	.0009
%RSD	2.720	2.623	147.9	.9602	30.64	6.003	1.949
#1	.0091	.0092	.0001	.1778	.0017	.0088	.0480
#2	.0094	.0096	-.0002	.1812	.0011	.0090	.0485
#3	.0096	.0096	-.0002	.1789	.0021	.0098	.0467

Zoom In Zoom Out

Sample Name: JC78605-28 Acquired: 12/6/2018 0:49:30 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102330.**	**19333.**	**4211.2**	**9122.1**
Stddev	299.	73.	7.9	18.5
%RSD	.29196	.37515	.18807	.20303
#1	102070.	19323.	4206.0	9113.3
#2	102260.	19266.	4207.3	9109.5
#3	102650.	19410.	4220.3	9143.3

Zoom In Zoom Out

Sample Name: JC78605-31 Acquired: 12/6/2018 0:54:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1576**	**.0000**	**.0081**	**.0009**	**.0080**	**.0067**	**.5858**	**.0097**	**.0003**
Stddev	.0002	.0000	.0003	.0001	.0003	.0002	.0017	.0004	.0001
%RSD	.1062	17.36	3.455	6.416	3.534	3.344	.2830	3.728	48.02
#1	.1575	.0000	.0084	.0009	.0079	.0069	.5877	.0097	.0001
#2	.1578	.0000	.0079	.0008	.0079	.0067	.5849	.0093	.0004
#3	.1575	.0000	.0080	.0009	.0084	.0065	.5849	.0100	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036**	**.0989**	**.0015**	**-.0007**	**.0056**	**-.0031**	**-.0000**	**.9465**	**103.1**
Stddev	.0003	.0005	.0004	.0011	.0008	.0009	.0010	.0050	.2
%RSD	9.142	.5509	28.09	149.9	13.49	27.59	9927.	.5253	.1888
#1	.0038	.0994	.0015	-.0016	.0057	-.0021	-.0008	.9492	102.9
#2	.0032	.0988	.0018	-.0011	.0062	-.0035	.0011	.9407	103.0
#3	.0037	.0984	.0010	.0005	.0048	-.0037	-.0003	.9495	103.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.908**	**24.92**	**2.299**	**25.47**	**.0434**	**.0018**	**11.40**	**.0003**	**.4490**
Stddev	.004	.06	.006	.00	.0007	.0002	.04	.0001	.0002
%RSD	.1910	.2594	.2846	.0112	1.672	9.958	.3844	21.23	.0409
#1	1.907	24.85	2.291	25.48	.0442	.0016	11.45	.0004	.4492
#2	1.906	24.97	2.302	25.47	.0428	.0019	11.36	.0003	.4488
#3	1.913	24.93	2.303	25.47	.0430	.0020	11.39	.0003	.4491

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0398**	**.0124**	**-.0001**	**17.34**	**-.0013**	**.0120**	**.0720**
Stddev	.0017	.0009	.0001	.19	.0012	.0012	.0011
%RSD	4.256	7.551	145.5	1.090	92.15	10.09	1.568
#1	.0394	.0132	-.0001	17.56	-.0002	.0132	.0733
#2	.0383	.0114	.0001	17.26	-.0026	.0120	.0710
#3	.0416	.0127	-.0002	17.21	-.0011	.0108	.0718

Zoom In Zoom Out

Sample Name: JC78605-31 Acquired: 12/6/2018 0:54:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99426.**	**19181.**	**4126.4**	**8647.1**
Stddev	327.	78.	11.1	24.2
%RSD	.32845	.40476	.26784	.28022
#1	99325.	19119.	4113.8	8621.7
#2	99163.	19268.	4131.3	8649.4
#3	99792.	19156.	4134.2	8670.0

Zoom In Zoom Out

Sample Name: JC78605-32 Acquired: 12/6/2018 0:59:52 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5009**	**.0001**	**.0003**	**.0002**	**.0023**	**.0029**	**1.284**	**.0016**	**.0007**
Stddev	.0010	.0000	.0001	.0001	.0002	.0001	.002	.0002	.0005
%RSD	.1907	7.707	42.00	55.04	10.01	2.471	.1705	9.455	72.04
#1	.5006	.0001	.0005	.0002	.0024	.0029	1.284	.0015	.0013
#2	.5020	.0001	.0003	.0003	.0025	.0029	1.286	.0016	.0005
#3	.5002	.0001	.0002	.0001	.0021	.0030	1.281	.0018	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083**	**.0076**	**.0039**	**.0010**	**.0012**	**.0006**	**-.0007**	**.5149**	**98.90**
Stddev	.0004	.0001	.0010	.0011	.0001	.0005	.0011	.0056	.09
%RSD	4.557	.7440	25.62	107.9	10.11	92.38	160.0	1.078	.0916
#1	.0084	.0077	.0031	-.0002	.0014	.0012	-.0007	.5203	98.98
#2	.0086	.0076	.0050	.0012	.0011	.0001	.0004	.5152	98.80
#3	.0079	.0076	.0036	.0019	.0012	.0004	-.0018	.5092	98.92

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5584**	**18.22**	**1.824**	**22.18**	**.0281**	**.0004**	**9.809**	**-.0014**	**.1884**
Stddev	.0049	.03	.020	.05	.0003	.0001	.106	.0002	.0002
%RSD	.8862	.1858	1.084	.2148	1.135	33.86	1.079	12.86	.0934
#1	.5550	18.26	1.835	22.19	.0278	.0004	9.925	-.0012	.1886
#2	.5561	18.19	1.836	22.21	.0284	.0003	9.784	-.0015	.1885
#3	.5641	18.20	1.801	22.12	.0282	.0006	9.718	-.0014	.1882

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0148**	**.0107**	**-.0001**	**23.35**	**-.0004**	**.0102**	**.1357**
Stddev	.0001	.0009	.0002	.37	.0013	.0012	.0024
%RSD	.8310	8.263	169.8	1.576	306.3	12.00	1.768
#1	.0147	.0116	.0000	23.77	.0000	.0091	.1383
#2	.0149	.0098	-.0003	23.09	-.0020	.0100	.1353
#3	.0147	.0107	-.0000	23.18	.0006	.0116	.1336

Zoom In Zoom Out

Sample Name: JC78605-32 Acquired: 12/6/2018 0:59:52 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99293.**	**19219.**	**4100.7**	**8666.0**
Stddev	325.	10.	27.3	50.8
%RSD	.32706	.05115	.66630	.58647
#1	98936.	19219.	4070.0	8607.4
#2	99374.	19208.	4110.0	8697.5
#3	99570.	19228.	4122.2	8693.1

Zoom In Zoom Out

Sample Name: JC78605-33 Acquired: 12/6/2018 1:05:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0713**	**.0000**	**.0002**	**-.0000**	**.0006**	**.0021**	**.0194**	**.0010**	**.0005**
Stddev	.0002	.0000	.0001	.0001	.0004	.0003	.0001	.0001	.0003
%RSD	.3451	121.1	39.10	2167.	57.58	12.46	.4234	7.501	62.81
#1	.0715	-.0000	.0001	-.0000	.0007	.0020	.0194	.0009	.0002
#2	.0714	.0001	.0001	-.0000	.0002	.0019	.0193	.0010	.0005
#3	.0711	.0001	.0002	.0001	.0009	.0024	.0195	.0010	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0068**	**.0009**	**-.0006**	**.0005**	**-.0001**	**-.0002**	**.0155**	**9.709**
Stddev	.0001	.0001	.0005	.0009	.0002	.0013	.0009	.0020	.030
%RSD	70.30	1.235	52.51	166.2	33.92	1167.	366.8	13.23	.3137
#1	.0001	.0068	.0015	.0003	.0004	-.0008	.0005	.0143	9.674
#2	.0001	.0067	.0008	-.0016	.0006	-.0009	.0001	.0143	9.727
#3	.0003	.0068	.0005	-.0004	.0003	.0014	-.0013	.0179	9.726

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.947**	**4.537**	**4.146**	**76.65**	**.0940**	**.0007**	**.1686**	**-.0001**	**1.663**
Stddev	.016	.036	.008	.02	.0003	.0003	.0014	.0002	.001
%RSD	.8005	.7855	.2030	.0263	.3035	35.08	.8103	343.6	.0587
#1	1.933	4.506	4.138	76.62	.0937	.0010	.1696	.0002	1.663
#2	1.945	4.529	4.146	76.66	.0943	.0007	.1692	-.0001	1.662
#3	1.964	4.576	4.154	76.66	.0938	.0005	.1670	-.0002	1.664

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0026**	**.0001**	**1.590**	**-.0013**	**.0292**	**.0055**
Stddev	.0003	.0005	.0001	.011	.0002	.0004	.0002
%RSD	46.98	20.73	148.5	.6958	18.64	1.517	4.510
#1	.0007	.0031	-.0000	1.589	-.0012	.0297	.0055
#2	.0003	.0021	.0001	1.602	-.0011	.0288	.0058
#3	.0007	.0025	.0000	1.580	-.0016	.0293	.0053

Zoom In Zoom Out

Sample Name: JC78605-33 Acquired: 12/6/2018 1:05:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99557.**	**19295.**	**4169.1**	**8780.2**
Stddev	171.	72.	15.5	22.7
%RSD	.17212	.37496	.37282	.25814
#1	99566.	19349.	4155.9	8761.3
#2	99724.	19213.	4165.3	8774.0
#3	99382.	19323.	4186.2	8805.4

Zoom In Zoom Out

Sample Name: JC78605-34 Acquired: 12/6/2018 1:10:15 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9543**	**.0002**	**-.0000**	**.0004**	**.0023**	**.0041**	**.3496**	**.0017**
Stddev	.0006	.0000	.0001	.0003	.0002	.0003	.0006	.0002
%RSD	.0577	20.75	11940.	66.47	7.666	7.966	.1813	13.10
#1	.9539	.0002	.0001	.0002	.0022	.0037	.3503	.0016
#2	.9549	.0001	-.0002	.0003	.0022	.0043	.3494	.0019
#3	.9540	.0002	.0001	.0008	.0025	.0042	.3491	.0015

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0031**	**.0039**	**.0001**	**-.0016**	**-.0002**	**-.0010**	**-.0009**
Stddev	.0000	.0003	.0000	.0005	.0013	.0004	.0016	.0008
%RSD	1.488	9.213	.5547	560.0	78.66	215.3	156.3	93.92
#1	.0013	.0029	.0039	-.0000	-.0029	-.0000	.0006	.0000
#2	.0013	.0034	.0039	.0007	-.0004	.0001	-.0011	-.0011
#3	.0013	.0030	.0040	-.0004	-.0016	-.0006	-.0027	-.0015

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5016**	**81.03**	**35.81**	**14.95**	**8.263**	W **261.1**	**.0124**	**.0010**
Stddev	.0033	.28	.09	.10	.027	.3	.0010	.0001
%RSD	.6654	.3442	.2523	.6935	.3245	.0972	7.881	6.874
#1	.4983	80.94	35.76	14.83	8.242	260.8	.0119	.0011
#2	.5016	81.34	35.91	15.04	8.293	261.2	.0136	.0010
#3	.5049	80.80	35.75	14.97	8.253	261.2	.0119	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.602**	**-.0008**	**.3981**	**.0165**	**.0056**	**-.0005**	**1.893**	**.0022**
Stddev	.002	.0007	.0007	.0002	.0005	.0000	.019	.0007
%RSD	.0429	96.17	.1713	1.319	9.205	6.713	1.011	31.68
#1	3.600	.0001	.3982	.0167	.0051	-.0005	1.874	.0029
#2	3.603	-.0011	.3988	.0164	.0055	-.0005	1.894	.0015
#3	3.602	-.0012	.3974	.0163	.0061	-.0006	1.912	.0022

Zoom In Zoom Out

Sample Name: JC78605-34 Acquired: 12/6/2018 1:10:15 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0384**	**.0529**
Stddev	.0003	.0008
%RSD	.8600	1.563
#1	.0386	.0523
#2	.0381	.0525
#3	.0386	.0538

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94736.**	**18918.**	**3961.4**	**8039.8**
Stddev	147.	91.	5.9	9.8
%RSD	.15497	.48126	.14916	.12238
#1	94759.	18987.	3967.9	8051.1
#2	94870.	18815.	3956.3	8033.8
#3	94579.	18951.	3960.0	8034.4

Zoom In Zoom Out

Sample Name: JC78945-1 Acquired: 12/6/2018 1:15:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0272**	**.0001**	**-.0000**	**.0002**	**.0015**	**.0026**	**.0858**	**.0018**	**.0005**
Stddev	.0002	.0000	.0001	.0003	.0005	.0003	.0007	.0003	.0002
%RSD	.8663	4.302	463.0	203.5	34.57	9.880	.7730	16.60	37.40
#1	.0273	.0001	.0001	-.0000	.0021	.0028	.0852	.0019	.0006
#2	.0274	.0001	-.0001	-.0000	.0011	.0023	.0856	.0015	.0003
#3	.0269	.0001	-.0001	.0005	.0015	.0026	.0865	.0020	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0064**	**-.0001**	**-.0001**	**.0004**	**-.0009**	**.0000**	**.3242**	**20.24**
Stddev	.0001	.0000	.0001	.0009	.0006	.0023	.0009	.0048	.03
%RSD	5.216	.3695	58.30	1393.	147.2	271.3	2615.	1.466	.1300
#1	.0022	.0064	-.0001	.0009	-.0002	.0005	-.0010	.3273	20.22
#2	.0023	.0063	-.0000	-.0004	.0004	-.0036	.0008	.3265	20.23
#3	.0020	.0064	-.0002	-.0007	.0011	.0005	.0002	.3187	20.27

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6751**	**11.35**	**8.933**	**61.89**	**.0270**	**.0005**	**5.018**	**-.0012**	**.1366**
Stddev	.0084	.07	.037	.03	.0004	.0002	.009	.0002	.0004
%RSD	1.248	.5966	.4177	.0530	1.601	47.41	.1851	19.04	.2940
#1	.6657	11.31	8.910	61.92	.0268	.0002	5.009	-.0010	.1369
#2	.6777	11.32	8.912	61.87	.0275	.0006	5.017	-.0012	.1368
#3	.6819	11.43	8.976	61.86	.0267	.0006	5.028	-.0014	.1362

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114**	**.0045**	**-.0002**	**25.52**	**-.0022**	**.0016**	**.0915**
Stddev	.0013	.0006	.0001	.13	.0007	.0002	.0006
%RSD	11.17	12.46	34.85	.5214	30.94	13.75	.7093
#1	.0099	.0043	-.0002	25.43	-.0018	.0015	.0922
#2	.0122	.0041	-.0001	25.67	-.0019	.0014	.0910
#3	.0120	.0051	-.0002	25.45	-.0030	.0018	.0912

Zoom In Zoom Out

Sample Name: JC78945-1 Acquired: 12/6/2018 1:15:36 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99721.**	**19282.**	**4153.0**	**8764.7**
Stddev	764.	27.	2.1	5.1
%RSD	.76660	.13807	.05175	.05778
#1	100400.	19252.	4153.7	8762.8
#2	99867.	19303.	4150.6	8761.0
#3	98894.	19292.	4154.7	8770.5

Zoom In Zoom Out

Sample Name: JC78945-3 Acquired: 12/6/2018 1:20:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0266**	**.0000**	**.0001**	**.0003**	**.0018**	**.0026**	**.0755**	**.0021**	**.0009**
Stddev	.0002	.0001	.0001	.0002	.0003	.0005	.0003	.0002	.0003
%RSD	.8013	147.5	128.6	77.03	14.52	19.02	.3410	8.499	37.76
#1	.0265	.0001	.0001	.0003	.0016	.0027	.0758	.0019	.0010
#2	.0264	-.0000	.0000	.0001	.0017	.0030	.0755	.0020	.0005
#3	.0268	.0000	-.0000	.0006	.0021	.0020	.0753	.0023	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0070**	**.0012**	**-.0001**	**.0011**	**-.0001**	**.0001**	**.2597**	**22.08**
Stddev	.0001	.0001	.0014	.0006	.0007	.0010	.0008	.0078	.04
%RSD	5.463	.8850	119.6	504.6	65.15	1240.	1400.	3.003	.1610
#1	.0025	.0071	-.0001	-.0003	.0016	-.0009	-.0003	.2523	22.06
#2	.0027	.0071	.0027	.0006	.0015	.0010	-.0004	.2678	22.07
#3	.0024	.0070	.0009	-.0006	.0003	-.0003	.0009	.2590	22.12

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5762**	**12.99**	**10.20**	**78.83**	**.0337**	**.0007**	**4.878**	**-.0008**	**.1466**
Stddev	.0005	.06	.03	.07	.0008	.0001	.040	.0003	.0001
%RSD	.0925	.4383	.2936	.0828	2.464	10.23	.8123	45.34	.0615
#1	.5762	12.95	10.19	78.78	.0344	.0006	4.923	-.0007	.1467
#2	.5768	12.98	10.18	78.80	.0339	.0007	4.861	-.0011	.1466
#3	.5757	13.06	10.23	78.90	.0328	.0008	4.849	-.0004	.1465

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097**	**.0051**	**.0002**	**32.10**	**-.0023**	**.0008**	**.1048**
Stddev	.0005	.0005	.0001	.24	.0023	.0006	.0007
%RSD	5.035	10.13	25.22	.7561	99.29	72.78	.6770
#1	.0096	.0049	.0003	32.27	-.0021	.0007	.1041
#2	.0093	.0047	.0003	32.21	-.0001	.0003	.1047
#3	.0103	.0057	.0002	31.82	-.0047	.0014	.1055

Zoom In Zoom Out

Sample Name: JC78945-3 Acquired: 12/6/2018 1:20:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98716.**	**19073.**	**4095.9**	**8608.0**
Stddev	316.	56.	26.7	51.8
%RSD	.32060	.29404	.65259	.60178
#1	98965.	19063.	4065.5	8551.8
#2	98360.	19023.	4115.4	8653.8
#3	98822.	19134.	4107.0	8618.6

Zoom In Zoom Out

Sample Name: JC78945-4 Acquired: 12/6/2018 1:25:59 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0340**	**.0001**	**.0001**	**.0010**	**.0019**	**.0033**	**.1812**	**.0018**	**.0013**
Stddev	.0004	.0000	.0002	.0002	.0002	.0004	.0003	.0002	.0002
%RSD	1.288	36.59	152.6	24.44	10.20	11.36	.1436	13.58	14.78
#1	.0339	.0001	.0000	.0007	.0022	.0028	.1815	.0021	.0015
#2	.0335	.0001	.0003	.0011	.0018	.0034	.1812	.0016	.0012
#3	.0344	.0001	-.0000	.0012	.0019	.0036	.1810	.0018	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0095**	**.0009**	**-.0002**	**.0006**	**-.0008**	**-.0001**	**.3094**	**26.36**
Stddev	.0005	.0000	.0002	.0006	.0011	.0012	.0009	.0090	.11
%RSD	24.05	.3599	21.16	359.7	183.2	146.6	598.7	2.903	.4049
#1	.0020	.0095	.0007	.0000	.0013	-.0007	-.0009	.3021	26.44
#2	.0025	.0095	.0011	.0003	-.0006	-.0020	-.0004	.3194	26.24
#3	.0016	.0095	.0009	-.0008	.0011	.0003	.0008	.3066	26.40

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6939**	**16.49**	**12.00**	**108.5**	**.0506**	**.0004**	**5.753**	**-.0008**	**.1859**
Stddev	.0074	.10	.00	.2	.0005	.0001	.010	.0003	.0003
%RSD	1.073	.6293	.0288	.1547	.8934	18.44	.1668	36.98	.1366
#1	.6877	16.46	12.00	108.6	.0503	.0004	5.758	-.0006	.1858
#2	.6920	16.40	12.00	108.3	.0511	.0003	5.741	-.0011	.1857
#3	.7022	16.60	11.99	108.6	.0505	.0003	5.758	-.0006	.1862

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0110**	**.0060**	**-.0003**	**39.17**	**-.0009**	**.0008**	**.1114**
Stddev	.0007	.0002	.0002	.17	.0003	.0016	.0019
%RSD	6.613	3.754	57.57	.4228	32.27	214.3	1.716
#1	.0102	.0059	-.0002	38.98	-.0007	.0026	.1094
#2	.0116	.0062	-.0005	39.25	-.0008	-.0003	.1132
#3	.0111	.0058	-.0002	39.28	-.0012	-.0001	.1115

Zoom In Zoom Out

Sample Name: JC78945-4 Acquired: 12/6/2018 1:25:59 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97241.**	**19001.**	**4082.4**	**8513.7**
Stddev	176.	17.	7.6	21.2
%RSD	.18100	.09004	.18588	.24957
#1	97444.	19005.	4087.3	8531.9
#2	97146.	19016.	4073.6	8490.4
#3	97132.	18983.	4086.2	8518.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 1:31:11 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.112**	**2.087**	**2.123**	**2.066**	**2.117**	**2.059**	**2.117**	**2.093**	**.2532**
Stddev	.005	.004	.004	.002	.005	.007	.004	.003	.0002
%RSD	.2280	.1653	.1890	.1017	.2411	.3539	.1701	.1562	.0783
#1	2.115	2.087	2.127	2.068	2.112	2.067	2.113	2.096	.2534
#2	2.114	2.083	2.122	2.064	2.116	2.053	2.116	2.089	.2530
#3	2.106	2.090	2.119	2.067	2.123	2.056	2.120	2.093	.2531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.098**	**2.119**	**2.042**	**2.191**	**2.109**	**2.092**	**1.983**	**40.04**	**40.24**
Stddev	.004	.004	.002	.022	.004	.008	.006	.06	.08
%RSD	.2142	.1907	.1159	1.020	.1910	.3670	.3162	.1462	.1892
#1	2.094	2.123	2.042	2.185	2.108	2.094	1.990	40.11	40.30
#2	2.099	2.115	2.044	2.216	2.113	2.099	1.979	40.02	40.16
#3	2.103	2.119	2.040	2.173	2.105	2.084	1.979	40.00	40.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.07**	**39.82**	**40.38**	**40.42**	**2.075**	**2.001**	**4.951**	**2.046**	**2.118**
Stddev	.10	.19	.07	.08	.007	.004	.012	.008	.004
%RSD	.2447	.4726	.1621	.1911	.3638	.2003	.2458	.3852	.2106
#1	40.14	39.88	40.46	40.50	2.084	2.004	4.965	2.045	2.122
#2	39.96	39.60	40.35	40.40	2.072	2.002	4.946	2.054	2.120
#3	40.12	39.96	40.33	40.35	2.070	1.996	4.943	2.039	2.113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 1:31:11 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.075**	**1.997**	**1.987**	**2.030**	**2.031**	**2.025**	**2.137**
Stddev	.006	.005	.003	.028	.007	.004	.022
%RSD	.3118	.2374	.1565	1.377	.3605	.2006	1.009
#1	2.070	2.002	1.985	2.026	2.038	2.029	2.130
#2	2.072	1.992	1.985	2.060	2.032	2.026	2.161
#3	2.082	1.998	1.990	2.005	2.024	2.021	2.119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97717.**	**18901.**	**4101.7**	**8413.8**
Stddev	215.	7.	7.0	1.9
%RSD	.22007	.03586	.17053	.02229
#1	97814.	18906.	4093.7	8412.8
#2	97866.	18903.	4105.8	8412.6
#3	97470.	18893.	4105.8	8416.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 1:36:02 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0001**	**.0002**	**.0003**	**.0003**	**.0007**	**.0002**	**.0003**	**.0005**
Stddev	.0001	.0001	.0001	.0002	.0002	.0003	.0001	.0003	.0005
%RSD	348.6	64.55	40.02	52.96	55.53	35.72	56.08	91.22	102.5
#1	-.0002	.0001	.0002	.0004	.0003	.0005	.0001	.0004	-.0000
#2	.0001	.0002	.0002	.0001	.0002	.0006	.0002	.0004	.0009
#3	-.0001	.0001	.0003	.0004	.0005	.0010	.0003	-.0000	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0001**	**.0008**	**.0008**	**-.0000**	**-.0018**	**-.0007**	**.0028**	**.0064**
Stddev	.0002	.0001	.0014	.0010	.0005	.0009	.0007	.0115	.0085
%RSD	47.81	39.23	184.6	119.6	5630.	48.52	104.8	409.6	134.1
#1	.0004	.0001	-.0004	-.0003	.0005	-.0022	-.0009	.0000	.0006
#2	.0006	.0002	.0023	.0012	.0000	-.0024	.0001	.0155	.0162
#3	.0002	.0001	.0004	.0016	-.0005	-.0008	-.0014	-.0071	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**-.0152**	**.0460**	**.0213**	**-.0012**	**.0008**	**.0008**	**.0006**	**.0002**
Stddev	.0013	.0036	.0113	.0095	.0003	.0002	.0008	.0005	.0001
%RSD	40.71	23.83	24.56	44.39	25.51	22.06	102.2	70.03	62.45
#1	.0042	-.0194	.0333	.0268	-.0013	.0007	.0010	.0002	.0001
#2	.0034	-.0129	.0550	.0104	-.0009	.0006	.0015	.0011	.0003
#3	.0017	-.0133	.0495	.0268	-.0015	.0010	-.0001	.0007	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 1:36:02 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0001**	**.0002**	**-.0012**	**.0001**	**.0010**	**-.0021**
Stddev	.0008	.0003	.0002	.0018	.0014	.0012	.0015
%RSD	164.1	243.5	83.50	150.3	1625.	124.3	70.78
#1	-.0004	-.0002	.0000	.0009	-.0002	.0006	-.0038
#2	.0013	.0003	.0003	-.0025	-.0012	.0024	-.0010
#3	.0007	.0004	.0004	-.0020	.0016	-.0000	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101990.**	**19029.**	**4240.6**	**9403.4**
Stddev	206.	59.	10.9	24.5
%RSD	.20155	.30982	.25670	.26067
#1	101750.	19089.	4253.1	9431.7
#2	102140.	18971.	4235.5	9389.3
#3	102070.	19028.	4233.2	9389.2

Zoom In Zoom Out

Sample Name: JC78945-5 Acquired: 12/6/2018 1:41:20 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0184**	**.0001**	**.0004**	**.0027**	**.0025**	**.0034**	**.3414**	**.0042**	**.0010**
Stddev	.0002	.0001	.0001	.0003	.0003	.0003	.0008	.0008	.0002
%RSD	1.292	83.11	18.15	10.05	11.36	10.17	.2200	18.85	23.11
#1	.0183	.0000	.0003	.0025	.0024	.0037	.3408	.0041	.0009
#2	.0181	.0000	.0005	.0030	.0028	.0034	.3411	.0051	.0009
#3	.0186	.0001	.0004	.0025	.0022	.0030	.3422	.0035	.0013

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0248**	**.0001**	**-.0002**	**.0014**	**-.0002**	**.0006**	**.4129**	**20.62**
Stddev	.0002	.0003	.0007	.0007	.0008	.0011	.0017	.0085	.02
%RSD	9.183	1.159	471.8	436.4	59.72	704.9	293.3	2.049	.1194
#1	.0023	.0249	.0009	.0006	.0010	.0010	.0026	.4165	20.59
#2	.0027	.0250	-.0005	-.0003	.0024	-.0012	-.0007	.4033	20.63
#3	.0026	.0245	.0001	-.0008	.0008	-.0002	-.0001	.4190	20.64

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9269**	**12.00**	**9.576**	**86.37**	**.0536**	**.0005**	**5.624**	**-.0012**	**.1473**
Stddev	.0047	.03	.026	.06	.0006	.0001	.117	.0004	.0001
%RSD	.5025	.2249	.2687	.0696	1.157	14.64	2.085	33.23	.0987
#1	.9320	11.97	9.546	86.44	.0541	.0004	5.563	-.0011	.1472
#2	.9228	11.99	9.591	86.37	.0529	.0006	5.759	-.0017	.1474
#3	.9260	12.03	9.590	86.32	.0539	.0006	5.549	-.0009	.1475

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0147**	**.0052**	**.0003**	**23.53**	**-.0012**	**.0007**	**.2160**
Stddev	.0008	.0003	.0002	.12	.0010	.0004	.0003
%RSD	5.731	6.251	60.20	.5262	79.87	55.37	.1535
#1	.0143	.0049	.0001	23.49	-.0016	.0012	.2157
#2	.0141	.0055	.0003	23.43	-.0019	.0003	.2160
#3	.0157	.0052	.0005	23.67	-.0001	.0007	.2163

Zoom In Zoom Out

Sample Name: JC78945-5 Acquired: 12/6/2018 1:41:20 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99138.**	**19169.**	**4138.0**	**8645.7**
Stddev	277.	39.	10.0	24.7
%RSD	.27985	.20123	.24126	.28589
#1	99456.	19127.	4148.3	8665.8
#2	99016.	19175.	4137.2	8653.1
#3	98943.	19203.	4128.4	8618.1

Zoom In Zoom Out

Sample Name: JC78945-6 Acquired: 12/6/2018 1:46:31 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0176**	**.0001**	**.0002**	**.0011**	**.0013**	**.0030**	**.4721**	**.0021**	**.0009**
Stddev	.0008	.0002	.0001	.0003	.0000	.0002	.0007	.0001	.0003
%RSD	4.665	203.4	41.95	29.21	2.026	7.854	.1444	2.420	28.32
#1	.0170	-.0000	.0001	.0010	.0013	.0032	.4715	.0021	.0012
#2	.0174	-.0000	.0002	.0014	.0013	.0028	.4729	.0021	.0009
#3	.0186	.0004	.0003	.0008	.0013	.0031	.4719	.0022	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0066**	**.0002**	**.0006**	**.0004**	**-.0011**	**-.0002**	**.1782**	**21.29**
Stddev	.0004	.0001	.0009	.0005	.0004	.0017	.0007	.0107	.02
%RSD	22.41	1.012	579.0	84.08	109.3	160.8	339.2	5.987	.0992
#1	.0013	.0067	.0012	.0010	.0004	.0009	.0003	.1726	21.29
#2	.0017	.0067	-.0007	.0008	-.0001	-.0016	.0001	.1715	21.28
#3	.0020	.0066	.0001	.0000	.0007	-.0025	-.0011	.1905	21.32

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5796**	**13.03**	**9.578**	**95.24**	**.0527**	**.0004**	**5.189**	**-.0008**	**.1562**
Stddev	.0570	.21	.021	.21	.0004	.0002	.012	.0006	.0017
%RSD	9.837	1.647	.2249	.2226	.7478	42.81	.2247	72.06	1.104
#1	.5469	12.90	9.603	95.47	.0532	.0004	5.183	-.0013	.1552
#2	.5465	12.91	9.566	95.21	.0526	.0002	5.181	-.0002	.1551
#3	.6455	13.28	9.566	95.05	.0524	.0006	5.202	-.0007	.1581

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061**	**.0051**	**-.0000**	**25.15**	**-.0010**	**.0008**	**.1259**
Stddev	.0002	.0004	.0001	.18	.0004	.0004	.0022
%RSD	2.560	6.965	159.9	.7163	40.28	44.45	1.724
#1	.0060	.0055	-.0001	24.96	-.0006	.0009	.1236
#2	.0062	.0051	-.0001	25.17	-.0009	.0004	.1260
#3	.0060	.0048	.0000	25.31	-.0014	.0012	.1280

Zoom In Zoom Out

Sample Name: JC78945-6 Acquired: 12/6/2018 1:46:31 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98250.**	**19091.**	**4105.0**	**8601.6**
Stddev	278.	73.	4.6	6.4
%RSD	.28258	.38495	.11122	.07391
#1	97940.	19051.	4108.9	8608.1
#2	98336.	19047.	4106.1	8595.4
#3	98475.	19176.	4100.0	8601.2

Zoom In Zoom Out

Sample Name: JC78945-7 Acquired: 12/6/2018 1:51:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0157**	**-.0000**	**-.0000**	**.0004**	**.0015**	**.0029**	**.3981**	**.0016**	**.0013**
Stddev	.0001	.0001	.0001	.0001	.0002	.0001	.0005	.0001	.0000
%RSD	.9136	879.1	429.4	25.12	13.17	4.640	.1281	6.327	3.801
#1	.0159	-.0000	-.0001	.0005	.0014	.0029	.3986	.0016	.0012
#2	.0158	.0001	.0001	.0003	.0014	.0027	.3981	.0017	.0013
#3	.0156	-.0001	-.0000	.0004	.0017	.0030	.3976	.0015	.0013

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0044**	**-.0000**	**-.0011**	**.0005**	**-.0002**	**-.0008**	**.1540**	**20.58**
Stddev	.0001	.0001	.0006	.0003	.0006	.0012	.0006	.0104	.17
%RSD	7.991	2.003	25350.	27.91	128.3	576.2	73.44	6.745	.8157
#1	.0013	.0043	.0007	-.0010	.0010	.0011	-.0001	.1609	20.76
#2	.0015	.0044	-.0005	-.0009	.0006	-.0008	-.0011	.1590	20.57
#3	.0013	.0045	-.0002	-.0014	-.0002	-.0009	-.0012	.1420	20.42

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4459**	**11.65**	**9.479**	**84.85**	**.0485**	**.0002**	**4.967**	**-.0006**	**.1447**
Stddev	.0014	.12	.059	.68	.0004	.0001	.011	.0002	.0010
%RSD	.3051	1.024	.6167	.8025	.7303	60.73	.2236	33.98	.7046
#1	.4471	11.77	9.540	85.53	.0489	.0001	4.962	-.0008	.1457
#2	.4462	11.66	9.471	84.86	.0484	.0003	4.980	-.0004	.1446
#3	.4444	11.53	9.424	84.17	.0482	.0003	4.959	-.0006	.1437

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051**	**.0048**	**-.0000**	**22.37**	**-.0008**	**.0010**	**.1102**
Stddev	.0005	.0009	.0000	.11	.0008	.0008	.0009
%RSD	9.659	19.79	343.3	.5070	101.8	86.10	.7789
#1	.0046	.0059	-.0000	22.24	-.0014	.0018	.1110
#2	.0055	.0041	-.0001	22.45	-.0010	.0011	.1102
#3	.0051	.0044	.0000	22.43	.0001	.0001	.1093

Zoom In Zoom Out

Sample Name: JC78945-7 Acquired: 12/6/2018 1:51:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98982.**	**18979.**	**4150.4**	**8710.4**
Stddev	81.	228.	8.1	13.5
%RSD	.08209	1.2033	.19495	.15464
#1	98943.	18760.	4144.0	8699.9
#2	99076.	18960.	4147.7	8705.6
#3	98928.	19215.	4159.5	8725.6

Zoom In Zoom Out

Sample Name: JC78945-8 Acquired: 12/6/2018 1:56:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0170**	**.0000**	**.0001**	**.0011**	**.0017**	**.0028**	**.5611**	**.0022**	**.0008**
Stddev	.0001	.0000	.0000	.0003	.0003	.0003	.0010	.0003	.0007
%RSD	.7944	415.9	55.42	22.65	18.68	9.182	.1751	12.50	88.13
#1	.0171	.0001	.0001	.0010	.0019	.0026	.5614	.0024	.0012
#2	.0171	-.0000	.0001	.0010	.0013	.0031	.5619	.0019	.0013
#3	.0169	-.0000	.0000	.0014	.0019	.0027	.5600	.0022	-.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0070**	**.0005**	**.0014**	**.0014**	**.0003**	**-.0014**	**.1946**	**21.24**
Stddev	.0001	.0000	.0007	.0013	.0003	.0006	.0009	.0078	.04
%RSD	7.430	.5185	135.8	95.94	23.46	168.3	65.78	3.995	.1777
#1	.0018	.0069	.0013	.0029	.0015	.0004	-.0007	.1857	21.27
#2	.0016	.0070	-.0001	.0002	.0017	.0009	-.0010	.2000	21.20
#3	.0016	.0070	.0004	.0011	.0010	-.0003	-.0024	.1980	21.24

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4957**	**12.19**	**9.885**	**89.72**	**.0524**	**.0004**	**4.996**	**-.0011**	**.1499**
Stddev	.0034	.06	.022	.15	.0003	.0003	.007	.0006	.0003
%RSD	.6928	.4892	.2187	.1631	.6604	76.28	.1362	49.27	.2325
#1	.4922	12.13	9.870	89.89	.0520	.0007	4.988	-.0016	.1503
#2	.4959	12.19	9.877	89.62	.0526	.0001	4.999	-.0012	.1497
#3	.4991	12.25	9.910	89.66	.0526	.0004	5.000	-.0005	.1498

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	**.0047**	**-.0002**	**24.39**	**-.0007**	**.0009**	**.1177**
Stddev	.0004	.0002	.0001	.20	.0011	.0006	.0013
%RSD	6.465	5.104	39.06	.8325	146.6	69.16	1.078
#1	.0060	.0050	-.0003	24.19	-.0002	.0016	.1163
#2	.0068	.0046	-.0002	24.40	-.0019	.0004	.1179
#3	.0064	.0046	-.0002	24.59	.0000	.0008	.1188

Zoom In Zoom Out

Sample Name: JC78945-8 Acquired: 12/6/2018 1:56:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98975.**	**19162.**	**4123.2**	**8639.3**
Stddev	153.	18.	18.1	24.3
%RSD	.15490	.09544	.43792	.28082
#1	99105.	19183.	4138.4	8659.4
#2	99015.	19148.	4127.8	8646.1
#3	98806.	19156.	4103.2	8612.3

Zoom In Zoom Out

Sample Name: JC78945-9 Acquired: 12/6/2018 2:02:04 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0180**	**.0003**	**.0001**	**.0013**	**.0016**	**.0030**	**.6153**	**.0026**	**.0012**
Stddev	.0004	.0005	.0001	.0002	.0004	.0001	.0011	.0002	.0001
%RSD	2.288	158.3	115.0	16.50	25.25	4.181	.1851	9.030	6.538
#1	.0178	.0000	.0000	.0012	.0015	.0031	.6166	.0025	.0012
#2	.0177	.0000	.0002	.0012	.0020	.0029	.6145	.0024	.0013
#3	.0184	.0008	.0001	.0015	.0012	.0029	.6147	.0028	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0097**	**.0001**	**-.0005**	**.0012**	**-.0001**	**-.0009**	**.2417**	**21.91**
Stddev	.0002	.0000	.0014	.0010	.0003	.0009	.0006	.0206	.06
%RSD	8.535	.4280	1631.	210.2	29.50	640.9	63.32	8.507	.2693
#1	.0021	.0097	-.0015	-.0005	.0014	.0009	-.0006	.2289	21.92
#2	.0018	.0098	.0007	.0005	.0013	-.0006	-.0015	.2308	21.84
#3	.0020	.0098	.0010	-.0014	.0008	-.0007	-.0005	.2654	21.96

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5580**	**12.71**	**10.28**	**93.59**	**.0554**	**.0005**	**5.215**	**-.0008**	**.1568**
Stddev	.0040	.01	.03	.23	.0004	.0002	.033	.0002	.0016
%RSD	.7160	.1016	.2931	.2453	.7266	34.32	.6237	25.30	1.006
#1	.5555	12.71	10.29	93.84	.0555	.0007	5.195	-.0009	.1558
#2	.5558	12.70	10.30	93.55	.0558	.0003	5.253	-.0009	.1559
#3	.5626	12.73	10.25	93.39	.0550	.0006	5.198	-.0006	.1586

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0077**	**.0056**	**-.0001**	**25.77**	**-.0002**	**.0004**	**.1260**
Stddev	.0005	.0003	.0001	.17	.0000	.0001	.0016
%RSD	5.938	5.576	49.56	.6449	18.34	35.25	1.266
#1	.0082	.0059	-.0001	25.82	-.0001	.0005	.1245
#2	.0075	.0053	-.0001	25.90	-.0002	.0003	.1276
#3	.0074	.0056	-.0002	25.58	-.0002	.0003	.1259

Zoom In Zoom Out

Sample Name: JC78945-9 Acquired: 12/6/2018 2:02:04 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98592.**	**19102.**	**4106.3**	**8588.2**
Stddev	88.	58.	26.0	42.7
%RSD	.08925	.30310	.63253	.49776
#1	98604.	19042.	4130.6	8629.0
#2	98498.	19158.	4079.0	8543.8
#3	98673.	19106.	4109.4	8591.9

Zoom In Zoom Out

Sample Name: JC78945-10 Acquired: 12/6/2018 2:07:16 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0000**	**.0001**	**.0006**	**.0006**	**.0003**	**.0036**	**.0042**	**.0002**
Stddev	.0000	.0000	.0001	.0001	.0003	.0001	.0000	.0005	.0006
%RSD	9.616	108.0	119.2	8.799	50.66	24.23	.2931	10.83	285.9
#1	.0005	-.0000	.0000	.0005	.0009	.0003	.0036	.0046	.0009
#2	.0005	.0001	.0002	.0006	.0005	.0004	.0035	.0043	-.0002
#3	.0004	.0001	.0000	.0006	.0003	.0003	.0036	.0037	-.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0038**	**-.0008**	**-.0003**	**.0001**	**-.0009**	**-.0003**	**.0087**	**.5597**
Stddev	.0001	.0001	.0018	.0003	.0008	.0015	.0011	.0026	.0007
%RSD	67.61	1.929	227.6	83.76	750.7	162.2	354.9	29.60	.1232
#1	.0001	.0037	.0002	-.0007	.0009	-.0011	.0009	.0102	.5605
#2	.0003	.0038	-.0029	-.0003	-.0001	-.0023	-.0012	.0101	.5596
#3	.0002	.0039	.0003	-.0001	-.0006	.0007	-.0007	.0057	.5591

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**.1205**	**.0224**	**.3179**	**.0067**	**.0001**	**.3258**	**-.0001**	**.0066**
Stddev	.0015	.0123	.0238	.0019	.0003	.0001	.0004	.0004	.0001
%RSD	48.39	10.17	105.9	.6108	3.946	122.5	.1359	435.1	1.837
#1	.0015	.1227	.0087	.3157	.0066	.0002	.3261	.0000	.0067
#2	.0035	.1073	.0088	.3194	.0066	.0000	.3259	-.0006	.0065
#3	.0045	.1316	.0499	.3187	.0070	.0000	.3253	.0002	.0067

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0001**	**-.0001**	**.0144**	**-.0007**	**-.0005**	**.0017**
Stddev	.0003	.0003	.0002	.0029	.0022	.0013	.0004
%RSD	82.05	472.6	283.8	20.39	300.2	246.1	22.57
#1	.0005	-.0002	-.0002	.0126	-.0025	-.0007	.0020
#2	.0006	.0000	-.0000	.0177	-.0015	-.0017	.0013
#3	.0000	.0003	.0001	.0128	.0018	.0008	.0018

Zoom In Zoom Out

Sample Name: JC78945-10 Acquired: 12/6/2018 2:07:16 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102920.**	**19224.**	**4244.0**	**9412.2**
Stddev	188.	61.	7.0	4.5
%RSD	.18239	.31882	.16422	.04826
#1	103130.	19293.	4245.9	9411.1
#2	102860.	19204.	4236.2	9408.3
#3	102760.	19175.	4249.7	9417.2

Zoom In Zoom Out

Sample Name: JC78941-3A Acquired: 12/6/2018 2:12:30 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0001**	**.0000**	**.0000**	**.0004**	**.0011**	**.0015**	**.0009**	**.0002**
Stddev	.0002	.0000	.0001	.0002	.0001	.0002	.0001	.0003	.0003
%RSD	11.39	37.86	421.6	1118.	28.86	13.67	3.363	33.39	107.1
#1	.0019	.0001	-.0001	-.0000	.0005	.0011	.0016	.0010	.0005
#2	.0024	.0001	-.0000	.0003	.0003	.0010	.0015	.0011	.0001
#3	.0022	.0001	.0002	-.0002	.0005	.0013	.0015	.0005	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0563**	**.0007**	**-.0006**	**.0004**	**-.0004**	**.0000**	**.0061**	**.7184**
Stddev	.0003	.0001	.0015	.0011	.0013	.0009	.0010	.0084	.0031
%RSD	130.6	.2371	225.9	163.4	373.0	244.3	2556.	137.6	.4262
#1	.0001	.0561	.0000	-.0012	.0001	.0006	.0011	-.0022	.7189
#2	.0006	.0564	-.0004	.0006	.0018	-.0004	-.0007	.0147	.7211
#3	.0000	.0563	.0023	-.0013	-.0008	-.0013	-.0003	.0060	.7151

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0828**	**-.0040**	**.0218**	**-.0006**	**.0002**	**.0970**	**-.0002**	**.0023**
Stddev	.0025	.0141	.0108	.0036	.0007	.0003	.0008	.0006	.0001
%RSD	68.39	17.05	270.5	16.61	113.3	153.0	.8140	257.5	4.024
#1	.0066	.0890	.0058	.0259	.0001	.0004	.0961	-.0006	.0022
#2	.0029	.0928	-.0156	.0190	-.0006	.0002	.0975	-.0006	.0024
#3	.0017	.0667	-.0023	.0204	-.0013	-.0001	.0974	.0005	.0024

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0002**	**-.0000**	**.0034**	**-.0024**	**-.0009**	**.0001**
Stddev	.0002	.0005	.0000	.0018	.0005	.0014	.0011
%RSD	23.27	338.0	68.24	53.34	20.45	148.8	1082.
#1	.0007	.0001	-.0000	.0015	-.0018	-.0021	-.0003
#2	.0010	-.0003	-.0000	.0051	-.0027	-.0014	-.0008
#3	.0007	.0007	-.0001	.0035	-.0027	.0006	.0013

Zoom In Zoom Out

Sample Name: JC78941-3A Acquired: 12/6/2018 2:12:30 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103410.**	**19417.**	**4272.5**	**9474.0**
Stddev	97.	65.	17.3	36.7
%RSD	.09414	.33371	.40593	.38777
#1	103490.	19407.	4275.2	9466.4
#2	103430.	19358.	4288.4	9513.9
#3	103300.	19487.	4254.0	9441.6

Zoom In Zoom Out

Sample Name: MP11023-MB1 Acquired: 12/6/2018 2:17:44 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0001**	**.0001**	**.0002**	**.0001**	**.0006**	**.0000**	**.0001**	**.0001**
Stddev	.0003	.0000	.0000	.0001	.0004	.0002	.0000	.0000	.0005
%RSD	309.5	75.46	13.34	37.84	332.1	23.71	72.31	38.25	535.0
#1	.0002	.0001	.0001	.0002	.0003	.0005	.0001	.0001	.0003
#2	-.0003	.0000	.0001	.0002	-.0003	.0006	.0001	.0002	-.0005
#3	-.0002	.0001	.0001	.0001	.0004	.0008	.0000	.0001	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0000**	**-.0010**	**.0000**	**.0008**	**-.0010**	**-.0002**	**-.0051**	**.0018**
Stddev	.0002	.0001	.0015	.0008	.0001	.0009	.0006	.0072	.0031
%RSD	57.28	1447.	152.2	3449.	9.100	87.82	307.0	142.1	178.9
#1	.0007	-.0001	-.0027	.0009	.0009	-.0002	.0001	-.0125	-.0011
#2	.0003	-.0001	-.0002	-.0005	.0008	-.0008	-.0008	-.0048	.0012
#3	.0003	.0001	-.0001	-.0003	.0008	-.0020	.0002	.0020	.0051

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**-.0137**	**-.0214**	**.0012**	**-.0019**	**.0002**	**.0095**	**-.0001**	**.0000**
Stddev	.0019	.0140	.0196	.0069	.0003	.0000	.0008	.0003	.0000
%RSD	126.9	101.9	91.39	585.2	17.66	22.98	8.013	371.0	72.42
#1	.0009	.0016	-.0062	.0009	-.0016	.0002	.0087	-.0002	.0000
#2	.0036	-.0171	-.0146	.0081	-.0019	.0001	.0098	.0003	.0001
#3	-.0000	-.0256	-.0435	-.0056	-.0023	.0002	.0101	-.0003	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0001**	**.0001**	**.0032**	**-.0007**	**-.0020**	**-.0005**
Stddev	.0006	.0007	.0001	.0007	.0004	.0001	.0006
%RSD	69.87	817.1	264.2	21.15	55.03	3.618	110.1
#1	.0008	-.0006	.0000	.0027	-.0009	-.0021	-.0011
#2	.0016	.0008	.0002	.0030	-.0011	-.0019	.0000
#3	.0003	-.0004	-.0001	.0040	-.0003	-.0020	-.0005

Zoom In Zoom Out

Sample Name: MP11023-MB1 Acquired: 12/6/2018 2:17:44 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103100.**	**19167.**	**4260.7**	**9452.3**
Stddev	107.	49.	4.3	4.0
%RSD	.10364	.25499	.10103	.04222
#1	102980.	19114.	4263.2	9452.9
#2	103140.	19211.	4255.7	9448.0
#3	103180.	19177.	4263.2	9456.0

Zoom In Zoom Out

Sample Name: MP11023-B1 Acquired: 12/6/2018 2:23:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.044**	**2.043**	**2.059**	**1.997**	**2.050**	**2.016**	**2.063**	**2.012**
Stddev	.004	.002	.007	.003	.006	.003	.005	.005
%RSD	.2037	.0810	.3545	.1686	.3139	.1635	.2266	.2731
#1	2.048	2.045	2.055	1.998	2.047	2.019	2.064	2.013
#2	2.040	2.042	2.055	1.993	2.046	2.013	2.058	2.006
#3	2.043	2.043	2.068	2.000	2.058	2.015	2.067	2.017

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2499**	**2.034**	**2.054**	**2.038**	**2.140**	**2.040**	**2.021**	**2.020**
Stddev	.0006	.004	.009	.004	.007	.006	.008	.003
%RSD	.2336	.1996	.4634	.1799	.3171	.3136	.4061	.1527
#1	.2497	2.033	2.055	2.037	2.139	2.040	2.015	2.020
#2	.2494	2.030	2.045	2.035	2.134	2.034	2.016	2.018
#3	.2505	2.038	2.064	2.042	2.147	2.046	2.030	2.024

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.09**	**25.23**	**25.17**	**24.64**	**25.13**	**25.28**	**2.001**	**2.066**
Stddev	.03	.04	.02	.03	.06	.02	.004	.005
%RSD	.1005	.1392	.0987	.1021	.2289	.0748	.2254	.2606
#1	25.11	25.27	25.20	24.62	25.19	25.30	1.997	2.066
#2	25.09	25.23	25.17	24.64	25.07	25.28	2.001	2.061
#3	25.06	25.20	25.15	24.67	25.12	25.26	2.006	2.072

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1166**	**2.101**	**2.057**	**2.123**	**1.897**	**2.021**	F **-.0860**	**.0171**
Stddev	.0006	.009	.005	.007	.009	.002	.0026	.0005
%RSD	.4998	.4423	.2427	.3159	.4669	.0853	2.982	2.724
#1	.1167	2.098	2.062	2.123	1.891	2.021	-.0855	.0171
#2	.1172	2.093	2.053	2.116	1.893	2.019	-.0837	.0167
#3	.1160	2.111	2.055	2.129	1.907	2.023	-.0887	.0176

Zoom In Zoom Out

Sample Name: MP11023-B1 Acquired: 12/6/2018 2:23:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0013**	**2.087**
Stddev	.0010	.009
%RSD	77.93	.4551
#1	-.0008	2.090
#2	-.0006	2.076
#3	-.0025	2.094

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99036.**	**19085.**	**4153.8**	**8655.1**
Stddev	400.	45.	8.6	14.8
%RSD	.40425	.23710	.20672	.17096
#1	99201.	19133.	4150.8	8643.7
#2	99328.	19080.	4163.5	8671.8
#3	98580.	19043.	4147.2	8649.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 2:27:54 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.125**	**2.097**	**2.133**	**2.082**	**2.142**	**2.076**	**2.134**	**2.109**	**.2558**
Stddev	.000	.001	.004	.002	.003	.004	.002	.003	.0005
%RSD	.0099	.0675	.1801	.1061	.1344	.2025	.1129	.1380	.1913
#1	2.125	2.098	2.128	2.084	2.139	2.081	2.132	2.112	.2560
#2	2.125	2.098	2.135	2.080	2.143	2.073	2.137	2.109	.2553
#3	2.125	2.096	2.135	2.081	2.144	2.075	2.133	2.106	.2563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.117**	**2.139**	**2.058**	F **2.211**	**2.124**	**2.107**	**1.994**	**40.27**	**40.50**
Stddev	.002	.006	.007	.010	.002	.008	.005	.07	.09
%RSD	.0919	.2663	.3394	.4548	.0961	.3777	.2440	.1677	.2259
#1	2.116	2.146	2.051	2.207	2.122	2.100	1.989	40.29	40.54
#2	2.119	2.135	2.065	2.223	2.126	2.116	1.998	40.32	40.57
#3	2.115	2.136	2.060	2.204	2.124	2.105	1.996	40.19	40.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.17**	**39.96**	**40.70**	**40.75**	**2.088**	**2.014**	**4.988**	**2.065**	**2.136**
Stddev	.06	.09	.08	.05	.004	.003	.011	.005	.001
%RSD	.1567	.2269	.2052	.1270	.1810	.1343	.2195	.2567	.0664
#1	40.15	39.97	40.68	40.79	2.084	2.011	4.975	2.059	2.137
#2	40.24	40.05	40.79	40.78	2.091	2.017	4.992	2.067	2.135
#3	40.13	39.87	40.63	40.69	2.090	2.014	4.996	2.069	2.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 2:27:54 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.075**	**2.017**	**2.001**	**2.045**	**2.042**	**2.038**	**2.157**
Stddev	.005	.002	.001	.013	.005	.002	.013
%RSD	.2411	.0975	.0698	.6488	.2333	.0954	.6015
#1	2.074	2.019	2.001	2.031	2.037	2.040	2.144
#2	2.071	2.017	2.003	2.058	2.047	2.037	2.170
#3	2.081	2.015	2.000	2.046	2.043	2.036	2.156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96799.**	**18764.**	**4085.8**	**8383.1**
Stddev	131.	65.	4.0	7.3
%RSD	.13505	.34612	.09912	.08652
#1	96792.	18757.	4086.1	8376.4
#2	96933.	18703.	4089.6	8390.8
#3	96672.	18832.	4081.6	8382.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 2:32:45 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0003**	**.0003**	**.0003**	**.0009**	**.0002**	**.0003**	**-.0000**
Stddev	.0001	.0001	.0001	.0001	.0005	.0001	.0001	.0002	.0003
%RSD	82.17	46.28	48.86	45.15	194.7	6.840	53.93	54.92	1106.
#1	.0002	.0001	.0004	.0003	.0003	.0010	.0001	.0001	.0003
#2	.0003	.0002	.0002	.0005	-.0002	.0010	.0001	.0005	-.0001
#3	.0000	.0002	.0002	.0002	.0008	.0009	.0003	.0003	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0003**	**.0010**	**.0002**	**.0000**	**.0000**	**-.0013**	**-.0002**	**.0050**
Stddev	.0001	.0001	.0002	.0010	.0006	.0017	.0008	.0075	.0024
%RSD	25.84	34.39	17.33	556.0	12250.	55290.	61.20	4700.	49.04
#1	.0005	.0002	.0010	.0013	-.0002	-.0008	-.0022	-.0029	.0036
#2	.0003	.0003	.0012	-.0006	.0007	-.0011	-.0007	.0083	.0035
#3	.0003	.0002	.0009	-.0002	-.0005	.0019	-.0011	-.0059	.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**-.0007**	**.0074**	**.0133**	**.0001**	**.0008**	**.0007**	**.0008**	**.0001**
Stddev	.0017	.0103	.0163	.0028	.0007	.0003	.0014	.0003	.0000
%RSD	51.62	1449.	220.9	20.89	702.3	36.28	197.2	30.28	28.66
#1	.0052	-.0005	.0253	.0159	.0002	.0011	.0001	.0010	.0002
#2	.0022	.0094	-.0067	.0137	.0008	.0006	.0023	.0009	.0001
#3	.0023	-.0111	.0036	.0104	-.0007	.0006	-.0003	.0006	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 2:32:45 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0033**	**.0004**	**-.0014**	**.0009**	**-.0005**	**-.0016**
Stddev	.0004	.0002	.0001	.0002	.0002	.0009	.0012
%RSD	67.95	6.031	19.23	15.06	24.32	189.7	70.08
#1	.0001	.0033	.0004	-.0014	.0007	.0005	-.0029
#2	.0009	.0035	.0005	-.0016	.0011	-.0013	-.0014
#3	.0006	.0031	.0003	-.0012	.0008	-.0006	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101270.**	**18923.**	**4217.5**	**9360.5**
Stddev	119.	219.	2.4	9.2
%RSD	.11728	1.1579	.05722	.09817
#1	101310.	18941.	4218.0	9363.6
#2	101130.	18695.	4219.6	9367.7
#3	101360.	19132.	4214.9	9350.2

Zoom In Zoom Out

Sample Name: MP11023-S1 Acquired: 12/6/2018 2:38:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.362**	**2.046**	**2.111**	**2.040**	**2.044**	**2.030**	F **10.95**	**2.047**
Stddev	.004	.005	.002	.002	.008	.002	.05	.002
%RSD	.1567	.2530	.0765	.1047	.3909	.1011	.4583	.1158
#1	2.360	2.040	2.113	2.037	2.050	2.028	10.94	2.044
#2	2.366	2.048	2.110	2.041	2.035	2.032	10.91	2.047
#3	2.360	2.050	2.110	2.041	2.047	2.031	11.01	2.048

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2612**	**2.055**	**2.038**	**2.120**	**2.096**	**2.051**	**2.081**	**2.062**
Stddev	.0011	.003	.004	.006	.010	.002	.006	.005
%RSD	.4143	.1327	.1901	.2639	.4872	.1041	.2869	.2474
#1	.2602	2.057	2.035	2.121	2.105	2.050	2.084	2.064
#2	.2610	2.052	2.038	2.125	2.099	2.049	2.085	2.066
#3	.2623	2.057	2.042	2.114	2.085	2.053	2.074	2.057

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.60**	**140.7**	**25.89**	**79.35**	**27.88**	W **216.8**	**2.058**	**2.065**
Stddev	.06	.5	.08	.42	.03	1.1	.001	.001
%RSD	.2216	.3264	.2960	.5319	.1171	.4994	.0238	.0439
#1	25.57	140.3	25.81	79.00	27.85	217.9	2.058	2.065
#2	25.67	140.7	25.89	79.23	27.90	215.8	2.059	2.064
#3	25.57	141.2	25.96	79.82	27.90	216.5	2.058	2.065

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.92**	**2.063**	**2.441**	**2.153**	**2.022**	**2.047**	**8.612**	**.0165**
Stddev	.01	.003	.004	.007	.007	.003	.059	.0018
%RSD	.0368	.1471	.1511	.3274	.3365	.1455	.6819	10.67
#1	16.91	2.063	2.440	2.145	2.015	2.048	8.651	.0182
#2	16.92	2.066	2.445	2.158	2.023	2.044	8.640	.0147
#3	16.91	2.060	2.437	2.156	2.028	2.050	8.544	.0164

Zoom In Zoom Out

Sample Name: MP11023-S1 Acquired: 12/6/2018 2:38:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0019**	**2.208**
Stddev	.0002	.012
%RSD	8.307	.5395
#1	-.0017	2.212
#2	-.0020	2.217
#3	-.0019	2.194

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93708.**	**18679.**	**3930.2**	**7856.5**
Stddev	393.	74.	3.5	6.9
%RSD	.41941	.39530	.08939	.08835
#1	93365.	18750.	3928.6	7854.5
#2	94137.	18603.	3934.3	7864.2
#3	93620.	18684.	3927.8	7850.8

Zoom In Zoom Out

Sample Name: MP11023-S2 Acquired: 12/6/2018 2:43:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.298**	**2.014**	**2.074**	**2.001**	**1.999**	**2.000**	F **10.51**	**2.011**
Stddev	.003	.005	.005	.005	.015	.012	.01	.005
%RSD	.1317	.2614	.2246	.2749	.7580	.6019	.1347	.2422
#1	2.295	2.019	2.078	2.006	1.989	1.991	10.50	2.015
#2	2.298	2.014	2.076	2.002	1.992	1.995	10.52	2.013
#3	2.301	2.009	2.069	1.995	2.016	2.013	10.50	2.006

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2556**	**2.015**	**1.998**	**2.071**	**2.049**	**2.012**	**2.037**	**2.037**
Stddev	.0016	.016	.001	.008	.013	.003	.004	.005
%RSD	.6329	.7716	.0240	.3668	.6443	.1462	.1893	.2247
#1	.2553	2.005	1.998	2.068	2.039	2.012	2.035	2.042
#2	.2542	2.007	1.998	2.079	2.064	2.015	2.041	2.034
#3	.2574	2.033	1.997	2.065	2.045	2.009	2.034	2.034

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.12**	**135.8**	**25.52**	**77.08**	**27.30**	W **207.6**	**2.023**	**2.035**
Stddev	.03	.6	.05	.50	.00	.7	.005	.003
%RSD	.1293	.4105	.1846	.6424	.0162	.3609	.2348	.1416
#1	25.16	136.4	25.57	77.46	27.30	208.1	2.028	2.038
#2	25.10	135.9	25.53	77.25	27.30	206.8	2.024	2.035
#3	25.10	135.2	25.47	76.52	27.30	208.0	2.018	2.032

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.33**	**2.019**	**2.366**	**2.113**	**1.977**	**2.017**	**8.263**	**.0162**
Stddev	.04	.009	.002	.025	.003	.015	.042	.0014
%RSD	.2399	.4267	.1004	1.162	.1611	.7425	.5029	8.626
#1	16.37	2.018	2.363	2.101	1.981	2.007	8.228	.0172
#2	16.34	2.028	2.366	2.096	1.977	2.010	8.309	.0168
#3	16.29	2.011	2.368	2.141	1.974	2.034	8.251	.0146

Zoom In Zoom Out

Sample Name: MP11023-S2 Acquired: 12/6/2018 2:43:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0006**	**2.158**
Stddev	.0001	.016
%RSD	8.766	.7321
#1	.0007	2.148
#2	.0006	2.176
#3	.0006	2.151

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94472.**	**18843.**	**3950.3**	**7906.1**
Stddev	876.	47.	11.1	24.4
%RSD	.92751	.24893	.28172	.30917
#1	94941.	18826.	3939.9	7886.5
#2	95015.	18807.	3948.8	7898.3
#3	93461.	18896.	3962.1	7933.5

Zoom In Zoom Out

Sample Name: JC78870-1 Acquired: 12/6/2018 2:48:17 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2966**	**.0002**	**-.0001**	**.0087**	**.0039**	**.0031**	F **9.151**	**.0037**	**.0009**
Stddev	.0003	.0001	.0004	.0000	.0002	.0004	.022	.0005	.0003
%RSD	.1140	28.53	677.1	.5718	5.757	12.71	.2462	14.32	28.79
#1	.2962	.0002	-.0003	.0086	.0039	.0027	9.175	.0035	.0009
#2	.2968	.0002	.0004	.0087	.0042	.0032	9.131	.0034	.0011
#3	.2968	.0001	-.0003	.0087	.0037	.0035	9.147	.0044	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053**	**-.0000**	**.0015**	**.0020**	**.0004**	**-.0020**	**.0005**	**.0332**	**114.7**
Stddev	.0004	.0001	.0007	.0010	.0002	.0008	.0005	.0072	.2
%RSD	7.106	313.9	47.52	49.53	65.93	37.74	115.7	21.80	.1550
#1	.0058	-.0000	.0022	.0031	.0004	-.0018	-.0001	.0364	114.5
#2	.0050	-.0001	.0009	.0015	.0005	-.0028	.0007	.0249	114.7
#3	.0052	.0001	.0014	.0013	.0001	-.0014	.0009	.0382	114.9

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8982**	**54.59**	**1.791**	**185.6**	**.0338**	**.0004**	**16.74**	**-.0023**	**.3549**
Stddev	.0017	.10	.025	3.0	.0005	.0002	.03	.0007	.0006
%RSD	.1869	.1743	1.401	1.629	1.348	34.82	.1827	32.09	.1810
#1	.8964	54.57	1.774	186.1	.0343	.0006	16.71	-.0019	.3542
#2	.8988	54.51	1.780	188.3	.0338	.0003	16.77	-.0032	.3553
#3	.8996	54.69	1.820	182.3	.0333	.0004	16.73	-.0019	.3552

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0249**	**-.0004**	**8.669**	**-.0014**	**.0009**	**.0423**
Stddev	.0003	.0009	.0002	.132	.0003	.0009	.0011
%RSD	21.19	3.456	44.57	1.517	23.94	96.09	2.696
#1	.0017	.0258	-.0004	8.523	-.0015	-.0001	.0433
#2	.0011	.0248	-.0002	8.705	-.0016	.0014	.0425
#3	.0016	.0241	-.0006	8.779	-.0010	.0014	.0411

Zoom In Zoom Out

Sample Name: JC78870-1 Acquired: 12/6/2018 2:48:17 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**94189.**	**18626.**	**3899.3**	**7988.1**
Stddev	441.	17.	5.7	3.9
%RSD	.46805	.09348	.14528	.04851
#1	93682.	18612.	3903.6	7992.5
#2	94475.	18620.	3892.9	7985.3
#3	94412.	18645.	3901.5	7986.6

Zoom In Zoom Out

Sample Name: MP11023-SD1 Acquired: 12/6/2018 2:53:46 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2967**	**.0002**	**-.0003**	**.0096**	**.0058**	**.0084**	**9.518**	**.0033**	**.0029**
Stddev	.0032	.0001	.0007	.0007	.0012	.0008	.006	.0007	.0017
%RSD	1.072	47.58	259.3	6.770	20.81	10.01	.0618	21.08	57.68
#1	.2930	.0002	-.0010	.0103	.0051	.0077	9.517	.0040	.0017
#2	.2987	.0001	.0004	.0097	.0072	.0082	9.512	.0027	.0049
#3	.2983	.0002	-.0002	.0090	.0050	.0093	9.524	.0030	.0022

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090**	**.0043**	**.0025**	**.0044**	**-.0002**	**-.0058**	**-.0056**	**.0326**	**115.7**
Stddev	.0003	.0004	.0053	.0045	.0023	.0059	.0063	.0166	.9
%RSD	3.018	8.575	212.4	100.9	1161.	102.0	114.0	51.05	.7983
#1	.0088	.0045	.0001	.0070	.0015	-.0019	.0017	.0357	114.8
#2	.0093	.0045	-.0012	-.0007	-.0029	-.0126	-.0088	.0475	116.7
#3	.0088	.0039	.0087	.0070	.0008	-.0029	-.0096	.0146	115.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9231**	**55.44**	**1.920**	**190.3**	**.0305**	**.0015**	**16.47**	**-.0017**	**.3556**
Stddev	.0099	.51	.135	1.4	.0011	.0009	.01	.0034	.0025
%RSD	1.072	.9160	7.045	.7332	3.586	61.67	.0727	192.9	.7002
#1	.9135	54.93	1.777	188.8	.0298	.0009	16.47	-.0031	.3534
#2	.9333	55.94	2.045	191.6	.0318	.0011	16.47	-.0042	.3583
#3	.9225	55.45	1.939	190.5	.0299	.0026	16.45	.0021	.3552

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0407**	**-.0010**	**8.370**	**.0036**	**.0015**	**.0386**
Stddev	.0021	.0023	.0005	.044	.0084	.0015	.0024
%RSD	96.61	5.765	49.86	.5305	229.8	99.56	6.114
#1	.0001	.0414	-.0005	8.411	.0028	.0006	.0359
#2	.0044	.0426	-.0015	8.377	.0124	.0007	.0399
#3	.0021	.0381	-.0010	8.323	-.0043	.0033	.0401

Zoom In Zoom Out

Sample Name: MP11023-SD1 Acquired: 12/6/2018 2:53:46 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98225.**	**18636.**	**4088.3**	**8739.5**
Stddev	136.	173.	9.9	16.1
%RSD	.13848	.92856	.24176	.18376
#1	98360.	18810.	4099.7	8757.5
#2	98087.	18464.	4081.9	8726.6
#3	98227.	18635.	4083.3	8734.4

Zoom In Zoom Out

Sample Name: JC78870-2 Acquired: 12/6/2018 2:58:57 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0410**	**.0005**	**.0001**	**.0194**	**.0101**	**.0080**	F **26.44**	**.0040**
Stddev	.0005	.0001	.0002	.0003	.0001	.0007	.14	.0001
%RSD	1.236	10.46	341.4	1.499	1.454	8.179	.5269	3.259
#1	.0415	.0006	-.0001	.0196	.0099	.0075	26.43	.0039
#2	.0410	.0005	.0002	.0190	.0101	.0077	26.31	.0039
#3	.0404	.0005	.0000	.0194	.0102	.0087	26.59	.0041

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0018**	**.0003**	**.0033**	**.0146**	**.0234**	**.0001**	**-.0013**
Stddev	.0002	.0012	.0001	.0001	.0009	.0004	.0003	.0003
%RSD	15.89	70.08	25.52	3.589	6.318	1.586	277.5	21.54
#1	.0017	.0005	.0003	.0032	.0152	.0230	.0001	-.0016
#2	.0013	.0018	.0004	.0032	.0151	.0236	-.0002	-.0011
#3	.0017	.0030	.0002	.0034	.0136	.0237	.0005	-.0011

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0573**	**77.18**	**23.50**	**23.15**	**2.085**	**110.8**	**.3364**	**-.0001**
Stddev	.0045	.48	.19	.20	.011	.7	.0013	.0002
%RSD	7.813	.6199	.7951	.8819	.5072	.6748	.3832	111.5
#1	.0578	77.56	23.67	23.24	2.078	111.5	.3361	-.0003
#2	.0614	77.33	23.54	23.30	2.097	111.0	.3379	-.0000
#3	.0525	76.64	23.30	22.92	2.079	110.0	.3353	-.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.87**	**-.0039**	**.3594**	**.0035**	**.0240**	W **-.0016**	**21.61**	**.0021**
Stddev	.04	.0005	.0017	.0005	.0004	.0002	.16	.0009
%RSD	.2342	13.73	.4759	13.66	1.724	12.34	.7384	43.36
#1	18.90	-.0042	.3608	.0039	.0245	-.0015	21.71	.0028
#2	18.89	-.0043	.3600	.0030	.0237	-.0018	21.69	.0011
#3	18.82	-.0033	.3575	.0037	.0239	-.0014	21.42	.0024

Zoom In Zoom Out

Sample Name: JC78870-2 Acquired: 12/6/2018 2:58:57 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0011**	**.1974**
Stddev	.0005	.0013
%RSD	40.32	.6591
#1	-.0015	.1959
#2	-.0013	.1981
#3	-.0006	.1982

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96679.**	**18845.**	**4036.4**	**8340.1**
Stddev	370.	149.	5.7	9.0
%RSD	.38290	.78876	.14147	.10811
#1	96967.	18728.	4040.1	8342.5
#2	96809.	18794.	4029.9	8330.2
#3	96262.	19012.	4039.3	8347.7

Zoom In Zoom Out

Sample Name: JC78870-3 Acquired: 12/6/2018 3:04:15 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0326**	**.0004**	**-.0005**	**.0158**	**.0066**	**.0056**	F **19.90**	**.0188**
Stddev	.0001	.0001	.0001	.0003	.0002	.0001	.25	.0005
%RSD	.4500	29.87	12.50	2.046	3.288	2.147	1.250	2.795
#1	.0324	.0003	-.0005	.0156	.0064	.0056	19.70	.0192
#2	.0327	.0005	-.0005	.0162	.0068	.0056	19.82	.0191
#3	.0326	.0005	-.0004	.0156	.0065	.0058	20.18	.0182

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038**	**.0068**	**.0003**	**.0014**	**.0022**	F **-.0068**	**-.0008**	**-.0004**
Stddev	.0002	.0000	.0001	.0014	.0014	.0006	.0004	.0003
%RSD	4.371	.4799	23.95	101.8	62.08	8.171	49.77	59.81
#1	.0038	.0067	.0004	.0024	.0038	-.0064	-.0007	-.0006
#2	.0037	.0068	.0003	.0020	.0012	-.0066	-.0012	-.0006
#3	.0040	.0068	.0004	-.0002	.0017	-.0074	-.0004	-.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0314**	F **473.2**	**21.74**	**70.19**	**22.82**	**72.13**	**.1197**	**.0094**
Stddev	.0075	2.3	.07	.32	.06	.10	.0011	.0003
%RSD	24.01	.4762	.3299	.4491	.2490	.1409	.8872	3.234
#1	.0227	470.8	21.66	69.86	22.78	72.04	.1206	.0091
#2	.0357	475.3	21.79	70.49	22.88	72.24	.1185	.0097
#3	.0358	473.5	21.77	70.22	22.79	72.10	.1200	.0095

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.20**	**-.0031**	**.6976**	**.0001**	**.0217**	**.0003**	F **431.5**	**.0043**
Stddev	.04	.0001	.0003	.0003	.0007	.0002	1.3	.0005
%RSD	.2674	3.265	.0434	367.8	3.436	65.68	.3093	11.36
#1	15.15	-.0031	.6972	.0003	.0218	.0006	430.0	.0041
#2	15.22	-.0030	.6976	-.0003	.0223	.0002	432.2	.0040
#3	15.23	-.0032	.6979	.0002	.0209	.0002	432.4	.0049

Zoom In Zoom Out

Sample Name: JC78870-3 Acquired: 12/6/2018 3:04:15 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	W **-.0151**	**.0683**
Stddev	.0011	.0010
%RSD	7.012	1.450
#1	-.0151	.0672
#2	-.0140	.0691
#3	-.0161	.0687

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**90793.**	**18611.**	**3762.6**	**7749.5**
Stddev	1302.	119.	9.9	16.0
%RSD	1.4336	.64033	.26264	.20594
#1	91725.	18703.	3773.4	7767.9
#2	91349.	18477.	3760.4	7740.7
#3	89306.	18654.	3754.1	7739.8

Zoom In Zoom Out

Sample Name: JC78870-4 Acquired: 12/6/2018 3:09:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0832**	**.0002**	**-.0002**	**.0017**	**.0035**	**.0150**	**2.218**	**.0042**	**.0011**
Stddev	.0004	.0002	.0002	.0002	.0002	.0005	.003	.0002	.0003
%RSD	.4433	65.90	96.23	9.736	5.509	3.440	.1548	5.863	26.54
#1	.0835	.0002	.0000	.0016	.0038	.0156	2.221	.0039	.0014
#2	.0833	.0004	-.0003	.0019	.0034	.0145	2.218	.0044	.0010
#3	.0828	.0001	-.0003	.0016	.0035	.0149	2.214	.0042	.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0123**	**.0526**	**.0065**	**.0001**	**.0068**	**-.0017**	**-.0003**	**1.137**	**54.89**
Stddev	.0002	.0002	.0005	.0009	.0008	.0012	.0007	.005	.18
%RSD	1.829	.3946	8.131	1531.	11.43	72.02	224.0	.4372	.3354
#1	.0121	.0527	.0061	.0005	.0059	-.0029	-.0004	1.140	55.08
#2	.0125	.0524	.0071	-.0009	.0072	-.0004	-.0010	1.139	54.71
#3	.0123	.0528	.0064	.0006	.0072	-.0019	.0005	1.131	54.90

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.92**	**21.91**	**3.947**	**30.33**	**.3005**	**.0007**	**12.36**	**-.0012**	**.2791**
Stddev	.09	.10	.002	.07	.0013	.0001	.02	.0004	.0010
%RSD	.2660	.4448	.0447	.2326	.4228	13.89	.1903	34.84	.3603
#1	34.01	21.93	3.948	30.42	.2991	.0007	12.39	-.0014	.2799
#2	33.83	21.81	3.945	30.30	.3008	.0008	12.35	-.0007	.2794
#3	33.93	22.00	3.948	30.29	.3015	.0006	12.35	-.0016	.2780

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0851**	**.0146**	**.0005**	**2.466**	**.0011**	**-.0019**	**.1904**
Stddev	.0012	.0001	.0000	.023	.0011	.0014	.0016
%RSD	1.412	.6491	8.542	.9245	105.7	74.13	.8157
#1	.0841	.0145	.0004	2.464	.0003	-.0005	.1919
#2	.0847	.0147	.0005	2.445	.0006	-.0033	.1888
#3	.0864	.0146	.0005	2.490	.0023	-.0020	.1905

Zoom In Zoom Out

Sample Name: JC78870-4 Acquired: 12/6/2018 3:09:43 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98774.**	**19109.**	**4129.2**	**8711.1**
Stddev	390.	140.	10.6	24.8
%RSD	.39434	.73133	.25728	.28464
#1	98480.	18977.	4121.2	8704.9
#2	99216.	19256.	4141.2	8738.5
#3	98626.	19095.	4125.1	8690.1

Zoom In Zoom Out

Sample Name: JC78870-5 Acquired: 12/6/2018 3:14:51 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0577**	**.0002**	**.0000**	**.0005**	**.0031**	**.0115**	**3.256**	**.0015**	**.0010**
Stddev	.0001	.0000	.0003	.0001	.0002	.0003	.013	.0002	.0002
%RSD	.1694	26.07	1919.	16.70	4.842	2.957	.4067	10.30	17.46
#1	.0578	.0002	.0001	.0005	.0033	.0119	3.271	.0017	.0011
#2	.0576	.0002	.0002	.0005	.0030	.0115	3.249	.0015	.0008
#3	.0578	.0001	-.0003	.0004	.0030	.0112	3.247	.0014	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0088**	**.0025**	**-.0013**	**.0237**	**-.0010**	**-.0002**	**.1760**	**82.74**
Stddev	.0002	.0001	.0004	.0005	.0004	.0012	.0009	.0033	.12
%RSD	4.694	1.140	16.06	41.70	1.787	122.9	385.0	1.881	.1447
#1	.0048	.0087	.0022	-.0010	.0240	.0003	-.0013	.1723	82.88
#2	.0050	.0088	.0029	-.0010	.0239	-.0011	.0002	.1769	82.68
#3	.0046	.0090	.0023	-.0019	.0232	-.0022	.0003	.1788	82.67

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.44**	**31.40**	**1.533**	**56.53**	**.5191**	**.0005**	**14.67**	**-.0022**	**.3483**
Stddev	.04	.05	.007	.09	.0030	.0002	.03	.0002	.0009
%RSD	.1268	.1572	.4702	.1592	.5782	37.03	.1790	7.177	.2522
#1	28.45	31.42	1.530	56.61	.5168	.0006	14.64	-.0020	.3491
#2	28.40	31.43	1.528	56.44	.5179	.0005	14.66	-.0022	.3474
#3	28.46	31.34	1.542	56.55	.5225	.0003	14.69	-.0023	.3483

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106**	**.0176**	**-.0009**	**41.13**	**.0011**	**-.0018**	**.3176**
Stddev	.0007	.0008	.0002	.55	.0010	.0008	.0036
%RSD	6.280	4.410	16.41	1.340	89.74	42.28	1.137
#1	.0108	.0182	-.0010	41.56	.0023	-.0010	.3208
#2	.0099	.0167	-.0010	40.51	.0006	-.0019	.3137
#3	.0112	.0179	-.0008	41.32	.0004	-.0025	.3185

Zoom In Zoom Out

Sample Name: JC78870-5 Acquired: 12/6/2018 3:14:51 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96766.**	**19066.**	**4028.0**	**8436.5**
Stddev	409.	23.	1.9	9.3
%RSD	.42304	.12196	.04809	.11007
#1	96337.	19067.	4030.0	8425.7
#2	96809.	19089.	4026.2	8442.0
#3	97152.	19042.	4027.7	8441.6

Zoom In Zoom Out

Sample Name: JC78879-1 Acquired: 12/6/2018 3:20:00 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0752**	**.0004**	**-.0005**	**.0274**	**.0033**	**.0024**	**4.048**	**.0247**
Stddev	.0003	.0001	.0002	.0002	.0004	.0001	.003	.0003
%RSD	.3826	21.35	40.13	.8416	11.26	4.206	.0799	1.334
#1	.0750	.0003	-.0003	.0274	.0031	.0024	4.045	.0248
#2	.0756	.0004	-.0005	.0277	.0032	.0023	4.051	.0251
#3	.0752	.0003	-.0008	.0272	.0038	.0025	4.046	.0244

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0058**	**.0247**	**.0087**	**.0001**	**.0002**	**.0023**	**-.0008**
Stddev	.0006	.0004	.0001	.0017	.0003	.0010	.0030	.0010
%RSD	35.66	6.195	.3207	19.27	181.0	499.8	126.4	128.5
#1	.0018	.0062	.0247	.0090	-.0001	.0011	-.0001	-.0020
#2	.0020	.0057	.0248	.0069	.0001	-.0008	.0015	-.0004
#3	.0009	.0055	.0246	.0102	.0004	.0004	.0056	-.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1399**	**57.32**	**102.5**	**22.45**	**2.234**	**143.5**	**.0707**	**.0022**
Stddev	.0069	.07	.2	.08	.026	1.1	.0001	.0001
%RSD	4.909	.1168	.1470	.3480	1.179	.7641	.1582	2.405
#1	.1328	57.38	102.6	22.51	2.261	144.4	.0708	.0022
#2	.1465	57.24	102.4	22.36	2.208	142.2	.0707	.0022
#3	.1406	57.33	102.3	22.47	2.233	143.8	.0706	.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.94**	**-.0006**	**.2040**	**.0034**	**.0245**	W **-.0018**	**1.436**	**.0069**
Stddev	.03	.0003	.0004	.0008	.0002	.0001	.015	.0006
%RSD	.2305	39.46	.2146	24.77	.6503	3.478	1.052	8.765
#1	10.96	-.0006	.2035	.0042	.0246	-.0017	1.441	.0075
#2	10.95	-.0004	.2044	.0026	.0243	-.0018	1.447	.0063
#3	10.91	-.0009	.2040	.0033	.0246	-.0018	1.418	.0068

Zoom In Zoom Out

Sample Name: JC78879-1 Acquired: 12/6/2018 3:20:00 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0060**	**.0485**
Stddev	.0009	.0006
%RSD	14.16	1.216
#1	.0068	.0479
#2	.0051	.0486
#3	.0063	.0490

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**95651.**	**18908.**	**3998.1**	**8319.0**
Stddev	150.	96.	6.6	15.2
%RSD	.15655	.50871	.16432	.18307
#1	95671.	19013.	3997.7	8321.1
#2	95789.	18824.	3991.7	8302.9
#3	95492.	18887.	4004.8	8333.2

Zoom In Zoom Out

Sample Name: JC78879-2 Acquired: 12/6/2018 3:25:14 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0140**	**.0003**	**.0041**	**.0181**	**.0162**	**.0025**	**.3457**	**.1068**	**.0004**
Stddev	.0002	.0001	.0001	.0001	.0002	.0002	.0040	.0003	.0003
%RSD	1.112	25.64	2.124	.4782	1.139	7.751	1.160	.2816	94.89
#1	.0140	.0003	.0042	.0182	.0164	.0025	.3495	.1066	.0005
#2	.0141	.0004	.0040	.0181	.0162	.0027	.3462	.1071	-.0000
#3	.0138	.0002	.0041	.0180	.0161	.0023	.3415	.1065	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0177**	**.3315**	**.0040**	**-.0004**	**.0072**	**-.0016**	**-.0002**	**1.225**	**12.29**
Stddev	.0001	.0024	.0014	.0007	.0005	.0010	.0011	.010	.01
%RSD	.4162	.7326	36.02	177.3	7.006	59.48	596.8	.8395	.0584
#1	.0177	.3342	.0056	-.0005	.0077	-.0007	.0010	1.222	12.29
#2	.0177	.3305	.0030	.0004	.0070	-.0015	-.0011	1.237	12.29
#3	.0176	.3297	.0032	-.0010	.0068	-.0027	-.0005	1.217	12.28

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.64**	**5.141**	**1.975**	**81.84**	**.0537**	**.0001**	**9.822**	**-.0009**	**.0590**
Stddev	.03	.018	.023	.04	.0008	.0002	.013	.0004	.0004
%RSD	.1561	.3474	1.170	.0486	1.483	176.4	.1326	50.30	.7568
#1	16.63	5.138	1.995	81.87	.0531	-.0001	9.832	-.0013	.0593
#2	16.67	5.160	1.950	81.80	.0546	.0004	9.827	-.0004	.0585
#3	16.62	5.125	1.979	81.85	.0535	.0001	9.808	-.0009	.0593

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0390**	**.0123**	**-.0002**	**.3660**	**-.0002**	**.0108**	**.1220**
Stddev	.0014	.0009	.0001	.0032	.0013	.0007	.0012
%RSD	3.481	7.225	43.39	.8743	765.4	6.600	.9562
#1	.0396	.0133	-.0001	.3641	-.0005	.0101	.1206
#2	.0400	.0116	-.0002	.3642	-.0012	.0107	.1226
#3	.0375	.0120	-.0003	.3697	.0012	.0116	.1226

Zoom In Zoom Out

Sample Name: JC78879-2 Acquired: 12/6/2018 3:25:14 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97552.**	**19071.**	**4143.4**	**8669.1**
Stddev	989.	38.	12.6	23.9
%RSD	1.0138	.20110	.30511	.27552
#1	96619.	19030.	4134.8	8648.7
#2	97448.	19076.	4137.5	8663.2
#3	98589.	19106.	4157.9	8695.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 3:30:26 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.123**	**2.095**	**2.129**	**2.078**	**2.138**	**2.071**	**2.131**	**2.105**	**.2547**
Stddev	.004	.002	.009	.002	.006	.003	.005	.003	.0005
%RSD	.2026	.0906	.4198	.0802	.2793	.1426	.2367	.1432	.2080
#1	2.127	2.095	2.135	2.080	2.142	2.067	2.135	2.108	.2548
#2	2.125	2.094	2.133	2.078	2.141	2.071	2.133	2.105	.2541
#3	2.118	2.098	2.119	2.077	2.131	2.073	2.125	2.102	.2551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.113**	**2.134**	**2.052**	F **2.202**	**2.120**	**2.103**	**1.991**	**40.24**	**40.51**
Stddev	.003	.005	.013	.025	.004	.012	.005	.04	.08
%RSD	.1165	.2346	.6418	1.134	.1702	.5455	.2613	.0909	.1872
#1	2.115	2.139	2.054	2.197	2.122	2.102	1.993	40.27	40.54
#2	2.113	2.134	2.065	2.229	2.122	2.115	1.995	40.25	40.42
#3	2.110	2.129	2.038	2.180	2.116	2.092	1.985	40.20	40.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.14**	**39.98**	**40.65**	**40.70**	**2.084**	**2.010**	**4.977**	**2.063**	**2.132**
Stddev	.05	.13	.08	.06	.007	.007	.015	.015	.004
%RSD	.1333	.3310	.2083	.1546	.3573	.3284	.3067	.7058	.1721
#1	40.20	39.88	40.69	40.77	2.089	2.012	4.987	2.066	2.135
#2	40.09	39.93	40.71	40.69	2.087	2.016	4.985	2.075	2.133
#3	40.14	40.13	40.55	40.64	2.075	2.003	4.960	2.047	2.128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 3:30:26 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.063**	**2.009**	**1.998**	**2.037**	**2.042**	**2.035**	**2.152**
Stddev	.002	.003	.003	.022	.009	.002	.027
%RSD	.1046	.1314	.1526	1.077	.4321	.1087	1.262
#1	2.065	2.010	2.001	2.030	2.049	2.036	2.149
#2	2.063	2.011	1.999	2.062	2.046	2.037	2.180
#3	2.060	2.006	1.995	2.020	2.032	2.033	2.126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96742.**	**18784.**	**4087.3**	**8392.5**
Stddev	264.	5.	8.9	4.9
%RSD	.27249	.02892	.21747	.05878
#1	96477.	18789.	4081.1	8389.1
#2	96745.	18783.	4083.4	8390.3
#3	97004.	18778.	4097.5	8398.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 3:35:17 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	F **.0002**	**.0002**	**.0002**	**.0004**	**.0004**	**.0002**	**.0001**	**-.0002**
Stddev	.0000	.0001	.0001	.0001	.0003	.0004	.0001	.0003	.0003
%RSD	14.44	36.74	72.98	66.18	80.19	125.1	39.35	189.4	108.5
#1	-.0000	.0001	.0001	.0002	.0006	-.0000	.0001	.0001	-.0002
#2	-.0000	.0001	.0001	.0002	.0000	.0003	.0003	-.0001	-.0005
#3	-.0000	.0002	.0004	.0000	.0004	.0008	.0002	.0004	.0000
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0003**	**.0011**	**.0007**	**.0007**	**-.0010**	**-.0002**	**.0055**	**.0033**
Stddev	.0000	.0001	.0011	.0007	.0003	.0003	.0003	.0015	.0025
%RSD	9.887	41.84	102.9	102.0	44.17	34.56	154.5	27.77	75.88
#1	.0003	.0004	.0020	.0015	.0004	-.0006	-.0005	.0059	.0051
#2	.0004	.0003	.0013	.0004	.0010	-.0011	.0000	.0038	.0005
#3	.0004	.0001	-.0001	.0002	.0008	-.0013	-.0001	.0069	.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	**-.0092**	**-.0043**	**.0307**	**-.0001**	**.0005**	**.0017**	**.0009**	**.0002**
Stddev	.0009	.0220	.0257	.0023	.0004	.0000	.0001	.0002	.0001
%RSD	13.42	238.2	599.6	7.504	384.0	4.947	5.681	20.26	82.21
#1	.0070	-.0234	.0254	.0307	.0002	.0005	.0016	.0011	.0001
#2	.0054	-.0204	-.0182	.0285	.0000	.0006	.0016	.0009	.0001
#3	.0069	.0161	-.0201	.0331	-.0006	.0005	.0018	.0007	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 3:35:17 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0016**	**.0002**	**.0011**	**.0003**	**.0002**	**-.0005**
Stddev	.0008	.0004	.0000	.0013	.0008	.0008	.0002
%RSD	74.77	25.63	27.06	119.8	258.5	479.7	39.49
#1	.0005	.0020	.0001	-.0003	.0010	.0004	-.0006
#2	.0021	.0016	.0002	.0014	-.0006	.0008	-.0007
#3	.0008	.0012	.0002	.0023	.0005	-.0007	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101320.**	**18774.**	**4215.7**	**9359.4**
Stddev	360.	37.	4.3	10.4
%RSD	.35482	.19652	.10145	.11120
#1	101270.	18817.	4212.2	9350.0
#2	100990.	18759.	4214.4	9357.7
#3	101700.	18748.	4220.5	9370.6

Zoom In Zoom Out

Sample Name: JC78879-3 Acquired: 12/6/2018 3:40:35 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0512**	**.0003**	**.0005**	**.0832**	**.0023**	**.0015**	**3.608**	**.0884**
Stddev	.0003	.0000	.0001	.0003	.0005	.0003	.004	.0005
%RSD	.5945	11.33	24.67	.3733	21.29	16.23	.1044	.5576
#1	.0512	.0003	.0004	.0830	.0019	.0018	3.611	.0878
#2	.0514	.0003	.0007	.0831	.0029	.0014	3.604	.0888
#3	.0508	.0004	.0005	.0836	.0022	.0015	3.609	.0886

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0046**	**.1423**	**.0074**	**.0008**	**.0027**	**.0031**	**-.0003**
Stddev	.0002	.0002	.0004	.0010	.0006	.0008	.0006	.0006
%RSD	12.12	3.971	.2989	13.89	79.35	28.78	19.13	170.3
#1	.0015	.0044	.1419	.0086	.0003	.0033	.0026	-.0004
#2	.0019	.0048	.1422	.0069	.0015	.0029	.0038	-.0009
#3	.0017	.0047	.1427	.0067	.0006	.0018	.0031	.0003

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1028**	**30.28**	**100.8**	**18.33**	**1.972**	**92.84**	**.0218**	**.0002**
Stddev	.0087	.07	.2	.07	.032	.25	.0003	.0001
%RSD	8.422	.2446	.2444	.4037	1.621	.2680	1.315	43.42
#1	.1018	30.32	101.0	18.36	2.008	92.98	.0221	.0001
#2	.1119	30.32	100.8	18.39	1.947	92.98	.0217	.0002
#3	.0947	30.19	100.5	18.25	1.960	92.55	.0215	.0002

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.135**	**-.0007**	**.1521**	**.0023**	**.0120**	W **-.0013**	**1.308**	**.0072**
Stddev	.042	.0009	.0004	.0003	.0002	.0001	.026	.0012
%RSD	.4632	125.3	.2603	12.94	2.010	8.858	1.996	17.11
#1	9.086	-.0016	.1525	.0026	.0117	-.0012	1.278	.0065
#2	9.165	-.0008	.1523	.0020	.0121	-.0014	1.323	.0066
#3	9.153	.0002	.1517	.0024	.0121	-.0012	1.322	.0087

Zoom In Zoom Out

Sample Name: JC78879-3 Acquired: 12/6/2018 3:40:35 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0030**	**.0392**
Stddev	.0009	.0005
%RSD	28.84	1.285
#1	.0029	.0390
#2	.0022	.0397
#3	.0039	.0388

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98198.**	**19050.**	**4079.8**	**8593.2**
Stddev	320.	162.	13.2	27.6
%RSD	.32560	.84966	.32395	.32075
#1	97887.	18929.	4095.0	8624.5
#2	98526.	18986.	4071.1	8572.6
#3	98180.	19234.	4073.3	8582.5

Zoom In Zoom Out

Sample Name: JC78879-4 Acquired: 12/6/2018 3:45:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0786**	**.0003**	**-.0005**	**.0675**	**.0049**	**.0019**	**2.736**	**.0603**
Stddev	.0002	.0000	.0002	.0004	.0002	.0004	.007	.0006
%RSD	.2359	6.272	34.12	.6367	4.380	19.65	.2704	.9146
#1	.0786	.0003	-.0006	.0679	.0050	.0017	2.730	.0608
#2	.0784	.0004	-.0006	.0676	.0051	.0023	2.734	.0597
#3	.0788	.0004	-.0003	.0671	.0047	.0016	2.744	.0603

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**.0067**	**.0896**	**.0128**	**.0012**	**.0005**	**.0036**	**-.0002**
Stddev	.0005	.0003	.0001	.0011	.0006	.0011	.0012	.0003
%RSD	28.25	3.848	.1612	9.001	46.48	216.8	33.92	147.2
#1	.0023	.0064	.0898	.0138	.0016	.0016	.0022	.0001
#2	.0015	.0069	.0895	.0130	.0006	.0005	.0046	-.0006
#3	.0014	.0067	.0896	.0115	.0014	-.0006	.0039	-.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3149**	**17.76**	**106.5**	**13.76**	**3.677**	**58.25**	**.0419**	**.0003**
Stddev	.0049	.06	.5	.07	.011	.13	.0006	.0002
%RSD	1.543	.3645	.4550	.5009	.3058	.2271	1.532	51.80
#1	.3203	17.84	107.0	13.82	3.665	58.40	.0426	.0001
#2	.3107	17.73	106.2	13.68	3.676	58.14	.0418	.0004
#3	.3139	17.72	106.2	13.77	3.688	58.21	.0413	.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.532**	**-.0008**	**.1068**	**.0090**	**.0124**	W **-.0015**	**1.608**	**.0061**
Stddev	.022	.0002	.0003	.0003	.0001	.0001	.003	.0005
%RSD	.2304	22.77	.2892	3.683	.9526	4.752	.2070	7.446
#1	9.552	-.0010	.1070	.0093	.0126	-.0014	1.612	.0066
#2	9.535	-.0006	.1064	.0089	.0124	-.0016	1.606	.0059
#3	9.509	-.0008	.1069	.0087	.0123	-.0015	1.606	.0058

Zoom In Zoom Out

Sample Name: JC78879-4 Acquired: 12/6/2018 3:45:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0028**	**.0573**
Stddev	.0002	.0012
%RSD	7.828	2.014
#1	.0030	.0565
#2	.0026	.0587
#3	.0027	.0568

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98442.**	**18955.**	**4096.7**	**8713.6**
Stddev	186.	95.	11.3	22.8
%RSD	.18876	.50374	.27516	.26147
#1	98657.	18855.	4089.7	8709.6
#2	98340.	19045.	4090.8	8693.1
#3	98330.	18964.	4109.7	8738.1

Zoom In Zoom Out

Sample Name: JC78883-11 Acquired: 12/6/2018 3:50:50 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0000**	**-.0001**	**.0003**	**.0003**	**.0002**	**.0001**	**.0004**	**-.0001**
Stddev	.0001	.0001	.0001	.0003	.0000	.0001	.0000	.0002	.0004
%RSD	533.5	1447.	123.0	116.4	13.20	72.76	36.66	56.66	653.3
#1	-.0001	.0001	.0000	.0002	.0003	.0003	.0002	.0004	.0004
#2	.0001	.0000	-.0001	.0006	.0003	.0002	.0001	.0006	-.0004
#3	-.0001	-.0001	-.0001	.0000	.0004	.0001	.0001	.0002	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0006**	**.0003**	**-.0009**	**-.0001**	**-.0006**	**.0001**	**.0078**	**.0123**
Stddev	.0003	.0001	.0004	.0008	.0002	.0009	.0014	.0068	.0017
%RSD	113.4	11.82	104.7	88.58	282.7	153.3	2154.	86.52	13.64
#1	-.0001	.0006	.0001	-.0017	-.0003	.0003	.0009	.0002	.0105
#2	.0005	.0007	.0002	-.0008	-.0000	-.0006	-.0015	.0103	.0126
#3	.0004	.0007	.0007	-.0001	.0001	-.0014	.0008	.0131	.0139

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066**	**-.0051**	**-.0261**	**.0170**	**-.0013**	**.0001**	**.0140**	**.0002**	**.0000**
Stddev	.0012	.0109	.0157	.0095	.0001	.0001	.0008	.0003	.0000
%RSD	18.12	213.5	59.90	56.30	7.379	77.71	5.910	155.8	111.2
#1	.0058	-.0165	-.0282	.0213	-.0014	.0002	.0136	.0003	.0001
#2	.0061	.0052	-.0407	.0236	-.0014	.0000	.0134	-.0001	-.0000
#3	.0080	-.0040	-.0096	.0060	-.0012	.0002	.0149	.0004	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0008**	**.0001**	**.0047**	**.0004**	**-.0006**	**.0003**
Stddev	.0006	.0006	.0001	.0008	.0010	.0004	.0009
%RSD	36.11	78.74	95.45	17.79	279.8	66.91	273.9
#1	.0009	.0005	.0002	.0045	-.0008	-.0010	-.0003
#2	.0020	.0004	.0002	.0057	.0012	-.0007	.0013
#3	.0019	.0014	-.0000	.0041	.0007	-.0002	-.0001

Zoom In Zoom Out

Sample Name: JC78883-11 Acquired: 12/6/2018 3:50:50 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103290.**	**19321.**	**4254.8**	**9430.2**
Stddev	127.	80.	12.1	23.1
%RSD	.12303	.41309	.28397	.24492
#1	103200.	19387.	4265.0	9444.3
#2	103230.	19345.	4241.5	9403.6
#3	103440.	19233.	4258.0	9442.9

Zoom In Zoom Out

Sample Name: JC78883-12 Acquired: 12/6/2018 3:56:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0001**	**.0001**	**.0004**	**.0004**	**.0009**	**.0024**	**.0037**	**.0000**
Stddev	.0002	.0001	.0000	.0002	.0002	.0001	.0000	.0002	.0001
%RSD	35.02	99.35	28.56	49.06	57.31	11.72	1.934	4.110	882.0
#1	.0008	-.0000	.0001	.0007	.0005	.0010	.0025	.0035	-.0001
#2	.0006	.0001	.0001	.0004	.0006	.0008	.0024	.0039	.0001
#3	.0004	.0001	.0001	.0003	.0001	.0008	.0024	.0037	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0014**	**.0000**	**.0001**	**.0005**	**-.0013**	**-.0002**	**-.0021**	**.3480**
Stddev	.0004	.0000	.0010	.0006	.0004	.0010	.0008	.0040	.0030
%RSD	90.27	1.439	6906.	568.2	97.29	81.54	347.2	190.1	.8735
#1	-.0000	.0014	-.0008	.0007	.0008	-.0017	.0006	-.0066	.3500
#2	.0007	.0014	.0012	-.0006	-.0001	-.0020	-.0003	.0011	.3445
#3	.0007	.0014	-.0003	.0003	.0007	-.0001	-.0010	-.0008	.3494

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063**	**.0481**	**.0044**	**.2062**	**.0009**	**.0002**	**.4063**	**-.0000**	**.0068**
Stddev	.0012	.0125	.0215	.0065	.0003	.0001	.0005	.0004	.0001
%RSD	19.53	25.94	489.3	3.156	32.50	52.12	.1343	1092.	1.103
#1	.0059	.0592	.0105	.2035	.0012	.0002	.4061	.0003	.0067
#2	.0077	.0346	-.0195	.2137	.0006	.0003	.4070	.0000	.0067
#3	.0053	.0506	.0222	.2016	.0008	.0001	.4059	-.0005	.0069

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0010**	**-.0000**	**.0078**	**-.0007**	**-.0006**	**.0004**
Stddev	.0004	.0004	.0001	.0004	.0013	.0019	.0003
%RSD	47.86	43.57	1772.	4.667	188.7	317.6	78.12
#1	.0004	.0015	-.0000	.0078	-.0018	-.0028	.0006
#2	.0008	.0009	.0001	.0075	-.0010	.0002	.0000
#3	.0011	.0006	-.0001	.0082	.0007	.0008	.0005

Zoom In Zoom Out

Sample Name: JC78883-12 Acquired: 12/6/2018 3:56:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102760.**	**19194.**	**4246.3**	**9417.8**
Stddev	252.	47.	3.0	5.0
%RSD	.24564	.24489	.07034	.05317
#1	102520.	19148.	4244.1	9414.8
#2	102740.	19191.	4249.7	9423.6
#3	103020.	19242.	4245.2	9415.1

Zoom In Zoom Out

Sample Name: JC78883-13 Acquired: 12/6/2018 4:01:25 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0000**	**-.0001**	**.0005**	**.0006**	**.0009**	**.0023**	**.0037**	**.0001**
Stddev	.0001	.0000	.0001	.0002	.0003	.0003	.0000	.0002	.0002
%RSD	13.72	140.6	193.7	35.31	51.48	31.96	2.143	5.140	226.3
#1	.0007	.0000	-.0000	.0007	.0005	.0010	.0023	.0035	-.0001
#2	.0006	-.0000	.0001	.0004	.0004	.0006	.0023	.0039	.0002
#3	.0006	.0000	-.0002	.0004	.0010	.0011	.0024	.0037	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0013**	**-.0001**	**.0000**	**.0001**	**.0005**	**.0001**	**.0070**	**.3295**
Stddev	.0004	.0001	.0004	.0011	.0002	.0014	.0002	.0049	.0039
%RSD	896.1	5.971	318.3	3702.	385.8	300.7	262.1	70.22	1.194
#1	.0004	.0012	.0003	.0005	-.0002	-.0007	-.0000	.0098	.3283
#2	-.0004	.0012	-.0003	.0008	.0003	.0000	.0003	.0013	.3339
#3	.0001	.0014	-.0004	-.0012	.0001	.0020	-.0001	.0100	.3264

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0535**	**.0183**	**.2871**	**.0011**	**.0001**	**.3275**	**-.0001**	**.0061**
Stddev	.0032	.0108	.0125	.0047	.0004	.0000	.0013	.0005	.0000
%RSD	76.33	20.12	68.17	1.653	39.60	59.83	.3903	741.4	.3364
#1	.0037	.0412	.0226	.2827	.0006	.0001	.3289	-.0002	.0061
#2	.0013	.0613	.0281	.2921	.0014	.0001	.3272	.0005	.0061
#3	.0077	.0580	.0042	.2866	.0013	.0000	.3263	-.0005	.0061

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0013**	**.0000**	**.0034**	**-.0009**	**-.0004**	**.0005**
Stddev	.0006	.0003	.0002	.0005	.0012	.0010	.0006
%RSD	117.3	23.45	448.0	14.84	137.1	268.1	114.0
#1	.0008	.0012	.0002	.0029	-.0022	.0001	.0006
#2	.0010	.0016	.0000	.0039	-.0008	-.0015	.0011
#3	-.0002	.0010	-.0001	.0035	.0003	.0002	-.0001

Zoom In Zoom Out

Sample Name: JC78883-13 Acquired: 12/6/2018 4:01:25 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102840.**	**18932.**	**4233.4**	**9390.9**
Stddev	263.	230.	6.5	12.4
%RSD	.25554	1.2126	.15245	.13218
#1	102590.	19074.	4239.2	9405.1
#2	102820.	18667.	4226.5	9382.8
#3	103120.	19055.	4234.6	9384.6

Zoom In Zoom Out

Sample Name: JC78883-14 Acquired: 12/6/2018 4:06:40 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0000**	**.0001**	**.0000**	**.0004**	**.0008**	**.0002**	**.0003**	**-.0002**
Stddev	.0002	.0001	.0002	.0001	.0004	.0006	.0000	.0001	.0003
%RSD	161.3	337.3	115.7	612.8	84.75	81.68	6.542	30.97	101.2
#1	.0001	.0001	-.0000	.0001	.0007	.0009	.0002	.0002	.0000
#2	-.0002	-.0000	.0003	-.0001	.0005	.0001	.0002	.0003	-.0003
#3	-.0001	-.0000	.0002	.0000	.0000	.0013	.0002	.0004	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0003**	**.0002**	**-.0007**	**.0009**	**.0006**	**-.0005**	**.0044**	**.0099**
Stddev	.0003	.0001	.0007	.0003	.0006	.0003	.0011	.0083	.0031
%RSD	254.5	25.03	270.3	41.09	72.71	46.09	210.2	188.1	31.69
#1	-.0002	.0002	.0010	-.0005	.0002	.0007	-.0005	.0044	.0064
#2	.0002	.0003	-.0001	-.0010	.0010	.0008	.0006	-.0039	.0124
#3	.0004	.0003	-.0001	-.0005	.0014	.0003	-.0016	.0127	.0109

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104**	**.0033**	**-.0015**	**.0028**	**-.0008**	**-.0001**	**.0078**	**-.0001**	**.0001**
Stddev	.0020	.0126	.0115	.0029	.0006	.0002	.0013	.0001	.0000
%RSD	19.07	379.1	762.1	103.4	82.62	261.6	17.38	112.1	42.86
#1	.0109	.0161	-.0126	.0043	-.0000	-.0003	.0093	.0000	.0001
#2	.0121	-.0091	.0103	-.0005	-.0012	-.0001	.0068	-.0001	.0001
#3	.0082	.0030	-.0023	.0045	-.0011	.0001	.0072	-.0002	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0013**	**.0000**	**.0027**	**-.0005**	**-.0009**	**.0005**
Stddev	.0002	.0004	.0001	.0010	.0006	.0021	.0002
%RSD	20.60	33.39	261.3	36.40	123.3	228.2	46.30
#1	.0010	.0017	.0001	.0034	-.0008	-.0002	.0006
#2	.0007	.0009	.0001	.0016	.0002	-.0034	.0007
#3	.0010	.0013	-.0001	.0030	-.0009	.0007	.0002

Zoom In Zoom Out

Sample Name: JC78883-14 Acquired: 12/6/2018 4:06:40 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102450.**	**19020.**	**4230.5**	**9379.3**
Stddev	396.	29.	12.7	31.3
%RSD	.38640	.15158	.29931	.33358
#1	102010.	18995.	4217.4	9343.5
#2	102590.	19052.	4231.4	9392.8
#3	102760.	19013.	4242.7	9401.5

Zoom In Zoom Out

Sample Name: JC78883-16 Acquired: 12/6/2018 4:11:57 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**-.0000**	**.0001**	**.0006**	**.0005**	**.0016**	**.0024**	**.0039**	**-.0001**
Stddev	.0002	.0000	.0001	.0002	.0002	.0005	.0000	.0002	.0004
%RSD	19.42	263.5	100.6	30.14	33.86	31.04	1.169	5.027	785.8
#1	.0008	-.0000	.0002	.0005	.0006	.0014	.0024	.0040	.0002
#2	.0011	.0000	.0002	.0008	.0003	.0012	.0024	.0040	-.0006
#3	.0011	-.0000	-.0000	.0005	.0006	.0021	.0023	.0037	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0027**	**-.0002**	**.0000**	**.0000**	**-.0019**	**-.0001**	**.0011**	**.3516**
Stddev	.0002	.0000	.0005	.0011	.0009	.0011	.0006	.0020	.0009
%RSD	69.56	.4387	231.6	10720.	3818.	60.83	498.1	187.8	.2429
#1	.0004	.0027	-.0006	.0010	-.0007	-.0022	.0002	-.0013	.3508
#2	.0001	.0027	.0004	.0002	.0010	-.0006	-.0008	.0021	.3525
#3	.0003	.0026	-.0005	-.0012	-.0002	-.0028	.0002	.0025	.3516

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044**	**.0518**	**-.0122**	**.3993**	**.0016**	**.0000**	**.1477**	**.0002**	**.0060**
Stddev	.0017	.0163	.0052	.0022	.0007	.0001	.0014	.0001	.0001
%RSD	39.27	31.41	42.52	.5560	40.93	643.2	.9358	68.62	.8329
#1	.0046	.0624	-.0097	.3995	.0017	-.0000	.1493	.0001	.0060
#2	.0060	.0599	-.0182	.4015	.0021	-.0001	.1474	.0003	.0061
#3	.0026	.0331	-.0088	.3971	.0009	.0002	.1466	.0001	.0060

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0008**	**-.0001**	**.0048**	**.0002**	**-.0015**	**.0001**
Stddev	.0006	.0005	.0001	.0014	.0005	.0003	.0007
%RSD	61.95	60.77	104.5	29.09	205.7	17.97	986.7
#1	.0004	.0009	-.0002	.0032	-.0003	-.0016	.0009
#2	.0007	.0013	-.0001	.0055	.0003	-.0012	-.0004
#3	.0015	.0003	.0000	.0056	.0007	-.0016	-.0002

Zoom In Zoom Out

Sample Name: JC78883-16 Acquired: 12/6/2018 4:11:57 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102480.**	**18931.**	**4216.3**	**9349.9**
Stddev	221.	19.	6.8	6.4
%RSD	.21560	.09810	.16184	.06811
#1	102520.	18932.	4209.0	9346.1
#2	102690.	18912.	4222.4	9357.2
#3	102250.	18949.	4217.7	9346.3

Zoom In Zoom Out

Sample Name: JC78883-18 Acquired: 12/6/2018 4:17:13 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0000**	**.0001**	**.0004**	**.0004**	**.0017**	**.0017**	**.0031**	**.0001**
Stddev	.0002	.0001	.0001	.0003	.0004	.0001	.0000	.0002	.0002
%RSD	40.27	335.4	123.0	61.07	115.9	5.099	1.495	6.601	324.0
#1	.0007	-.0001	-.0000	.0003	.0008	.0017	.0017	.0028	.0003
#2	.0008	.0000	.0001	.0007	.0005	.0017	.0017	.0031	-.0002
#3	.0003	.0001	.0002	.0002	-.0001	.0016	.0018	.0032	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0016**	**.0000**	**-.0002**	**-.0006**	**-.0010**	**.0004**	**-.0009**	**.2672**
Stddev	.0003	.0001	.0009	.0005	.0006	.0006	.0008	.0065	.0003
%RSD	317.0	5.900	2318.	246.1	105.0	66.96	176.0	687.4	.1083
#1	.0002	.0017	-.0009	.0001	-.0006	-.0016	.0004	.0064	.2670
#2	-.0002	.0015	.0000	.0000	-.0011	-.0010	-.0003	-.0060	.2675
#3	.0003	.0016	.0010	-.0007	.0001	-.0003	.0012	-.0032	.2670

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	**.0283**	**-.0145**	**.3235**	**.0018**	**.0001**	**.0726**	**.0003**	**.0043**
Stddev	.0013	.0062	.0045	.0036	.0000	.0003	.0004	.0004	.0000
%RSD	20.82	21.80	30.85	1.111	2.682	323.0	.5108	122.9	.3346
#1	.0065	.0274	-.0196	.3241	.0018	.0004	.0722	.0002	.0043
#2	.0077	.0348	-.0118	.3197	.0018	-.0001	.0729	.0007	.0043
#3	.0050	.0226	-.0121	.3268	.0017	-.0000	.0726	-.0000	.0043

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0004**	**.0000**	**.0105**	**-.0011**	**-.0015**	**.0010**
Stddev	.0004	.0003	.0002	.0021	.0006	.0009	.0008
%RSD	41.12	82.15	1301.	20.09	52.49	56.28	76.61
#1	.0007	.0003	-.0001	.0127	-.0015	-.0010	.0016
#2	.0013	.0001	.0003	.0086	-.0004	-.0025	.0001
#3	.0007	.0007	-.0001	.0102	-.0013	-.0011	.0014

Zoom In Zoom Out

Sample Name: JC78883-18 Acquired: 12/6/2018 4:17:13 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101810.**	**18920.**	**4208.1**	**9336.4**
Stddev	98.	25.	7.5	14.8
%RSD	.09592	.13011	.17766	.15810
#1	101890.	18926.	4200.6	9331.3
#2	101830.	18894.	4215.6	9353.0
#3	101700.	18942.	4208.0	9324.8

Zoom In Zoom Out

Sample Name: JC78883-1A Acquired: 12/6/2018 4:22:30 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4382**	**-.0000**	**-.0001**	**.0007**	**.0030**	**.0063**	**.1440**	**.0271**	**.0045**
Stddev	.0009	.0000	.0001	.0003	.0002	.0002	.0001	.0002	.0002
%RSD	.2078	78.82	123.8	50.21	7.554	3.911	.0493	.8183	4.300
#1	.4372	-.0000	-.0002	.0011	.0028	.0066	.1440	.0273	.0046
#2	.4388	-.0001	.0000	.0004	.0030	.0063	.1441	.0269	.0045
#3	.4387	-.0000	-.0002	.0006	.0032	.0061	.1441	.0271	.0043

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0123**	**.0024**	**-.0011**	**.0156**	**-.0020**	**-.0015**	**.2155**	**143.8**
Stddev	.0003	.0001	.0014	.0015	.0015	.0013	.0003	.0045	.5
%RSD	7.296	1.084	58.01	141.6	9.767	62.56	19.41	2.108	.3643
#1	.0045	.0123	.0025	-.0023	.0142	-.0034	-.0014	.2110	143.2
#2	.0039	.0124	.0038	-.0014	.0152	-.0008	-.0018	.2201	144.2
#3	.0042	.0121	.0010	.0006	.0172	-.0019	-.0012	.2152	144.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.748**	**124.7**	**51.73**	F **1065.**	**.8103**	**.0607**	**13.92**	**.0176**	**3.022**
Stddev	.074	.5	.26	11.	.0018	.0002	.04	.0003	.002
%RSD	.9525	.4195	.4992	1.005	.2278	.2706	.3039	1.948	.0640
#1	7.751	124.1	51.43	1053.	.8115	.0606	13.97	.0173	3.021
#2	7.820	124.9	51.85	1070.	.8082	.0606	13.89	.0177	3.021
#3	7.672	125.0	51.90	1072.	.8112	.0609	13.90	.0179	3.024

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036**	**.0188**	**-.0004**	**34.97**	**.0006**	**.0216**	**.4095**
Stddev	.0007	.0007	.0001	.19	.0006	.0046	.0023
%RSD	19.90	3.509	20.93	.5489	109.5	21.20	.5637
#1	.0044	.0190	-.0004	35.18	.0010	.0171	.4121
#2	.0031	.0194	-.0003	34.91	.0009	.0213	.4085
#3	.0033	.0181	-.0005	34.82	-.0001	.0263	.4077

Zoom In Zoom Out

Sample Name: JC78883-1A Acquired: 12/6/2018 4:22:30 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**85378.**	**17868.**	**3622.5**	**7073.5**
Stddev	260.	59.	6.3	6.3
%RSD	.30444	.33049	.17270	.08850
#1	85525.	17929.	3619.6	7075.5
#2	85077.	17864.	3629.7	7078.6
#3	85530.	17811.	3618.2	7066.5

Zoom In Zoom Out

Sample Name: JC78883-3A Acquired: 12/6/2018 4:27:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1790**	**-.0001**	**.0002**	**.0001**	**.0015**	**.0031**	**.1548**	**.0035**
Stddev	.0005	.0001	.0002	.0002	.0001	.0004	.0007	.0007
%RSD	.2590	95.88	142.8	168.7	5.343	11.99	.4376	18.93
#1	.1792	-.0001	-.0001	-.0000	.0015	.0033	.1555	.0037
#2	.1794	-.0001	.0003	.0001	.0015	.0026	.1545	.0039
#3	.1785	.0000	.0003	.0004	.0016	.0032	.1542	.0027

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0035**	**-.0008**	**.0011**	F **-.0034**	**-.0019**	**-.0014**	**-.0010**
Stddev	.0004	.0003	.0001	.0010	.0008	.0009	.0019	.0008
%RSD	7.361	7.806	8.485	90.27	23.68	45.85	135.1	80.52
#1	.0049	.0036	-.0009	.0004	-.0029	-.0012	-.0032	-.0014
#2	.0051	.0032	-.0008	.0006	-.0043	-.0016	.0006	-.0001
#3	.0044	.0036	-.0007	.0022	-.0030	-.0029	-.0017	-.0015

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0266**	F **212.5**	**.1000**	**166.8**	**52.84**	F **989.5**	**1.689**	**.0235**
Stddev	.0056	.5	.0020	.8	.06	12.7	.002	.0002
%RSD	20.96	.2316	1.982	.4535	.1074	1.287	.0859	.9722
#1	-.0277	212.0	.1000	166.1	52.78	993.8	1.691	.0238
#2	-.0316	212.6	.0980	166.9	52.87	975.2	1.688	.0233
#3	-.0206	212.9	.1020	167.6	52.88	999.6	1.689	.0235

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.41**	**.0293**	**2.625**	**-.0012**	**.0280**	W **-.0016**	F **277.1**	**-.0017**
Stddev	.04	.0002	.006	.0004	.0014	.0002	3.7	.0013
%RSD	.1782	.7483	.2210	33.19	5.175	12.41	1.344	79.56
#1	24.46	.0294	2.627	-.0016	.0286	-.0015	281.2	-.0023
#2	24.39	.0291	2.630	-.0013	.0290	-.0014	274.0	-.0026
#3	24.38	.0295	2.618	-.0008	.0263	-.0018	276.0	-.0001

Zoom In Zoom Out

Sample Name: JC78883-3A Acquired: 12/6/2018 4:27:47 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0234**	**.2874**
Stddev	.0023	.0044
%RSD	9.731	1.537
#1	.0208	.2919
#2	.0244	.2831
#3	.0250	.2873

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**85037.**	**17766.**	**3558.2**	**7015.4**
Stddev	505.	28.	1.1	5.0
%RSD	.59351	.15631	.02987	.07140
#1	84456.	17792.	3558.7	7013.0
#2	85363.	17769.	3557.0	7012.0
#3	85293.	17737.	3558.9	7021.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 4:33:07 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.138**	**2.125**	**2.155**	**2.104**	**2.145**	**2.096**	**2.151**	**2.134**	**.2573**
Stddev	.002	.005	.002	.002	.004	.009	.005	.003	.0011
%RSD	.1043	.2505	.0768	.1115	.2029	.4185	.2300	.1498	.4263
#1	2.140	2.129	2.153	2.105	2.149	2.105	2.152	2.134	.2583
#2	2.138	2.119	2.156	2.106	2.146	2.097	2.155	2.138	.2573
#3	2.136	2.128	2.156	2.102	2.140	2.087	2.145	2.131	.2561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.123**	**2.159**	**2.068**	F **2.224**	**2.148**	**2.130**	**2.018**	**40.63**	**40.84**
Stddev	.004	.003	.009	.010	.004	.005	.004	.05	.04
%RSD	.1811	.1527	.4299	.4318	.1797	.2381	.2095	.1163	.0969
#1	2.124	2.159	2.061	2.223	2.148	2.124	2.014	40.68	40.89
#2	2.127	2.162	2.066	2.215	2.152	2.130	2.022	40.59	40.82
#3	2.119	2.156	2.078	2.234	2.144	2.135	2.018	40.62	40.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.68**	**40.58**	**40.97**	**41.06**	**2.111**	**2.035**	**5.034**	**2.083**	**2.138**
Stddev	.10	.08	.07	.05	.004	.002	.002	.002	.000
%RSD	.2557	.1940	.1647	.1249	.1884	.0930	.0391	.0816	.0151
#1	40.76	40.67	41.04	41.12	2.108	2.033	5.032	2.082	2.138
#2	40.56	40.54	40.96	41.03	2.111	2.037	5.033	2.085	2.138
#3	40.71	40.53	40.91	41.02	2.115	2.035	5.036	2.082	2.138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 4:33:07 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.060**	**2.028**	**2.013**	**2.085**	**2.065**	**2.060**	**2.173**
Stddev	.003	.007	.003	.014	.004	.003	.013
%RSD	.1650	.3241	.1452	.6584	.1694	.1605	.5838
#1	2.063	2.021	2.014	2.084	2.063	2.064	2.168
#2	2.062	2.028	2.015	2.071	2.069	2.059	2.164
#3	2.056	2.034	2.010	2.099	2.063	2.057	2.188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96615.**	**18546.**	**4044.1**	**8298.3**
Stddev	38.	41.	4.4	10.3
%RSD	.03983	.22039	.10976	.12365
#1	96623.	18524.	4042.3	8288.8
#2	96649.	18520.	4049.1	8309.1
#3	96573.	18593.	4040.8	8296.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 4:37:58 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	F **.0002**	**.0002**	**.0002**	**.0003**	**.0002**	**.0003**	**.0004**	**-.0000**
Stddev	.0001	.0000	.0001	.0003	.0003	.0001	.0000	.0001	.0001
%RSD	283.5	18.18	65.79	112.1	85.54	31.16	15.47	21.20	880.6
#1	-.0002	.0002	.0002	.0005	.0000	.0002	.0002	.0005	.0001
#2	-.0001	.0001	.0004	.0003	.0005	.0003	.0003	.0004	-.0001
#3	.0001	.0002	.0001	-.0001	.0003	.0003	.0003	.0003	-.0000
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0003**	**.0010**	**-.0000**	**.0008**	**-.0008**	**-.0000**	**-.0008**	**.0041**
Stddev	.0002	.0002	.0007	.0005	.0006	.0005	.0007	.0075	.0010
%RSD	61.76	60.56	75.67	1511.	81.78	56.49	1556.	884.7	24.03
#1	.0001	.0004	.0010	.0005	.0015	-.0009	.0005	-.0022	.0044
#2	.0005	.0005	.0017	-.0002	.0003	-.0012	-.0008	.0072	.0030
#3	.0004	.0001	.0002	-.0004	.0005	-.0003	.0001	-.0076	.0048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	**.0086**	**.0565**	**.1358**	**-.0000**	**.0006**	**.0025**	**.0003**	**.0001**
Stddev	.0034	.0077	.0275	.0092	.0006	.0001	.0004	.0005	.0001
%RSD	52.45	88.61	48.59	6.781	4714.	20.51	14.82	143.2	81.31
#1	.0051	-.0002	.0864	.1459	.0001	.0006	.0025	.0007	.0001
#2	.0102	.0124	.0509	.1278	-.0007	.0008	.0028	-.0002	.0000
#3	.0039	.0137	.0323	.1338	.0006	.0005	.0021	.0005	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 4:37:58 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0011**	**.0004**	**.0078**	**-.0004**	**.0005**	**-.0007**
Stddev	.0009	.0006	.0001	.0032	.0007	.0004	.0003
%RSD	78.76	59.52	27.88	40.46	173.4	91.45	50.95
#1	.0002	.0018	.0003	.0106	.0003	.0001	-.0010
#2	.0021	.0006	.0005	.0085	-.0005	.0004	-.0007
#3	.0011	.0008	.0003	.0044	-.0011	.0009	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101280.**	**18786.**	**4186.5**	**9282.4**
Stddev	303.	44.	10.8	17.4
%RSD	.29952	.23357	.25902	.18711
#1	101270.	18813.	4197.7	9297.3
#2	100980.	18736.	4185.7	9286.4
#3	101580.	18810.	4176.1	9263.3

Zoom In Zoom Out

Sample Name: zrconf Acquired: 12/6/2018 4:43:16 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054**	**.0001**	**.0003**	**-.0000**	**-.0007**	**.0046**	**.0005**	**.0003**
Stddev	.0003	.0001	.0002	.0001	.0003	.0003	.0000	.0001
%RSD	5.896	107.9	67.88	1041.	40.54	5.748	8.056	21.32
#1	.0055	.0000	.0003	-.0000	-.0004	.0044	.0005	.0002
#2	.0056	.0000	.0005	-.0001	-.0008	.0046	.0005	.0004
#3	.0050	.0001	.0001	.0001	-.0010	.0049	.0005	.0003

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0013**	**.0030**	**-.0019**	F **-.0022**	**-.0000**	**.0019**	**-.0025**
Stddev	.0009	.0002	.0001	.0007	.0004	.0009	.0009	.0006
%RSD	153.8	17.10	1.698	37.83	18.93	2422.	47.50	26.03
#1	-.0003	.0013	.0030	-.0013	-.0024	-.0010	.0028	-.0024
#2	.0001	.0011	.0030	-.0027	-.0018	.0001	.0019	-.0031
#3	-.0016	.0016	.0031	-.0017	-.0025	.0008	.0010	-.0018

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2631**	**.0264**	**.0055**	**.0093**	**.0105**	**.0762**	**.0002**	**.0003**
Stddev	.0047	.0017	.0017	.0199	.0371	.0057	.0003	.0002
%RSD	1.771	6.375	29.99	213.8	354.5	7.468	181.0	64.53
#1	.2666	.0247	.0049	.0303	.0359	.0705	-.0001	.0005
#2	.2648	.0281	.0043	-.0093	.0275	.0819	.0005	.0003
#3	.2578	.0265	.0074	.0069	-.0321	.0763	.0002	.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0065**	**.0083**	**.0295**	**.0013**	**.0043**	F **10.01**	**.0017**	**-.0040**
Stddev	.0003	.0000	.0002	.0007	.0016	.16	.0021	.0007
%RSD	5.413	.3916	.5437	54.46	37.22	1.566	128.0	16.55
#1	.0061	.0082	.0293	.0011	.0039	9.885	.0039	-.0033
#2	.0065	.0083	.0296	.0007	.0061	9.966	.0014	-.0040
#3	.0068	.0083	.0297	.0020	.0030	10.19	-.0003	-.0046

Zoom In Zoom Out

Sample Name: zrconf Acquired: 12/6/2018 4:43:16 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0030**	**-.0003**
Stddev	.0005	.0001
%RSD	16.03	18.64
#1	-.0030	-.0004
#2	-.0035	-.0003
#3	-.0025	-.0004

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104130.**	**19330.**	**4340.4**	**9655.0**
Stddev	309.	57.	8.1	11.9
%RSD	.29627	.29387	.18697	.12298
#1	104430.	19332.	4337.2	9659.2
#2	103820.	19273.	4334.3	9641.6
#3	104130.	19386.	4349.6	9664.1

Zoom In Zoom Out

Sample Name: moconf Acquired: 12/6/2018 4:48:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.0002**	**.0000**	**.0000**	**-.0017**	**-.0006**	**-.0004**	**.0006**	**.0003**
Stddev	.0001	.0000	.0001	.0001	.0001	.0004	.0000	.0000	.0002
%RSD	52.20	16.60	564.4	407.6	7.568	71.87	6.797	7.125	47.14
#1	-.0001	-.0002	.0001	.0002	-.0018	-.0009	-.0004	.0007	.0004
#2	-.0004	-.0002	.0001	-.0001	-.0015	-.0008	-.0004	.0006	.0004
#3	-.0003	-.0001	-.0001	-.0000	-.0017	-.0001	-.0004	.0006	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0023**	**-.0007**	**.0001**	**.0079**	**.0001**	**-.0021**	**-.0009**	**.0151**	**.0036**
Stddev	.0008	.0001	.0011	.0013	.0002	.0020	.0012	.0021	.0025
%RSD	34.32	15.72	966.2	16.88	282.0	94.40	139.2	13.82	71.50
#1	-.0032	-.0008	.0014	.0095	.0003	-.0005	.0005	.0132	.0050
#2	-.0016	-.0006	-.0002	.0070	.0001	-.0043	-.0013	.0148	.0006
#3	-.0023	-.0008	-.0008	.0073	-.0002	-.0015	-.0018	.0173	.0050

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0783**	**.0239**	**.0836**	**.0277**	F **10.13**	**-.0083**	**.0002**	**.0000**
Stddev	.0015	.0063	.0182	.0027	.0012	.01	.0005	.0003	.0001
%RSD	71.75	8.094	76.30	3.180	4.491	.1476	5.965	113.1	122.7
#1	.0028	.0739	.0447	.0855	.0281	10.12	-.0086	.0005	-.0000
#2	.0004	.0755	.0160	.0848	.0286	10.12	-.0086	.0002	.0001
#3	.0031	.0856	.0110	.0806	.0263	10.15	-.0077	-.0000	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0342**	**.0058**	**.0198**	**.0023**	**-.0012**	**-.0012**	**-.0008**
Stddev	.0005	.0004	.0008	.0034	.0009	.0003	.0006
%RSD	1.328	7.052	4.176	146.8	81.44	23.00	83.17
#1	.0346	.0060	.0207	.0058	-.0023	-.0012	-.0013
#2	.0342	.0061	.0195	-.0011	-.0007	-.0015	-.0010
#3	.0337	.0054	.0192	.0023	-.0005	-.0009	-.0001

Zoom In Zoom Out

Sample Name: moconf Acquired: 12/6/2018 4:48:42 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	101660.	18787.	4212.7	9366.0
Stddev	206.	46.	11.1	26.5
%RSD	.20226	.24419	.26349	.28248
#1	101870.	18814.	4225.0	9392.6
#2	101640.	18813.	4209.6	9365.6
#3	101460.	18734.	4203.4	9339.7

Zoom In Zoom Out

Sample Name: mnconf Acquired: 12/6/2018 4:53:56 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0002**	**-.0001**	**.0001**	**.0033**	**.0007**	F **10.76**	**.0008**	**.0002**
Stddev	.0002	.0000	.0001	.0001	.0001	.0004	.09	.0003	.0004
%RSD	636.9	19.80	92.84	48.30	3.748	60.05	.8782	33.31	231.9
#1	.0002	.0003	-.0001	.0001	.0032	.0005	10.69	.0010	-.0001
#2	-.0002	.0002	-.0002	.0001	.0034	.0004	10.87	.0005	-.0000
#3	.0001	.0003	-.0001	.0002	.0032	.0013	10.72	.0010	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056**	**.0007**	**.0015**	**.0021**	**-.0001**	**-.0001**	**-.0002**	**.0046**	**.0057**
Stddev	.0003	.0000	.0008	.0009	.0009	.0010	.0004	.0083	.0008
%RSD	4.828	1.864	49.70	41.26	706.3	715.6	234.5	181.9	14.33
#1	.0055	.0007	.0016	.0029	.0004	-.0007	-.0004	-.0041	.0050
#2	.0059	.0007	.0008	.0012	-.0012	-.0007	-.0004	.0124	.0066
#3	.0055	.0007	.0023	.0024	.0004	.0010	.0003	.0053	.0055

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0182**	**-.0391**	**-.0249**	**.0477**	**-.0019**	**.0024**	**.0128**	**-.0001**	**.0000**
Stddev	.0018	.0012	.0107	.0089	.0003	.0003	.0005	.0007	.0000
%RSD	9.976	3.081	42.93	18.66	14.58	11.64	3.812	929.7	430.9
#1	.0162	-.0387	-.0252	.0438	-.0018	.0027	.0125	.0003	-.0000
#2	.0186	-.0382	-.0140	.0414	-.0017	.0023	.0133	-.0009	.0000
#3	.0198	-.0405	-.0354	.0579	-.0022	.0023	.0124	.0003	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0016**	**.0051**	**.0093**	**.0006**	**-.0006**	**.0300**
Stddev	.0007	.0001	.0003	.0001	.0004	.0009	.0014
%RSD	92.92	4.248	5.399	1.481	70.34	170.9	4.823
#1	.0001	.0017	.0054	.0094	.0005	.0002	.0307
#2	.0014	.0016	.0051	.0092	.0010	-.0003	.0284
#3	.0006	.0016	.0049	.0094	.0002	-.0016	.0310

Zoom In Zoom Out

Sample Name: mnconf Acquired: 12/6/2018 4:53:56 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	102030.	18910.	4206.8	9289.2
Stddev	681.	80.	7.1	9.0
%RSD	.66781	.42424	.16956	.09648
#1	102440.	18906.	4200.1	9282.2
#2	102410.	18832.	4214.3	9299.3
#3	101250.	18992.	4206.2	9286.2

Zoom In Zoom Out

Sample Name: vconf Acquired: 12/6/2018 4:59:23 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0003**	**-.0006**	**.0002**	**.0009**	**.0011**	**.0005**	**.0006**	**.0006**
Stddev	.0001	.0000	.0001	.0003	.0004	.0001	.0002	.0003	.0001
%RSD	30.30	10.47	22.45	108.2	43.26	11.10	42.33	43.88	23.32
#1	.0003	-.0003	-.0008	.0002	.0010	.0010	.0002	.0008	.0007
#2	.0005	-.0003	-.0006	.0005	.0005	.0012	.0006	.0007	.0007
#3	.0003	-.0002	-.0005	.0000	.0013	.0012	.0006	.0003	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.13**	**.0004**	**.0002**	**.0002**	**-.0001**	**-.0024**	**.0057**	**.0044**	**.0126**
Stddev	.02	.0001	.0009	.0011	.0003	.0017	.0005	.0019	.0011
%RSD	.1485	16.47	500.6	707.2	181.8	72.87	8.303	43.44	8.714
#1	10.12	.0004	.0008	.0011	.0001	-.0004	.0056	.0039	.0138
#2	10.14	.0005	.0006	.0004	-.0004	-.0036	.0054	.0028	.0125
#3	10.14	.0004	-.0009	-.0010	-.0001	-.0031	.0063	.0066	.0116

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0028**	**.0082**	**.0936**	**-.0014**	**.0013**	**.0812**	**.0019**	**-.0000**
Stddev	.0005	.0122	.0108	.0060	.0008	.0001	.0011	.0006	.0000
%RSD	14.71	441.1	131.6	6.363	56.68	7.831	1.405	32.21	285.2
#1	.0040	.0100	.0205	.0986	-.0009	.0014	.0804	.0018	-.0001
#2	.0030	.0096	.0040	.0870	-.0010	.0012	.0825	.0025	-.0000
#3	.0039	-.0113	.0001	.0953	-.0023	.0013	.0807	.0013	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0022**	**.0050**	**-.0026**	**.0008**	**-.0005**	**-.0063**
Stddev	.0008	.0006	.0014	.0005	.0018	.0013	.0009
%RSD	164.2	25.06	28.12	18.42	214.9	242.5	14.83
#1	-.0004	.0025	.0065	-.0025	.0029	.0006	-.0057
#2	.0006	.0026	.0047	-.0032	-.0005	-.0002	-.0059
#3	.0012	.0016	.0038	-.0022	.0002	-.0020	-.0074

Zoom In Zoom Out

Sample Name: vconf Acquired: 12/6/2018 4:59:23 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	101710.	18851.	4200.4	9289.0
Stddev	389.	27.	26.9	53.6
%RSD	.38288	.14322	.64106	.57661
#1	102080.	18832.	4212.7	9309.7
#2	101760.	18839.	4169.5	9228.2
#3	101300.	18882.	4218.9	9329.1

Zoom In Zoom Out

Sample Name: ticonf Acquired: 12/6/2018 5:04:39 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0002**	**.0004**	**.0028**	**-.0003**	**-.0020**	**.0002**	**.0002**	**.0023**
Stddev	.0002	.0000	.0000	.0002	.0004	.0003	.0001	.0001	.0002
%RSD	243.5	24.43	3.291	6.688	159.1	16.50	32.42	49.08	9.147
#1	.0002	-.0002	.0004	.0026	-.0007	-.0020	.0001	.0003	.0023
#2	.0001	-.0003	.0004	.0027	.0001	-.0024	.0002	.0001	.0021
#3	-.0001	-.0002	.0004	.0030	-.0002	-.0017	.0002	.0002	.0026

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0003**	**.0005**	**-.0001**	**.0002**	**-.0008**	**-.0007**	**.0058**	**.0043**
Stddev	.0000	.0002	.0012	.0004	.0006	.0005	.0005	.0058	.0009
%RSD	2.032	66.23	247.2	397.5	283.4	59.24	69.60	99.75	22.05
#1	.0008	.0005	-.0003	-.0001	.0009	-.0014	-.0007	.0031	.0047
#2	.0008	.0001	.0018	.0003	.0000	-.0005	-.0002	.0019	.0050
#3	.0008	.0002	-.0001	-.0005	-.0003	-.0006	-.0012	.0124	.0032

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0088**	**-.0385**	**-.0157**	**.0304**	**-.0007**	**.0001**	**-.0138**	**-.0007**	**-.0000**
Stddev	.0016	.0192	.0117	.0107	.0008	.0001	.0006	.0004	.0001
%RSD	17.94	49.75	74.66	35.24	120.1	61.06	4.186	58.16	409.4
#1	.0071	-.0164	-.0162	.0368	-.0015	.0001	-.0136	-.0004	.0000
#2	.0102	-.0489	-.0272	.0365	-.0006	.0003	-.0133	-.0012	-.0001
#3	.0091	-.0502	-.0038	.0180	.0001	.0001	-.0144	-.0006	-.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.97**	**-.0007**	**.0005**	**-.0052**	**.0066**	**-.0013**	**-.0008**
Stddev	.04	.0002	.0000	.0019	.0010	.0007	.0005
%RSD	.3593	24.45	8.708	36.33	14.85	52.81	66.82
#1	11.00	-.0006	.0005	-.0059	.0069	-.0013	-.0012
#2	10.98	-.0009	.0006	-.0066	.0075	-.0020	-.0002
#3	10.92	-.0006	.0005	-.0031	.0055	-.0006	-.0011

Zoom In Zoom Out

Sample Name: ticonf Acquired: 12/6/2018 5:04:39 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	101520.	18811.	4201.8	9276.3
Stddev	60.	113.	9.8	27.2
%RSD	.05870	.60245	.23402	.29299
#1	101560.	18922.	4190.7	9246.3
#2	101540.	18695.	4205.2	9283.4
#3	101450.	18817.	4209.4	9299.2

Zoom In Zoom Out

Sample Name: snconf Acquired: 12/6/2018 5:09:57 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0000**	**-.0001**	**-.0001**	**.0001**	**.0021**	**.0001**	**-.0009**	**.0009**
Stddev	.0002	.0001	.0002	.0001	.0003	.0003	.0000	.0001	.0003
%RSD	240.2	28560.	379.6	181.0	350.1	15.18	50.98	14.36	29.98
#1	.0001	-.0001	-.0002	-.0002	-.0003	.0020	.0001	-.0008	.0010
#2	-.0001	.0000	-.0001	-.0000	.0003	.0019	.0001	-.0010	.0006
#3	-.0003	.0001	.0002	.0000	.0003	.0025	.0000	-.0009	.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0004**	**.0012**	**-.0003**	**-.0005**	**-.0016**	**-.0040**	**.0051**	**.0075**
Stddev	.0002	.0001	.0007	.0009	.0004	.0009	.0009	.0082	.0011
%RSD	82.52	37.53	53.66	289.4	82.24	54.05	21.40	160.9	14.89
#1	.0004	-.0002	.0005	.0002	-.0001	-.0023	-.0033	-.0028	.0067
#2	.0004	-.0003	.0016	-.0013	-.0006	-.0018	-.0038	.0135	.0070
#3	.0000	-.0005	.0016	.0002	-.0010	-.0006	-.0050	.0046	.0088

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**-.0076**	**.0341**	**.0207**	**.0006**	**.0006**	**.0841**	F **11.40**	**.0010**
Stddev	.0022	.0088	.0184	.0076	.0003	.0001	.0003	.05	.0000
%RSD	49.48	115.1	53.97	36.64	48.15	12.74	.3957	.4496	3.901
#1	.0057	.0001	.0158	.0121	.0005	.0007	.0843	11.46	.0010
#2	.0019	-.0172	.0338	.0236	.0010	.0006	.0837	11.38	.0011
#3	.0058	-.0058	.0526	.0265	.0005	.0005	.0843	11.36	.0010

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**.0023**	**.0065**	**-.0035**	**.0006**	**-.0022**	**.0002**
Stddev	.0005	.0005	.0001	.0007	.0018	.0004	.0003
%RSD	25.07	21.59	1.845	18.85	313.8	19.87	104.7
#1	.0014	.0028	.0066	-.0043	.0018	-.0024	.0001
#2	.0019	.0018	.0065	-.0033	.0014	-.0025	.0005
#3	.0023	.0023	.0064	-.0030	-.0015	-.0017	.0001

Zoom In Zoom Out

Sample Name: snconf Acquired: 12/6/2018 5:09:57 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101170.**	**18806.**	**4219.0**	**9347.4**
Stddev	178.	92.	4.5	12.4
%RSD	.17604	.48956	.10556	.13316
#1	100960.	18773.	4223.5	9349.2
#2	101250.	18910.	4214.7	9334.1
#3	101280.	18734.	4218.7	9358.8

Zoom In Zoom Out

Sample Name: siconf Acquired: 12/6/2018 5:15:14 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0000**	**-.0002**	**.0002**	**.0007**	**.0006**	**.0001**	**.0002**
Stddev	.0003	.0001	.0001	.0001	.0004	.0006	.0000	.0001	.0001
%RSD	200.5	2406.	373.9	83.59	144.6	77.29	6.951	140.3	65.20
#1	.0001	-.0001	.0001	-.0000	.0005	.0013	.0006	-.0001	.0001
#2	.0004	.0000	.0001	-.0003	.0004	.0008	.0006	.0001	.0002
#3	-.0001	.0001	-.0001	-.0002	-.0002	.0001	.0007	.0002	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0003**	**-.0003**	**-.0001**	**.0009**	**-.0037**	**.0002**	**-.0087**	**.0026**
Stddev	.0002	.0001	.0006	.0007	.0006	.0011	.0005	.0064	.0020
%RSD	118.4	16.41	187.0	1292.	61.57	28.86	270.0	73.08	77.07
#1	.0004	-.0003	.0001	-.0002	.0012	-.0027	.0003	-.0017	.0022
#2	-.0001	-.0004	-.0011	-.0007	.0003	-.0048	.0007	-.0104	.0008
#3	.0003	-.0003	-.0000	.0007	.0013	-.0036	-.0004	-.0140	.0047

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0010**	**.0099**	**.0156**	**-.0020**	**.0001**	**10.15**	**-.0002**	**-.0000**
Stddev	.0006	.0048	.0274	.0103	.0005	.0002	.06	.0003	.0001
%RSD	69.91	481.9	275.9	66.31	23.26	255.3	.5719	134.9	4866.
#1	.0012	.0012	-.0133	.0220	-.0014	-.0001	10.11	-.0001	.0000
#2	.0002	.0023	.0030	.0037	-.0022	.0002	10.22	-.0000	-.0001
#3	.0013	-.0064	.0402	.0210	-.0022	.0001	10.13	-.0006	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0104**	**.0008**	**.0001**	**-.0008**	**-.0000**	**-.0010**
Stddev	.0001	.0003	.0002	.0033	.0006	.0007	.0007
%RSD	12.05	3.063	23.21	3536.	72.84	3945.	72.33
#1	.0009	.0100	.0009	-.0003	-.0015	.0003	-.0007
#2	.0010	.0105	.0009	-.0031	-.0006	-.0008	-.0018
#3	.0008	.0106	.0006	.0036	-.0004	.0005	-.0005

Zoom In Zoom Out

Sample Name: siconf Acquired: 12/6/2018 5:15:14 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101680.**	**18768.**	**4225.0**	**9329.7**
Stddev	263.	73.	25.1	56.1
%RSD	.25858	.38636	.59341	.60116
#1	101690.	18851.	4239.5	9358.7
#2	101940.	18716.	4196.0	9265.1
#3	101420.	18738.	4239.4	9365.4

Zoom In Zoom Out

Sample Name: sconf Acquired: 12/6/2018 5:20:31 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0001**	**-.0002**	**.0001**	**.0003**	**.0001**	**-.0000**	**-.0001**	**.0000**
Stddev	.0002	.0001	.0001	.0001	.0002	.0002	.0000	.0002	.0004
%RSD	600.0	86.82	80.42	107.8	65.50	194.2	242.5	447.5	922.8
#1	-.0002	.0001	-.0003	.0002	.0002	.0001	-.0000	-.0002	-.0003
#2	.0002	-.0000	-.0002	-.0000	.0003	-.0001	.0000	-.0002	.0005
#3	-.0000	.0001	-.0000	.0002	.0006	.0004	-.0000	.0002	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0003**	**.0004**	**-.0011**	**-.0010**	**-.0009**	**-.0001**	**-.0040**	**.0020**
Stddev	.0000	.0000	.0011	.0008	.0007	.0010	.0008	.0064	.0025
%RSD	11.30	14.53	246.7	68.36	74.38	109.0	773.8	158.4	125.6
#1	.0002	.0002	.0017	-.0003	-.0012	-.0007	.0007	-.0097	-.0009
#2	.0003	.0003	.0001	-.0014	-.0002	-.0001	-.0008	.0028	.0037
#3	.0002	.0003	-.0005	-.0017	-.0017	-.0020	-.0002	-.0052	.0030

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0137**	**-.0238**	**.0129**	**-.0021**	**.0001**	**.0041**	**.0000**	**-.0000**
Stddev	.0010	.0110	.0329	.0057	.0006	.0002	.0002	.0006	.0000
%RSD	172.3	79.93	138.2	43.98	28.65	184.7	3.989	4493.	71.65
#1	.0017	.0041	-.0129	.0063	-.0016	-.0000	.0041	.0001	-.0000
#2	-.0002	.0257	-.0608	.0162	-.0028	.0000	.0042	.0006	-.0000
#3	.0003	.0115	.0022	.0161	-.0020	.0004	.0039	-.0006	-.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0002**	**-.0002**	F **109.2**	**-.0004**	**-.0015**	**-.0026**
Stddev	.0010	.0005	.0001	1.0	.0004	.0007	.0010
%RSD	74.72	327.1	28.52	.9287	104.8	48.61	39.26
#1	.0013	.0008	-.0003	108.6	-.0008	-.0017	-.0018
#2	.0023	-.0000	-.0002	108.7	.0000	-.0007	-.0023
#3	.0003	-.0003	-.0002	110.4	-.0004	-.0020	-.0037

Zoom In Zoom Out

Sample Name: sconf Acquired: 12/6/2018 5:20:31 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101770.**	**18799.**	**4262.4**	**9458.4**
Stddev	403.	51.	32.0	71.9
%RSD	.39643	.27386	.75073	.76064
#1	101330.	18752.	4243.5	9408.1
#2	101870.	18790.	4299.4	9540.8
#3	102120.	18854.	4244.4	9426.2

Zoom In Zoom Out

Sample Name: coconf Acquired: 12/6/2018 5:25:48 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0000**	W **-.0010**	F **10.80**	**.0001**	**.0047**	**-.0001**	**.0014**
Stddev	.0001	.0001	.0002	.01	.0001	.0003	.0001	.0002
%RSD	82.36	357.0	19.73	.0759	69.12	6.957	136.9	17.84
#1	-.0000	.0001	-.0012	10.81	.0002	.0051	.0000	.0012
#2	-.0001	.0000	-.0011	10.79	.0000	.0044	-.0001	.0016
#3	-.0001	-.0001	-.0008	10.80	.0002	.0047	-.0001	.0013

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0004**	**.0003**	**.0007**	**.0023**	**-.0006**	**-.0024**	**.0002**
Stddev	.0005	.0004	.0001	.0004	.0004	.0007	.0021	.0013
%RSD	202.4	106.1	41.50	63.32	15.11	114.6	90.10	547.3
#1	.0004	.0004	.0005	.0005	.0027	.0000	-.0039	.0016
#2	-.0003	-.0000	.0003	.0004	.0020	-.0005	.0001	-.0001
#3	.0005	.0007	.0002	.0011	.0024	-.0014	-.0033	-.0009

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0103**	**-.0032**	**.0003**	**.0058**	**-.0190**	**.0016**	**-.0029**	**-.0001**
Stddev	.0074	.0017	.0027	.0181	.0175	.0042	.0007	.0001
%RSD	71.63	53.92	995.4	310.1	92.19	267.1	26.07	213.7
#1	-.0163	-.0036	.0004	-.0116	.0011	-.0033	-.0037	-.0000
#2	-.0021	-.0013	-.0025	.0246	-.0308	.0038	-.0024	-.0002
#3	-.0124	-.0046	.0029	.0046	-.0273	.0041	-.0025	.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0031**	**.0001**	**.0000**	**-.0001**	**-.0015**	**-.0001**	**.0045**	**.0173**
Stddev	.0000	.0007	.0001	.0000	.0003	.0001	.0019	.0005
%RSD	1.514	597.8	267.8	58.89	16.62	119.5	41.77	2.975
#1	-.0031	.0009	.0000	-.0000	-.0015	-.0001	.0049	.0179
#2	-.0031	.0000	.0001	-.0001	-.0018	.0000	.0062	.0169
#3	-.0030	-.0006	-.0001	-.0001	-.0013	-.0002	.0025	.0171

Zoom In Zoom Out

Sample Name: coconf Acquired: 12/6/2018 5:25:48 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0010**	**-.0015**
Stddev	.0008	.0008
%RSD	76.15	55.02
#1	-.0003	-.0010
#2	-.0009	-.0011
#3	-.0018	-.0024

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101700.**	**18853.**	**4242.2**	**9433.7**
Stddev	256.	57.	4.9	13.7
%RSD	.25122	.30454	.11648	.14567
#1	101790.	18807.	4245.8	9431.3
#2	101910.	18917.	4236.6	9421.4
#3	101420.	18833.	4244.3	9448.5

Zoom In Zoom Out

Sample Name: alconf Acquired: 12/6/2018 5:31:04 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**-.0000**	**.0006**	**.0007**	**.0025**	**.0046**	**.0001**	**.0001**	**.0003**
Stddev	.0002	.0000	.0001	.0001	.0003	.0003	.0000	.0003	.0002
%RSD	50.68	81.81	18.93	15.80	12.99	7.242	30.59	442.8	74.29
#1	-.0003	-.0000	.0005	.0006	.0022	.0050	.0001	-.0001	.0002
#2	-.0006	-.0000	.0007	.0008	.0028	.0043	.0002	-.0001	.0001
#3	-.0003	-.0001	.0006	.0008	.0025	.0046	.0001	.0004	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0016**	**.0009**	**.0008**	**.0001**	**-.0003**	**-.0030**	F **491.2**	**.0207**
Stddev	.0001	.0003	.0026	.0009	.0008	.0028	.0009	4.0	.0015
%RSD	93.49	17.05	276.8	114.9	1162.	1057.	30.26	.8133	7.326
#1	-.0001	.0018	.0029	.0011	-.0000	.0013	-.0032	486.7	.0193
#2	-.0001	.0016	.0019	.0014	-.0007	.0013	-.0020	492.6	.0223
#3	.0000	.0013	-.0020	-.0002	.0009	-.0035	-.0037	494.3	.0205

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0370**	**-.0079**	**-.1459**	**.1175**	**-.0048**	**-.0009**	**.0034**	**-.0003**	**.0005**
Stddev	.0012	.0241	.0124	.0050	.0011	.0002	.0015	.0007	.0001
%RSD	3.323	305.2	8.514	4.294	23.29	25.01	42.20	256.3	12.27
#1	.0378	-.0261	-.1331	.1119	-.0035	-.0010	.0041	.0005	.0005
#2	.0377	-.0171	-.1579	.1191	-.0053	-.0010	.0044	-.0009	.0005
#3	.0356	.0195	-.1467	.1216	-.0056	-.0006	.0018	-.0005	.0006

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0059**	**.0000**	**.0105**	**-.0030**	**-.0010**	**.0048**
Stddev	.0005	.0009	.0001	.0013	.0012	.0014	.0013
%RSD	25.22	14.61	773.8	11.89	41.56	141.8	27.70
#1	.0027	.0064	-.0000	.0101	-.0041	-.0013	.0063
#2	.0017	.0049	.0002	.0095	-.0017	.0005	.0040
#3	.0020	.0064	-.0001	.0119	-.0031	-.0022	.0041

Zoom In Zoom Out

Sample Name: alconf Acquired: 12/6/2018 5:31:04 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96890.**	**19295.**	**4351.2**	**8297.2**
Stddev	295.	39.	8.3	18.3
%RSD	.30421	.20005	.19002	.22096
#1	96872.	19251.	4352.2	8312.2
#2	97194.	19318.	4358.8	8302.5
#3	96605.	19317.	4342.4	8276.8

Zoom In Zoom Out

Sample Name: caconf Acquired: 12/6/2018 5:36:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0001**	**-.0001**	**.0002**	**.0005**	**.0015**	**.0003**	**.0001**
Stddev	.0001	.0000	.0004	.0002	.0004	.0003	.0000	.0003
%RSD	58.32	28.64	312.9	100.8	75.96	17.56	10.42	319.8
#1	.0002	-.0001	-.0001	.0002	.0001	.0017	.0003	.0004
#2	.0002	-.0001	-.0005	.0004	.0007	.0012	.0004	-.0001
#3	.0000	-.0001	.0003	.0000	.0006	.0016	.0003	-.0001

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**-.0000**	**-.0012**	**.0021**	**.0005**	F **-.0032**	**-.0018**	**.0009**
Stddev	.0001	.0002	.0001	.0008	.0005	.0014	.0019	.0017
%RSD	12.19	2280.	10.32	40.24	90.73	42.76	100.7	193.9
#1	.0011	.0002	-.0011	.0029	.0011	-.0039	-.0022	.0026
#2	.0014	-.0001	-.0013	.0012	.0002	-.0042	.0001	.0007
#3	.0011	-.0001	-.0011	.0022	.0003	-.0017	-.0035	-.0007

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0755**	F **435.3**	**-.0083**	**.0064**	**-.1842**	**.0258**	**-.0018**	**-.0013**
Stddev	.0029	6.6	.0024	.0180	.0325	.0102	.0002	.0003
%RSD	3.904	1.526	28.71	283.0	17.62	39.59	13.95	21.55
#1	.0723	430.7	-.0063	-.0141	-.2107	.0318	-.0016	-.0013
#2	.0782	442.9	-.0077	.0132	-.1939	.0140	-.0017	-.0015
#3	.0760	432.2	-.0110	.0200	-.1480	.0317	-.0021	-.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**-.0005**	W **-.0030**	**-.0009**	**.0013**	**-.0002**	W **-.0395**	**.0009**
Stddev	.0005	.0006	.0001	.0007	.0009	.0001	.0022	.0018
%RSD	23.65	105.3	3.558	76.13	70.89	26.22	5.509	185.2
#1	.0020	-.0011	-.0030	-.0013	.0019	-.0002	-.0400	-.0002
#2	.0016	.0000	-.0031	-.0014	.0018	-.0002	-.0413	.0000
#3	.0025	-.0006	-.0029	-.0001	.0002	-.0003	-.0371	.0030

Zoom In Zoom Out

Sample Name: caconf Acquired: 12/6/2018 5:36:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	W **-.0168**	**-.0078**
Stddev	.0014	.0013
%RSD	8.218	17.16
#1	-.0173	-.0091
#2	-.0178	-.0079
#3	-.0152	-.0064

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92754.**	**18110.**	**3831.3**	**7918.6**
Stddev	112.	99.	15.2	27.3
%RSD	.12122	.54739	.39744	.34520
#1	92824.	18169.	3844.6	7939.5
#2	92813.	17996.	3814.7	7887.7
#3	92624.	18165.	3834.5	7928.6

Zoom In Zoom Out

Sample Name: mgconf Acquired: 12/6/2018 5:41:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**-.0000**	**-.0002**	**.0005**	**-.0006**	**.0018**	**.0014**	**.0003**	**.0008**
Stddev	.0002	.0000	.0001	.0002	.0002	.0001	.0001	.0004	.0002
%RSD	38.86	1772.	44.27	44.33	32.46	3.151	5.445	143.2	20.18
#1	-.0007	-.0000	-.0002	.0005	-.0006	.0017	.0014	.0008	.0008
#2	-.0006	.0000	-.0002	.0007	-.0004	.0018	.0015	.0002	.0009
#3	-.0003	.0000	-.0001	.0003	-.0007	.0018	.0013	-.0000	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0073**	**.0011**	**-.0015**	**-.0007**	**.0011**	**.0005**	**.0024**	**.0837**
Stddev	.0002	.0001	.0014	.0007	.0011	.0029	.0001	.0056	.0031
%RSD	64.58	2.048	131.4	46.13	151.6	257.3	21.59	236.5	3.645
#1	-.0006	.0074	.0027	-.0012	.0002	.0043	.0005	.0068	.0831
#2	-.0003	.0071	.0002	-.0024	-.0004	-.0013	.0006	.0042	.0810
#3	-.0001	.0073	.0003	-.0011	-.0020	.0004	.0004	-.0039	.0870

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	F **561.9**	**-.1840**	**.1085**	**-.0010**	**.0008**	**.0114**	**.0003**	**.0000**
Stddev	.0016	1.5	.0124	.0015	.0007	.0001	.0009	.0003	.0000
%RSD	68.93	.2637	6.749	1.428	72.25	14.21	7.461	92.32	214.4
#1	.0018	562.6	-.1918	.1103	-.0018	.0007	.0112	.0003	-.0000
#2	.0011	563.0	-.1906	.1077	-.0007	.0009	.0107	.0005	-.0000
#3	.0042	560.3	-.1697	.1076	-.0005	.0008	.0123	.0000	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0047**	**-.0001**	**.0276**	**-.0004**	**-.0009**	**.0092**
Stddev	.0009	.0004	.0001	.0013	.0011	.0013	.0009
%RSD	138.0	9.117	91.45	4.740	300.2	150.3	9.996
#1	.0000	.0051	-.0001	.0265	.0007	-.0009	.0091
#2	.0002	.0043	-.0000	.0290	-.0015	-.0022	.0083
#3	.0016	.0046	-.0003	.0272	-.0003	.0005	.0101

Zoom In Zoom Out

Sample Name: mgconf Acquired: 12/6/2018 5:41:53 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92138.**	**18179.**	**3843.5**	**7921.5**
Stddev	262.	38.	7.0	6.3
%RSD	.28432	.20734	.18220	.07942
#1	92235.	18136.	3838.9	7914.2
#2	92337.	18206.	3839.9	7924.9
#3	91841.	18195.	3851.5	7925.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 5:47:12 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.163**	**2.129**	**2.173**	**2.114**	**2.170**	**2.108**	**2.162**	**2.138**	**.2590**
Stddev	.001	.003	.006	.002	.009	.007	.006	.001	.0006
%RSD	.0619	.1154	.2603	.1027	.4071	.3117	.2617	.0672	.2220
#1	2.163	2.132	2.180	2.113	2.163	2.114	2.158	2.138	.2584
#2	2.162	2.127	2.170	2.116	2.167	2.109	2.159	2.139	.2592
#3	2.165	2.128	2.169	2.112	2.180	2.101	2.168	2.136	.2595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.147**	**2.176**	**2.103**	F **2.253**	**2.158**	**2.146**	**2.021**	**41.00**	**41.12**
Stddev	.007	.003	.011	.022	.000	.009	.008	.05	.07
%RSD	.3327	.1130	.5176	.9722	.0156	.4096	.4102	.1333	.1684
#1	2.141	2.178	2.115	2.274	2.158	2.156	2.030	41.04	41.20
#2	2.146	2.176	2.093	2.230	2.158	2.141	2.019	40.94	41.10
#3	2.155	2.173	2.101	2.253	2.157	2.141	2.014	41.02	41.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.61**	**40.53**	**41.48**	**41.38**	**2.120**	**2.048**	**5.063**	**2.101**	**2.170**
Stddev	.11	.14	.07	.01	.005	.004	.017	.004	.001
%RSD	.2654	.3431	.1640	.0186	.2598	.2153	.3312	.1994	.0274
#1	40.71	40.69	41.49	41.39	2.126	2.053	5.080	2.106	2.170
#2	40.50	40.44	41.41	41.37	2.119	2.047	5.062	2.098	2.170
#3	40.63	40.46	41.55	41.38	2.115	2.045	5.047	2.100	2.169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 5:47:12 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.138**	**2.046**	**2.030**	**2.077**	**2.071**	**2.072**	F **2.202**
Stddev	.011	.004	.004	.016	.006	.002	.019
%RSD	.5138	.2085	.1925	.7669	.2728	.0714	.8790
#1	2.127	2.051	2.026	2.095	2.077	2.071	2.223
#2	2.138	2.043	2.029	2.064	2.070	2.074	2.185
#3	2.149	2.044	2.034	2.074	2.066	2.072	2.199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							2.000
Range							10.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96463.**	**18614.**	**4057.8**	**8329.0**
Stddev	341.	47.	4.4	8.7
%RSD	.35396	.25017	.10934	.10388
#1	96676.	18561.	4052.9	8333.0
#2	96645.	18634.	4061.6	8334.9
#3	96070.	18648.	4058.8	8319.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 5:52:03 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	F **.0003**	**.0004**	**.0006**	**.0005**	**.0012**	**.0004**	**.0009**	**.0003**
Stddev	.0002	.0001	.0001	.0001	.0005	.0001	.0001	.0002	.0002
%RSD	41.36	20.96	30.95	16.08	87.99	6.686	25.67	18.05	87.22
#1	.0004	.0003	.0006	.0006	.0001	.0012	.0003	.0009	.0002
#2	.0006	.0004	.0003	.0005	.0010	.0013	.0004	.0010	.0001
#3	.0003	.0003	.0004	.0006	.0005	.0011	.0005	.0007	.0006
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002							
Low Limit		-.0002							

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0006**	**.0009**	**.0006**	**.0014**	**-.0012**	**-.0003**	**.0005**	**.0092**
Stddev	.0001	.0000	.0006	.0007	.0006	.0014	.0016	.0074	.0014
%RSD	25.00	2.051	68.16	117.4	39.13	110.6	552.5	1471.	15.31
#1	.0004	.0005	.0015	-.0002	.0019	.0000	.0011	-.0047	.0080
#2	.0006	.0006	.0005	.0011	.0016	-.0026	-.0021	-.0028	.0089
#3	.0007	.0006	.0005	.0008	.0008	-.0011	.0001	.0089	.0107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081**	**-.0040**	**-.0241**	**.0257**	**-.0005**	**.0011**	**.0019**	**.0013**	**.0004**
Stddev	.0016	.0250	.0164	.0048	.0006	.0001	.0004	.0003	.0001
%RSD	20.05	618.8	67.87	18.49	110.0	8.418	20.37	23.70	27.22
#1	.0079	.0040	-.0085	.0312	.0001	.0011	.0015	.0016	.0003
#2	.0066	.0159	-.0412	.0230	-.0010	.0011	.0020	.0011	.0003
#3	.0098	-.0321	-.0228	.0230	-.0007	.0010	.0022	.0011	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 5:52:03 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0007**	**.0004**	**-.0015**	**.0008**	**.0001**	**-.0018**
Stddev	.0004	.0007	.0001	.0005	.0008	.0007	.0010
%RSD	34.08	101.6	14.23	33.86	111.3	1275.	58.20
#1	.0007	.0011	.0005	-.0019	-.0002	.0005	-.0030
#2	.0014	.0010	.0004	-.0009	.0010	.0004	-.0013
#3	.0012	-.0001	.0004	-.0017	.0014	-.0007	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100270.**	**18592.**	**4185.2**	**9279.8**
Stddev	390.	51.	3.4	12.2
%RSD	.38920	.27623	.08187	.13189
#1	100450.	18533.	4181.5	9266.2
#2	99819.	18623.	4185.6	9290.0
#3	100530.	18621.	4188.3	9283.2

Zoom In Zoom Out

Sample Name: JC78883-5A Acquired: 12/6/2018 5:57:21 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2128**	**-.0001**	**.0001**	**-.0000**	**.0021**	**.0045**	**.1335**	**.0060**
Stddev	.0003	.0000	.0001	.0003	.0001	.0005	.0003	.0003
%RSD	.1460	30.70	108.7	691.1	4.185	11.23	.2453	5.062
#1	.2131	-.0001	.0001	.0002	.0020	.0048	.1337	.0063
#2	.2126	-.0001	.0001	.0000	.0021	.0039	.1331	.0059
#3	.2125	-.0000	-.0000	-.0003	.0022	.0047	.1337	.0058

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0025**	**-.0003**	**.0021**	F **-.0031**	**-.0008**	**-.0026**	**-.0012**
Stddev	.0004	.0001	.0001	.0004	.0007	.0002	.0010	.0009
%RSD	9.017	5.845	30.43	20.14	22.93	26.13	39.55	74.37
#1	.0046	.0024	-.0003	.0021	-.0023	-.0010	-.0030	-.0007
#2	.0043	.0026	-.0002	.0025	-.0035	-.0006	-.0015	-.0022
#3	.0038	.0027	-.0004	.0017	-.0034	-.0007	-.0034	-.0007

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0584**	F **213.7**	**.2676**	**126.2**	**38.14**	F **800.4**	**.9852**	**.0007**
Stddev	.0070	.5	.0034	.3	.04	9.3	.0037	.0000
%RSD	12.02	.2537	1.275	.2047	.1018	1.165	.3778	4.166
#1	.0648	214.0	.2665	126.4	38.13	811.2	.9894	.0007
#2	.0509	214.0	.2714	126.4	38.19	795.4	.9832	.0006
#3	.0597	213.0	.2649	125.9	38.12	794.6	.9828	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **25.43**	**.0142**	**3.202**	W **-.0017**	**.0287**	**-.0010**	F **212.9**	**-.0011**
Stddev	.12	.0001	.003	.0011	.0007	.0001	1.5	.0003
%RSD	.4547	.6713	.0857	62.78	2.332	10.58	.6996	25.86
#1	25.56	.0143	3.205	-.0007	.0292	-.0009	214.4	-.0013
#2	25.37	.0142	3.203	-.0017	.0288	-.0011	213.0	-.0008
#3	25.35	.0142	3.199	-.0028	.0279	-.0010	211.4	-.0011

Zoom In Zoom Out

Sample Name: JC78883-5A Acquired: 12/6/2018 5:57:21 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0136**	**.1540**
Stddev	.0016	.0012
%RSD	11.80	.8060
#1	.0118	.1544
#2	.0140	.1550
#3	.0149	.1526

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**86078.**	**17807.**	**3605.1**	**7150.6**
Stddev	47.	82.	21.0	37.4
%RSD	.05450	.46209	.58248	.52357
#1	86075.	17723.	3581.3	7108.9
#2	86126.	17812.	3613.0	7161.7
#3	86032.	17887.	3620.9	7181.3

Zoom In Zoom Out

Sample Name: JC78883-7A Acquired: 12/6/2018 6:02:41 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1859**	**.0001**	**.0001**	**.0001**	**.0017**	**.0033**	**.1147**	**.0017**	**.0036**
Stddev	.0001	.0002	.0001	.0002	.0006	.0007	.0003	.0004	.0003
%RSD	.0372	132.2	228.1	308.5	35.43	21.52	.2445	21.51	9.360
#1	.1859	.0003	-.0001	-.0001	.0013	.0027	.1144	.0021	.0036
#2	.1859	.0001	.0002	-.0000	.0024	.0041	.1148	.0014	.0039
#3	.1860	-.0000	.0001	.0002	.0014	.0031	.1149	.0017	.0033

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0016**	**.0005**	**-.0011**	**.0002**	**-.0008**	**-.0011**	**-.0006**	**117.1**
Stddev	.0005	.0000	.0004	.0019	.0001	.0005	.0011	.0121	.4
%RSD	34.78	1.581	67.39	181.3	29.17	56.74	108.4	2047.	.3692
#1	.0015	.0016	.0008	-.0008	.0002	-.0003	-.0014	.0134	117.6
#2	.0018	.0016	.0007	.0007	.0001	-.0012	.0002	-.0070	116.9
#3	.0009	.0016	.0001	-.0031	.0002	-.0011	-.0020	-.0082	116.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0779**	**71.06**	**33.99**	F **590.7**	**.7020**	**.2610**	**13.52**	**.0151**	**1.707**
Stddev	.0019	.43	.03	2.3	.0020	.0007	.03	.0006	.003
%RSD	2.461	.6065	.0758	.3843	.2813	.2639	.2118	3.664	.1823
#1	.0789	71.56	33.98	593.0	.7041	.2618	13.54	.0151	1.711
#2	.0757	70.80	33.97	590.6	.7017	.2607	13.49	.0145	1.705
#3	.0792	70.83	34.02	588.5	.7002	.2605	13.52	.0156	1.705

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0163**	**-.0007**	**69.05**	**-.0007**	**.0138**	**.0496**
Stddev	.0015	.0006	.0002	.22	.0007	.0014	.0009
%RSD	452.5	3.771	29.72	.3235	95.90	9.898	1.780
#1	-.0012	.0157	-.0007	69.31	-.0004	.0126	.0495
#2	.0019	.0164	-.0009	68.90	-.0003	.0135	.0487
#3	.0004	.0169	-.0005	68.95	-.0015	.0153	.0505

Zoom In Zoom Out

Sample Name: JC78883-7A Acquired: 12/6/2018 6:02:41 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**89014.**	**18113.**	**3749.1**	**7495.0**
Stddev	225.	38.	7.1	5.5
%RSD	.25302	.20953	.18963	.07306
#1	89112.	18104.	3749.4	7499.7
#2	89174.	18080.	3756.1	7496.4
#3	88756.	18154.	3741.9	7489.0

Zoom In Zoom Out

Sample Name: JC78883-9A Acquired: 12/6/2018 6:07:59 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1950**	**.0003**	**.0000**	**-.0002**	**.0031**	**.0032**	**.0211**	**.0028**	**.0044**
Stddev	.0005	.0003	.0001	.0002	.0004	.0001	.0001	.0004	.0000
%RSD	.2362	88.32	173.8	107.8	13.34	3.346	.6788	12.98	.9446
#1	.1948	.0002	.0001	-.0002	.0031	.0034	.0212	.0026	.0044
#2	.1946	.0007	-.0000	-.0003	.0035	.0032	.0210	.0026	.0044
#3	.1955	.0001	.0000	.0000	.0027	.0032	.0210	.0032	.0044

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0001**	**.0012**	**-.0018**	**.0020**	**-.0015**	**.0003**	**.0026**	**117.8**
Stddev	.0004	.0002	.0004	.0007	.0007	.0009	.0013	.0344	.3
%RSD	81.88	142.1	34.85	36.78	37.31	60.01	456.8	1301.	.2903
#1	.0007	-.0000	.0017	-.0011	.0011	-.0009	-.0003	-.0144	117.9
#2	.0000	.0001	.0008	-.0020	.0023	-.0012	.0018	.0422	117.4
#3	.0007	.0003	.0011	-.0024	.0024	-.0026	-.0006	-.0199	118.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0349**	**88.22**	**48.07**	F **800.4**	**.9164**	**.0007**	**17.79**	**-.0015**	**1.528**
Stddev	.0034	.22	.11	7.5	.0010	.0001	.04	.0002	.004
%RSD	9.640	.2534	.2242	.9316	.1045	20.26	.2118	13.14	.2756
#1	.0352	88.25	48.02	809.0	.9175	.0007	17.80	-.0013	1.528
#2	.0382	87.99	48.01	797.2	.9157	.0006	17.75	-.0017	1.523
#3	.0314	88.43	48.20	795.1	.9160	.0009	17.83	-.0016	1.532

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**.0214**	**-.0007**	**50.51**	**-.0023**	**.0181**	**.0677**
Stddev	.0002	.0004	.0001	.40	.0007	.0004	.0005
%RSD	18.32	1.877	15.65	.7965	29.25	2.052	.6962
#1	-.0009	.0211	-.0005	50.10	-.0026	.0185	.0676
#2	-.0010	.0214	-.0007	50.52	-.0015	.0180	.0673
#3	-.0013	.0219	-.0007	50.91	-.0028	.0177	.0682

Zoom In Zoom Out

Sample Name: JC78883-9A Acquired: 12/6/2018 6:07:59 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87394.**	**17962.**	**3679.9**	**7277.6**
Stddev	201.	55.	13.2	23.2
%RSD	.22990	.30409	.35914	.31877
#1	87279.	17928.	3670.4	7265.0
#2	87277.	17934.	3695.0	7304.4
#3	87626.	18025.	3674.3	7263.5

Zoom In Zoom Out

Sample Name: MP10983-MB1 Acquired: 12/6/2018 6:13:19 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0004**	**.0001**	**.0003**	**.0004**	**.0009**	**.0001**	**.0002**	**.0004**
Stddev	.0002	.0002	.0002	.0001	.0002	.0004	.0000	.0002	.0001
%RSD	918.2	62.12	121.8	29.56	60.67	41.19	55.96	98.68	13.41
#1	.0001	.0006	-.0000	.0003	.0002	.0008	.0001	.0003	.0004
#2	.0001	.0002	.0002	.0002	.0003	.0006	.0001	-.0000	.0005
#3	-.0002	.0004	.0003	.0004	.0007	.0013	.0000	.0004	.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0008**	**-.0000**	**-.0011**	**.0004**	**-.0001**	**-.0005**	**.0245**	**.0450**
Stddev	.0003	.0001	.0006	.0003	.0006	.0017	.0009	.0194	.0268
%RSD	112.4	12.51	14680.	28.35	154.1	3137.	181.6	79.15	59.66
#1	-.0001	.0009	.0001	-.0007	.0008	.0006	-.0006	.0441	.0735
#2	.0003	.0007	-.0006	-.0013	.0007	-.0020	.0005	.0054	.0203
#3	.0005	.0008	.0005	-.0011	-.0003	.0012	-.0013	.0240	.0410

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**.0074**	**.0343**	**.2221**	**-.0004**	**.0002**	**.0130**	**-.0002**	**.0005**
Stddev	.0016	.0166	.0124	.0043	.0006	.0003	.0008	.0003	.0004
%RSD	28.80	225.7	36.03	1.928	130.0	171.1	6.238	118.8	78.53
#1	.0038	-.0094	.0340	.2271	-.0001	-.0001	.0133	-.0002	.0009
#2	.0068	.0077	.0221	.2195	-.0011	.0001	.0120	-.0005	.0001
#3	.0060	.0239	.0468	.2199	-.0002	.0004	.0135	.0000	.0005

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0000**	**.0006**	**.0075**	**-.0018**	**-.0003**	**-.0008**
Stddev	.0003	.0002	.0002	.0026	.0005	.0015	.0012
%RSD	35.27	1059.	32.82	34.59	25.62	593.6	152.8
#1	.0005	-.0001	.0004	.0054	-.0021	-.0010	-.0009
#2	.0011	-.0002	.0007	.0066	-.0021	.0015	.0004
#3	.0008	.0002	.0007	.0103	-.0013	-.0012	-.0019

Zoom In Zoom Out

Sample Name: MP10983-MB1 Acquired: 12/6/2018 6:13:19 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102270.**	**19058.**	**4234.9**	**9408.1**
Stddev	34.	71.	9.8	23.5
%RSD	.03343	.37328	.23133	.24935
#1	102250.	19005.	4227.0	9386.7
#2	102260.	19030.	4231.8	9404.5
#3	102310.	19139.	4245.9	9433.2

Zoom In Zoom Out

Sample Name: MP10983-B1 Acquired: 12/6/2018 6:18:35 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.072**	**2.053**	**2.080**	**2.012**	**2.073**	**2.029**	**2.084**	**2.024**
Stddev	.003	.003	.005	.005	.002	.007	.001	.007
%RSD	.1341	.1210	.2322	.2734	.1036	.3248	.0530	.3549
#1	2.073	2.053	2.083	2.016	2.071	2.032	2.084	2.030
#2	2.074	2.055	2.083	2.014	2.075	2.034	2.082	2.025
#3	2.069	2.050	2.075	2.006	2.073	2.022	2.084	2.016

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2522**	**2.056**	**2.068**	**2.054**	**2.143**	**2.051**	**2.033**	**2.032**
Stddev	.0003	.002	.005	.005	.017	.006	.005	.008
%RSD	.1220	.0727	.2400	.2631	.8079	.3178	.2460	.3794
#1	.2523	2.055	2.072	2.056	2.153	2.057	2.034	2.034
#2	.2523	2.058	2.069	2.058	2.153	2.052	2.037	2.038
#3	.2518	2.055	2.063	2.048	2.123	2.044	2.027	2.023

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.62**	**25.64**	**25.41**	**24.88**	**25.81**	**25.82**	**2.014**	**2.085**
Stddev	.05	.04	.06	.10	.07	.04	.005	.006
%RSD	.1972	.1384	.2432	.4055	.2595	.1626	.2597	.2958
#1	25.65	25.68	25.43	24.94	25.78	25.81	2.014	2.088
#2	25.65	25.64	25.46	24.94	25.88	25.86	2.019	2.088
#3	25.56	25.61	25.35	24.77	25.76	25.78	2.009	2.078

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1954**	**2.110**	**2.087**	**2.170**	**1.954**	**2.042**	F **-.0823**	**.0178**
Stddev	.0006	.008	.004	.005	.006	.001	.0012	.0016
%RSD	.3229	.3684	.1747	.2407	.2874	.0482	1.450	9.219
#1	.1953	2.114	2.090	2.176	1.955	2.042	-.0826	.0193
#2	.1961	2.114	2.089	2.167	1.959	2.043	-.0833	.0180
#3	.1948	2.101	2.083	2.167	1.948	2.041	-.0810	.0161

Zoom In Zoom Out

Sample Name: MP10983-B1 Acquired: 12/6/2018 6:18:35 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0017**	**2.089**
Stddev	.0010	.020
%RSD	58.69	.9544
#1	-.0014	2.097
#2	-.0009	2.104
#3	-.0029	2.066

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98886.**	**18985.**	**4142.1**	**8634.1**
Stddev	126.	75.	7.4	16.5
%RSD	.12737	.39695	.17901	.19138
#1	98742.	18907.	4133.5	8615.4
#2	98941.	18991.	4146.1	8640.2
#3	98976.	19057.	4146.7	8646.6

Zoom In Zoom Out

Sample Name: JC78732-8 Acquired: 12/6/2018 6:23:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0001**	**.0001**	**.0003**	**.0005**	**.0010**	**.0017**	**.0031**	**.0002**
Stddev	.0001	.0000	.0002	.0003	.0003	.0001	.0000	.0002	.0002
%RSD	14.67	17.84	145.3	81.31	63.48	13.47	2.551	6.080	96.92
#1	.0005	.0001	-.0000	.0002	.0003	.0008	.0017	.0032	.0000
#2	.0004	.0001	.0003	.0002	.0009	.0011	.0017	.0029	.0004
#3	.0006	.0001	.0001	.0006	.0004	.0010	.0018	.0033	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0023**	**.0003**	**-.0005**	**.0003**	**-.0007**	**-.0001**	**.0086**	**.3830**
Stddev	.0002	.0001	.0016	.0004	.0001	.0005	.0009	.0018	.0029
%RSD	54.38	2.584	620.5	72.53	52.77	74.54	1063.	20.93	.7607
#1	.0001	.0024	-.0007	-.0001	.0003	-.0009	.0009	.0093	.3807
#2	.0003	.0023	.0021	-.0008	.0004	-.0001	-.0010	.0066	.3820
#3	.0004	.0024	-.0006	-.0006	.0001	-.0011	-.0002	.0099	.3863

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**.0394**	**.0296**	**.1980**	**.0020**	**.0006**	**.2676**	**.0007**	**.0049**
Stddev	.0013	.0113	.0061	.0006	.0004	.0002	.0009	.0003	.0001
%RSD	38.88	28.70	20.61	.3249	20.71	33.35	.3538	37.04	2.375
#1	.0021	.0288	.0251	.1974	.0016	.0008	.2686	.0010	.0049
#2	.0032	.0381	.0366	.1987	.0019	.0005	.2667	.0008	.0047
#3	.0047	.0512	.0273	.1980	.0024	.0004	.2677	.0004	.0049

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0065**	**.0008**	**.0101**	**-.0004**	**-.0009**	**.0001**
Stddev	.0002	.0003	.0002	.0024	.0013	.0010	.0008
%RSD	22.98	5.415	23.17	24.21	351.6	109.2	635.3
#1	.0009	.0067	.0010	.0129	.0009	-.0008	-.0008
#2	.0012	.0066	.0007	.0085	-.0017	-.0020	.0007
#3	.0008	.0061	.0007	.0089	-.0002	.0000	.0005

Zoom In Zoom Out

Sample Name: JC78732-8 Acquired: 12/6/2018 6:23:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102730.**	**19038.**	**4256.1**	**9438.3**
Stddev	87.	84.	7.7	21.6
%RSD	.08436	.44312	.18130	.22855
#1	102640.	18957.	4259.8	9454.2
#2	102730.	19125.	4247.2	9413.7
#3	102810.	19033.	4261.2	9446.8

Zoom In Zoom Out

Sample Name: JC78732-8F Acquired: 12/6/2018 6:28:44 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0002**	**.0001**	**.0006**	**.0007**	**.0005**	**.0012**	**.0054**	**.0003**
Stddev	.0001	.0001	.0001	.0002	.0001	.0004	.0000	.0001	.0003
%RSD	2.500	29.40	120.0	28.15	17.12	76.13	2.873	1.784	130.8
#1	.0036	.0002	.0001	.0006	.0006	.0002	.0012	.0054	.0004
#2	.0038	.0003	.0002	.0004	.0006	.0009	.0012	.0055	.0005
#3	.0037	.0002	-.0000	.0007	.0008	.0004	.0012	.0054	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0010**	**.0001**	**-.0006**	**.0001**	**-.0014**	**-.0003**	**.0097**	**.1118**
Stddev	.0003	.0001	.0007	.0004	.0005	.0002	.0002	.0063	.0033
%RSD	260.0	13.34	1233.	68.64	427.2	14.11	68.76	65.33	2.928
#1	.0004	.0010	.0005	-.0009	.0006	-.0013	-.0005	.0170	.1124
#2	.0000	.0008	-.0007	-.0002	-.0004	-.0013	-.0003	.0061	.1082
#3	-.0001	.0011	.0004	-.0006	.0002	-.0016	-.0001	.0060	.1147

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062**	**.0209**	**.0341**	**.2791**	**-.0000**	**.0003**	**.7228**	**-.0000**	**.0094**
Stddev	.0003	.0077	.0047	.0024	.0005	.0002	.0018	.0007	.0000
%RSD	4.540	37.00	13.73	.8568	2810.	64.59	.2446	4521.	.1649
#1	.0062	.0272	.0388	.2812	.0000	.0001	.7215	.0007	.0094
#2	.0060	.0233	.0340	.2795	.0005	.0003	.7221	-.0002	.0094
#3	.0065	.0123	.0294	.2765	-.0005	.0005	.7248	-.0006	.0094

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0039**	**.0001**	**.0028**	**-.0007**	**-.0007**	**-.0011**
Stddev	.0005	.0006	.0001	.0009	.0015	.0000	.0008
%RSD	50.88	14.45	112.5	30.56	214.0	5.875	71.68
#1	.0012	.0033	.0001	.0038	-.0010	-.0007	-.0004
#2	.0011	.0044	.0000	.0025	-.0019	-.0007	-.0010
#3	.0004	.0041	.0003	.0022	.0009	-.0007	-.0019

Zoom In Zoom Out

Sample Name: JC78732-8F Acquired: 12/6/2018 6:28:44 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102660.**	**19082.**	**4245.3**	**9419.5**
Stddev	213.	45.	9.6	21.2
%RSD	.20740	.23740	.22620	.22510
#1	102490.	19132.	4235.7	9395.0
#2	102600.	19070.	4254.9	9432.4
#3	102900.	19044.	4245.5	9431.1

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 6:34:01 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.175**	**2.144**	**2.188**	**2.122**	**2.180**	**2.126**	**2.183**	**2.142**	**.2614**
Stddev	.002	.002	.001	.001	.002	.004	.003	.002	.0004
%RSD	.1089	.0851	.0604	.0309	.1119	.1641	.1263	.0752	.1534
#1	2.176	2.145	2.187	2.121	2.182	2.122	2.181	2.142	.2613
#2	2.172	2.142	2.190	2.122	2.177	2.128	2.182	2.144	.2611
#3	2.176	2.145	2.188	2.122	2.181	2.127	2.187	2.141	.2618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.162**	**2.184**	**2.114**	F **2.257**	**2.164**	**2.157**	**2.029**	**41.27**	**41.26**
Stddev	.004	.005	.007	.010	.006	.003	.004	.05	.03
%RSD	.1605	.2513	.3259	.4408	.2786	.1336	.2145	.1111	.0770
#1	2.161	2.179	2.110	2.268	2.158	2.160	2.027	41.30	41.24
#2	2.159	2.190	2.122	2.254	2.170	2.158	2.034	41.21	41.24
#3	2.166	2.184	2.110	2.249	2.166	2.154	2.027	41.28	41.30
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.95**	**40.78**	**41.71**	**41.61**	**2.129**	**2.054**	**5.078**	**2.105**	**2.178**
Stddev	.03	.03	.05	.03	.002	.001	.001	.003	.002
%RSD	.0701	.0707	.1192	.0604	.0696	.0693	.0273	.1234	.1055
#1	40.96	40.82	41.71	41.61	2.128	2.056	5.077	2.107	2.177
#2	40.91	40.76	41.67	41.58	2.131	2.053	5.080	2.105	2.176
#3	40.96	40.77	41.77	41.63	2.129	2.053	5.078	2.102	2.181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 6:34:01 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.163**	**2.059**	**2.047**	**2.079**	**2.078**	**2.084**	F **2.203**
Stddev	.008	.004	.001	.012	.002	.002	.015
%RSD	.3683	.2024	.0453	.5637	.1145	.1151	.6583
#1	2.155	2.055	2.048	2.092	2.075	2.087	2.220
#2	2.171	2.063	2.046	2.075	2.078	2.083	2.196
#3	2.164	2.058	2.047	2.070	2.080	2.083	2.193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							2.000
Range							10.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96019.**	**18471.**	**4052.9**	**8324.8**
Stddev	40.	30.	5.3	8.3
%RSD	.04142	.16162	.13150	.09942
#1	95981.	18480.	4059.0	8331.9
#2	96017.	18438.	4050.6	8326.8
#3	96060.	18496.	4049.0	8315.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 6:38:52 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	F **.0004**	F **.0008**	**.0007**	**.0005**	**.0017**	**.0005**	**.0006**	**.0005**
Stddev	.0002	.0000	.0001	.0001	.0006	.0003	.0000	.0001	.0001
%RSD	56.97	4.185	12.28	7.761	121.7	17.57	8.057	13.18	21.39
#1	.0001	.0004	.0007	.0007	-.0001	.0020	.0004	.0006	.0004
#2	.0005	.0004	.0009	.0008	.0005	.0014	.0005	.0007	.0004
#3	.0006	.0004	.0007	.0007	.0011	.0018	.0005	.0006	.0006
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002	.0007						
Low Limit		-.0002	-.0007						

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0006**	**.0012**	**.0005**	**.0006**	**-.0008**	**-.0004**	**.0042**	**.0118**
Stddev	.0001	.0001	.0011	.0015	.0006	.0005	.0003	.0051	.0014
%RSD	14.62	17.36	91.43	330.6	102.7	67.10	77.22	122.2	11.70
#1	.0005	.0005	.0000	.0021	-.0001	-.0004	-.0005	.0101	.0102
#2	.0005	.0008	.0022	-.0009	.0010	-.0006	-.0007	.0006	.0129
#3	.0007	.0006	.0013	.0002	.0010	-.0014	-.0001	.0020	.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0094**	**.0238**	**.0112**	**.0633**	**.0003**	**.0013**	**.0019**	**.0011**	**.0004**
Stddev	.0002	.0117	.0374	.0060	.0006	.0000	.0000	.0003	.0001
%RSD	2.602	48.95	334.5	9.440	177.4	2.394	.4676	32.69	21.81
#1	.0093	.0123	.0215	.0676	.0002	.0013	.0019	.0007	.0004
#2	.0096	.0356	.0423	.0565	-.0002	.0013	.0019	.0013	.0003
#3	.0091	.0235	-.0303	.0658	.0009	.0012	.0019	.0012	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 6:38:52 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0020**	**.0004**	**-.0015**	**.0012**	**-.0009**	**-.0022**
Stddev	.0004	.0001	.0001	.0014	.0016	.0012	.0011
%RSD	31.83	3.974	16.73	94.28	138.1	137.4	48.82
#1	.0014	.0019	.0004	-.0019	-.0007	.0005	-.0034
#2	.0008	.0020	.0003	.0001	.0025	-.0015	-.0014
#3	.0015	.0021	.0005	-.0027	.0017	-.0017	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101140.**	**18694.**	**4229.6**	**9378.2**
Stddev	328.	49.	6.5	9.1
%RSD	.32453	.26305	.15369	.09666
#1	101460.	18642.	4222.7	9369.2
#2	101170.	18699.	4230.6	9378.1
#3	100800.	18740.	4235.5	9387.3

Zoom In Zoom Out

Sample Name: MP10983-S1 Acquired: 12/6/2018 6:44:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.059**	**1.992**	**3.552**	**2.247**	F **185.2**	**2.725**	**2.133**	**2.363**	**.2874**
Stddev	.001	.004	.015	.004	.7	.006	.004	.004	.0010
%RSD	.0358	.1786	.4261	.1783	.4008	.2056	.1913	.1735	.3504
#1	2.060	1.992	3.550	2.243	185.0	2.728	2.128	2.359	.2878
#2	2.058	1.988	3.538	2.247	186.0	2.728	2.135	2.362	.2882
#3	2.059	1.995	3.568	2.251	184.6	2.718	2.136	2.367	.2863

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.867**	**3.652**	**1.882**	**2.047**	**2.106**	**3.498**	**6.734**	**25.56**	F **250.9**
Stddev	.005	.011	.010	.010	.001	.007	.067	.03	2.3
%RSD	.2478	.2985	.5327	.4800	.0471	.1948	.9878	.1262	.9276
#1	1.867	3.650	1.881	2.058	2.105	3.502	6.769	25.52	252.5
#2	1.872	3.642	1.893	2.038	2.107	3.490	6.657	25.58	252.0
#3	1.862	3.663	1.873	2.044	2.107	3.502	6.775	25.58	248.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.60**	**68.16**	**60.34**	F **1226.**	**3.923**	**3.263**	**14.41**	**3.150**	**2.595**
Stddev	.01	.05	.14	15.	.018	.012	.05	.011	.003
%RSD	.0226	.0772	.2380	1.249	.4671	.3605	.3238	.3432	.1250
#1	24.61	68.21	60.19	1214.	3.916	3.265	14.40	3.155	2.597
#2	24.60	68.17	60.36	1220.	3.910	3.250	14.37	3.138	2.595
#3	24.61	68.10	60.47	1243.	3.944	3.273	14.46	3.158	2.591

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.082**	**3.316**	**2.041**	F **393.6**	**.2000**	**.0173**	**3.623**
Stddev	.004	.012	.002	2.2	.0031	.0038	.023
%RSD	.1956	.3701	.1180	.5534	1.543	21.72	.6418
#1	2.078	3.319	2.040	396.0	.1998	.0148	3.649
#2	2.081	3.302	2.043	391.6	.1971	.0155	3.604
#3	2.086	3.326	2.039	393.3	.2032	.0216	3.616

Zoom In Zoom Out

Sample Name: MP10983-S1 Acquired: 12/6/2018 6:44:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88059.**	**18453.**	**2303.3**	**6931.3**
Stddev	198.	80.	6.2	5.3
%RSD	.22494	.43174	.26902	.07705
#1	87837.	18468.	2302.7	6937.4
#2	88218.	18367.	2309.8	6928.9
#3	88122.	18524.	2297.5	6927.6

Zoom In Zoom Out

Sample Name: MP10983-S2 Acquired: 12/6/2018 6:49:20 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.020**	**1.946**	**3.460**	**2.194**	F **184.3**	**2.679**	**2.100**	**2.306**	**.2823**
Stddev	.003	.005	.008	.001	.6	.021	.013	.001	.0017
%RSD	.1470	.2501	.2236	.0592	.3373	.7861	.6363	.0232	.5873
#1	2.016	1.947	3.456	2.196	183.7	2.670	2.093	2.306	.2818
#2	2.022	1.941	3.469	2.193	184.9	2.702	2.116	2.307	.2842
#3	2.021	1.950	3.455	2.194	184.4	2.663	2.092	2.306	.2810

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.828**	**3.564**	**1.822**	**2.028**	**2.053**	**3.408**	**6.585**	**24.91**	F **249.8**
Stddev	.007	.010	.005	.016	.002	.008	.001	.04	.6
%RSD	.3857	.2831	.2611	.7878	.0825	.2420	.0177	.1641	.2386
#1	1.825	3.557	1.817	2.010	2.052	3.402	6.585	24.90	250.1
#2	1.836	3.576	1.824	2.040	2.055	3.418	6.587	24.87	249.1
#3	1.824	3.560	1.826	2.033	2.052	3.405	6.585	24.95	250.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.93**	**67.05**	**59.50**	F **1211.**	**3.819**	**3.181**	**14.29**	**3.064**	**2.555**
Stddev	.08	.30	.06	15.	.002	.007	.02	.005	.004
%RSD	.3168	.4517	.1054	1.240	.0548	.2296	.1205	.1702	.1408
#1	23.99	67.24	59.43	1226.	3.817	3.176	14.29	3.058	2.551
#2	23.85	66.70	59.52	1196.	3.819	3.189	14.31	3.068	2.558
#3	23.95	67.21	59.55	1209.	3.821	3.178	14.28	3.066	2.555

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.052**	**3.246**	**2.002**	F **392.6**	**.1953**	**.0208**	**3.571**
Stddev	.013	.009	.012	2.7	.0018	.0010	.023
%RSD	.6194	.2854	.6043	.6938	.8968	4.722	.6527
#1	2.044	3.249	1.996	389.6	.1953	.0198	3.544
#2	2.067	3.253	2.016	394.9	.1936	.0207	3.587
#3	2.045	3.235	1.995	393.4	.1971	.0218	3.582

Zoom In Zoom Out

Sample Name: MP10983-S2 Acquired: 12/6/2018 6:49:20 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87757.**	**18492.**	**2315.7**	**6952.0**
Stddev	652.	53.	2.9	3.1
%RSD	.74274	.28799	.12473	.04442
#1	88121.	18472.	2315.3	6948.5
#2	87004.	18553.	2313.0	6953.9
#3	88145.	18452.	2318.7	6953.7

Zoom In Zoom Out

Sample Name: JC78732-7 Acquired: 12/6/2018 6:54:26 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0257**	**.0002**	**.0353**	**.1454**	F **189.2**	**.6549**	**.1096**	**.2593**
Stddev	.0002	.0000	.0004	.0006	.5	.0006	.0002	.0012
%RSD	.9608	3.499	1.004	.4128	.2869	.0963	.1524	.4512
#1	.0260	.0002	.0352	.1449	189.2	.6542	.1094	.2598
#2	.0255	.0002	.0358	.1452	188.7	.6555	.1097	.2579
#3	.0256	.0002	.0351	.1461	189.7	.6550	.1097	.2601

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	*****	**.2404**	F **-3.898**	**.0750**	**-.0002**	F **-.0153**	**7.661**
Stddev	.0003	-----	.0026	.021	.0007	.0005	.0011	.011
%RSD	10.78	-----	1.094	.5327	.9807	214.6	7.495	.1435
#1	.0024	-----	.2434	-3.888	.0746	-.0003	-.0162	7.661
#2	.0021	-----	.2384	-3.884	.0746	-.0006	-.0140	7.650
#3	.0026	-----	.2393	-3.922	.0759	.0003	-.0156	7.672

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0284**	F **232.3**	**.0748**	**46.14**	**34.09**	F **1213.**	**.7996**	**.0350**
Stddev	.0084	2.2	.0004	.30	.18	26.	.0047	.0008
%RSD	29.66	.9501	.5976	.6447	.5263	2.140	.5840	2.178
#1	.0189	234.8	.0745	46.48	34.30	1232.	.8038	.0358
#2	.0350	231.1	.0753	45.97	33.99	1225.	.7946	.0347
#3	.0314	231.0	.0746	45.96	33.99	1184.	.8004	.0344

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.61**	F **-.0296**	**.5648**	F **-.0514**	**.0093**	F **-.1417**	F **400.5**	**.4706**
Stddev	.03	.0011	.0039	.0011	.0028	.0004	5.7	.0033
%RSD	.1954	3.739	.6938	2.070	29.88	.3113	1.412	.6968
#1	14.64	-.0290	.5693	-.0513	.0063	-.1416	394.0	.4678
#2	14.58	-.0290	.5629	-.0505	.0098	-.1413	404.1	.4742
#3	14.61	-.0309	.5621	-.0526	.0117	-.1421	403.4	.4699

Zoom In Zoom Out

Sample Name: JC78732-7 Acquired: 12/6/2018 6:54:26 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0327**	**.0184**
Stddev	.0014	.0013
%RSD	4.394	6.871
#1	.0311	.0174
#2	.0339	.0180
#3	.0330	.0198

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87779.**	**18390.**	**2245.1**	**6972.0**
Stddev	195.	123.	3.4	5.7
%RSD	.22261	.67147	.15102	.08118
#1	87963.	18248.	2243.7	6978.3
#2	87574.	18447.	2248.9	6970.4
#3	87801.	18474.	2242.6	6967.3

Zoom In Zoom Out

Sample Name: MP10983-SD1 Acquired: 12/6/2018 6:59:45 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0264**	**.0011**	**.0254**	**.1619**	F **244.8**	**.6779**	**.1441**	**.2669**
Stddev	.0003	.0010	.0020	.0014	3.9	.0111	.0021	.0023
%RSD	.9934	90.98	7.877	.8890	1.574	1.636	1.472	.8519
#1	.0262	.0002	.0233	.1618	249.2	.6907	.1465	.2694
#2	.0267	.0022	.0256	.1634	242.3	.6716	.1429	.2650
#3	.0262	.0009	.0273	.1605	242.9	.6713	.1428	.2662

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0165**	W **-.1190**	**.3870**	F **-.0666**	F **-.0123**	**.0354**	**-.0098**	**.3592**
Stddev	.0016	.0066	.0050	.0342	.0053	.0056	.0082	.0526
%RSD	9.479	5.577	1.285	51.30	42.63	15.86	83.60	14.64
#1	.0162	-.1260	.3926	-.0309	-.0095	.0296	-.0004	.2985
#2	.0182	-.1181	.3852	-.0990	-.0091	.0408	-.0139	.3896
#3	.0151	-.1129	.3832	-.0699	-.0184	.0358	-.0150	.3895

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0123**	**246.3**	**.2344**	**48.92**	**33.42**	W **1414.**	**.5555**	**.0249**
Stddev	.1330	.6	.0140	.13	.15	13.	.0027	.0008
%RSD	1077.	.2630	5.993	.2600	.4583	.9238	.4833	3.276
#1	-.0292	246.2	.2277	48.84	33.57	1399.	.5552	.0244
#2	.1612	245.7	.2248	49.07	33.26	1424.	.5530	.0259
#3	-.0949	247.0	.2505	48.86	33.44	1419.	.5583	.0245

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.859**	W **-.0221**	**.5738**	W **-.0272**	**.1164**	**.0972**	**272.0**	**-.0246**
Stddev	.060	.0018	.0001	.0014	.0044	.0011	3.9	.0071
%RSD	.6109	8.331	.0258	5.100	3.821	1.129	1.452	28.81
#1	9.915	-.0230	.5739	-.0288	.1209	.0983	274.9	-.0300
#2	9.795	-.0234	.5736	-.0266	.1164	.0972	273.6	-.0166
#3	9.868	-.0200	.5738	-.0262	.1120	.0962	267.5	-.0272

Zoom In Zoom Out

Sample Name: MP10983-SD1 Acquired: 12/6/2018 6:59:45 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0216**	**.0044**
Stddev	.0068	.0082
%RSD	31.41	189.0
#1	.0289	-.0051
#2	.0155	.0097
#3	.0204	.0085

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**92271.**	**18430.**	**3611.7**	**7960.8**
Stddev	1513.	41.	3.2	1.2
%RSD	1.6399	.22424	.08870	.01492
#1	90529.	18478.	3614.0	7960.9
#2	93026.	18401.	3613.1	7959.6
#3	93259.	18413.	3608.1	7961.9

Zoom In Zoom Out

Sample Name: MP10983-S3 Acquired: 12/6/2018 7:05:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.052**	**1.987**	**3.501**	**2.194**	F **180.2**	**2.628**	**2.118**	**2.293**	**.2857**
Stddev	.002	.002	.007	.001	2.3	.025	.025	.002	.0029
%RSD	.0715	.1051	.1884	.0500	1.290	.9439	1.204	.0941	1.027
#1	2.050	1.985	3.502	2.195	181.0	2.647	2.134	2.295	.2883
#2	2.052	1.987	3.508	2.193	177.6	2.600	2.088	2.291	.2825
#3	2.053	1.989	3.494	2.194	182.1	2.636	2.131	2.292	.2864

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.848**	**3.476**	**1.916**	**2.024**	**2.066**	**3.440**	**6.539**	**25.36**	F **284.6**
Stddev	.023	.010	.034	.010	.005	.017	.083	.03	1.1
%RSD	1.237	.2763	1.769	.5140	.2227	.4840	1.261	.1286	.3877
#1	1.861	3.481	1.918	2.018	2.071	3.425	6.518	25.33	285.6
#2	1.822	3.482	1.881	2.036	2.063	3.458	6.630	25.39	283.4
#3	1.861	3.465	1.948	2.017	2.064	3.436	6.469	25.38	284.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.39**	**77.44**	**62.12**	F **1264.**	**3.865**	**3.207**	**13.80**	**3.075**	**2.676**
Stddev	.05	.30	.18	10.	.010	.011	.03	.015	.001
%RSD	.2092	.3890	.2857	.7644	.2599	.3287	.2212	.4771	.0338
#1	24.33	77.13	61.94	1273.	3.862	3.205	13.80	3.075	2.675
#2	24.42	77.44	62.12	1264.	3.876	3.219	13.84	3.090	2.676
#3	24.43	77.74	62.30	1253.	3.856	3.199	13.78	3.061	2.677

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.084**	**3.259**	**2.019**	F **428.5**	**.1848**	**.0217**	**3.558**
Stddev	.026	.010	.026	3.7	.0071	.0017	.031
%RSD	1.257	.2941	1.298	.8673	3.846	7.830	.8801
#1	2.102	3.254	2.034	426.9	.1850	.0205	3.549
#2	2.054	3.270	1.989	432.8	.1917	.0209	3.592
#3	2.097	3.253	2.034	425.9	.1775	.0236	3.531

Zoom In Zoom Out

Sample Name: MP10983-S3 Acquired: 12/6/2018 7:05:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88199.**	**18259.**	**2307.4**	**6919.1**
Stddev	1119.	100.	5.7	3.8
%RSD	1.2683	.54887	.24711	.05482
#1	87539.	18369.	2307.8	6914.8
#2	89490.	18234.	2301.6	6921.8
#3	87567.	18174.	2312.9	6920.9

Zoom In Zoom Out

Sample Name: MP10983-S4 Acquired: 12/6/2018 7:10:23 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.042**	**1.979**	**3.451**	**2.191**	F **178.7**	**2.635**	**2.127**	**2.287**	**.2862**
Stddev	.002	.003	.018	.005	.7	.008	.002	.006	.0002
%RSD	.1106	.1627	.5122	.2522	.3823	.3030	.1114	.2627	.0543
#1	2.044	1.982	3.454	2.194	179.4	2.644	2.129	2.289	.2861
#2	2.040	1.975	3.432	2.185	178.7	2.628	2.125	2.281	.2862
#3	2.041	1.980	3.467	2.194	178.0	2.632	2.128	2.293	.2864

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.862**	**3.425**	**1.959**	**2.003**	**2.060**	**3.384**	**6.312**	**25.33**	F **281.4**
Stddev	.004	.015	.014	.012	.004	.026	.070	.03	.8
%RSD	.2232	.4435	.7025	.5959	.2117	.7816	1.113	.1159	.2681
#1	1.866	3.426	1.971	1.996	2.059	3.378	6.312	25.35	280.7
#2	1.861	3.409	1.961	1.996	2.057	3.361	6.242	25.30	282.2
#3	1.858	3.439	1.944	2.017	2.065	3.413	6.383	25.34	281.2

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.38**	**76.60**	**61.43**	F **1242.**	**3.825**	**3.165**	**13.51**	**3.038**	**2.660**
Stddev	.04	.15	.04	2.	.014	.017	.06	.017	.002
%RSD	.1563	.1965	.0694	.1924	.3730	.5456	.4465	.5607	.0869
#1	24.38	76.44	61.38	1241.	3.829	3.166	13.53	3.039	2.660
#2	24.35	76.61	61.44	1240.	3.809	3.148	13.44	3.020	2.657
#3	24.42	76.75	61.47	1245.	3.837	3.182	13.56	3.054	2.662

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.097**	**3.223**	**2.033**	F **414.7**	**.1786**	**.0222**	**3.481**
Stddev	.004	.016	.003	4.3	.0023	.0009	.041
%RSD	.1744	.4923	.1260	1.046	1.290	4.246	1.178
#1	2.101	3.221	2.036	412.8	.1795	.0211	3.464
#2	2.096	3.208	2.031	411.7	.1803	.0225	3.451
#3	2.094	3.240	2.032	419.7	.1760	.0229	3.527

Zoom In Zoom Out

Sample Name: MP10983-S4 Acquired: 12/6/2018 7:10:23 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**87070.**	**18282.**	**2329.7**	**6899.6**
Stddev	226.	44.	8.0	14.4
%RSD	.25977	.24015	.34268	.20840
#1	86830.	18314.	2322.1	6883.6
#2	87280.	18300.	2338.0	6903.5
#3	87101.	18232.	2329.0	6911.5

Zoom In Zoom Out

Sample Name: JC78732-7F Acquired: 12/6/2018 7:15:38 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0266**	**.0002**	**.0292**	**.1305**	F **184.0**	**.5964**	**.1151**	**.2315**
Stddev	.0001	.0001	.0005	.0017	1.2	.0010	.0001	.0027
%RSD	.4821	35.45	1.780	1.277	.6522	.1734	.0962	1.160
#1	.0266	.0003	.0298	.1324	182.7	.5952	.1152	.2346
#2	.0265	.0002	.0291	.1295	184.2	.5971	.1150	.2300
#3	.0268	.0001	.0287	.1295	185.1	.5970	.1151	.2300

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	*****	**.1326**	F **-3.794**	**.0729**	**-.0015**	F **-.0182**	**7.403**
Stddev	.0003	-----	.0020	.085	.0011	.0007	.0037	.140
%RSD	9.424	-----	1.535	2.230	1.523	49.39	20.50	1.894
#1	.0032	-----	.1350	-3.892	.0742	-.0006	-.0185	7.565
#2	.0030	-----	.1315	-3.746	.0726	-.0019	-.0218	7.319
#3	.0026	-----	.1314	-3.745	.0720	-.0019	-.0144	7.326

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0092**	F **264.3**	**.0224**	**55.05**	**36.32**	F **1254.**	**.8267**	**.0344**
Stddev	.0096	4.0	.0012	.47	.14	23.	.0205	.0010
%RSD	104.8	1.503	5.412	.8601	.3802	1.804	2.475	2.829
#1	-.0012	267.8	.0211	55.58	36.45	1271.	.8502	.0356
#2	-.0199	260.0	.0236	54.67	36.32	1229.	.8168	.0339
#3	-.0064	265.2	.0226	54.89	36.18	1264.	.8130	.0339

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.30**	F **-.0293**	**.6673**	F **-.0536**	**.0058**	F **-.1386**	F **449.9**	**.4607**
Stddev	.31	.0006	.0031	.0006	.0020	.0012	11.3	.0105
%RSD	2.190	2.053	.4719	1.033	34.68	.8542	2.518	2.280
#1	14.67	-.0300	.6705	-.0536	.0051	-.1373	462.5	.4728
#2	14.15	-.0288	.6673	-.0531	.0081	-.1396	447.0	.4541
#3	14.10	-.0292	.6642	-.0542	.0043	-.1389	440.4	.4551

Zoom In Zoom Out

Sample Name: JC78732-7F Acquired: 12/6/2018 7:15:38 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0372**	**.0134**
Stddev	.0008	.0005
%RSD	2.107	3.939
#1	.0367	.0138
#2	.0369	.0128
#3	.0381	.0135

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**86931.**	**18210.**	**2238.3**	**6903.5**
Stddev	155.	85.	43.6	86.1
%RSD	.17839	.46571	1.9464	1.2468
#1	87110.	18117.	2188.1	6804.2
#2	86846.	18283.	2264.5	6958.1
#3	86837.	18228.	2262.5	6948.0

Zoom In Zoom Out

Sample Name: MP10983-SD2 Acquired: 12/6/2018 7:21:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0281**	**.0004**	**.0232**	**.1489**	F **236.7**	**.6214**	**.1496**	**.2443**
Stddev	.0006	.0002	.0007	.0017	1.3	.0042	.0003	.0013
%RSD	1.980	55.95	3.153	1.130	.5650	.6740	.2110	.5492
#1	.0281	.0006	.0224	.1497	237.8	.6217	.1493	.2428
#2	.0276	.0001	.0233	.1501	235.2	.6171	.1495	.2446
#3	.0287	.0004	.0238	.1470	237.0	.6254	.1499	.2455

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0159**	W **-.1189**	**.3279**	F **-.1430**	**-.0087**	**.0363**	**-.0007**	**.4538**
Stddev	.0019	.0049	.0020	.0053	.0034	.0026	.0059	.0278
%RSD	12.27	4.092	.5982	3.699	38.39	7.188	832.2	6.123
#1	.0181	-.1181	.3280	-.1461	-.0107	.0392	-.0063	.4246
#2	.0148	-.1145	.3258	-.1459	-.0049	.0341	.0054	.4800
#3	.0147	-.1241	.3298	-.1369	-.0107	.0355	-.0013	.4566

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0043**	**290.1**	**.1867**	**59.70**	**36.60**	F **1502.**	**.5864**	**.0245**
Stddev	.0266	.8	.0046	.26	.03	14.	.0029	.0015
%RSD	617.3	.2593	2.486	.4316	.0726	.9640	.4993	5.946
#1	.0155	290.8	.1814	59.91	36.58	1517.	.5898	.0237
#2	.0061	289.3	.1886	59.78	36.63	1488.	.5852	.0262
#3	-.0345	290.3	.1900	59.42	36.60	1501.	.5843	.0237

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.900**	W **-.0228**	**.6934**	W **-.0319**	**.1052**	**.0926**	**311.7**	**-.0232**
Stddev	.035	.0025	.0009	.0029	.0016	.0006	2.5	.0039
%RSD	.3509	10.90	.1251	8.932	1.513	.6922	.8091	16.67
#1	9.940	-.0218	.6929	-.0338	.1068	.0920	314.4	-.0263
#2	9.881	-.0210	.6928	-.0333	.1036	.0925	311.4	-.0189
#3	9.880	-.0256	.6944	-.0286	.1053	.0933	309.4	-.0245

Zoom In Zoom Out

Sample Name: MP10983-SD2 Acquired: 12/6/2018 7:21:03 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0288**	**-.0037**
Stddev	.0018	.0061
%RSD	6.099	163.1
#1	.0274	-.0106
#2	.0283	-.0015
#3	.0308	.0009

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93259.**	**18390.**	**3588.1**	**7886.5**
Stddev	522.	89.	14.3	26.8
%RSD	.55973	.48383	.39805	.34044
#1	93038.	18359.	3572.7	7858.1
#2	93855.	18490.	3600.8	7911.5
#3	92884.	18321.	3590.9	7890.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 7:26:30 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.174**	**2.137**	**2.181**	**2.112**	**2.165**	**2.114**	**2.172**	**2.134**	**.2603**
Stddev	.005	.005	.002	.003	.004	.007	.002	.003	.0006
%RSD	.2150	.2180	.1040	.1182	.1926	.3266	.0953	.1193	.2493
#1	2.177	2.133	2.182	2.110	2.161	2.118	2.170	2.133	.2605
#2	2.176	2.142	2.182	2.110	2.168	2.106	2.174	2.132	.2596
#3	2.168	2.136	2.178	2.114	2.168	2.119	2.173	2.137	.2608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.152**	**2.172**	**2.108**	F **2.244**	**2.157**	**2.142**	**2.020**	**41.21**	**41.11**
Stddev	.002	.001	.006	.010	.001	.001	.003	.04	.09
%RSD	.0891	.0581	.2993	.4470	.0644	.0415	.1636	.0983	.2270
#1	2.150	2.170	2.104	2.243	2.155	2.142	2.022	41.21	41.00
#2	2.153	2.172	2.115	2.255	2.157	2.143	2.021	41.25	41.13
#3	2.153	2.173	2.104	2.235	2.158	2.142	2.016	41.17	41.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.66**	**40.54**	**41.61**	**41.24**	**2.120**	**2.048**	**5.052**	**2.090**	**2.176**
Stddev	.07	.16	.06	.01	.001	.001	.006	.005	.003
%RSD	.1712	.3827	.1373	.0342	.0569	.0615	.1131	.2325	.1390
#1	40.59	40.45	41.66	41.22	2.120	2.048	5.052	2.090	2.176
#2	40.73	40.46	41.55	41.24	2.122	2.050	5.058	2.095	2.179
#3	40.67	40.72	41.62	41.25	2.120	2.047	5.046	2.085	2.173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 7:26:30 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.175**	**2.047**	**2.040**	**2.073**	**2.069**	**2.079**	**2.190**
Stddev	.005	.005	.002	.004	.003	.002	.008
%RSD	.2243	.2356	.0753	.2066	.1280	.1119	.3605
#1	2.172	2.051	2.038	2.076	2.071	2.076	2.189
#2	2.180	2.042	2.041	2.075	2.071	2.079	2.199
#3	2.172	2.049	2.041	2.068	2.066	2.081	2.183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96725.**	**18503.**	**4067.9**	**8350.2**
Stddev	244.	46.	1.7	6.6
%RSD	.25239	.24819	.04226	.07866
#1	97000.	18483.	4066.4	8351.6
#2	96640.	18556.	4067.5	8355.9
#3	96534.	18471.	4069.8	8343.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 7:31:20 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	F **.0006**	F **.0008**	**.0010**	F **.0034**	**.0015**	**.0007**	**.0011**	**.0004**
Stddev	.0001	.0001	.0001	.0000	.0004	.0003	.0001	.0001	.0001
%RSD	20.66	9.781	12.55	1.554	11.52	20.65	10.89	11.03	38.46
#1	.0005	.0006	.0007	.0010	.0030	.0017	.0007	.0011	.0005
#2	.0006	.0005	.0009	.0010	.0035	.0011	.0007	.0011	.0002
#3	.0007	.0006	.0008	.0010	.0038	.0017	.0008	.0009	.0004
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002	.0007		.0024				
Low Limit		-.0002	-.0007		-.0024				

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0008**	**.0011**	**.0008**	**.0005**	**-.0003**	**.0000**	**.0056**	**.0151**
Stddev	.0002	.0002	.0010	.0010	.0002	.0011	.0009	.0072	.0015
%RSD	12.46	20.41	95.92	132.4	47.17	344.8	12530.	129.9	10.22
#1	.0011	.0007	.0016	.0017	.0007	.0002	.0010	.0032	.0144
#2	.0011	.0010	-.0001	-.0003	.0005	.0004	-.0005	.0137	.0141
#3	.0014	.0007	.0017	.0009	.0002	-.0016	-.0005	-.0002	.0169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0149**	**.0222**	**.0794**	**.2197**	**.0010**	**.0012**	**.0026**	**.0010**	**.0005**
Stddev	.0030	.0151	.0238	.0054	.0002	.0001	.0012	.0002	.0001
%RSD	19.79	67.83	29.95	2.477	17.36	12.17	47.05	15.16	21.37
#1	.0144	.0118	.0531	.2218	.0012	.0014	.0012	.0011	.0004
#2	.0122	.0154	.0856	.2238	.0010	.0011	.0033	.0011	.0006
#3	.0181	.0395	.0995	.2135	.0009	.0012	.0033	.0009	.0006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 7:31:20 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0017**	**.0006**	**.0022**	**.0013**	**.0009**	**-.0026**
Stddev	.0003	.0003	.0001	.0012	.0007	.0009	.0004
%RSD	18.44	18.30	12.64	56.68	51.44	96.47	13.96
#1	.0014	.0013	.0005	.0030	.0010	.0014	-.0030
#2	.0013	.0019	.0006	.0027	.0021	.0014	-.0024
#3	.0018	.0019	.0006	.0008	.0008	-.0001	-.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101260.**	**18679.**	**4211.2**	**9329.6**
Stddev	174.	17.	8.2	28.8
%RSD	.17208	.08836	.19475	.30891
#1	101090.	18698.	4212.2	9336.6
#2	101260.	18668.	4202.5	9297.9
#3	101430.	18671.	4218.8	9354.2

Zoom In Zoom Out

Sample Name: RINSECONF Acquired: 12/6/2018 7:36:39 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0001**	**.0001**	**.0002**	**.0009**	**.0005**	**-.0000**	**.0002**	**.0005**
Stddev	.0002	.0001	.0004	.0001	.0000	.0001	.0000	.0002	.0003
%RSD	175.4	160.4	255.6	47.57	1.226	14.46	1392.	92.14	47.61
#1	.0001	-.0000	.0003	.0003	.0009	.0004	-.0000	.0000	.0008
#2	-.0003	.0001	.0004	.0001	.0009	.0006	-.0000	.0002	.0003
#3	-.0001	.0002	-.0003	.0002	.0009	.0004	.0000	.0004	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0011**	**-.0004**	**.0011**	**-.0010**	**-.0013**	**.0015**	**.0120**
Stddev	.0002	.0001	.0008	.0015	.0007	.0009	.0005	.0058	.0148
%RSD	156.1	74.05	77.41	400.4	69.24	84.06	41.18	378.0	123.6
#1	-.0001	.0001	.0001	-.0018	.0013	-.0003	-.0018	-.0024	.0011
#2	.0002	.0000	.0017	.0012	.0002	-.0020	-.0007	-.0012	.0059
#3	.0003	.0002	.0014	-.0005	.0016	-.0008	-.0013	.0082	.0288

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0063**	**.0603**	**.1770**	**-.0004**	**.0001**	**-.0002**	**.0003**	**.0001**
Stddev	.0041	.0119	.0225	.0083	.0006	.0001	.0010	.0002	.0004
%RSD	97.01	188.9	37.28	4.688	164.6	116.3	534.2	67.93	309.9
#1	.0023	.0162	.0365	.1826	-.0002	.0001	-.0009	.0005	-.0001
#2	.0014	-.0069	.0812	.1809	-.0010	.0003	-.0007	.0002	-.0001
#3	.0089	.0095	.0633	.1675	.0001	.0000	.0010	.0002	.0006

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**-.0002**	**.0000**	**-.0020**	**.0005**	**-.0014**	**-.0032**
Stddev	.0002	.0004	.0001	.0005	.0010	.0009	.0007
%RSD	17.69	217.1	320.9	27.17	198.2	63.27	22.53
#1	.0012	-.0005	.0002	-.0016	.0001	-.0006	-.0024
#2	.0014	-.0004	-.0001	-.0026	.0017	-.0011	-.0035
#3	.0009	.0003	.0000	-.0017	-.0002	-.0023	-.0038

Zoom In Zoom Out

Sample Name: RINSECONF Acquired: 12/6/2018 7:36:39 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101660.**	**18577.**	**4219.5**	**9349.4**
Stddev	308.	40.	7.8	9.5
%RSD	.30313	.21482	.18492	.10173
#1	101700.	18541.	4212.6	9338.4
#2	101340.	18620.	4228.0	9355.1
#3	101950.	18570.	4217.9	9354.7

Zoom In Zoom Out

Sample Name: MP11070-MB1 7 Acquired: 12/6/2018 7:41:56 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0001**	**.0003**	**.0064**	**.0009**	**.0003**	**.0006**	**.0002**
Stddev	.0001	.0000	.0002	.0001	.0003	.0004	.0001	.0001	.0004
%RSD	162.7	40.18	148.7	52.13	5.375	43.52	23.36	21.64	188.4
#1	.0000	.0001	.0003	.0002	.0068	.0011	.0002	.0007	-.0000
#2	.0002	.0001	-.0001	.0004	.0063	.0011	.0003	.0005	-.0000
#3	-.0000	.0001	.0002	.0002	.0061	.0004	.0004	.0005	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0042**	**-.0006**	**-.0005**	**.0006**	**-.0005**	**-.0002**	**.0040**	**.1033**
Stddev	.0001	.0000	.0006	.0006	.0003	.0011	.0010	.0122	.0030
%RSD	41.97	.9135	96.13	106.5	47.14	214.2	471.7	306.0	2.902
#1	.0002	.0042	-.0013	-.0011	.0007	-.0017	-.0012	.0131	.1052
#2	.0005	.0042	-.0005	-.0005	.0008	.0005	.0008	-.0098	.0999
#3	.0003	.0042	-.0001	.0000	.0003	-.0004	-.0003	.0087	.1049

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0200**	**.0154**	**.0397**	**.1880**	**-.0002**	**.0005**	**.0116**	**.0203**	**.0003**
Stddev	.0016	.0163	.0190	.0024	.0004	.0002	.0015	.0003	.0000
%RSD	7.893	105.8	47.91	1.263	176.2	34.67	12.66	1.587	14.43
#1	.0212	.0242	.0209	.1857	-.0005	.0004	.0101	.0203	.0003
#2	.0206	-.0034	.0394	.1880	.0003	.0007	.0117	.0199	.0003
#3	.0182	.0255	.0589	.1904	-.0005	.0004	.0130	.0206	.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0010**	**.0004**	**.0108**	**-.0001**	**-.0009**	**.0188**
Stddev	.0002	.0008	.0002	.0016	.0005	.0009	.0010
%RSD	36.56	72.08	50.49	14.94	999.4	101.7	5.273
#1	.0004	.0005	.0006	.0125	-.0006	-.0016	.0192
#2	.0006	.0019	.0002	.0105	.0001	-.0012	.0195
#3	.0009	.0008	.0005	.0093	.0004	.0001	.0177

Zoom In Zoom Out

Sample Name: MP11070-MB1 7 Acquired: 12/6/2018 7:41:56 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104890.**	**19141.**	**4340.4**	**9606.9**
Stddev	194.	146.	10.3	21.5
%RSD	.18518	.76238	.23668	.22419
#1	104690.	19000.	4345.8	9630.4
#2	105080.	19130.	4346.8	9602.0
#3	104900.	19292.	4328.5	9588.2

Zoom In Zoom Out

Sample Name: MP11070-B1 Acquired: 12/6/2018 7:47:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.015**	**1.991**	**2.013**	**1.955**	**2.012**	**1.969**	**2.030**	**1.967**
Stddev	.002	.002	.002	.004	.005	.002	.006	.003
%RSD	.1117	.1025	.0837	.1829	.2468	.1156	.2769	.1262
#1	2.017	1.989	2.013	1.953	2.015	1.970	2.036	1.965
#2	2.013	1.993	2.012	1.954	2.006	1.966	2.025	1.967
#3	2.016	1.991	2.015	1.960	2.014	1.970	2.030	1.970

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2436**	**2.000**	**2.021**	**2.002**	**2.079**	**1.990**	**1.957**	**1.957**
Stddev	.0002	.007	.003	.003	.015	.004	.004	.002
%RSD	.1007	.3275	.1425	.1654	.7400	.1902	.1967	.1144
#1	.2437	2.007	2.019	2.005	2.087	1.993	1.957	1.955
#2	.2433	1.994	2.020	1.999	2.062	1.986	1.954	1.959
#3	.2438	2.001	2.024	2.001	2.090	1.990	1.961	1.957

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.76**	**24.81**	**24.44**	**24.06**	**25.03**	**24.98**	**1.908**	**2.035**
Stddev	.02	.04	.04	.07	.02	.00	.004	.002
%RSD	.0865	.1500	.1676	.3084	.0608	.0168	.2031	.1164
#1	24.75	24.79	24.46	24.01	25.03	24.98	1.904	2.034
#2	24.79	24.85	24.48	24.15	25.04	24.98	1.911	2.035
#3	24.76	24.79	24.40	24.03	25.01	24.99	1.910	2.038

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0801**	**2.084**	**2.026**	**2.156**	**1.984**	**1.992**	F **-.0800**	**.0167**
Stddev	.0005	.015	.003	.006	.003	.003	.0027	.0011
%RSD	.6056	.7208	.1278	.2895	.1586	.1252	3.384	6.627
#1	.0798	2.068	2.028	2.163	1.981	1.993	-.0808	.0156
#2	.0799	2.086	2.023	2.155	1.984	1.989	-.0769	.0169
#3	.0807	2.098	2.026	2.151	1.987	1.993	-.0822	.0178

Zoom In Zoom Out

Sample Name: MP11070-B1 Acquired: 12/6/2018 7:47:10 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0020**	**2.046**
Stddev	.0004	.018
%RSD	17.51	.8760
#1	-.0017	2.054
#2	-.0024	2.025
#3	-.0020	2.058

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100560.**	**19206.**	**4219.2**	**8786.9**
Stddev	120.	49.	9.9	13.9
%RSD	.11974	.25405	.23386	.15775
#1	100610.	19230.	4230.4	8801.5
#2	100650.	19150.	4212.0	8785.4
#3	100420.	19239.	4215.1	8773.9

Zoom In Zoom Out

Sample Name: JC78619-2 Acquired: 12/6/2018 7:52:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4079**	**.0002**	**.0007**	**.0033**	**.0160**	**.0648**	**.0846**	**.0089**	**.0008**
Stddev	.0010	.0000	.0001	.0005	.0012	.0004	.0002	.0003	.0003
%RSD	.2518	16.45	10.34	15.63	7.577	.6911	.2555	3.268	39.55
#1	.4090	.0003	.0006	.0029	.0153	.0653	.0848	.0089	.0008
#2	.4073	.0002	.0008	.0039	.0174	.0646	.0846	.0093	.0005
#3	.4072	.0002	.0007	.0030	.0153	.0645	.0844	.0087	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068**	**3.287**	**.0008**	**.0002**	**.0468**	**.0018**	**.0055**	**3.416**	**9.887**
Stddev	.0001	.006	.0009	.0006	.0012	.0010	.0009	.004	.009
%RSD	2.206	.1785	111.1	288.3	2.547	57.77	15.50	.1143	.0919
#1	.0066	3.289	.0011	-.0001	.0465	.0006	.0064	3.411	9.893
#2	.0067	3.292	-.0002	-.0002	.0458	.0026	.0053	3.417	9.892
#3	.0069	3.281	.0015	.0009	.0481	.0021	.0048	3.418	9.877

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.544**	**.9989**	**1.174**	**.4046**	**.0303**	**.0105**	**3.533**	**.0291**	**.0178**
Stddev	.006	.0269	.013	.0067	.0019	.0015	.006	.0005	.0001
%RSD	.1313	2.697	1.099	1.659	6.161	13.81	.1659	1.632	.5767
#1	4.537	.9848	1.179	.4035	.0291	.0097	3.530	.0295	.0177
#2	4.549	.9819	1.184	.4119	.0325	.0122	3.540	.0292	.0178
#3	4.546	1.030	1.160	.3986	.0294	.0097	3.530	.0286	.0179

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0482**	**.0081**	**.0054**	**9.942**	**-.0008**	**.0058**	**2.224**
Stddev	.0034	.0008	.0003	.058	.0005	.0010	.017
%RSD	7.069	9.578	4.867	.5878	59.91	18.07	.7774
#1	.0521	.0077	.0057	9.995	-.0012	.0052	2.244
#2	.0464	.0090	.0055	9.879	-.0003	.0052	2.211
#3	.0460	.0077	.0051	9.950	-.0009	.0070	2.217

Zoom In Zoom Out

Sample Name: JC78619-2 Acquired: 12/6/2018 7:52:01 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100400.**	**18473.**	**4243.5**	**9256.0**
Stddev	176.	36.	9.8	11.3
%RSD	.17521	.19502	.22993	.12252
#1	100390.	18468.	4232.8	9243.3
#2	100230.	18441.	4252.0	9259.5
#3	100580.	18512.	4245.6	9265.1

Zoom In Zoom Out

Sample Name: JC78732-1 Acquired: 12/6/2018 7:57:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056**	**.0003**	**.0028**	**.0252**	F **167.6**	**.0524**	**.0052**	**.0410**
Stddev	.0001	.0000	.0002	.0002	1.0	.0003	.0002	.0002
%RSD	1.048	13.44	7.616	.9230	.6226	.6318	3.908	.5664
#1	.0056	.0003	.0030	.0254	168.4	.0527	.0054	.0409
#2	.0056	.0003	.0026	.0249	166.4	.0521	.0050	.0409
#3	.0055	.0002	.0028	.0253	167.9	.0523	.0053	.0413

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	*****	F **-.2317**	F **-3.092**	**.0541**	**.0049**	F **-.0139**	**6.082**
Stddev	.0002	-----	.0016	.019	.0014	.0010	.0004	.025
%RSD	5.720	-----	.7021	.6160	2.546	19.90	3.198	.4052
#1	.0032	-----	-.2320	-3.104	.0544	.0038	-.0133	6.066
#2	.0034	-----	-.2331	-3.102	.0526	.0051	-.0141	6.110
#3	.0031	-----	-.2299	-3.070	.0553	.0057	-.0142	6.069

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0648**	**2.538**	**.0496**	**.6003**	**21.34**	F **672.3**	**.9096**	**.0576**
Stddev	.0024	.006	.0006	.0136	.09	3.3	.0051	.0004
%RSD	3.721	.2410	1.133	2.263	.4166	.4973	.5583	.6100
#1	.0658	2.535	.0501	.6051	21.30	668.5	.9091	.0576
#2	.0620	2.546	.0495	.6109	21.45	674.3	.9148	.0579
#3	.0665	2.535	.0490	.5850	21.29	674.3	.9047	.0572

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.416**	F **-.0233**	**.0160**	F **-.0382**	**.0014**	F **-.1201**	F **181.7**	**.3759**
Stddev	.016	.0001	.0001	.0004	.0005	.0004	1.6	.0024
%RSD	.3584	.5049	.7078	1.064	37.89	.3092	.9003	.6289
#1	4.412	-.0232	.0159	-.0383	.0010	-.1204	183.4	.3766
#2	4.433	-.0234	.0161	-.0386	.0020	-.1197	181.5	.3778
#3	4.402	-.0234	.0161	-.0378	.0011	-.1202	180.1	.3732

Zoom In Zoom Out

Sample Name: JC78732-1 Acquired: 12/6/2018 7:57:08 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0024**	**.4216**
Stddev	.0004	.0043
%RSD	14.82	1.012
#1	.0020	.4253
#2	.0025	.4227
#3	.0027	.4169

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**89604.**	**18120.**	**2530.6**	**7682.2**
Stddev	301.	112.	8.5	13.9
%RSD	.33610	.61950	.33408	.18041
#1	89291.	18158.	2528.6	7669.0
#2	89891.	17994.	2523.3	7680.9
#3	89631.	18209.	2539.9	7696.7

Zoom In Zoom Out

Sample Name: JC78732-2 Acquired: 12/6/2018 8:02:28 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0251**	**.0003**	**.0029**	**.0192**	F **95.06**	**.0984**	**.0755**	**.0203**
Stddev	.0000	.0003	.0002	.0002	.55	.0003	.0004	.0001
%RSD	.1683	92.26	8.535	1.112	.5755	.2962	.5335	.6347
#1	.0250	.0007	.0029	.0194	94.48	.0983	.0752	.0203
#2	.0250	.0002	.0031	.0191	95.57	.0987	.0754	.0205
#3	.0251	.0002	.0026	.0191	95.12	.0981	.0760	.0202

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0091**	F **-.0583**	**.0086**	F **-.1846**	F **-.0023**	**.0116**	**.0037**	**.4715**
Stddev	.0009	.0026	.0006	.0138	.0010	.0002	.0030	.0124
%RSD	9.445	4.479	7.246	7.489	43.19	2.032	82.86	2.628
#1	.0085	-.0606	.0079	-.1979	-.0014	.0118	.0068	.4834
#2	.0087	-.0555	.0092	-.1703	-.0033	.0114	.0008	.4586
#3	.0101	-.0587	.0086	-.1855	-.0020	.0117	.0033	.4724

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1438**	**79.57**	**.6317**	**122.8**	**44.74**	F **983.2**	**.9546**	**.0189**
Stddev	.0126	.04	.0049	.3	.08	14.1	.0014	.0002
%RSD	8.751	.0536	.7773	.2505	.1813	1.437	.1509	.9676
#1	.1574	79.52	.6296	122.5	44.77	978.5	.9554	.0191
#2	.1413	79.57	.6283	122.9	44.65	972.1	.9530	.0187
#3	.1326	79.61	.6374	123.1	44.80	999.1	.9555	.0188

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.512**	W **-.0092**	**.6896**	W **-.0085**	**.0470**	**.0316**	F **433.1**	**.0084**
Stddev	.016	.0012	.0010	.0013	.0012	.0003	5.8	.0026
%RSD	.2483	13.26	.1514	15.24	2.465	1.090	1.331	30.26
#1	6.530	-.0106	.6907	-.0093	.0480	.0312	439.0	.0083
#2	6.509	-.0085	.6887	-.0092	.0457	.0318	427.5	.0060
#3	6.498	-.0085	.6895	-.0070	.0472	.0317	432.8	.0111

Zoom In Zoom Out

Sample Name: JC78732-2 Acquired: 12/6/2018 8:02:28 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0220**	**.1581**
Stddev	.0016	.0019
%RSD	7.266	1.180
#1	.0215	.1600
#2	.0207	.1563
#3	.0238	.1580

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**86332.**	**17944.**	**3019.3**	**7188.3**
Stddev	233.	49.	6.4	10.0
%RSD	.26984	.27553	.21259	.13930
#1	86589.	17956.	3018.3	7189.8
#2	86135.	17986.	3013.4	7177.6
#3	86272.	17889.	3026.1	7197.5

Zoom In Zoom Out

Sample Name: JC78732-3 Acquired: 12/6/2018 8:07:51 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1691**	**.0001**	**.0001**	**.0012**	**.5652**	**.0106**	**2.506**	**.0506**
Stddev	.0021	.0001	.0002	.0003	.0020	.0002	.005	.0003
%RSD	1.268	47.01	175.5	22.86	.3545	1.734	.1919	.6589
#1	.1679	.0002	.0000	.0012	.5664	.0108	2.509	.0503
#2	.1716	.0001	-.0000	.0009	.5629	.0105	2.509	.0509
#3	.1679	.0002	.0004	.0014	.5664	.0107	2.500	.0506

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047**	**.1823**	**.0118**	**.2368**	F **-.0080**	**-.0022**	**.0014**	**.0010**
Stddev	.0001	.0005	.0002	.0010	.0029	.0011	.0005	.0016
%RSD	2.608	.2911	2.106	.4012	36.67	50.85	33.59	155.3
#1	.0046	.1829	.0117	.2374	-.0112	-.0033	.0018	-.0008
#2	.0048	.1822	.0117	.2374	-.0054	-.0011	.0014	.0016
#3	.0046	.1818	.0121	.2357	-.0075	-.0022	.0009	.0022

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5679**	**58.95**	**1.870**	**98.30**	**49.21**	F **1430.**	**.8395**	**.0068**
Stddev	.0060	.89	.036	1.59	.69	13.	.0024	.0001
%RSD	1.055	1.511	1.935	1.615	1.402	.9347	.2814	.7595
#1	.5636	58.38	1.845	97.28	48.75	1444.	.8375	.0067
#2	.5747	59.97	1.912	100.1	50.00	1430.	.8388	.0068
#3	.5652	58.48	1.854	97.50	48.89	1417.	.8421	.0067

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.94**	**-.0015**	**.8665**	**.2104**	**.0202**	**.0340**	F **604.2**	**-.0010**
Stddev	.04	.0005	.0113	.0005	.0007	.0002	.9	.0002
%RSD	.2704	36.93	1.304	.2510	3.640	.5884	.1465	22.26
#1	13.92	-.0010	.8609	.2109	.0211	.0341	605.1	-.0010
#2	13.98	-.0021	.8795	.2104	.0198	.0342	604.1	-.0008
#3	13.91	-.0013	.8591	.2099	.0198	.0338	603.4	-.0012

Zoom In Zoom Out

Sample Name: JC78732-3 Acquired: 12/6/2018 8:07:51 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0317**	**2.691**
Stddev	.0009	.007
%RSD	2.951	.2446
#1	.0309	2.695
#2	.0327	2.683
#3	.0315	2.695

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**85904.**	**17843.**	**3679.7**	**7071.4**
Stddev	242.	260.	11.7	9.8
%RSD	.28198	1.4554	.31819	.13798
#1	85629.	18024.	3681.3	7068.5
#2	85997.	17545.	3667.2	7063.5
#3	86086.	17959.	3690.5	7082.3

Zoom In Zoom Out

Sample Name: JC78732-4 Acquired: 12/6/2018 8:13:06 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0819**	**.0001**	**.0068**	**.0935**	F **53.90**	**.2707**	**.2166**	**.1971**
Stddev	.0001	.0000	.0003	.0003	.16	.0010	.0002	.0010
%RSD	.1556	10.99	4.091	.2739	.2969	.3553	.0870	.5168
#1	.0818	.0001	.0066	.0937	54.08	.2702	.2167	.1982
#2	.0820	.0001	.0068	.0935	53.76	.2718	.2166	.1963
#3	.0819	.0000	.0071	.0932	53.88	.2701	.2164	.1968

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	W **-.0144**	**.0793**	F **-.0198**	F **-.0034**	**.0507**	**.0005**	**.0966**
Stddev	.0005	.0006	.0002	.0024	.0010	.0020	.0013	.0070
%RSD	8.562	4.484	.3142	11.92	28.58	3.880	291.8	7.198
#1	.0065	-.0139	.0791	-.0203	-.0023	.0485	-.0007	.0886
#2	.0068	-.0151	.0795	-.0172	-.0041	.0518	.0019	.1012
#3	.0057	-.0142	.0794	-.0218	-.0036	.0520	.0002	.0999

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053**	**117.0**	**.2367**	**80.49**	**35.40**	F **730.2**	**.5471**	**.0178**
Stddev	.0039	.1	.0015	.13	.04	13.9	.0021	.0002
%RSD	74.35	.0581	.6198	.1617	.1093	1.909	.3765	1.278
#1	.0098	117.0	.2351	80.36	35.36	714.6	.5489	.0180
#2	.0037	117.0	.2372	80.62	35.42	741.2	.5449	.0178
#3	.0024	116.9	.2379	80.48	35.43	734.9	.5474	.0176

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.150**	W **-.0050**	**.7122**	W **-.0070**	**.0318**	**.0239**	F **153.4**	**-.0051**
Stddev	.009	.0010	.0011	.0012	.0003	.0003	2.4	.0018
%RSD	.1140	19.90	.1486	16.61	.9936	1.288	1.556	34.17
#1	8.160	-.0062	.7133	-.0069	.0320	.0243	156.1	-.0048
#2	8.148	-.0044	.7121	-.0082	.0318	.0237	151.5	-.0036
#3	8.142	-.0045	.7112	-.0059	.0314	.0238	152.6	-.0071

Zoom In Zoom Out

Sample Name: JC78732-4 Acquired: 12/6/2018 8:13:06 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0046**	**.2635**
Stddev	.0009	.0045
%RSD	18.97	1.706
#1	.0053	.2686
#2	.0036	.2607
#3	.0050	.2610

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**88761.**	**18256.**	**3400.6**	**7381.5**
Stddev	88.	81.	12.4	15.9
%RSD	.09895	.44361	.36383	.21594
#1	88733.	18349.	3407.9	7387.7
#2	88690.	18199.	3386.3	7363.4
#3	88859.	18221.	3407.6	7393.3

Zoom In Zoom Out

Sample Name: JC78732-5 Acquired: 12/6/2018 8:18:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0374**	**.0025**	**.0270**	**.1253**	F **1269.**	**.6069**	**.0606**	**.2093**
Stddev	.0014	.0008	.0012	.0020	4.	.0006	.0006	.0042
%RSD	3.727	32.45	4.306	1.617	.2890	.1052	.9727	1.986
#1	.0359	.0032	.0257	.1276	1265.	.6062	.0608	.2055
#2	.0379	.0026	.0274	.1247	1270.	.6074	.0610	.2137
#3	.0385	.0016	.0280	.1237	1273.	.6071	.0599	.2088

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0189**	*****	F **-1.312**	F **-20.03**	**.3836**	**-.0151**	F **-.1020**	**39.13**
Stddev	.0010	-----	.009	.12	.0065	.0064	.0142	.16
%RSD	5.500	-----	.7058	.5942	1.686	42.45	13.93	.4199
#1	.0193	-----	-1.322	-20.08	.3884	-.0188	-.1179	39.28
#2	.0178	-----	-1.303	-20.12	.3762	-.0077	-.0974	39.15
#3	.0197	-----	-1.311	-19.90	.3862	-.0188	-.0906	38.96

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0652**	**222.9**	**.3295**	**83.00**	**23.90**	**1416.**	**1.177**	**.1211**
Stddev	.0497	.1	.0245	.58	.02	11.	.008	.0009
%RSD	76.25	.0594	7.439	.6965	.0986	.7832	.7154	.7213
#1	-.0271	223.0	.3242	82.72	23.91	1428.	1.183	.1220
#2	-.0471	222.9	.3563	83.67	23.92	1410.	1.181	.1204
#3	-.1214	222.8	.3082	82.62	23.88	1409.	1.167	.1207

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.55**	F **-.1461**	**.7197**	F **-.2884**	**.0167**	F **-.8109**	**371.8**	**2.387**
Stddev	.06	.0146	.0016	.0065	.0203	.0038	3.5	.006
%RSD	.4178	9.967	.2250	2.255	121.2	.4722	.9338	.2435
#1	13.61	-.1564	.7208	-.2853	.0324	-.8064	371.6	2.388
#2	13.52	-.1524	.7178	-.2959	.0240	-.8129	375.4	2.381
#3	13.51	-.1295	.7204	-.2840	-.0062	-.8132	368.4	2.392

Zoom In Zoom Out

Sample Name: JC78732-5 Acquired: 12/6/2018 8:18:27 Type: Unk
Method: SGS 3(v280) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0513**	**-.1758**
Stddev	.0034	.0197
%RSD	6.714	11.22
#1	.0496	-.1694
#2	.0491	-.1979
#3	.0553	-.1601

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**93811.**	**18259.**	**2964.5**	**8223.7**
Stddev	44.	73.	13.7	31.9
%RSD	.04733	.39772	.46240	.38808
#1	93797.	18340.	2950.2	8204.7
#2	93861.	18199.	2977.5	8260.5
#3	93776.	18240.	2965.8	8205.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 8:23:49 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.197**	**2.138**	**2.194**	**2.111**	**2.189**	**2.133**	**2.187**	**2.127**	**.2628**
Stddev	.002	.004	.004	.002	.001	.001	.002	.002	.0004
%RSD	.1046	.1836	.1679	.1018	.0275	.0504	.0776	.0847	.1574
#1	2.199	2.137	2.191	2.112	2.190	2.135	2.188	2.128	.2626
#2	2.198	2.142	2.198	2.109	2.189	2.133	2.187	2.125	.2625
#3	2.195	2.135	2.192	2.113	2.188	2.132	2.185	2.128	.2633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.174**	**2.174**	**2.122**	F **2.248**	**2.158**	**2.150**	**2.022**	**41.55**	**41.24**
Stddev	.001	.002	.004	.009	.001	.002	.003	.08	.07
%RSD	.0407	.0763	.1952	.3848	.0645	.0989	.1258	.1885	.1582
#1	2.175	2.175	2.117	2.240	2.159	2.149	2.022	41.59	41.23
#2	2.173	2.172	2.125	2.257	2.157	2.153	2.024	41.60	41.31
#3	2.174	2.175	2.125	2.246	2.157	2.150	2.019	41.46	41.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				2.000					
Range				10.00%					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.58**	**40.50**	**42.18**	**41.64**	**2.127**	**2.052**	**5.077**	**2.096**	F **2.203**
Stddev	.11	.12	.06	.06	.001	.001	.006	.001	.002
%RSD	.2699	.2875	.1441	.1532	.0259	.0401	.1232	.0685	.0846
#1	40.56	40.40	42.21	41.70	2.128	2.051	5.070	2.094	2.205
#2	40.70	40.63	42.22	41.64	2.127	2.052	5.082	2.096	2.201
#3	40.48	40.46	42.11	41.58	2.127	2.053	5.078	2.097	2.202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value									2.000
Range									10.00%

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/6/2018 8:23:49 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **2.259**	**2.055**	**2.057**	**2.079**	**2.074**	**2.089**	F **2.201**
Stddev	.004	.006	.001	.009	.005	.003	.005
%RSD	.1816	.2732	.0324	.4133	.2400	.1627	.2480
#1	2.261	2.049	2.056	2.070	2.068	2.092	2.195
#2	2.254	2.055	2.058	2.086	2.077	2.085	2.206
#3	2.262	2.061	2.057	2.082	2.077	2.089	2.203
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value	2.000						2.000
Range	10.00%						10.00%

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96010.**	**18392.**	**4053.9**	**8336.1**
Stddev	136.	52.	4.4	14.0
%RSD	.14201	.28340	.10857	.16738
#1	96078.	18420.	4050.9	8322.3
#2	95854.	18331.	4051.9	8335.7
#3	96100.	18423.	4059.0	8350.2

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 8:28:40 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	F **.0008**	F **.0009**	**.0011**	F **.0035**	**.0024**	**.0008**	**.0011**	**.0006**
Stddev	.0000	.0001	.0000	.0002	.0013	.0005	.0001	.0001	.0005
%RSD	9.003	14.45	1.026	19.26	37.68	21.78	12.94	13.49	81.81
#1	.0005	.0007	.0010	.0012	.0020	.0029	.0007	.0011	.0002
#2	.0005	.0009	.0009	.0009	.0040	.0024	.0008	.0009	.0005
#3	.0005	.0007	.0009	.0013	.0045	.0018	.0009	.0012	.0012
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0002	.0007		.0024				
Low Limit		-.0002	-.0007		-.0024				

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0010**	**.0010**	**.0015**	**.0009**	**.0004**	**.0002**	**.0196**	**.0293**
Stddev	.0001	.0001	.0009	.0001	.0005	.0003	.0002	.0113	.0156
%RSD	11.95	13.80	88.07	6.660	56.07	89.94	112.1	57.52	53.13
#1	.0010	.0011	.0000	.0013	.0009	.0008	-.0000	.0139	.0219
#2	.0012	.0008	.0017	.0015	.0004	.0002	.0002	.0326	.0472
#3	.0010	.0010	.0012	.0015	.0014	.0001	.0005	.0124	.0189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0170**	**.0239**	**.0776**	**.1989**	**.0008**	**.0014**	**.0036**	**.0016**	**.0008**
Stddev	.0007	.0026	.0175	.0039	.0002	.0003	.0005	.0001	.0002
%RSD	4.067	10.72	22.57	1.946	19.55	17.86	12.69	5.556	20.63
#1	.0174	.0210	.0967	.1952	.0006	.0017	.0040	.0017	.0006
#2	.0174	.0251	.0739	.1984	.0009	.0015	.0032	.0016	.0009
#3	.0162	.0257	.0622	.2029	.0008	.0011	.0035	.0017	.0007
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.0100								
Low Limit	-.0100								

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/6/2018 8:28:40 Type: QC
Method: SGS 3(v280) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0014**	**.0008**	**.0038**	**.0014**	**.0009**	**-.0026**
Stddev	.0003	.0006	.0001	.0025	.0004	.0013	.0008
%RSD	17.66	43.74	13.09	67.58	30.96	144.8	29.29
#1	.0016	.0019	.0009	.0040	.0009	.0024	-.0020
#2	.0012	.0016	.0007	.0061	.0018	.0001	-.0023
#3	.0015	.0007	.0009	.0011	.0015	.0002	-.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100700.**	**18599.**	**4196.2**	**9307.1**
Stddev	147.	159.	3.9	8.6
%RSD	.14595	.85436	.09300	.09229
#1	100740.	18617.	4193.5	9297.8
#2	100540.	18748.	4194.4	9308.8
#3	100820.	18432.	4200.6	9314.7

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
	Ba 455.403 { 74}	☒	3	Mg	0.000001	0.000000	No
				Al	0.000002	0.000000	No
				Zr	0.000727	0.000000	No
	Be 313.042 {108}	☒	9	V	0.000240	0.000000	No
				Mo	-0.000030	0.000000	No
				Ti	-0.000663	0.000000	No
				Mn	-0.000018	0.000000	No
				Ni	0.000001	0.000000	No
				Ca	-0.000000	0.000000	No
				Cu	0.000014	0.000000	No
				Zn	-0.000010	0.000000	No
				Fe	-0.000002	0.000000	No
	Cd 228.802 {448}	☒	12	As	0.003430	0.000000	No
				Ni	-0.000200	0.000000	No
				Fe	-0.000015	0.000000	No
				V	0.000110	0.000000	No
				Ba	0.000054	0.000000	No
				Co	-0.000347	0.000000	No
				Ca	0.000000	0.000000	No
				Mn	0.000014	0.000000	No
				Cr	-0.000013	0.000000	No
				Cu	0.000024	0.000000	No
				Al	0.000000	0.000000	No
				Mo	0.000004	0.000000	No
	Co 228.616 {448}	☒	9	Fe	-0.000001	0.000000	No
				Cr	-0.000046	0.000000	No
				Mo	-0.001450	0.000000	No
				Ni	0.000084	0.000000	No
				Ti	0.001820	0.000000	No
				W	0.000160	0.000000	No
				Cd	-0.000188	0.000000	No
				Ca	0.000000	0.000000	No
				As	0.000150	0.000000	No
	Cr 267.716 {126}	☒	11	Mn	0.000074	0.000000	No
				Mo	0.000033	0.000000	No
				Fe	-0.000009	0.000000	No
				Cd	-0.000050	0.000000	No
				Al	-0.000000	0.000000	No
				Ca	0.000002	0.000000	No
				Mg	0.000001	0.000000	No
				Ti	0.000050	0.000000	No
				Ba	0.000013	0.000000	No
				Cu	0.000100	0.000000	No
				Sr	-0.000100	0.000000	No
	Cu 324.754 {104}2	☒	17	Cr	0.000000	0.000000	No
				V	-0.000408	0.000000	No
				Mo	0.000572	0.000000	No
				Ti	-0.000060	0.000000	No
				Fe	-0.000122	0.000000	No
				Al	0.000002	0.000000	No
				Sn	-0.000097	0.000000	No
				Co	-0.001290	0.000000	No
				Zr	-0.000500	0.000000	No
				Si	-0.000002	0.000000	No
				Mn	-0.000072	0.000000	No
				Se	0.000050	0.000000	No
				Ag	0.000166	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Sb	0.000024	0.000000	No
			Pb	0.000040	0.000000	No
			Be	-0.000031	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	6	Fe	-0.000105	0.000000	No
			Si	-0.000055	0.000000	No
			Ba	0.000012	0.000000	No
			Ni	0.000028	0.000000	No
			Mo	0.000000	0.000000	No
			Cr	-0.000114	0.000000	No
Ni 231.604 {446}	☒	11	Fe	0.000033	0.000000	No
			Zn	-0.000021	0.000000	No
			Be	-0.000112	0.000000	No
			Co	-0.000227	0.000000	No
			Tl	0.000209	0.000000	No
			V	-0.000032	0.000000	No
			Cu	0.000100	0.000000	No
			Cr	-0.000014	0.000000	No
			Si	-0.000030	0.000000	No
			Sn	0.000079	0.000000	No
			W	0.000830	0.000000	No
Ag 328.068 {103}	☒	15	Mn	0.000091	0.000000	No
			Mo	-0.000054	0.000000	No
			Ti	-0.000595	0.000000	No
			Fe	-0.000315	0.000000	No
			V	-0.000660	0.000000	No
			Zn	0.000057	0.000000	No
			Ca	-0.000004	0.000000	No
			Al	-0.000002	0.000000	No
			Mg	-0.000000	0.000000	No
			Ba	-0.000189	0.000000	No
			Cr	-0.000038	0.000000	No
			Zr	0.004870	0.000000	No
			Sn	-0.000100	0.000000	No
			W	0.000000	0.000000	No
			K	-0.000080	0.000000	No
V 292.402 {115}	☒	7	Ti	0.000776	0.000000	No
			Mo	-0.013200	0.000000	No
			Fe	0.000017	0.000000	No
			Sr	0.000000	0.000000	No
			Cr	-0.002270	0.000000	No
			Mn	-0.001694	0.000000	No
			W	0.000050	0.000000	No
Zn 206.200 {464}	☒	15	Cr	-0.000874	0.000000	No
			Mo	-0.000228	0.000000	No
			Fe	0.000010	0.000000	No
			Al	0.000000	0.000000	No
			Si	0.000065	0.000000	No
			Ba	-0.000060	0.000000	No
			Ca	0.000004	0.000000	No
			Sr	0.000017	0.000000	No
			Sn	0.000069	0.000000	No
			Cu	0.000056	0.000000	No
			As	-0.000050	0.000000	No
			Be	0.000071	0.000000	No
			Bi	-0.000400	0.000000	No
			W	0.000000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ti	0.000030	0.000000	No
As 189.042 {478}	☒	23	Al	0.000008	0.000000	No
			Fe	-0.000154	0.000000	No
			Ca	-0.000002	0.000000	No
			Mn	-0.000010	0.000000	No
			Mo	-0.000300	0.000000	No
			Cr	-0.011170	0.000000	No
			V	0.000052	0.000000	No
			Co	-0.000040	0.000000	No
			W	0.010000	0.000000	No
			Sn	-0.000123	0.000000	No
			Cd	-0.000194	0.000000	No
			Tl	0.000085	0.000000	No
			Be	-0.000017	0.000000	No
			Mg	-0.000001	0.000000	No
			Si	0.000007	0.000000	No
			Zn	0.000070	0.000000	No
			Sr	-0.000080	0.000000	No
			Zr	0.000074	0.000000	No
			Ti	-0.000001	0.000000	No
			Cu	0.000077	0.000000	No
			K	0.000000	0.000000	No
			B	-0.000030	0.000000	No
			S	0.000005	0.000000	No
Tl 190.856 {477}	☒	24	Cr	0.000289	0.000000	No
			Mo	-0.003400	0.000000	No
			Al	-0.000004	0.000000	No
			Fe	-0.000062	0.000000	No
			V	-0.018370	0.000000	No
			Mn	0.001473	0.000000	No
			Si	-0.000016	0.000000	No
			Ca	-0.000003	0.000000	No
			Ti	-0.003560	0.000000	No
			Mg	-0.000000	0.000000	No
			Co	0.005070	0.000000	No
			Sr	-0.000222	0.000000	No
			B	0.000120	0.000000	No
			Ba	0.000110	0.000000	No
			Zn	0.000025	0.000000	No
			As	0.000015	0.000000	No
			Ni	0.000051	0.000000	No
			Cu	-0.000032	0.000000	No
			W	0.000000	0.000000	No
			Sn	-0.000080	0.000000	No
			Se	0.000040	0.000000	No
			S	0.000010	0.000000	No
			K	0.000000	0.000000	No
			P	0.000000	0.000000	No
Pb 220.353 {453}	☒	23	Al	-0.000091	0.000000	No
			Fe	0.000049	0.000000	No
			Ca	-0.000002	0.000000	No
			Mn	0.000145	0.000000	No
			Zn	-0.000036	0.000000	No
			Mo	-0.001670	0.000000	No
			Cu	0.000510	0.000000	No
			V	0.000013	0.000000	No
			Co	0.000156	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Ti	-0.000477	0.000000	No
				Si	0.000034	0.000000	No
				Ba	-0.000012	0.000000	No
				Sb	0.000006	0.000000	No
				Sr	-0.000050	0.000000	No
				W	0.000000	0.000000	No
				Mg	0.000001	0.000000	No
				Cd	0.000476	0.000000	No
				Zr	-0.000300	0.000000	No
				Ni	0.000320	0.000000	No
				S	0.000010	0.000000	No
				Se	0.000036	0.000000	No
				As	0.000200	0.000000	No
				Cr	-0.000150	0.000000	No
	Se 196.090 {472}	☒	22	Al	-0.000000	0.000000	No
				Ca	0.000001	0.000000	No
				Mn	0.000651	0.000000	No
				Mo	0.000277	0.000000	No
				Fe	-0.000204	0.000000	No
				Co	-0.000029	0.000000	No
				V	0.000207	0.000000	No
				Sr	-0.000008	0.000000	No
				Cu	-0.000113	0.000000	No
				W	0.000000	0.000000	No
				Si	0.000157	0.000000	No
				Tl	0.000180	0.000000	No
				Be	-0.000143	0.000000	No
				Zn	-0.000250	0.000000	No
				B	-0.000141	0.000000	No
				Ti	0.000016	0.000000	No
				Cd	0.000090	0.000000	No
				Zr	-0.000280	0.000000	No
				Ba	0.000180	0.000000	No
				Mg	-0.000002	0.000000	No
				Cr	-0.000039	0.000000	No
				S	-0.000003	0.000000	No
	Sb 206.833 {463}	☒	14	Fe	0.000016	0.000000	No
				Al	-0.000005	0.000000	No
				Ca	-0.000006	0.000000	No
				Ni	-0.000477	0.000000	No
				Cr	0.021400	0.000000	No
				V	-0.002500	0.000000	No
				Zn	-0.000200	0.000000	No
				Mo	-0.000500	0.000000	No
				Ti	0.000930	0.000000	No
				Sn	-0.014200	0.000000	No
				Mg	-0.000000	0.000000	No
				Zr	-0.000227	0.000000	No
				Sr	0.000209	0.000000	No
				W	0.000000	0.000000	No
	Al 396.152 { 85}	☒	5	Si	0.000913	0.000000	No
				Ca	0.000078	0.000000	No
				Mo	0.046534	0.000000	No
				Zr	-0.016318	0.000000	No
				Ti	-0.000017	0.000000	No
	Ca 317.933 {106}	☒	13	Fe	0.000130	0.000000	No
				W	0.003960	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Tl	0.004950	0.000000	No
			Be	0.001840	0.000000	No
			Ba	0.003500	0.000000	No
			Cu	-0.001800	0.000000	No
			Cd	0.003700	0.000000	No
			Ni	0.001513	0.000000	No
			B	-0.000210	0.000000	No
			Se	0.002000	0.000000	No
			Co	0.000540	0.000000	No
			Cr	0.000640	0.000000	No
			Al	0.000026	0.000000	No
Fe 259.940 {130}	☒	13	Co	0.000004	0.000000	No
			Si	-0.000100	0.000000	No
			Tl	-0.002590	0.000000	No
			Se	-0.000050	0.000000	No
			Cr	-0.000566	0.000000	No
			Mn	-0.001433	0.000000	No
			V	-0.000064	0.000000	No
			Cu	0.000953	0.000000	No
			K	-0.000200	0.000000	No
			Zn	0.000046	0.000000	No
			Ti	-0.000631	0.000000	No
			Ca	0.000020	0.000000	No
			Ba	0.001000	0.000000	No
Mg 279.079 {121}	☒	1	Mo	-0.020780	0.000000	No
K 766.490 { 44}	☒	11	Fe	-0.000340	0.000000	No
			Al	0.000301	0.000000	No
			Ca	0.000448	0.000000	No
			Mn	0.001430	0.000000	No
			Si	-0.003000	0.000000	No
			V	-0.002000	0.000000	No
			Sn	-0.004700	0.000000	No
			Na	0.000300	0.000000	No
			Mo	-0.000850	0.000000	No
			Cu	-0.010000	0.000000	No
			Mg	0.000400	0.000000	No
Na 589.592 { 57}	☒	5	K	0.000038	0.000000	No
			Ba	0.000900	0.000000	No
			Ca	0.000055	0.000000	No
			Al	0.000040	0.000000	No
			V	-0.005000	0.000000	No
B 208.959 {462}	☒	1	Mo	0.037210	0.000000	No
Mo 202.030 {467}	☒	5	Fe	-0.000010	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	0.000003	0.000000	No
			W	0.000000	0.000000	No
			V	-0.000230	0.000000	No
Si 212.412 {459}	☒	14	Sr	0.000366	0.000000	No
			Ni	0.000106	0.000000	No
			Mo	0.028950	0.000000	No
			Ti	0.006320	0.000000	No
			Al	0.000012	0.000000	No
			Cd	0.001043	0.000000	No
			Ba	0.000170	0.000000	No
			Fe	0.000040	0.000000	No
			Sn	0.002213	0.000000	No
			Zn	0.000385	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			As	-0.000560	0.000000	No
			Pb	0.000471	0.000000	No
			V	0.006165	0.000000	No
			W	-0.025000	0.000000	No
Sn 189.989 {478}	☒	6	Ti	-0.000621	0.000000	No
			Mo	0.000011	0.000000	No
			Fe	0.000005	0.000000	No
			Mn	0.000060	0.000000	No
			Si	0.000089	0.000000	No
			W	-0.010000	0.000000	No
Sr 407.771 { 83}	☒	2	Fe	0.000002	0.000000	No
			Ca	0.000023	0.000000	No
Ti 334.904 {101}	☒	4	Cr	-0.000084	0.000000	No
			Mo	0.001569	0.000000	No
			Si	0.000035	0.000000	No
			Ca	-0.000003	0.000000	No
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Y 224.306 {451}*	☒	None				
In 230.606 {446}*	☒	None				
W 207.911 {462}	☒	25	Al	0.000002	0.000000	No
			Si	-0.000900	0.000000	No
			Fe	-0.000007	0.000000	No
			As	-0.000200	0.000000	No
			Mg	-0.000006	0.000000	No
			Mn	-0.000110	0.000000	No
			Mo	-0.000300	0.000000	No
			Ti	0.000080	0.000000	No
			Sr	-0.000850	0.000000	No
			V	-0.000140	0.000000	No
			Cd	-0.000650	0.000000	No
			Cr	-0.000390	0.000000	No
			Zn	0.012200	0.000000	No
			Sn	0.000078	0.000000	No
			Zr	0.000230	0.000000	No
			B	-0.001000	0.000000	No
			Sb	-0.003000	0.000000	No
			Co	0.000041	0.000000	No
			Ni	-0.000263	0.000000	No
			Be	-0.000130	0.000000	No
			Se	-0.000080	0.000000	No
			Cu	-0.000118	0.000000	No
			Ba	-0.000090	0.000000	No
			Tl	-0.000110	0.000000	No
			Ag	0.000224	0.000000	No
Zr 339.198 { 99}	☒	9	Mo	0.000323	0.000000	No
			Ti	-0.000010	0.000000	No
			Fe	-0.000060	0.000000	No
			Si	0.000070	0.000000	No
			Bi	0.000295	0.000000	No
			Cr	-0.000900	0.000000	No
			V	0.000200	0.000000	No
			W	0.015000	0.000000	No
			Sn	-0.000400	0.000000	No
S 182.034 {485}	☒	11	Ca	0.000151	0.000000	No
			Mo	-0.000040	0.000000	No
			Al	-0.000110	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Fe	-0.000023	0.000000	No
				Mn	0.003900	0.000000	No
				W	0.000000	0.000000	No
				Zn	-0.001538	0.000000	No
				Cr	-0.000200	0.000000	No
				Mg	0.000015	0.000000	No
				Ti	0.000300	0.000000	No
				Li	0.000200	0.000000	No
	Bi 223.061 {451}	☒	9	V	-0.000680	0.000000	No
				Co	-0.002200	0.000000	No
				Ca	-0.000005	0.000000	No
				Mg	-0.000002	0.000000	No
				W	0.000000	0.000000	No
				Cu	-0.001186	0.000000	No
				Fe	0.000022	0.000000	No
				Cr	0.001500	0.000000	No
				Ti	-0.004530	0.000000	No
	Li 670.784 { 50}	☒	1	Ca	0.000051	0.000000	No
	P 177.495 {490}	☒	2	Mn	-0.005600	0.000000	No
				Ca	0.000034	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ba 455.403 { 74}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.004456	1.638262	0.000000	1.000000
	Be 313.042 {108}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000353	1.519177	0.000000	1.000000
	Cd 228.802 {448}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000232	0.829846	0.000000	1.000000
	Co 228.616 {448}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000403	0.524989	0.000000	1.000000
	Cr 267.716 {126}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000027	0.071730	0.000000	1.000000
	Cu 324.754 {104}2	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.004446	0.183562	0.000000	1.000000
	Mn 257.610 {131}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000045	0.380655	0.000000	1.000000
	Ni 231.604 {446}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000080	0.354084	0.000000	1.000000
	Ag 328.068 {103}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000646	0.115992	0.000000	1.000000
	V 292.402 {115}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000060	0.120511	0.000000	1.000000
	Zn 206.200 {464}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000371	1.377129	0.000000	1.000000
	As 189.042 {478}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000155	0.120928	0.000000	1.000000
	Tl 190.856 {477}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000203	0.063704	0.000000	1.000000
	Pb 220.353 {453}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000257	0.183020	0.000000	1.000000
	Se 196.090 {472}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000293	0.106403	0.000000	1.000000
	Sb 206.833 {463}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000275	0.183835	0.000000	1.000000
	Al 396.152 { 85}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.001486	0.034592	0.000000	1.000000
	Ca 317.933 {106}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.005484	0.052467	0.000000	1.000000
	Fe 259.940 {130}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000015	0.022327	0.000000	1.000000
	Mg 279.079 {121}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000003	0.004207	0.000000	1.000000
	K 766.490 { 44}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.002693	0.025494	0.000000	1.000000
	Na 589.592 { 57}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.001006	0.081448	0.000000	1.000000
	B 208.959 {462}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000744	0.229921	0.000000	1.000000
	Mo 202.030 {467}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000179	0.949698	0.000000	1.000000
	Si 212.412 {459}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.005094	0.259175	0.000000	1.000000
	Sn 189.989 {478}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000239	0.224693	0.000000	1.000000
	Sr 407.771 { 83}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000047	2.791626	0.000000	1.000000
	Ti 334.904 {101}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.000011	0.052990	0.000000	1.000000
	Y 360.073 { 94}*	12/6/2018 10:07:50	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	12/6/2018 10:07:50	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 224.306 {451}*	12/6/2018 10:07:50	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	In 230.606 {446}*	12/6/2018 10:07:50	12/23/2009 10:44:16	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	W 207.911 {462}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.001574	0.463244	0.000000	1.000000
	Zr 339.198 { 99}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000148	0.328563	0.000000	1.000000
	S 182.034 {485}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.000893	0.058962	0.000000	1.000000
	Bi 223.061 {451}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.001288	0.210852	0.000000	1.000000
	Li 670.784 { 50}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	0.001579	0.571172	0.000000	1.000000
	P 177.495 {490}	12/6/2018 10:07:50	12/5/2018 19:19:18	Linear	1/Conc	-0.006394	0.128578	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ba 455.403 { 74}	1.000000	0.000000	0.000212	0.000706	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000079	0.000262	OK.	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000226	0.000755	OK.	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000266	0.000885	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000419	0.001397	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000405	0.001352	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000067	0.000223	OK.	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000340	0.001133	OK.	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000457	0.001524	OK.	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000346	0.001152	OK.	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000129	0.000429	OK.	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.001388	0.004627	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.001142	0.003805	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.000996	0.003319	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.001795	0.005985	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.001302	0.004341	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	1.000000	0.000000	0.009225	0.030750	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.002837	0.009458	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.002915	0.009716	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.020762	0.069207	OK.	1.000000	0.000000	1	0
K 766.490 { 44}	1.000000	0.000000	0.026623	0.088744	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	1.000000	0.000000	0.007997	0.026657	OK.	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000678	0.002259	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000220	0.000734	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000901	0.003003	OK.	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000606	0.002019	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	1.000000	0.000000	0.000091	0.000305	OK.	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000862	0.002873	OK.	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
Y 224.306 {451}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
W 207.911 {462}	1.000000	0.000000	0.000904	0.003012	OK.	1.000000	0.000000	1	0
Zr 339.198 { 99}	1.000000	0.000000	0.000190	0.000634	OK.	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.002514	0.008380	OK.	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.001463	0.004877	OK.	1.000000	0.000000	1	0
Li 670.784 { 50}	1.000000	0.000000	0.001193	0.003978	OK.	1.000000	0.000000	1	0
P 177.495 {490}	1.000000	0.000000	0.001194	0.003980	OK.	1.000000	0.000000	1	0

Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 12/6/2018 10:39:56 Type: Cal
Method: SGS NO VALVE3(v72) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0011**	**.0006**	**.0005**	**-.0000**	**.0001**	**.0077**	**.0000**	**-.0007**	**-.0017**
Stddev	.0003	.0001	.0002	.0000	.0001	.0001	.0000	.0000	.0001
%RSD	22.96	20.38	29.30	72.90	67.15	1.938	24.88	7.278	3.144
#1	-.0014	.0006	.0004	-.0000	.0001	.0077	.0000	-.0007	-.0017
#2	-.0010	.0004	.0007	-.0001	.0001	.0078	.0000	-.0007	-.0016
#3	-.0009	.0006	.0004	-.0000	.0000	.0075	.0000	-.0006	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**.0007**	**-.0012**	**-.0004**	**-.0002**	**.0004**	**-.0011**	**.0006**	**.0105**
Stddev	.0000	.0001	.0001	.0000	.0001	.0001	.0000	.0006	.0001
%RSD	33.99	7.924	8.841	11.76	36.11	25.35	4.393	103.4	.6852
#1	.0001	.0007	-.0011	-.0004	-.0003	.0004	-.0011	-.0001	.0104
#2	.0001	.0008	-.0013	-.0004	-.0003	.0005	-.0011	.0008	.0105
#3	.0001	.0007	-.0012	-.0003	-.0001	.0003	-.0011	.0011	.0105

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0003**	**-.0001**	**.0360**	**-.0201**	**.0002**	**.0004**	**.0046**	**.0002**	**-.0012**
Stddev	.0001	.0001	.0009	.0015	.0000	.0001	.0001	.0000	.0003
%RSD	41.88	77.24	2.430	7.291	18.01	22.62	1.996	15.44	26.49
#1	.0002	-.0002	.0352	-.0186	.0002	.0004	.0047	.0002	-.0015
#2	.0002	-.0000	.0360	-.0215	.0002	.0005	.0045	.0002	-.0008
#3	.0004	-.0002	.0369	-.0202	.0003	.0003	.0046	.0002	-.0012

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0005**	**.0011**	**-.0004**	**-.0012**	**-.0007**	**.0213**	**-.0059**
Stddev	.0000	.0003	.0000	.0000	.0003	.0027	.0000
%RSD	8.486	30.98	3.846	3.442	38.69	12.60	.7841
#1	-.0005	.0009	-.0004	-.0013	-.0009	.0182	-.0059
#2	-.0006	.0009	-.0004	-.0012	-.0004	.0223	-.0060
#3	-.0005	.0015	-.0004	-.0012	-.0007	.0232	-.0059

◀ Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 12/6/2018 10:39:56 Type: Cal
Method: SGS NO VALVE3(v72) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109140.**	**4567.9**	**4170.7**	**9642.3**
Stddev	1248.	18.8	6.6	14.8
%RSD	1.1433	.41095	.15729	.15387
#1	108920.	4565.1	4177.5	9656.1
#2	108010.	4550.7	4170.3	9644.2
#3	110480.	4587.9	4164.4	9626.6

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 12/6/2018 10:45:24 Type: Cal
Method: SGS NO VALVE3(v72) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.20**	**17.23**	**4.777**	**1.894**	**.6308**	**1.538**	**1.640**	**1.400**	**.1095**
Stddev	.03	.03	.025	.010	.0032	.010	.009	.008	.0007
%RSD	.2313	.1656	.5170	.5229	.5054	.6318	.5765	.5444	.6429
#1	14.23	17.26	4.750	1.884	.6341	1.548	1.651	1.392	.1103
#2	14.19	17.21	4.799	1.904	.6305	1.535	1.636	1.407	.1094
#3	14.17	17.23	4.781	1.895	.6277	1.530	1.634	1.401	.1089

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.9878**	**4.353**	**.6411**	**.1945**	**.5282**	**.4906**	**.8049**	**4.695**	**6.678**
Stddev	.0055	.031	.0031	.0011	.0031	.0024	.0033	.008	.018
%RSD	.5583	.7077	.4809	.5472	.5819	.4873	.4055	.1799	.2676
#1	.9939	4.319	.6377	.1934	.5249	.4878	.8013	4.703	6.685
#2	.9866	4.380	.6438	.1955	.5310	.4921	.8076	4.686	6.658
#3	.9830	4.360	.6418	.1946	.5285	.4918	.8059	4.697	6.691

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.787**	**.7005**	**8.080**	**27.29**	**1.106**	**3.155**	**2.567**	**.6538**	**9.416**
Stddev	.008	.0022	.012	.06	.006	.014	.012	.0035	.028
%RSD	.2104	.3186	.1477	.2205	.5320	.4543	.4810	.5410	.2980
#1	3.791	.7015	8.094	27.36	1.099	3.139	2.554	.6498	9.446
#2	3.778	.6979	8.075	27.26	1.111	3.166	2.578	.6567	9.411
#3	3.791	.7019	8.072	27.25	1.107	3.160	2.570	.6547	9.390

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.094**	**1.460**	**2.339**	**.4138**	**1.029**	**12.85**	**.8311**
Stddev	.007	.007	.018	.0022	.004	.03	.0045
%RSD	.6000	.4914	.7799	.5338	.4018	.2671	.5404
#1	1.101	1.452	2.355	.4114	1.024	12.88	.8264
#2	1.093	1.466	2.342	.4158	1.032	12.85	.8354
#3	1.088	1.462	2.319	.4141	1.032	12.82	.8315

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 12/6/2018 10:45:24 Type: Cal
Method: SGS NO VALVE3(v72) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103870.**	**4445.5**	**4089.8**	**9610.7**
Stddev	536.	24.6	15.9	37.7
%RSD	.51603	.55383	.38805	.39248
#1	103310.	4448.2	4107.5	9649.3
#2	103920.	4468.7	4076.8	9573.9
#3	104380.	4419.7	4085.2	9608.8

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 12/6/2018 10:50:44 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.996**	**2.036**	**1.956**	**1.985**	**2.017**	**1.960**	**2.036**	**1.998**	**.2469**
Stddev	.009	.011	.002	.002	.023	.017	.033	.002	.0024
%RSD	.4270	.5183	.1244	.1141	1.130	.8783	1.604	.1125	.9848
#1	2.005	2.048	1.958	1.986	1.992	1.944	2.002	2.000	.2445
#2	1.989	2.034	1.956	1.983	2.037	1.978	2.067	1.996	.2494
#3	1.993	2.027	1.953	1.987	2.020	1.958	2.039	2.000	.2469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.998**	**1.974**	**1.920**	**2.022**	**2.001**	**1.886**	**1.963**	**39.89**	**40.31**
Stddev	.020	.002	.004	.003	.008	.005	.003	.09	.28
%RSD	1.001	.1086	.1882	.1567	.3965	.2633	.1563	.2367	.6914
#1	1.977	1.976	1.916	2.026	2.010	1.891	1.963	39.99	40.59
#2	2.017	1.972	1.923	2.020	1.994	1.883	1.967	39.80	40.30
#3	1.999	1.974	1.919	2.020	1.999	1.882	1.961	39.88	40.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.26**	**39.78**	**39.43**	**39.75**	**1.926**	**2.021**	**5.031**	**2.008**	**2.013**
Stddev	.26	.24	.15	.14	.003	.003	.012	.002	.010
%RSD	.6552	.6069	.3905	.3473	.1394	.1480	.2426	.0890	.4768
#1	40.56	39.98	39.61	39.90	1.929	2.023	5.041	2.010	2.024
#2	40.16	39.86	39.34	39.63	1.925	2.022	5.036	2.006	2.006
#3	40.07	39.51	39.34	39.70	1.924	2.017	5.017	2.009	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 12/6/2018 10:50:44 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.010**	**1.988**	**2.024**	**1.866**	**1.946**	**2.032**	**1.903**
Stddev	.020	.003	.018	.005	.004	.010	.002
%RSD	.9927	.1380	.9094	.2466	.2061	.5025	.0856
#1	1.990	1.991	2.006	1.867	1.949	2.043	1.904
#2	2.030	1.986	2.043	1.870	1.947	2.024	1.904
#3	2.011	1.987	2.023	1.861	1.941	2.028	1.901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106770.**	**4422.4**	**4327.4**	**10117.**
Stddev	1167.	9.5	8.6	12.
%RSD	1.0928	.21549	.19944	.11494
#1	107970.	4411.8	4324.6	10112.
#2	105640.	4430.2	4320.4	10109.
#3	106700.	4425.2	4337.0	10130.

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 12/6/2018 10:55:57 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0000**	**.0002**	**.0003**	**-.0001**	**-.0005**	**-.0000**	**.0001**	**-.0001**
Stddev	.0002	.0001	.0001	.0004	.0002	.0001	.0000	.0002	.0002
%RSD	103.8	265.3	82.66	152.1	405.9	23.87	51.79	133.8	404.9
#1	.0000	-.0001	.0003	-.0002	-.0003	-.0006	-.0000	.0001	-.0003
#2	.0004	-.0000	.0002	.0006	-.0001	-.0005	-.0000	.0003	.0002
#3	.0001	.0000	.0000	.0004	.0002	-.0004	-.0000	-.0000	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0002**	**.0002**	**-.0004**	**.0003**	**-.0000**	**.0012**	**-.0045**	**-.0024**
Stddev	.0002	.0002	.0001	.0006	.0013	.0008	.0019	.0133	.0039
%RSD	258.9	85.77	24.08	165.4	484.7	1607.	151.1	293.5	164.1
#1	.0003	-.0003	.0003	.0003	-.0011	.0001	-.0002	.0043	.0001
#2	-.0001	-.0002	.0002	-.0006	.0005	.0007	.0034	-.0198	-.0004
#3	.0001	-.0000	.0002	-.0009	.0015	-.0009	.0005	.0020	-.0069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0087**	**.0474**	**.0235**	**.0044**	F **.0044**	**.0009**	**-.0003**	**-.0001**
Stddev	.0057	.0118	.0199	.0094	.0004	.0004	.0011	.0004	.0002
%RSD	1489.	135.1	41.90	40.11	9.616	8.522	116.3	139.8	456.7
#1	-.0017	.0223	.0640	.0341	.0047	.0048	.0021	-.0006	-.0002
#2	-.0053	.0032	.0254	.0163	.0045	.0043	.0004	-.0002	.0002
#3	.0059	.0008	.0530	.0199	.0039	.0041	.0002	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 12/6/2018 10:55:57 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0036**	**.0002**	**.0001**	**-.0003**	**.0020**	**.0006**
Stddev	.0001	.0012	.0000	.0014	.0007	.0004	.0002
%RSD	176.0	33.41	21.67	1824.	226.7	21.03	34.31
#1	.0002	.0050	.0003	-.0002	.0005	.0018	.0005
#2	-.0001	.0032	.0002	.0016	-.0007	.0017	.0009
#3	.0001	.0027	.0002	-.0011	-.0008	.0024	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108770.**	**4646.0**	**4228.8**	**9769.1**
Stddev	357.	20.4	8.2	21.0
%RSD	.32799	.43945	.19357	.21537
#1	109130.	4631.5	4220.4	9757.9
#2	108750.	4669.3	4236.7	9793.4
#3	108420.	4637.0	4229.2	9756.1

Zoom In Zoom Out

Sample Name: jc78814-3aundconf Acquired: 12/6/2018 11:01:28 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104**	**.0000**	**-.0001**	**.0005**	**.0001**	**.0003**	**.0043**	**.0022**	**.0002**
Stddev	.0003	.0000	.0001	.0002	.0002	.0001	.0000	.0003	.0002
%RSD	2.748	93.75	141.2	41.93	135.1	28.68	.9142	11.63	138.0
#1	.0107	.0001	-.0001	.0003	.0003	.0002	.0044	.0019	.0000
#2	.0101	.0000	-.0002	.0005	.0001	.0003	.0043	.0024	.0000
#3	.0105	.0000	.0000	.0006	-.0000	.0004	.0043	.0023	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.1358**	**.0040**	**.0064**	**.0016**	**-.0035**	**-.0020**	**.0043**	**4.765**
Stddev	.0002	.0007	.0007	.0011	.0004	.0005	.0012	.0045	.025
%RSD	1279.	.4923	18.04	17.17	25.40	14.96	58.77	106.1	.5153
#1	.0000	.1352	.0044	.0052	.0020	-.0029	-.0032	.0074	4.736
#2	-.0002	.1356	.0032	.0074	.0012	-.0036	-.0009	.0063	4.779
#3	.0001	.1365	.0044	.0065	.0016	-.0040	-.0019	-.0009	4.778

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.8187**	**.0914**	**.3154**	**.0043**	**.0009**	**.6949**	**-.0017**	**.0163**
Stddev	.0033	.0258	.0143	.0068	.0007	.0002	.0017	.0006	.0002
%RSD	246.9	3.153	15.60	2.155	15.34	21.33	.2417	36.70	1.314
#1	-.0043	.8058	.0981	.3226	.0036	.0008	.6940	-.0013	.0161
#2	.0022	.8018	.0750	.3147	.0048	.0012	.6939	-.0025	.0163
#3	-.0018	.8484	.1010	.3090	.0046	.0008	.6969	-.0014	.0166

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0016**	**-.0001**	**.0339**	**.0037**	**-.0013**	**.0089**
Stddev	.0002	.0004	.0001	.0011	.0013	.0005	.0009
%RSD	27.34	25.09	48.43	3.375	34.33	42.90	9.656
#1	.0009	.0020	-.0001	.0346	.0048	-.0018	.0098
#2	.0006	.0015	-.0001	.0345	.0023	-.0007	.0088
#3	.0005	.0012	-.0002	.0326	.0040	-.0013	.0081

Zoom In Zoom Out

Sample Name: jc78814-3aundconf Acquired: 12/6/2018 11:01:28 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**111060.**	**4649.7**	**4325.3**	**10061.**
Stddev	164.	14.4	1.9	10.
%RSD	.14776	.30884	.04344	.10073
#1	111030.	4661.7	4326.0	10066.
#2	110910.	4653.6	4326.8	10067.
#3	111240.	4633.8	4323.2	10049.

Zoom In Zoom Out

Sample Name: mp11070-mb1conf Acquired: 12/6/2018 11:06:52 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0000**	**.0002**	**-.0000**	**.0011**	**.0004**	**.0002**	**.0007**	**-.0000**
Stddev	.0002	.0000	.0000	.0001	.0002	.0002	.0000	.0002	.0001
%RSD	85.55	71.53	3.927	118.6	22.00	39.64	12.37	31.12	329.5
#1	.0004	-.0001	.0002	.0000	.0014	.0006	.0002	.0005	-.0001
#2	.0001	-.0000	.0002	-.0001	.0009	.0004	.0002	.0006	.0001
#3	.0001	-.0001	.0002	-.0001	.0010	.0003	.0003	.0009	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0035**	**-.0005**	**.0001**	**.0003**	**.0009**	**.0013**	**.0131**	**.0807**
Stddev	.0001	.0000	.0003	.0009	.0003	.0012	.0004	.0071	.0029
%RSD	79.60	.8228	62.47	1403.	84.57	125.9	32.35	54.03	3.566
#1	.0000	.0035	-.0008	.0009	.0005	.0001	.0009	.0212	.0775
#2	.0002	.0035	-.0006	-.0010	.0000	.0004	.0013	.0079	.0817
#3	.0001	.0035	-.0002	.0003	.0004	.0022	.0018	.0103	.0830

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0154**	**.0259**	**.0416**	**.0500**	**.0022**	**.0017**	**.0066**	**.0184**	**.0003**
Stddev	.0027	.0123	.0107	.0047	.0000	.0002	.0005	.0001	.0000
%RSD	17.42	47.62	25.72	9.457	2.195	13.08	8.083	.7227	13.25
#1	.0164	.0374	.0526	.0498	.0022	.0018	.0068	.0183	.0003
#2	.0124	.0128	.0410	.0454	.0022	.0014	.0071	.0185	.0004
#3	.0176	.0276	.0312	.0549	.0023	.0018	.0060	.0184	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0020**	**.0005**	**.0121**	**-.0006**	**.0002**	**.0216**
Stddev	.0003	.0008	.0001	.0016	.0009	.0003	.0008
%RSD	58.77	41.47	13.39	13.20	145.5	150.3	3.611
#1	.0003	.0014	.0004	.0138	.0000	.0006	.0225
#2	.0008	.0016	.0005	.0106	-.0016	.0002	.0211
#3	.0003	.0030	.0004	.0119	-.0002	-.0001	.0211

Zoom In Zoom Out

Sample Name: mp11070-mb1conf Acquired: 12/6/2018 11:06:52 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108480.**	**4496.1**	**4305.2**	**10050.**
Stddev	897.	24.5	13.1	12.
%RSD	.82681	.54529	.30345	.11848
#1	107570.	4509.7	4291.8	10037.
#2	108500.	4467.8	4306.0	10055.
#3	109360.	4510.8	4317.9	10059.

Zoom In Zoom Out

Sample Name: emptyconf Acquired: 12/6/2018 11:12:23 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0003**	**-.0003**	**.0001**	**-.0005**	*****	**-.0001**	**.0013**	**-.0017**
Stddev	.0003	.0000	.0000	.0001	.0001	-----	.0000	.0002	.0001
%RSD	455.4	1.877	4.075	99.08	12.34	-----	4.039	11.98	3.858
#1	.0001	-.0003	-.0003	.0001	-.0005	-----	-.0001	.0015	-.0017
#2	.0001	-.0003	-.0003	.0000	-.0006	-----	-.0001	.0011	-.0016
#3	-.0003	-.0003	-.0003	.0000	-.0005	-----	-.0001	.0013	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0006**	**.0059**	**.0050**	**.0018**	**-.0026**	**.0039**	**-.0059**	**-.0116**
Stddev	.0000	.0000	.0002	.0002	.0003	.0003	.0003	.0013	.0006
%RSD	27.09	3.608	3.435	4.067	15.59	13.15	6.605	21.54	5.307
#1	-.0001	-.0006	.0061	.0048	.0021	-.0029	.0038	-.0044	-.0110
#2	-.0002	-.0006	.0057	.0051	.0015	-.0023	.0042	-.0066	-.0122
#3	-.0002	-.0006	.0058	.0052	.0018	-.0027	.0038	-.0066	-.0118

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0036**	**.0052**	**-.2071**	**.0182**	**.0001**	**-.0003**	**-.0135**	**-.0011**	**.0002**
Stddev	.0010	.0102	.0036	.0028	.0001	.0000	.0001	.0001	.0001
%RSD	27.25	196.8	1.735	15.35	73.22	9.601	1.062	7.706	39.13
#1	-.0030	.0053	-.2039	.0150	.0000	-.0003	-.0137	-.0012	.0003
#2	-.0030	.0154	-.2110	.0201	.0002	-.0003	-.0134	-.0011	.0001
#3	-.0047	-.0051	-.2066	.0195	.0001	-.0004	-.0135	-.0010	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0022**	**.0004**	**.0097**	**.0012**	**-.0045**	**-.0037**
Stddev	.0001	.0004	.0000	.0002	.0002	.0002	.0002
%RSD	5.981	15.71	10.71	1.631	20.08	3.673	4.936
#1	.0009	-.0022	.0004	.0096	.0009	-.0047	-.0035
#2	.0009	-.0019	.0004	.0097	.0014	-.0044	-.0039
#3	.0010	-.0026	.0004	.0099	.0013	-.0044	-.0036

Zoom In Zoom Out

Sample Name: emptyconf Acquired: 12/6/2018 11:12:23 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**425150.**	**15098.**	**20867.**	**44221.**
Stddev	3985.	28.	44.	104.
%RSD	.93739	.18216	.21154	.23513
#1	421810.	15122.	20895.	44292.
#2	429560.	15103.	20890.	44271.
#3	424070.	15068.	20816.	44102.

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 12/6/2018 11:18:43 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.018**	**2.077**	**1.976**	**1.994**	**2.063**	**2.006**	**2.067**	**2.015**	**.2536**
Stddev	.003	.003	.003	.004	.010	.006	.008	.003	.0006
%RSD	.1367	.1206	.1611	.1955	.4795	.2821	.3819	.1583	.2556
#1	2.020	2.080	1.978	1.999	2.068	2.012	2.075	2.019	.2538
#2	2.018	2.076	1.977	1.993	2.052	2.002	2.059	2.013	.2529
#3	2.015	2.076	1.972	1.992	2.070	2.004	2.067	2.014	.2542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.045**	**1.991**	**1.950**	**2.040**	**2.012**	**1.915**	**1.976**	**40.11**	**40.21**
Stddev	.007	.002	.004	.002	.005	.002	.005	.03	.05
%RSD	.3553	.1198	.2256	.0897	.2513	.1200	.2465	.0657	.1152
#1	2.050	1.993	1.955	2.042	2.018	1.917	1.980	40.13	40.23
#2	2.037	1.990	1.948	2.038	2.010	1.913	1.977	40.08	40.15
#3	2.048	1.989	1.947	2.039	2.009	1.915	1.971	40.12	40.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.08**	**39.72**	**39.60**	**39.97**	**1.951**	**2.013**	**5.118**	**2.006**	**2.036**
Stddev	.03	.11	.06	.08	.005	.004	.006	.001	.004
%RSD	.0829	.2751	.1583	.2011	.2788	.1747	.1088	.0491	.1782
#1	40.05	39.63	39.59	40.06	1.954	2.015	5.118	2.007	2.040
#2	40.11	39.69	39.54	39.95	1.954	2.015	5.124	2.007	2.034
#3	40.08	39.84	39.67	39.91	1.945	2.009	5.113	2.005	2.033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 12/6/2018 11:18:43 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.047**	**1.997**	**2.049**	F **1.868**	**1.929**	**2.032**	**1.937**
Stddev	.006	.005	.006	.002	.004	.005	.002
%RSD	.2927	.2335	.3062	.1074	.1868	.2633	.1252
#1	2.053	2.002	2.056	1.870	1.933	2.038	1.938
#2	2.041	1.995	2.043	1.866	1.929	2.029	1.940
#3	2.048	1.993	2.050	1.867	1.926	2.029	1.935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value				2.000			
Range				-5.000%			

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104290.**	**4305.9**	**4270.8**	**10021.**
Stddev	293.	14.5	6.4	9.
%RSD	.28113	.33777	.15051	.08555
#1	104000.	4314.1	4268.4	10012.
#2	104580.	4314.5	4265.9	10023.
#3	104300.	4289.1	4278.1	10029.

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 12/6/2018 11:23:56 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0000**	**.0001**	**.0003**	**-.0001**	**-.0005**	**-.0000**	**.0003**	**.0001**
Stddev	.0004	.0001	.0001	.0001	.0001	.0001	.0000	.0003	.0001
%RSD	423.7	323.4	135.9	39.42	94.47	26.05	126.3	110.9	61.27
#1	.0003	-.0001	-.0000	.0002	.0000	-.0006	-.0000	.0003	.0000
#2	-.0003	.0000	.0002	.0004	-.0002	-.0006	.0000	-.0000	.0001
#3	-.0002	.0000	.0000	.0002	-.0002	-.0004	-.0000	.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0002**	**-.0002**	**.0002**	**.0001**	**-.0004**	**.0001**	**.0066**	**-.0055**
Stddev	.0001	.0001	.0007	.0006	.0014	.0019	.0003	.0065	.0021
%RSD	1009.	69.23	474.0	279.4	1385.	499.0	203.0	99.04	37.93
#1	-.0001	-.0001	-.0010	-.0003	-.0013	-.0001	.0000	.0051	-.0062
#2	.0001	-.0001	.0002	.0008	.0014	-.0024	-.0001	.0137	-.0031
#3	.0001	-.0003	.0003	.0000	.0002	.0013	.0005	.0010	-.0070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.0178**	**.0262**	**.0125**	**.0028**	F **.0034**	**.0011**	**.0000**	**-.0000**
Stddev	.0035	.0078	.0136	.0012	.0005	.0002	.0009	.0007	.0000
%RSD	200.8	44.10	51.79	9.805	17.54	5.426	75.77	2364.	124.4
#1	.0022	.0225	.0237	.0130	.0034	.0036	.0014	-.0007	.0000
#2	-.0042	.0087	.0409	.0111	.0024	.0032	.0018	.0002	-.0000
#3	-.0033	.0222	.0141	.0134	.0026	.0034	.0002	.0006	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 12/6/2018 11:23:56 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0014**	**.0001**	**.0006**	**-.0003**	**.0011**	**.0008**
Stddev	.0002	.0004	.0000	.0019	.0003	.0005	.0005
%RSD	816.0	31.27	23.65	296.8	109.9	42.72	59.42
#1	-.0002	.0009	.0001	.0021	-.0005	.0016	.0013
#2	.0001	.0013	.0001	.0013	-.0005	.0012	.0004
#3	.0002	.0018	.0001	-.0015	.0001	.0006	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107890.**	**4540.7**	**4146.9**	**9576.1**
Stddev	446.	9.6	9.3	17.9
%RSD	.41367	.21123	.22358	.18700
#1	107840.	4539.3	4137.0	9555.4
#2	107480.	4550.9	4155.3	9586.9
#3	108360.	4531.8	4148.4	9585.9

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 12/6/2018 11:30:09 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.009**	**2.070**	**1.972**	**1.998**	**2.052**	**2.000**	**2.076**	**2.011**	**.2510**
Stddev	.007	.008	.003	.001	.010	.009	.015	.002	.0009
%RSD	.3312	.3761	.1553	.0657	.5027	.4667	.7247	.0779	.3551
#1	2.004	2.064	1.971	1.999	2.052	2.004	2.085	2.012	.2511
#2	2.004	2.064	1.970	1.996	2.060	2.003	2.089	2.010	.2511
#3	2.013	2.080	1.977	1.998	2.037	1.986	2.055	2.012	.2498
#4	2.017	2.073	1.971	1.997	2.058	2.006	2.075	2.009	.2520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.033**	**1.984**	**1.944**	**2.037**	**2.014**	**1.906**	**1.980**	**40.54**	**40.73**
Stddev	.011	.002	.003	.004	.001	.003	.005	.14	.26
%RSD	.5485	.1065	.1725	.1861	.0626	.1529	.2690	.3551	.6416
#1	2.034	1.985	1.944	2.032	2.016	1.905	1.976	40.42	40.42
#2	2.040	1.982	1.940	2.037	2.014	1.907	1.980	40.43	40.62
#3	2.017	1.987	1.948	2.039	2.015	1.908	1.988	40.73	41.00
#4	2.040	1.983	1.945	2.041	2.013	1.902	1.977	40.57	40.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 12/6/2018 11:30:09 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.53**	**40.09**	**39.97**	**40.36**	**1.949**	**2.032**	**5.070**	**2.017**	**2.033**
Stddev	.25	.30	.18	.14	.003	.003	.004	.003	.007
%RSD	.6286	.7423	.4490	.3489	.1392	.1691	.0843	.1543	.3228
#1	40.33	39.73	39.79	40.25	1.946	2.029	5.065	2.018	2.027
#2	40.39	39.95	39.84	40.24	1.952	2.030	5.069	2.013	2.028
#3	40.90	40.31	40.09	40.52	1.950	2.036	5.072	2.019	2.036
#4	40.52	40.36	40.15	40.45	1.948	2.033	5.075	2.019	2.041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.048**	**1.997**	**2.067**	**1.895**	**1.958**	**2.071**	**1.922**
Stddev	.011	.002	.010	.003	.002	.006	.002
%RSD	.5228	.0830	.4808	.1771	.0883	.2825	.0940
#1	2.049	1.996	2.069	1.891	1.958	2.068	1.919
#2	2.055	1.996	2.074	1.899	1.956	2.063	1.922
#3	2.033	1.998	2.052	1.896	1.960	2.075	1.922
#4	2.056	1.999	2.072	1.896	1.958	2.075	1.923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 12/6/2018 11:30:09 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104520.**	**4315.4**	**4286.9**	**10022.**
Stddev	602.	31.5	9.2	15.
%RSD	.57612	.72951	.21442	.15009
#1	104140.	4347.8	4289.9	10019.
#2	104120.	4332.4	4294.7	10034.
#3	105400.	4276.4	4273.5	10002.
#4	104420.	4304.8	4289.3	10032.

Zoom In Zoom Out

Sample Name: ccb 7 Acquired: 12/6/2018 11:38:51 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0000**	**.0003**	**.0001**	**-.0002**	**-.0005**	**-.0000**	**.0002**	**.0001**
Stddev	.0002	.0000	.0001	.0002	.0001	.0001	.0000	.0004	.0002
%RSD	91.89	139.8	39.53	259.6	92.31	27.66	87.97	167.9	269.4
#1	-.0004	-.0000	.0003	.0003	.0000	-.0006	-.0000	-.0001	.0000
#2	-.0000	.0001	.0002	-.0001	-.0002	-.0004	-.0000	.0001	-.0001
#3	-.0002	.0000	.0005	.0001	-.0003	-.0004	-.0000	.0007	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0002**	**.0005**	**-.0013**	**.0004**	**.0003**	**.0005**	**-.0017**	**-.0051**
Stddev	.0001	.0001	.0008	.0007	.0009	.0017	.0004	.0090	.0023
%RSD	116.6	66.11	168.2	53.46	215.7	642.0	81.17	542.1	46.37
#1	.0003	-.0002	.0011	-.0009	.0014	-.0009	.0007	-.0120	-.0058
#2	.0001	-.0001	.0006	-.0022	.0002	-.0005	.0007	.0025	-.0024
#3	-.0000	-.0003	-.0004	-.0010	-.0003	.0022	.0000	.0045	-.0069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0112**	**.0584**	**.0211**	**.0037**	F **.0027**	**.0016**	**.0000**	**-.0000**
Stddev	.0059	.0117	.0187	.0052	.0001	.0003	.0002	.0008	.0000
%RSD	555.8	104.7	32.05	24.59	3.287	12.64	12.04	2607.	118.2
#1	-.0013	.0225	.0795	.0194	.0037	.0028	.0016	-.0004	-.0001
#2	.0078	.0120	.0439	.0269	.0038	.0030	.0018	-.0005	.0000
#3	-.0033	-.0009	.0517	.0169	.0035	.0023	.0015	.0009	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb 7 Acquired: 12/6/2018 11:38:51 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0026**	**.0002**	**-.0010**	**-.0006**	**.0011**	**.0014**
Stddev	.0002	.0006	.0001	.0023	.0008	.0010	.0003
%RSD	113.8	23.88	52.17	231.3	118.7	93.03	25.54
#1	.0003	.0020	.0001	.0016	-.0015	.0019	.0013
#2	.0001	.0026	.0002	-.0028	.0000	-.0001	.0017
#3	.0000	.0032	.0002	-.0017	-.0005	.0015	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107930.**	**4589.6**	**4123.1**	**9523.2**
Stddev	475.	14.9	4.9	1.4
%RSD	.44038	.32562	.11985	.01521
#1	107750.	4577.0	4128.3	9522.1
#2	108470.	4606.1	4122.6	9524.8
#3	107570.	4585.7	4118.4	9522.6

Zoom In Zoom Out

Sample Name: emptyconf Acquired: 12/6/2018 11:43:23 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0012**	**.0009**	**.0018**	**.0024**	**-.0002**	**.0036**	**.0032**	**-.0000**
Stddev	.0004	.0000	.0011	.0016	.0001	.0003	.0001	.0019	.0002
%RSD	8.684	3.798	134.6	85.98	5.719	118.8	1.638	59.51	933.4
#1	.0039	.0012	.0013	.0033	.0024	-.0005	.0036	.0050	-.0002
#2	.0044	.0012	.0017	.0021	.0024	-.0000	.0037	.0033	.0001
#3	.0046	.0012	-.0005	.0001	.0022	-.0001	.0036	.0012	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0088**	**.0030**	**.0036**	**.0012**	**.0044**	**-.0008**	**.1203**	**1.131**
Stddev	.0001	.0083	.0029	.0014	.0008	.0059	.0046	.0106	.001
%RSD	2.341	94.63	96.72	39.97	68.54	132.8	592.7	8.850	.0952
#1	.0023	.0114	.0031	.0027	.0003	.0061	.0001	.1240	1.130
#2	.0023	.0156	.0001	.0028	.0018	.0093	-.0057	.1286	1.131
#3	.0022	-.0005	.0059	.0052	.0016	-.0021	.0033	.1083	1.132

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**.1139**	**2.130**	**1.080**	**.0025**	**.0013**	**.0003**	**-.0007**	**.0001**
Stddev	.0027	.0406	.031	.008	.0025	.0014	.0134	.0006	.0002
%RSD	145.0	35.66	1.455	.7413	100.1	108.7	4964.	85.07	185.2
#1	.0013	.0968	2.096	1.085	.0026	.0020	.0006	-.0003	-.0000
#2	-.0036	.1602	2.157	1.071	.0048	.0023	.0135	-.0003	.0002
#3	-.0033	.0846	2.138	1.084	-.0001	-.0003	-.0133	-.0013	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0011**	**.0001**	**.0013**	**-.0015**	**-.0001**	**-.0154**
Stddev	.0002	.0035	.0001	.0083	.0032	.0011	.0238
%RSD	1090.	305.2	47.22	632.1	222.5	1024.	154.9
#1	-.0002	.0009	.0002	.0013	.0002	.0001	.0005
#2	.0002	.0047	.0002	-.0070	-.0052	.0009	-.0427
#3	-.0000	-.0022	.0001	.0096	.0006	-.0013	-.0038

Zoom In Zoom Out

Sample Name: emptyconf Acquired: 12/6/2018 11:43:23 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107780.**	**4378.3**	*****	*****
Stddev	863.	11.8	-----	-----
%RSD	.80044	.27000	-----	-----
#1	108530.	4385.8	4115.0	9509.1
#2	106840.	4384.4	-----	-----
#3	107980.	4364.7	20270.	42689.

Zoom In Zoom Out

Sample Name: cri Acquired: 12/6/2018 11:48:54 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1942**	**.0021**	**.0031**	**.0502**	**.0102**	**.0097**	**.0160**	**.0102**	**.0054**
Stddev	.0005	.0000	.0002	.0002	.0002	.0002	.0001	.0003	.0002
%RSD	.2681	2.061	6.621	.4562	2.053	1.922	.7241	2.939	3.816
#1	.1948	.0021	.0029	.0504	.0104	.0097	.0161	.0105	.0052
#2	.1938	.0020	.0032	.0500	.0100	.0095	.0159	.0101	.0055
#3	.1939	.0021	.0033	.0500	.0102	.0099	.0160	.0099	.0056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0508**	**.0201**	**.0076**	**.0104**	**.0032**	**.0108**	**.0071**	**.1908**	**5.073**
Stddev	.0004	.0001	.0001	.0014	.0015	.0007	.0003	.0202	.024
%RSD	.8374	.2943	1.438	13.22	45.98	6.370	3.872	10.61	.4713
#1	.0512	.0201	.0075	.0110	.0017	.0106	.0074	.2081	5.095
#2	.0503	.0202	.0077	.0113	.0047	.0115	.0070	.1686	5.048
#3	.0509	.0202	.0075	.0088	.0032	.0102	.0069	.1959	5.075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1009**	**4.959**	**4.748**	**4.866**	**.0988**	**.0217**	**.2009**	**.0090**	**.0100**
Stddev	.0026	.037	.024	.005	.0012	.0001	.0007	.0005	.0001
%RSD	2.568	.7512	.5070	.1104	1.165	.2762	.3328	5.240	.9393
#1	.0980	5.002	4.775	4.860	.0977	.0216	.2011	.0095	.0099
#2	.1029	4.939	4.729	4.870	.0988	.0218	.2002	.0085	.0101
#3	.1017	4.936	4.741	4.867	.1000	.0217	.2015	.0091	.0100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: cri Acquired: 12/6/2018 11:48:54 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0105**	**.0521**	F **.0183**	**.0500**	**.0188**	**.0527**	**.0497**
Stddev	.0001	.0010	.0005	.0014	.0007	.0005	.0002
%RSD	1.423	1.870	2.520	2.827	3.889	.8837	.4087
#1	.0107	.0519	.0187	.0492	.0196	.0533	.0494
#2	.0105	.0531	.0182	.0491	.0181	.0524	.0498
#3	.0104	.0512	.0178	.0516	.0187	.0525	.0497
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0100				
Range			20.00%				

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107300.**	**4371.3**	**4288.0**	**9984.6**
Stddev	382.	14.1	6.3	11.4
%RSD	.35637	.32316	.14687	.11375
#1	106930.	4355.1	4295.3	9995.9
#2	107700.	4381.0	4284.2	9984.7
#3	107280.	4377.9	4284.6	9973.2

Zoom In Zoom Out

Sample Name: icsa Acquired: 12/6/2018 11:54:21 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0000**	**.0004**	**-.0008**	**-.0020**	**-.0019**	**.0027**	**-.0014**	**.0005**
Stddev	.0001	.0001	.0002	.0003	.0003	.0001	.0002	.0004	.0005
%RSD	9.361	213.9	46.27	37.18	14.81	6.288	6.636	30.81	90.48
#1	.0013	.0001	.0004	-.0011	-.0019	-.0019	.0027	-.0017	.0008
#2	.0015	-.0000	.0006	-.0008	-.0018	-.0018	.0029	-.0016	.0008
#3	.0015	.0000	.0002	-.0005	-.0024	-.0020	.0026	-.0009	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0022**	**-.0014**	**-.0007**	**-.0009**	**.0039**	**.0011**	**537.2**	**406.3**
Stddev	.0001	.0003	.0002	.0022	.0004	.0026	.0029	1.6	1.6
%RSD	37.39	15.36	13.25	329.6	49.15	67.92	255.6	.2925	.3815
#1	-.0004	.0021	-.0013	-.0007	-.0005	.0041	.0030	538.0	407.1
#2	-.0002	.0018	-.0016	-.0029	-.0008	.0011	-.0022	538.3	407.4
#3	-.0003	.0025	-.0013	.0015	-.0014	.0064	.0026	535.4	404.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**209.6**	**528.4**	**.0909**	**.0321**	**.0008**	**.0025**	**-.0050**	**-.0049**	**-.0064**
Stddev	.8	1.8	.0091	.0037	.0004	.0004	.0011	.0015	.0003
%RSD	.3853	.3420	10.02	11.39	52.41	14.37	21.93	29.90	4.273
#1	210.0	528.7	.1009	.0325	.0011	.0026	-.0048	-.0063	-.0061
#2	210.1	530.0	.0830	.0355	.0003	.0029	-.0041	-.0034	-.0063
#3	208.7	526.5	.0890	.0282	.0010	.0021	-.0062	-.0050	-.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icsa Acquired: 12/6/2018 11:54:21 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0008**	**.0010**	**-.0247**	**.0084**	**.0026**	**.0191**
Stddev	.0003	.0037	.0002	.0007	.0003	.0007	.0010
%RSD	8.387	479.6	20.47	2.955	3.736	28.01	5.474
#1	.0041	.0021	.0010	-.0256	.0081	.0027	.0183
#2	.0042	.0036	.0011	-.0243	.0087	.0018	.0203
#3	.0036	-.0034	.0007	-.0243	.0083	.0033	.0187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96692.**	**4099.1**	**3725.6**	**8866.7**
Stddev	266.	13.9	3.5	7.1
%RSD	.27552	.33844	.09421	.08012
#1	96782.	4099.2	3723.5	8871.4
#2	96393.	4085.2	3723.6	8858.5
#3	96902.	4112.9	3729.6	8870.1

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/6/2018 11:59:37 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5374**	**.5158**	**1.051**	**.4868**	**.4831**	**.5408**	**.5093**	**.9851**	**1.075**
Stddev	.0015	.0006	.003	.0005	.0009	.0010	.0005	.0017	.001
%RSD	.2801	.1071	.2984	.1039	.1801	.1889	.0951	.1734	.1001
#1	.5384	.5163	1.048	.4868	.4841	.5418	.5099	.9844	1.076
#2	.5380	.5152	1.050	.4873	.4830	.5397	.5091	.9838	1.074
#3	.5356	.5159	1.054	.4863	.4823	.5408	.5090	.9870	1.076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4938**	**.9757**	**1.116**	**.9968**	**.9859**	**1.089**	**1.114**	**533.4**	**401.5**
Stddev	.0005	.0028	.004	.0030	.0061	.003	.006	.7	1.6
%RSD	.1001	.2834	.3107	.3019	.6216	.2807	.5214	.1228	.3949
#1	.4942	.9733	1.114	.9933	.9789	1.086	1.107	534.1	403.3
#2	.4933	.9751	1.114	.9985	.9903	1.088	1.119	533.5	400.7
#3	.4940	.9787	1.120	.9986	.9884	1.092	1.115	532.7	400.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**207.0**	**518.9**	**.0769**	**.0268**	**.5277**	**.5036**	**.5391**	**.4929**	**.5856**
Stddev	.5	2.4	.0135	.0061	.0022	.0012	.0024	.0037	.0013
%RSD	.2595	.4546	17.60	22.95	.4168	.2475	.4398	.7482	.2189
#1	207.6	521.5	.0613	.0335	.5289	.5033	.5381	.4888	.5860
#2	206.8	518.4	.0852	.0254	.5252	.5026	.5374	.4938	.5867
#3	206.6	516.9	.0842	.0214	.5291	.5050	.5418	.4960	.5842
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/6/2018 11:59:37 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5050**	**.4899**	**.4922**	**.4860**	**.5695**	**.5371**	**.5470**
Stddev	.0007	.0013	.0029	.0020	.0023	.0012	.0033
%RSD	.1326	.2674	.5849	.4110	.3963	.2268	.6045
#1	.5056	.4885	.4900	.4844	.5682	.5357	.5457
#2	.5043	.4902	.4913	.4853	.5682	.5380	.5445
#3	.5049	.4911	.4955	.4882	.5721	.5375	.5507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97041.**	**4100.2**	**3757.6**	**8941.8**
Stddev	153.	25.0	10.3	8.2
%RSD	.15767	.61049	.27474	.09197
#1	96924.	4071.3	3768.9	8951.2
#2	97214.	4114.3	3755.0	8938.1
#3	96984.	4115.0	3748.8	8936.0

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 12/6/2018 12:04:40 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.143**	**8.146**	**7.908**	**8.235**	**8.358**	**8.021**	**8.093**	**8.251**	**.6104**
Stddev	.012	.012	.011	.009	.033	.023	.019	.008	.0022
%RSD	.1504	.1491	.1395	.1081	.3931	.2880	.2387	.0989	.3603
#1	8.157	8.156	7.915	8.241	8.337	8.000	8.071	8.256	.6093
#2	8.135	8.132	7.914	8.225	8.396	8.016	8.098	8.242	.6129
#3	8.137	8.150	7.895	8.240	8.341	8.046	8.108	8.255	.6089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.179**	**8.384**	**8.296**	**8.073**	**8.159**	**8.101**	**8.115**	**.0450**	**.0037**
Stddev	.028	.022	.018	.013	.008	.030	.029	.0079	.0013
%RSD	.3415	.2686	.2176	.1547	.0933	.3669	.3627	17.61	36.70
#1	8.152	8.382	8.298	8.080	8.165	8.107	8.130	.0410	.0030
#2	8.208	8.363	8.312	8.081	8.150	8.127	8.134	.0541	.0052
#3	8.178	8.408	8.276	8.059	8.162	8.069	8.082	.0399	.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0015**	**-.0484**	**.0078**	**.0263**	**8.030**	**8.095**	**25.78**	**8.195**	**8.073**
Stddev	.0020	.0236	.0061	.0082	.020	.013	.06	.004	.009
%RSD	136.4	48.73	78.37	31.34	.2448	.1604	.2392	.0530	.1092
#1	-.0037	-.0449	.0140	.0358	8.034	8.099	25.76	8.198	8.083
#2	-.0007	-.0268	.0077	.0221	8.048	8.106	25.85	8.190	8.067
#3	.0001	-.0736	.0018	.0210	8.009	8.081	25.73	8.197	8.069
Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 12/6/2018 12:04:40 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.190**	**8.386**	**8.187**	**106.9**	**7.669**	**7.873**	**8.085**
Stddev	.025	.012	.018	.2	.033	.018	.012
%RSD	.3004	.1384	.2139	.1923	.4311	.2299	.1461
#1	8.188	8.395	8.169	107.0	7.675	7.893	8.091
#2	8.216	8.390	8.203	107.0	7.699	7.859	8.093
#3	8.167	8.373	8.190	106.7	7.633	7.865	8.071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106400.**	**4490.3**	**4055.6**	**9678.0**
Stddev	373.	5.4	5.5	5.5
%RSD	.35063	.11937	.13457	.05732
#1	106830.	4492.3	4058.8	9684.2
#2	106200.	4494.3	4049.3	9676.4
#3	106170.	4484.2	4058.8	9673.4

Zoom In Zoom Out

Sample Name: hstd Acquired: 12/6/2018 12:10:29 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0018**	**.0018**	**.0012**	**-.0004**	**.0022**	**.0039**	**.0016**	**.0005**
Stddev	.0003	.0001	.0001	.0005	.0001	.0001	.0001	.0003	.0002
%RSD	19.71	4.389	5.196	39.83	35.65	5.264	1.896	20.79	46.08
#1	.0013	.0018	.0019	.0006	-.0003	.0023	.0038	.0020	.0005
#2	.0017	.0019	.0017	.0015	-.0004	.0023	.0038	.0013	.0003
#3	.0020	.0018	.0018	.0013	-.0006	.0021	.0040	.0016	.0008
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0169**	**.0006**	**-.0015**	**-.0006**	**.0049**	**.0009**	**321.3**	**206.3**
Stddev	.0002	.0004	.0012	.0022	.0014	.0015	.0018	.5	.4
%RSD	21.47	2.190	202.8	150.0	226.3	30.62	188.9	.1462	.2139
#1	.0007	.0166	.0012	.0003	.0009	.0060	-.0003	320.7	205.8
#2	.0009	.0168	.0014	-.0007	-.0018	.0032	.0029	321.6	206.6
#3	.0006	.0173	-.0008	-.0039	-.0009	.0054	.0002	321.5	206.6
Check ?	None	None	None	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**198.5**	**310.1**	**211.4**	**209.9**	**.0082**	**.0195**	**.0108**	**-.0042**	**-.0012**
Stddev	.5	1.1	.1	.1	.0012	.0024	.0025	.0007	.0001
%RSD	.2383	.3620	.0523	.0398	14.88	12.21	23.09	15.86	12.38
#1	198.0	309.0	211.3	210.0	.0086	.0220	.0112	-.0034	-.0010
#2	198.9	310.1	211.5	209.8	.0091	.0193	.0082	-.0043	-.0013
#3	198.7	311.3	211.5	209.9	.0068	.0172	.0131	-.0047	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd Acquired: 12/6/2018 12:10:29 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**.0111**	**.0012**	**-.0158**	**.0103**	**.0164**	**.0106**
Stddev	.0001	.0018	.0001	.0012	.0012	.0004	.0013
%RSD	4.317	16.37	9.306	7.673	11.66	2.746	11.99
#1	.0030	.0131	.0013	-.0169	.0107	.0159	.0119
#2	.0027	.0105	.0011	-.0159	.0089	.0165	.0093
#3	.0028	.0096	.0013	-.0145	.0112	.0167	.0105
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97475.**	**4105.6**	**3801.6**	**8913.2**
Stddev	600.	16.0	4.7	9.0
%RSD	.61522	.38862	.12455	.10102
#1	97165.	4122.5	3802.7	8923.4
#2	97093.	4103.3	3796.4	8906.6
#3	98166.	4090.8	3805.6	8909.4

Zoom In Zoom Out

Sample Name: feconf Acquired: 12/6/2018 12:15:57 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**-.0002**	**.0001**	**-.0028**	**.0012**	**.0013**	**-.0004**	**-.0007**
Stddev	.0003	.0000	.0001	.0001	.0001	.0001	.0002	.0003	.0015
%RSD	292.7	68.94	37.70	93.85	2.164	11.72	15.64	90.57	221.8
#1	.0004	.0000	-.0003	.0000	-.0027	.0011	.0014	-.0003	.0001
#2	.0001	.0001	-.0002	.0002	-.0028	.0013	.0014	-.0001	.0002
#3	-.0002	.0000	-.0002	.0001	-.0027	.0012	.0011	-.0008	-.0024

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0020**	**.0006**	**-.0007**	**-.0014**	**.0041**	**.0015**	**.0047**	**-.0517**
Stddev	.0000	.0001	.0011	.0019	.0011	.0021	.0008	.0104	.0033
%RSD	24.40	2.899	170.4	283.7	76.32	51.06	52.26	222.2	6.328
#1	-.0002	-.0021	-.0006	-.0005	-.0014	.0054	.0024	-.0058	-.0501
#2	-.0002	-.0021	.0012	-.0027	-.0025	.0050	.0014	.0048	-.0496
#3	-.0001	-.0020	.0012	.0012	-.0003	.0017	.0008	.0150	-.0555

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **209.3**	**.0182**	**.2232**	**.0549**	**.0033**	**.0049**	**-.0029**	**-.0024**	**-.0002**
Stddev	.6	.0208	.0419	.0080	.0006	.0003	.0007	.0006	.0002
%RSD	.3001	114.6	18.76	14.59	16.90	5.447	23.89	25.10	120.2
#1	209.5	-.0048	.2507	.0636	.0039	.0052	-.0029	-.0021	-.0002
#2	209.8	.0357	.2440	.0533	.0031	.0048	-.0036	-.0020	.0000
#3	208.6	.0236	.1750	.0478	.0029	.0047	-.0022	-.0031	-.0004

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0036**	**.0012**	**-.0220**	**.0106**	**.0035**	**.0031**
Stddev	.0001	.0009	.0001	.0002	.0016	.0006	.0006
%RSD	39.52	23.78	11.42	.7497	14.91	17.26	20.56
#1	-.0004	.0045	.0012	-.0218	.0090	.0029	.0024
#2	-.0002	.0035	.0013	-.0221	.0105	.0040	.0033
#3	-.0004	.0028	.0010	-.0220	.0122	.0035	.0036

Zoom In Zoom Out

Sample Name: feconf Acquired: 12/6/2018 12:15:57 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106460.**	**4315.8**	**4122.7**	**9797.5**
Stddev	1011.	19.2	1.9	9.6
%RSD	.94950	.44395	.04698	.09759
#1	107040.	4311.2	4120.7	9798.3
#2	107040.	4299.4	4124.6	9787.5
#3	105290.	4336.8	4122.8	9806.6

Zoom In Zoom Out

Sample Name: crconf Acquired: 12/6/2018 12:21:26 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.0000**	**.0000**	**.0003**	F **10.53**	**-.0004**	**-.0011**	**.0010**	**.0003**
Stddev	.0002	.0000	.0002	.0002	.11	.0003	.0000	.0002	.0003
%RSD	61.22	46.03	6888.	65.26	1.011	69.37	1.511	17.75	101.9
#1	-.0001	-.0000	-.0000	.0004	10.61	-.0001	-.0012	.0009	.0000
#2	-.0003	-.0000	.0002	.0005	10.56	-.0004	-.0011	.0012	.0002
#3	-.0005	-.0000	-.0002	.0001	10.41	-.0006	-.0011	.0009	.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0039**	**-.0010**	**.0007**	**-.0002**	**.0006**	**-.0003**	**.0012**	**-.0013**	**.0065**
Stddev	.0001	.0001	.0002	.0009	.0014	.0011	.0015	.0096	.0033
%RSD	3.089	13.14	26.07	496.1	245.9	408.7	130.7	728.2	50.20
#1	-.0040	-.0009	.0006	-.0010	-.0001	.0010	-.0005	.0034	.0091
#2	-.0039	-.0011	.0007	-.0002	.0022	-.0012	.0014	-.0123	.0077
#3	-.0038	-.0010	.0010	.0007	-.0004	-.0006	.0025	.0050	.0028

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0081**	**-.0053**	**.0453**	**.0220**	**.0033**	**.0036**	**-.0014**	**-.0009**	**.0001**
Stddev	.0025	.0166	.0014	.0041	.0001	.0002	.0002	.0008	.0001
%RSD	31.21	315.6	3.155	18.45	1.981	4.947	13.52	84.34	96.71
#1	.0099	-.0182	.0468	.0265	.0033	.0037	-.0015	-.0017	.0002
#2	.0052	-.0111	.0451	.0187	.0032	.0037	-.0014	-.0010	-.0000
#3	.0091	.0135	.0440	.0208	.0033	.0034	-.0012	-.0001	.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0008**	**-.0011**	**.0033**	**-.0037**	**.0012**	**.0000**
Stddev	.0003	.0011	.0001	.0019	.0012	.0009	.0005
%RSD	12.80	133.7	11.70	56.05	32.98	74.43	1639.
#1	.0024	.0000	-.0010	.0040	-.0050	.0005	.0003
#2	.0018	.0020	-.0012	.0048	-.0025	.0022	-.0006
#3	.0020	.0003	-.0011	.0012	-.0037	.0010	.0003

Zoom In Zoom Out

Sample Name: crconf Acquired: 12/6/2018 12:21:26 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107720.**	**4420.5**	**4241.5**	**10093.**
Stddev	981.	13.4	2.4	7.
%RSD	.91088	.30303	.05703	.06832
#1	106950.	4408.7	4241.3	10085.
#2	107390.	4417.6	4239.1	10096.
#3	108820.	4435.1	4243.9	10097.

Zoom In Zoom Out

Sample Name: crid Acquired: 12/6/2018 12:26:57 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040**	**.0011**	**.0011**	**.0033**	**.0020**	F **-.0002**	**.0034**	**.0046**
Stddev	.0001	.0000	.0000	.0001	.0001	.0001	.0001	.0002
%RSD	3.571	1.569	3.266	2.806	4.795	32.43	1.565	3.999
#1	.0041	.0010	.0011	.0033	.0021	-.0001	.0034	.0047
#2	.0041	.0011	.0011	.0033	.0021	-.0002	.0034	.0048
#3	.0038	.0011	.0012	.0032	.0019	-.0002	.0035	.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-20.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0005**	**.0023**	**.0111**	**.0034**	**.0023**	F **.0004**	**.0063**	F **-.0005**
Stddev	.0003	.0000	.0003	.0003	.0018	.0015	.0008	.0015
%RSD	67.50	.9566	2.611	8.616	81.64	426.8	13.13	278.3
#1	.0008	.0023	.0114	.0036	.0013	-.0011	.0070	-.0018
#2	.0005	.0023	.0109	.0031	.0011	.0003	.0054	.0011
#3	.0001	.0022	.0109	.0036	.0044	.0019	.0063	-.0009
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value	.0020					.0025		.0030
Range	-20.00%					-20.00%		-20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1120**	**1.086**	**-.0008**	F **.1323**	**2.025**	**1.047**	**.0026**	**.0018**
Stddev	.0081	.007	.0009	.0123	.004	.005	.0002	.0000
%RSD	7.241	.6332	112.3	9.323	.1907	.4605	9.376	1.480
#1	.1196	1.078	.0002	.1197	2.023	1.046	.0027	.0018
#2	.1035	1.088	-.0016	.1328	2.023	1.042	.0023	.0018
#3	.1129	1.092	-.0011	.1444	2.030	1.052	.0027	.0018
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	None	None
Value				.1000				
Range				30.00%				

Zoom In Zoom Out

Sample Name: crid Acquired: 12/6/2018 12:26:57 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0008**	**.0000**	**.0002**	**.0002**	**.0001**	**.0014**	**-.0003**
Stddev	.0003	.0002	.0002	.0003	.0005	.0002	.0010	.0020
%RSD	236.4	23.81	539.2	169.0	222.0	172.4	75.50	664.4
#1	.0003	-.0010	-.0002	.0000	.0001	.0001	.0022	-.0018
#2	-.0002	-.0006	.0002	.0005	.0007	.0003	.0002	.0020
#3	.0004	-.0008	.0001	-.0000	-.0002	-.0001	.0017	-.0011
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0007**	**.0000**
Stddev	.0006	.0004
%RSD	89.41	1854.
#1	-.0001	.0002
#2	-.0013	-.0004
#3	-.0008	.0002
Check ?	None	None
Value		
Range		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107560.**	**4468.2**	**4133.4**	**9590.8**
Stddev	669.	5.2	2.9	11.7
%RSD	.62206	.11591	.07080	.12228
#1	107270.	4468.9	4131.3	9577.5
#2	108330.	4462.8	4132.1	9599.6
#3	107090.	4473.1	4136.8	9595.4

Zoom In Zoom Out

Sample Name: asconf Acquired: 12/6/2018 12:32:29 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**-.0004**	**.0003**	**-.0002**	**-.0002**	**-.0000**	**.0001**	**-.0003**
Stddev	.0003	.0000	.0001	.0004	.0000	.0002	.0000	.0001	.0001
%RSD	604.8	165.8	14.98	137.7	27.95	86.24	64.45	103.1	35.05
#1	.0005	.0000	-.0005	.0001	-.0001	-.0000	-.0000	.0001	-.0003
#2	-.0002	-.0001	-.0004	-.0000	-.0001	-.0004	-.0000	-.0000	-.0002
#3	-.0001	-.0000	-.0005	.0007	-.0002	-.0003	-.0000	.0001	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0002**	**5.475**	**-.0002**	**.0010**	**.0003**	**-.0005**	**-.0034**	**-.0018**
Stddev	.0001	.0001	.009	.0008	.0004	.0008	.0003	.0130	.0028
%RSD	97.83	31.53	.1557	460.3	43.53	294.2	71.39	383.8	158.9
#1	.0000	-.0002	5.475	-.0010	.0010	.0007	-.0001	-.0182	-.0048
#2	.0001	-.0002	5.467	.0001	.0006	.0008	-.0007	.0018	-.0011
#3	.0003	-.0001	5.484	.0005	.0014	-.0007	-.0006	.0062	.0006

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0022**	**.0214**	**.0115**	**.0018**	**.0013**	**.0004**	**-.0002**	**.0000**
Stddev	.0010	.0497	.0356	.0081	.0006	.0003	.0006	.0007	.0001
%RSD	695.9	2272.	166.3	70.51	31.86	26.02	146.8	306.6	1428.
#1	.0008	.0549	.0623	.0028	.0025	.0010	.0010	-.0010	-.0001
#2	.0006	-.0255	-.0025	.0130	.0015	.0017	.0002	.0005	.0000
#3	-.0010	-.0359	.0044	.0188	.0014	.0012	-.0001	-.0003	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0002**	**.0001**	**.0012**	**-.0007**	**.0004**	**.0004**
Stddev	.0001	.0009	.0001	.0016	.0004	.0003	.0004
%RSD	49.41	495.6	116.6	130.3	54.35	67.48	93.92
#1	.0002	-.0009	-.0000	-.0006	-.0008	.0006	.0008
#2	.0001	.0005	.0001	.0021	-.0003	.0001	.0001
#3	.0001	.0009	.0001	.0021	-.0011	.0004	.0003

Zoom In Zoom Out

Sample Name: asconf Acquired: 12/6/2018 12:32:29 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107490.**	**4430.2**	**4140.5**	**9605.7**
Stddev	447.	13.8	3.5	6.2
%RSD	.41598	.31113	.08457	.06499
#1	107000.	4431.2	4136.4	9610.8
#2	107860.	4415.9	4142.4	9598.7
#3	107630.	4443.5	4142.6	9607.6

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 12:37:59 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.033**	**2.034**	**1.968**	**1.999**	**2.050**	**2.003**	**2.072**	**2.010**	**.2502**
Stddev	.002	.006	.003	.002	.013	.017	.021	.000	.0017
%RSD	.0987	.2900	.1680	.0754	.6559	.8220	1.014	.0196	.6715
#1	2.032	2.037	1.967	1.999	2.035	1.984	2.048	2.009	.2483
#2	2.035	2.039	1.965	1.997	2.058	2.015	2.079	2.010	.2514
#3	2.031	2.028	1.971	2.000	2.058	2.010	2.089	2.010	.2509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.030**	**1.973**	**1.937**	**2.038**	**2.014**	**1.891**	**1.989**	**40.20**	**40.26**
Stddev	.014	.001	.006	.006	.003	.005	.006	.10	.14
%RSD	.6642	.0410	.3105	.3093	.1396	.2668	.3041	.2416	.3368
#1	2.014	1.973	1.934	2.032	2.015	1.889	1.992	40.22	40.26
#2	2.038	1.974	1.932	2.038	2.012	1.887	1.982	40.29	40.40
#3	2.037	1.972	1.943	2.044	2.017	1.896	1.994	40.10	40.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.29**	**39.23**	**40.00**	**40.30**	**1.937**	**2.036**	**5.067**	**2.019**	**2.045**
Stddev	.12	.17	.10	.10	.005	.004	.011	.003	.002
%RSD	.2987	.4357	.2420	.2521	.2639	.2024	.2168	.1338	.1153
#1	40.28	39.28	40.02	40.33	1.934	2.035	5.059	2.018	2.045
#2	40.42	39.38	40.09	40.38	1.933	2.032	5.062	2.017	2.048
#3	40.18	39.04	39.90	40.18	1.943	2.041	5.079	2.022	2.043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 12:37:59 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.046**	**1.995**	**2.062**	**1.877**	**1.974**	**2.060**	**1.909**
Stddev	.016	.009	.017	.004	.003	.006	.004
%RSD	.7637	.4580	.8432	.2303	.1485	.2797	.2158
#1	2.028	1.990	2.042	1.877	1.974	2.058	1.908
#2	2.057	1.990	2.074	1.873	1.971	2.066	1.905
#3	2.052	2.006	2.069	1.882	1.976	2.055	1.913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104220.**	**4400.6**	**4308.0**	**10068.**
Stddev	660.	19.0	8.1	13.
%RSD	.63365	.43150	.18916	.12483
#1	104980.	4395.6	4310.4	10078.
#2	103810.	4384.6	4314.7	10073.
#3	103880.	4421.6	4298.9	10054.

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 12:43:13 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0000**	**.0003**	**.0003**	**-.0000**	**-.0000**	**.0001**	**.0003**	**.0001**
Stddev	.0003	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0002
%RSD	136.8	497.7	47.58	52.79	281.5	304.2	61.90	45.40	228.4
#1	-.0001	-.0000	.0003	.0001	-.0001	.0001	.0000	.0004	-.0001
#2	-.0006	-.0001	.0003	.0003	-.0001	-.0001	.0002	.0004	.0003
#3	.0000	.0001	.0001	.0003	.0001	-.0001	.0001	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**.0008**	**-.0009**	**.0009**	**-.0000**	**.0002**	**.0089**	**-.0022**
Stddev	.0001	.0002	.0002	.0023	.0006	.0014	.0010	.0060	.0041
%RSD	67.28	114.1	29.91	250.1	61.57	4149.	583.5	67.55	188.0
#1	.0001	-.0002	.0006	-.0020	.0007	.0004	-.0010	.0136	-.0066
#2	.0004	.0000	.0008	-.0025	.0015	-.0016	.0007	.0021	-.0012
#3	.0002	-.0003	.0011	.0017	.0005	.0011	.0008	.0110	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0235**	**.0682**	**.0215**	**.0040**	**F .0039**	**.0020**	**-.0002**	**-.0001**
Stddev	.0024	.0111	.0359	.0020	.0008	.0010	.0019	.0007	.0001
%RSD	117.4	47.01	52.66	9.294	18.84	25.11	98.14	339.1	78.96
#1	-.0006	.0117	.0895	.0228	.0038	.0048	.0034	.0006	-.0000
#2	.0028	.0252	.0885	.0226	.0048	.0040	.0027	-.0007	-.0001
#3	.0041	.0336	.0267	.0192	.0034	.0028	-.0002	-.0006	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 12:43:13 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0027**	**.0003**	**.0005**	**-.0008**	**.0021**	**.0011**
Stddev	.0004	.0008	.0000	.0006	.0004	.0002	.0009
%RSD	147.2	29.07	13.54	113.3	55.61	8.665	80.93
#1	-.0002	.0037	.0002	.0006	-.0005	.0020	.0019
#2	.0005	.0023	.0003	-.0001	-.0012	.0023	.0001
#3	.0004	.0022	.0003	.0010	-.0005	.0019	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107440.**	**4489.2**	**4293.4**	**9888.4**
Stddev	308.	35.7	346.1	783.7
%RSD	.28700	.79474	8.0607	7.9258
#1	107090.	4525.1	4094.6	9454.1
#2	107650.	4453.8	4092.5	9417.9
#3	107600.	4488.6	4693.0	10793.

Zoom In Zoom Out

Sample Name: jc78740-4aundconf Acquired: 12/6/2018 12:48:45 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0003**	**-.0003**	**.0000**	**-.0005**	*****	**-.0001**	**.0012**	**-.0015**
Stddev	.0001	.0000	.0000	.0001	.0001	-----	.0000	.0000	.0000
%RSD	271.0	1.691	3.513	187.1	14.53	-----	9.258	3.527	2.969
#1	.0001	-.0003	-.0003	.0000	-.0005	-----	-.0001	.0012	-.0015
#2	.0000	-.0003	-.0003	.0001	-.0005	-----	-.0001	.0012	-.0015
#3	-.0001	-.0002	-.0003	-.0000	-.0004	-----	-.0001	.0013	-.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0006**	**.0059**	**.0051**	**.0019**	**-.0024**	**.0040**	**.0002**	**-.0115**
Stddev	.0001	.0000	.0001	.0002	.0002	.0002	.0001	.0010	.0002
%RSD	47.81	4.579	2.175	3.267	11.08	8.983	2.344	640.9	1.572
#1	-.0001	-.0006	.0059	.0049	.0017	-.0024	.0040	-.0004	-.0116
#2	-.0001	-.0006	.0060	.0051	.0019	-.0021	.0041	.0013	-.0115
#3	-.0002	-.0006	.0057	.0052	.0022	-.0025	.0039	-.0005	-.0113

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0048**	**.0141**	**-.2051**	**.0248**	**.0008**	**-.0003**	**-.0136**	**-.0010**	**.0002**
Stddev	.0016	.0058	.0064	.0002	.0001	.0001	.0000	.0003	.0000
%RSD	32.65	41.06	3.108	.6339	11.93	21.97	.3524	26.99	9.997
#1	-.0048	.0170	-.1977	.0250	.0008	-.0003	-.0135	-.0007	.0002
#2	-.0032	.0179	-.2087	.0247	.0007	-.0002	-.0136	-.0011	.0002
#3	-.0063	.0075	-.2088	.0247	.0009	-.0004	-.0135	-.0012	.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**-.0024**	**.0004**	**.0096**	**.0010**	**-.0041**	**-.0036**
Stddev	.0001	.0002	.0000	.0003	.0003	.0004	.0002
%RSD	7.050	8.839	10.53	3.115	29.26	9.651	4.859
#1	.0009	-.0025	.0004	.0096	.0013	-.0040	-.0034
#2	.0011	-.0025	.0005	.0093	.0008	-.0038	-.0038
#3	.0009	-.0021	.0004	.0099	.0009	-.0045	-.0037

Zoom In Zoom Out

Sample Name: jc78740-4aundconf Acquired: 12/6/2018 12:48:45 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**427360.**	**15144.**	**20789.**	**43959.**
Stddev	3430.	53.	29.	63.
%RSD	.80258	.34716	.13720	.14316
#1	430380.	15120.	20816.	44019.
#2	428060.	15108.	20791.	43964.
#3	423630.	15205.	20759.	43894.

Zoom In Zoom Out

Sample Name: jc78875-3undconf Acquired: 12/6/2018 12:54:11 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0003**	**-.0003**	**.0001**	**-.0005**	*****	**-.0001**	**.0013**	**-.0016**
Stddev	.0000	.0000	.0001	.0000	.0000	-----	.0000	.0001	.0001
%RSD	47.69	4.030	22.44	32.40	8.562	-----	19.68	4.822	7.734
#1	.0001	-.0003	-.0004	.0001	-.0005	-----	-.0001	.0013	-.0018
#2	.0001	-.0003	-.0003	.0001	-.0005	-----	-.0001	.0012	-.0016
#3	.0001	-.0003	-.0003	.0001	-.0004	-----	-.0001	.0013	-.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0006**	**.0062**	**.0048**	**.0021**	**-.0026**	**.0039**	**-.0060**	**-.0095**
Stddev	.0000	.0000	.0002	.0002	.0001	.0001	.0001	.0042	.0013
%RSD	38.82	2.996	2.566	3.467	3.632	2.543	2.054	71.16	13.59
#1	-.0001	-.0006	.0063	.0048	.0020	-.0026	.0039	-.0011	-.0085
#2	-.0001	-.0006	.0060	.0050	.0022	-.0026	.0040	-.0088	-.0090
#3	-.0002	-.0006	.0062	.0046	.0021	-.0027	.0039	-.0081	-.0110

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0048**	**.0258**	**-.1978**	**.0238**	**.0002**	**-.0003**	**-.0134**	**-.0010**	**.0002**
Stddev	.0012	.0078	.0061	.0019	.0002	.0000	.0001	.0001	.0001
%RSD	24.03	30.12	3.105	8.116	83.55	2.850	.5505	13.22	26.83
#1	-.0052	.0272	-.1923	.0247	.0004	-.0003	-.0134	-.0012	.0002
#2	-.0035	.0174	-.1968	.0216	.0000	-.0003	-.0135	-.0009	.0002
#3	-.0058	.0328	-.2044	.0251	.0003	-.0003	-.0133	-.0011	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**-.0023**	**.0004**	**.0096**	**.0009**	**-.0042**	**-.0035**
Stddev	.0001	.0002	.0000	.0002	.0005	.0004	.0001
%RSD	11.29	8.844	11.37	1.824	53.32	9.834	1.707
#1	.0010	-.0023	.0004	.0097	.0004	-.0047	-.0034
#2	.0009	-.0025	.0003	.0094	.0013	-.0038	-.0035
#3	.0011	-.0021	.0004	.0096	.0011	-.0042	-.0035

Zoom In Zoom Out

Sample Name: jc78875-3undconf Acquired: 12/6/2018 12:54:11 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**425110.**	**15286.**	**20614.**	**43535.**
Stddev	2191.	109.	59.	111.
%RSD	.51542	.71018	.28603	.25586
#1	424910.	15161.	20663.	43631.
#2	423020.	15337.	20630.	43561.
#3	427390.	15360.	20549.	43413.

Zoom In Zoom Out

Sample Name: jc78740-4aundconf Acquired: 12/6/2018 12:59:37 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0000**	**-.0001**	**.0003**	**.0000**	**.0007**	**.0011**	**.0011**	**.0003**
Stddev	.0001	.0001	.0001	.0003	.0002	.0001	.0000	.0001	.0002
%RSD	7.599	320.9	80.57	95.17	871.4	19.16	2.144	7.857	60.73
#1	.0013	-.0000	-.0000	.0000	.0002	.0006	.0011	.0012	.0001
#2	.0015	.0001	-.0001	.0003	-.0002	.0009	.0010	.0010	.0004
#3	.0013	-.0000	-.0002	.0007	.0000	.0006	.0011	.0011	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0298**	**.0042**	**.0053**	**.0009**	**-.0029**	**-.0022**	**.0029**	**.5583**
Stddev	.0001	.0002	.0004	.0003	.0012	.0010	.0004	.0075	.0108
%RSD	1824.	.6097	10.14	5.600	131.3	34.37	18.49	260.1	1.928
#1	.0000	.0300	.0037	.0055	.0010	-.0037	-.0027	-.0046	.5481
#2	.0001	.0298	.0044	.0049	.0021	-.0018	-.0020	.0105	.5696
#3	-.0001	.0296	.0045	.0054	-.0003	-.0031	-.0020	.0028	.5572

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0036**	**.0805**	**-.0090**	**.0182**	**.0016**	**.0005**	**.0009**	**-.0016**	**.0016**
Stddev	.0024	.0323	.0326	.0074	.0004	.0003	.0007	.0003	.0001
%RSD	65.68	40.13	361.5	40.87	23.47	52.25	71.80	22.33	8.994
#1	-.0010	.1151	.0146	.0166	.0019	.0007	.0009	-.0018	.0016
#2	-.0042	.0756	-.0462	.0262	.0012	.0002	.0015	-.0017	.0015
#3	-.0056	.0510	.0045	.0116	.0017	.0007	.0002	-.0012	.0018

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0023**	**-.0002**	**.0008**	**.0032**	**-.0017**	**.0019**
Stddev	.0002	.0009	.0000	.0009	.0007	.0006	.0012
%RSD	43.99	40.83	18.62	116.3	23.07	35.50	64.12
#1	.0002	.0028	-.0002	.0010	.0040	-.0013	.0007
#2	.0006	.0012	-.0003	.0017	.0030	-.0014	.0018
#3	.0006	.0028	-.0002	-.0002	.0026	-.0024	.0031

Zoom In Zoom Out

Sample Name: jc78740-4aundconf Acquired: 12/6/2018 12:59:37 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109010.**	**4533.8**	**4160.2**	**9641.6**
Stddev	409.	7.6	6.4	9.6
%RSD	.37512	.16844	.15386	.09991
#1	108590.	4542.5	4153.3	9637.6
#2	109030.	4530.3	4165.8	9652.6
#3	109400.	4528.4	4161.6	9634.6

Zoom In Zoom Out

Sample Name: jc78835-3undconf Acquired: 12/6/2018 13:05:08 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0001**	**-.0002**	**.0003**	**-.0000**	**.0009**	**.0008**	**.0012**	**.0005**
Stddev	.0001	.0001	.0001	.0002	.0002	.0003	.0000	.0002	.0002
%RSD	10.47	111.2	43.89	52.98	682.0	30.42	3.020	20.21	31.75
#1	.0009	.0001	-.0004	.0004	.0001	.0006	.0008	.0013	.0004
#2	.0010	.0001	-.0002	.0004	-.0003	.0011	.0008	.0013	.0004
#3	.0008	-.0000	-.0002	.0001	.0001	.0011	.0007	.0009	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0234**	**.0036**	**.0047**	**.0019**	**-.0029**	**-.0023**	**-.0014**	**.3829**
Stddev	.0001	.0004	.0007	.0022	.0007	.0011	.0007	.0051	.0092
%RSD	59.64	1.566	19.08	46.77	38.85	37.54	29.98	362.4	2.408
#1	.0003	.0230	.0043	.0034	.0013	-.0041	-.0018	-.0042	.3748
#2	.0001	.0236	.0036	.0035	.0016	-.0027	-.0030	.0045	.3811
#3	.0001	.0235	.0029	.0072	.0027	-.0019	-.0020	-.0045	.3930

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0400**	**-.0116**	**.0002**	**.0018**	**.0002**	**-.0024**	**-.0016**	**.0012**
Stddev	.0071	.0552	.0101	.0045	.0002	.0003	.0004	.0006	.0000
%RSD	2295.	138.1	87.55	2101.	13.06	108.1	17.84	35.54	2.153
#1	.0070	.0848	-.0020	.0031	.0017	-.0001	-.0025	-.0013	.0012
#2	-.0072	.0568	-.0105	.0025	.0016	.0004	-.0020	-.0012	.0013
#3	.0012	-.0217	-.0222	-.0050	.0020	.0003	-.0028	-.0022	.0012

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0030**	**-.0002**	**-.0012**	**.0029**	**-.0019**	**.0024**
Stddev	.0001	.0006	.0000	.0015	.0002	.0006	.0001
%RSD	54.97	18.20	11.41	121.9	6.480	31.84	5.156
#1	.0001	.0037	-.0002	-.0021	.0027	-.0022	.0025
#2	.0002	.0028	-.0002	-.0020	.0031	-.0012	.0024
#3	.0003	.0026	-.0002	.0005	.0029	-.0022	.0022

Zoom In Zoom Out

Sample Name: jc78835-3undconf Acquired: 12/6/2018 13:05:08 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108560.**	**4376.6**	**4143.8**	**9624.0**
Stddev	980.	12.3	22.0	43.1
%RSD	.90313	.28174	.53191	.44799
#1	109540.	4371.8	4161.5	9658.7
#2	108550.	4390.7	4119.1	9575.7
#3	107580.	4367.5	4150.7	9637.5

Zoom In Zoom Out

Sample Name: mp10981-mb1conf Acquired: 12/6/2018 13:10:38 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0000**	**.0002**	**.0001**	**.0000**	**.0007**	**.0000**	**.0002**	**.0003**
Stddev	.0002	.0001	.0001	.0001	.0003	.0001	.0000	.0002	.0003
%RSD	81.91	218.9	91.66	248.5	2288.	17.19	74.89	106.7	82.60
#1	-.0001	-.0001	.0003	.0002	.0003	.0007	.0000	.0004	.0006
#2	-.0002	.0001	.0001	-.0000	-.0003	.0008	.0000	.0001	.0000
#3	-.0004	.0001	.0000	-.0000	.0000	.0006	.0000	.0001	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0003**	**-.0017**	**-.0004**	**.0004**	**.0010**	**.0001**	**-.0025**	**-.0024**
Stddev	.0002	.0001	.0008	.0013	.0008	.0010	.0006	.0091	.0013
%RSD	126.6	26.89	48.00	324.2	234.8	93.77	587.4	359.2	56.30
#1	-.0001	-.0003	-.0025	-.0000	.0002	.0022	.0005	-.0079	-.0039
#2	.0003	-.0002	-.0009	.0007	.0013	.0006	.0004	-.0077	-.0012
#3	.0002	-.0002	-.0018	-.0019	-.0004	.0003	-.0006	.0080	-.0021

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066**	**-.0006**	**.0104**	**.0067**	**.0015**	**.0011**	**.0105**	**-.0000**	**-.0000**
Stddev	.0055	.0069	.0236	.0059	.0001	.0000	.0003	.0004	.0003
%RSD	83.11	1233.	226.1	87.73	4.124	3.845	3.079	45890.	791.7
#1	.0117	-.0084	-.0040	.0095	.0015	.0010	.0101	.0002	-.0001
#2	.0008	.0045	.0377	-.0001	.0014	.0011	.0107	-.0004	.0003
#3	.0072	.0023	-.0023	.0106	.0016	.0011	.0107	.0003	-.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0025**	**.0006**	**.0025**	**-.0012**	**.0000**	**.0021**
Stddev	.0001	.0010	.0001	.0008	.0008	.0004	.0006
%RSD	70.82	39.97	17.69	32.74	67.35	1327.	29.90
#1	.0003	.0025	.0007	.0015	-.0007	.0005	.0018
#2	.0000	.0016	.0005	.0030	-.0022	-.0002	.0027
#3	.0002	.0036	.0005	.0029	-.0008	-.0002	.0016

Zoom In Zoom Out

Sample Name: mp10981-mb1conf Acquired: 12/6/2018 13:10:38 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105340.**	**4334.3**	**4110.6**	**9588.7**
Stddev	758.	16.3	12.3	18.5
%RSD	.71958	.37670	.29807	.19263
#1	106150.	4336.4	4096.6	9568.6
#2	104650.	4317.0	4116.2	9592.4
#3	105210.	4349.5	4119.1	9605.0

Zoom In Zoom Out

Sample Name: jc78859-5 7 Acquired: 12/6/2018 13:16:08 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1993**	**.0000**	**.0009**	**.0131**	**.0007**	**.0139**	**.9346**	**.0047**
Stddev	.0003	.0000	.0001	.0002	.0002	.0001	.0028	.0002
%RSD	.1327	106.3	16.87	1.645	28.53	.9172	.2970	3.185
#1	.1991	.0001	.0009	.0133	.0006	.0139	.9371	.0049
#2	.1992	.0000	.0007	.0132	.0006	.0138	.9352	.0047
#3	.1996	-.0000	.0010	.0129	.0010	.0140	.9316	.0046

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0004**	**-.0002**	**.0004**	F **-.0026**	**.0003**	**.0009**	**-.0006**
Stddev	.0004	.0001	.0002	.0006	.0014	.0007	.0001	.0003
%RSD	139.7	34.80	76.40	158.0	52.20	264.7	9.349	56.33
#1	-.0001	.0005	-.0001	.0010	-.0037	.0006	.0008	-.0008
#2	.0003	.0005	-.0002	.0003	-.0011	-.0005	.0009	-.0008
#3	.0007	.0003	-.0004	-.0002	-.0030	.0006	.0009	-.0002

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**98.52**	**.4400**	**14.27**	**14.38**	F **506.8**	**.1083**	**.0012**
Stddev	.0025	.31	.0027	.14	.03	5.9	.0005	.0001
%RSD	135.1	.3185	.6094	1.012	.1974	1.160	.4905	9.032
#1	.0005	98.23	.4375	14.11	14.36	513.5	.1088	.0012
#2	.0003	98.48	.4396	14.32	14.37	502.2	.1078	.0012
#3	.0047	98.85	.4428	14.38	14.41	504.9	.1082	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.006**	**-.0020**	**.6263**	**.0019**	**.0015**	**.0001**	**19.60**	**-.0008**
Stddev	.022	.0004	.0012	.0001	.0002	.0001	.04	.0013
%RSD	.3589	18.94	.1982	3.952	14.76	46.18	.1988	163.5
#1	6.005	-.0019	.6271	.0020	.0015	.0002	19.60	-.0022
#2	6.028	-.0018	.6249	.0018	.0012	.0001	19.63	-.0008
#3	5.985	-.0025	.6269	.0019	.0017	.0001	19.56	.0005

Zoom In Zoom Out

Sample Name: jc78859-5 7 Acquired: 12/6/2018 13:16:08 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0126**	**.0072**
Stddev	.0014	.0005
%RSD	11.30	6.781
#1	.0116	.0066
#2	.0142	.0073
#3	.0119	.0076

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98477.**	**4380.0**	**3982.9**	**9106.4**
Stddev	334.	11.8	7.5	4.3
%RSD	.33881	.27021	.18919	.04752
#1	98163.	4393.6	3985.7	9111.4
#2	98827.	4372.3	3974.4	9103.5
#3	98442.	4374.1	3988.7	9104.4

Zoom In Zoom Out

Sample Name: jc78859-5f Acquired: 12/6/2018 13:21:40 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1978**	**.0000**	**.0007**	**.0132**	**.0007**	**.0136**	**.9298**	**.0047**	**.0003**
Stddev	.0010	.0000	.0001	.0004	.0001	.0004	.0082	.0001	.0001
%RSD	.5094	73.72	20.81	3.033	21.02	2.777	.8862	1.683	26.66
#1	.1988	.0001	.0005	.0128	.0006	.0138	.9325	.0047	.0002
#2	.1968	.0000	.0007	.0132	.0009	.0137	.9363	.0047	.0003
#3	.1979	.0001	.0008	.0136	.0006	.0131	.9205	.0048	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0006**	**.0008**	**-.0008**	**.0022**	**.0024**	**-.0005**	**.0004**	**97.52**
Stddev	.0000	.0001	.0013	.0012	.0010	.0013	.0007	.0154	.32
%RSD	4.493	23.70	173.4	149.0	44.77	53.61	135.5	4332.	.3304
#1	.0005	-.0007	.0018	-.0020	.0017	.0039	-.0012	-.0067	97.58
#2	.0005	-.0005	.0013	-.0009	.0033	.0016	.0002	.0180	97.17
#3	.0005	-.0005	-.0007	.0005	.0016	.0017	-.0004	-.0103	97.81

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4109**	**14.09**	**14.26**	F **496.3**	**.1038**	**.0010**	**5.836**	**-.0014**	**.6202**
Stddev	.0027	.09	.03	4.8	.0006	.0001	.013	.0002	.0012
%RSD	.6633	.6236	.2127	.9688	.5767	7.253	.2199	14.79	.1994
#1	.4089	14.00	14.24	501.7	.1045	.0009	5.823	-.0013	.6214
#2	.4140	14.08	14.25	492.4	.1033	.0010	5.836	-.0016	.6189
#3	.4098	14.18	14.30	494.9	.1037	.0009	5.848	-.0012	.6202

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0012**	**-.0000**	**18.70**	**-.0016**	**.0169**	**.0065**
Stddev	.0002	.0010	.0000	.02	.0004	.0012	.0010
%RSD	17.69	83.35	102.1	.1151	26.64	7.256	14.97
#1	.0012	.0017	.0000	18.68	-.0018	.0156	.0064
#2	.0011	.0018	-.0001	18.72	-.0017	.0169	.0076
#3	.0016	.0000	-.0001	18.72	-.0011	.0181	.0057

Zoom In Zoom Out

Sample Name: jc78859-5f Acquired: 12/6/2018 13:21:40 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98877.**	**4325.5**	**4112.1**	**9379.8**
Stddev	782.	12.5	9.3	6.3
%RSD	.79045	.28894	.22520	.06742
#1	98523.	4328.6	4122.0	9384.4
#2	98334.	4336.2	4110.6	9372.6
#3	99773.	4311.8	4103.6	9382.3

Zoom In Zoom Out

Sample Name: jc78859-7 Acquired: 12/6/2018 13:27:12 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3525**	**.0000**	**.0009**	**.0029**	**.0008**	**.0083**	**1.557**	**.0031**
Stddev	.0013	.0001	.0000	.0003	.0001	.0001	.006	.0002
%RSD	.3681	183.7	2.884	9.514	11.02	.7766	.3852	5.537
#1	.3511	-.0000	.0009	.0028	.0007	.0084	1.564	.0032
#2	.3537	.0000	.0009	.0032	.0008	.0083	1.555	.0029
#3	.3527	.0001	.0008	.0027	.0009	.0082	1.553	.0032

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0005**	**.0002**	**.0010**	F **-.0028**	**.0027**	**.0010**	**-.0006**
Stddev	.0001	.0000	.0000	.0004	.0007	.0005	.0004	.0004
%RSD	48.21	5.455	14.37	43.65	23.82	17.49	43.81	61.90
#1	.0001	.0005	.0002	.0006	-.0021	.0022	.0015	-.0008
#2	.0002	.0006	.0002	.0014	-.0034	.0032	.0008	-.0009
#3	.0004	.0006	.0002	.0009	-.0029	.0026	.0007	-.0002

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0021**	**75.50**	**.1804**	**9.879**	**12.04**	F **587.5**	**.0930**	**.0009**
Stddev	.0159	.12	.0042	.062	.02	2.4	.0011	.0001
%RSD	759.3	.1627	2.303	.6233	.1374	.4163	1.161	9.635
#1	.0108	75.60	.1781	9.859	12.06	590.3	.0925	.0010
#2	-.0199	75.53	.1779	9.948	12.03	586.4	.0922	.0009
#3	.0027	75.36	.1852	9.830	12.05	585.9	.0942	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.018**	**-.0011**	**.5094**	**.0016**	**.0010**	**-.0001**	**19.78**	**-.0015**
Stddev	.111	.0009	.0006	.0002	.0001	.0001	.36	.0007
%RSD	1.850	81.58	.1093	15.42	14.38	246.7	1.846	45.44
#1	5.962	-.0004	.5089	.0019	.0009	-.0001	19.59	-.0022
#2	5.945	-.0007	.5100	.0014	.0010	.0001	19.54	-.0008
#3	6.146	-.0021	.5095	.0015	.0012	-.0002	20.20	-.0016

Zoom In Zoom Out

Sample Name: jc78859-7 Acquired: 12/6/2018 13:27:12 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0177**	**.0118**
Stddev	.0006	.0002
%RSD	3.498	2.064
#1	.0173	.0121
#2	.0185	.0116
#3	.0175	.0117

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98049.**	**4281.1**	**4105.6**	**9383.1**
Stddev	360.	8.9	65.7	146.5
%RSD	.36723	.20896	1.6005	1.5618
#1	97658.	4278.9	4141.3	9474.9
#2	98123.	4273.5	4145.8	9460.3
#3	98366.	4290.9	4029.8	9214.1

Zoom In Zoom Out

Sample Name: jc78859-7f Acquired: 12/6/2018 13:32:44 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3525**	**-.0000**	**.0010**	**.0028**	**.0008**	**.0084**	**1.514**	**.0026**
Stddev	.0012	.0001	.0001	.0000	.0003	.0002	.005	.0003
%RSD	.3387	205.1	12.89	.4023	34.19	1.965	.3474	10.42
#1	.3523	-.0001	.0008	.0028	.0007	.0086	1.520	.0026
#2	.3515	-.0000	.0010	.0028	.0011	.0084	1.509	.0023
#3	.3538	.0000	.0011	.0028	.0005	.0083	1.513	.0029

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0006**	**-.0002**	**.0002**	F **-.0048**	**.0028**	**.0011**	**-.0005**
Stddev	.0002	.0002	.0002	.0002	.0013	.0009	.0010	.0005
%RSD	103.9	34.88	75.83	88.29	27.15	33.08	89.05	99.36
#1	.0003	.0007	-.0001	.0002	-.0038	.0023	-.0000	-.0010
#2	-.0000	.0008	-.0002	.0000	-.0062	.0021	.0018	-.0004
#3	.0002	.0004	-.0004	.0004	-.0043	.0038	.0016	-.0000

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0085**	**73.82**	**.1666**	**9.567**	**11.83**	F **572.0**	**.0963**	**.0011**
Stddev	.0239	.11	.0016	.081	.02	2.9	.0008	.0001
%RSD	282.0	.1492	.9307	.8489	.1312	.5055	.8682	10.47
#1	.0001	73.94	.1653	9.586	11.82	568.9	.0957	.0011
#2	-.0355	73.80	.1661	9.636	11.82	574.6	.0972	.0012
#3	.0099	73.73	.1683	9.478	11.85	572.4	.0959	.0010

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.073**	**-.0012**	**.5035**	**.0011**	**.0005**	**-.0002**	**21.03**	**-.0018**
Stddev	.012	.0005	.0009	.0002	.0003	.0000	.03	.0015
%RSD	.2025	39.53	.1743	18.52	46.57	24.13	.1211	86.96
#1	6.059	-.0017	.5032	.0013	.0008	-.0002	21.00	-.0005
#2	6.079	-.0012	.5028	.0009	.0005	-.0002	21.05	-.0034
#3	6.082	-.0008	.5045	.0012	.0003	-.0001	21.04	-.0014

Zoom In Zoom Out

Sample Name: jc78859-7f Acquired: 12/6/2018 13:32:44 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0140**	**.0109**
Stddev	.0006	.0011
%RSD	4.066	9.735
#1	.0134	.0099
#2	.0145	.0108
#3	.0142	.0120

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98670.**	**4404.3**	**3909.6**	**8943.9**
Stddev	345.	11.8	8.4	8.8
%RSD	.34964	.26697	.21513	.09853
#1	98327.	4393.1	3919.0	8943.4
#2	99017.	4403.2	3902.9	8935.3
#3	98667.	4416.6	3906.8	8952.9

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 13:38:19 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.045**	**2.038**	**1.983**	**2.005**	**2.056**	**2.022**	**2.073**	**2.023**	**.2526**
Stddev	.004	.002	.002	.003	.013	.016	.025	.003	.0012
%RSD	.2185	.1102	.0956	.1557	.6063	.8086	1.189	.1394	.4757
#1	2.042	2.038	1.985	2.002	2.070	2.040	2.102	2.020	.2539
#2	2.050	2.040	1.983	2.007	2.047	2.018	2.058	2.025	.2516
#3	2.043	2.035	1.981	2.007	2.051	2.008	2.059	2.024	.2522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.045**	**1.989**	**1.963**	**2.043**	**2.020**	**1.928**	**2.006**	**40.51**	**39.96**
Stddev	.013	.000	.003	.002	.001	.003	.001	.06	.08
%RSD	.6502	.0158	.1477	.1184	.0487	.1545	.0474	.1531	.2078
#1	2.060	1.989	1.965	2.045	2.020	1.930	2.007	40.45	40.04
#2	2.037	1.989	1.964	2.042	2.019	1.930	2.006	40.57	39.88
#3	2.037	1.989	1.960	2.040	2.021	1.925	2.005	40.51	39.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.84**	**38.68**	**40.27**	**40.08**	**1.960**	**2.046**	**5.131**	**2.034**	**2.058**
Stddev	.01	.14	.02	.06	.003	.002	.009	.002	.004
%RSD	.0237	.3645	.0380	.1604	.1529	.1049	.1790	.0834	.1826
#1	39.84	38.80	40.25	40.04	1.962	2.048	5.142	2.035	2.056
#2	39.83	38.53	40.27	40.15	1.962	2.044	5.126	2.036	2.062
#3	39.85	38.71	40.28	40.04	1.957	2.045	5.126	2.033	2.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 13:38:19 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.060**	**2.005**	**2.082**	**1.911**	**1.987**	**2.093**	**1.939**
Stddev	.014	.002	.017	.005	.004	.007	.001
%RSD	.6589	.1132	.8262	.2389	.1838	.3226	.0588
#1	2.075	2.003	2.101	1.916	1.990	2.090	1.939
#2	2.055	2.007	2.075	1.910	1.988	2.101	1.941
#3	2.050	2.004	2.068	1.907	1.983	2.089	1.938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103690.**	**4355.9**	**4234.4**	**9924.7**
Stddev	716.	6.9	4.9	5.7
%RSD	.69021	.15861	.11649	.05774
#1	102870.	4348.5	4230.0	9930.1
#2	104170.	4362.3	4239.7	9925.4
#3	104030.	4356.8	4233.6	9918.7

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 13:43:31 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0001**	**.0003**	**-.0002**	**-.0002**	**.0001**	**.0001**	**.0001**
Stddev	.0003	.0000	.0002	.0002	.0002	.0001	.0000	.0002	.0002
%RSD	700.3	627.6	138.1	86.34	110.8	53.86	61.35	203.3	182.1
#1	-.0000	.0000	.0002	.0000	-.0001	-.0004	.0000	.0001	-.0001
#2	-.0002	-.0000	.0002	.0004	-.0003	-.0002	.0001	.0002	.0002
#3	.0003	-.0000	-.0001	.0004	-.0000	-.0001	.0001	-.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0003**	**-.0000**	**.0004**	**.0008**	**.0004**	**-.0001**	**-.0001**	**-.0030**
Stddev	.0001	.0002	.0006	.0004	.0007	.0008	.0009	.0086	.0029
%RSD	59.13	74.25	3847.	117.2	90.31	211.4	895.3	7010.	94.33
#1	.0002	-.0003	.0000	.0009	.0004	.0004	-.0001	-.0100	-.0007
#2	.0003	-.0001	-.0007	.0001	.0016	.0012	-.0010	.0042	-.0022
#3	.0001	-.0005	.0006	.0001	.0003	-.0004	.0008	.0055	-.0062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**.0203**	**.0694**	**.1679**	**.0022**	F **.0034**	**.0023**	**.0001**	**-.0001**
Stddev	.0003	.0206	.0076	.0008	.0001	.0006	.0006	.0006	.0000
%RSD	6.720	101.5	11.01	.4550	6.558	16.43	27.74	428.0	21.75
#1	.0043	.0175	.0775	.1676	.0022	.0040	.0026	.0008	-.0001
#2	.0044	.0420	.0685	.1673	.0022	.0031	.0028	-.0000	-.0001
#3	.0048	.0012	.0623	.1688	.0020	.0030	.0016	-.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 13:43:31 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0024**	**.0002**	**.0012**	**-.0013**	**.0024**	**.0017**
Stddev	.0002	.0016	.0001	.0011	.0010	.0004	.0008
%RSD	91.19	69.75	40.53	92.66	81.91	18.80	47.24
#1	.0004	.0007	.0001	.0009	-.0013	.0024	.0009
#2	-.0000	.0039	.0002	.0003	-.0023	.0019	.0017
#3	.0004	.0025	.0003	.0024	-.0002	.0028	.0024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107590.**	**4468.9**	**4262.5**	**9918.6**
Stddev	448.	18.7	13.8	25.5
%RSD	.41662	.41802	.32310	.25737
#1	107950.	4457.8	4256.0	9918.3
#2	107730.	4458.4	4253.1	9893.1
#3	107090.	4490.5	4278.3	9944.2

Zoom In Zoom Out

Sample Name: mp11033-mb1conf Acquired: 12/6/2018 13:49:05 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0002**	**.0005**	**.0009**	**-.0004**	**.0054**	**.0017**	**.0078**	**.0011**
Stddev	.0006	.0002	.0006	.0013	.0015	.0009	.0001	.0006	.0011
%RSD	237.2	68.77	108.0	145.0	402.9	16.61	7.598	7.375	103.5
#1	-.0000	.0002	.0007	.0018	-.0021	.0053	.0019	.0074	.0012
#2	-.0001	.0001	-.0001	.0015	-.0000	.0064	.0016	.0075	-.0001
#3	.0009	.0004	.0010	-.0006	.0009	.0046	.0017	.0084	.0021

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0157**	**-.0014**	**-.0084**	**.0023**	**-.0043**	**.0001**	**.0401**	**.3847**
Stddev	.0007	.0010	.0048	.0086	.0027	.0060	.0038	.0352	.0078
%RSD	2571.	6.432	342.5	102.2	120.6	139.7	3441.	87.96	2.033
#1	-.0005	.0166	.0041	-.0044	.0027	-.0112	-.0012	.0055	.3913
#2	-.0003	.0159	-.0045	-.0183	-.0007	-.0000	.0044	.0759	.3760
#3	.0007	.0146	-.0038	-.0026	.0047	-.0017	-.0029	.0388	.3867

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0757**	**.1764**	**2.056**	**F 1513.**	**.0131**	**.0072**	**.9595**	**.0009**	**.0048**
Stddev	.0214	.0696	.059	28.	.0025	.0010	.0052	.0035	.0012
%RSD	28.24	39.46	2.865	1.884	18.70	13.94	.5406	384.4	26.10
#1	.0524	.1033	1.990	1520.	.0145	.0073	.9568	.0039	.0054
#2	.0944	.1842	2.073	1538.	.0103	.0082	.9561	.0019	.0034
#3	.0803	.2418	2.104	1482.	.0146	.0062	.9654	-.0030	.0056

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**-.0007**	**.0008**	**.0485**	**-.0038**	**.0288**	**.0974**
Stddev	.0007	.0043	.0003	.0053	.0053	.0049	.0036
%RSD	29.84	649.3	36.67	10.91	138.9	17.10	3.663
#1	.0025	-.0016	.0005	.0536	-.0087	.0245	.0986
#2	.0028	-.0044	.0007	.0487	.0018	.0278	.0934
#3	.0015	.0040	.0011	.0430	-.0046	.0342	.1002

Zoom In Zoom Out

Sample Name: mp11033-mb1conf Acquired: 12/6/2018 13:49:05 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101870.**	**4475.6**	**4050.1**	**9288.3**
Stddev	731.	45.9	15.2	22.9
%RSD	.71773	1.0262	.37618	.24608
#1	102060.	4520.0	4032.5	9262.1
#2	101060.	4428.3	4058.4	9298.1
#3	102490.	4478.6	4059.5	9304.6

Zoom In Zoom Out

Sample Name: mp11033-s1 Acquired: 12/6/2018 13:54:44 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.403**	**2.244**	**1.912**	**1.953**	**2.041**	**2.003**	**5.423**	**2.014**	**.2513**
Stddev	.046	.043	.004	.004	.088	.090	.230	.010	.0112
%RSD	1.919	1.920	.2204	.2191	4.337	4.497	4.241	.5133	4.457
#1	2.448	2.283	1.916	1.956	2.136	2.099	5.668	2.026	.2637
#2	2.406	2.253	1.907	1.948	2.027	1.989	5.390	2.006	.2483
#3	2.356	2.198	1.913	1.955	1.961	1.920	5.212	2.010	.2419

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.024**	**49.48**	**1.915**	**1.974**	**1.969**	**1.922**	**1.888**	**29.96**	**56.39**
Stddev	.090	.21	.013	.009	.005	.014	.011	.69	1.08
%RSD	4.469	.4273	.6901	.4560	.2778	.7395	.5686	2.315	1.912
#1	2.121	49.66	1.918	1.970	1.973	1.936	1.880	30.64	57.42
#2	2.009	49.25	1.926	1.985	1.963	1.908	1.900	30.00	56.50
#3	1.942	49.55	1.900	1.968	1.972	1.923	1.885	29.25	55.27

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.19**	**29.60**	**44.67**	**1443.**	**2.122**	**1.941**	**1.454**	**1.915**	**2.387**
Stddev	.44	.45	1.15	35.	.007	.001	.010	.013	.047
%RSD	1.610	1.503	2.563	2.457	.3479	.0410	.6872	.6768	1.971
#1	27.49	29.71	45.60	1444.	2.130	1.941	1.456	1.900	2.434
#2	27.40	29.98	45.03	1478.	2.115	1.942	1.464	1.922	2.385
#3	26.69	29.11	43.39	1407.	2.120	1.942	1.444	1.922	2.340

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.024**	**1.856**	**1.938**	**22.36**	**-.0176**	**.0367**	**1.945**
Stddev	.088	.009	.080	.00	.0018	.0034	.008
%RSD	4.361	.4606	4.135	.0214	10.02	9.214	.3945
#1	2.118	1.861	2.024	22.37	-.0156	.0371	1.948
#2	2.010	1.846	1.925	22.36	-.0180	.0331	1.951
#3	1.943	1.861	1.865	22.36	-.0190	.0398	1.936

Zoom In Zoom Out

Sample Name: mp11033-s1 Acquired: 12/6/2018 13:54:44 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105030.**	**4341.2**	**4118.9**	**9412.8**
Stddev	65.	26.8	9.4	12.3
%RSD	.06234	.61760	.22793	.13019
#1	104980.	4372.1	4125.8	9422.3
#2	105100.	4324.8	4122.7	9417.2
#3	105010.	4326.7	4108.2	9399.0

Zoom In Zoom Out

Sample Name: mp11033-s2 Acquired: 12/6/2018 14:00:06 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.419**	**2.241**	**1.937**	**1.981**	**2.103**	**2.078**	**5.641**	**2.042**	**.2606**
Stddev	.037	.034	.054	.055	.047	.052	.130	.064	.0087
%RSD	1.541	1.521	2.806	2.755	2.239	2.516	2.307	3.128	3.348
#1	2.457	2.273	2.000	2.043	2.154	2.135	5.783	2.115	.2705
#2	2.418	2.246	1.912	1.956	2.093	2.065	5.614	2.014	.2573
#3	2.383	2.205	1.901	1.943	2.061	2.033	5.527	1.997	.2541

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.085**	**50.58**	**1.938**	**2.015**	**1.998**	**1.953**	**1.910**	**29.80**	**56.60**
Stddev	.050	1.36	.047	.077	.052	.061	.049	.28	.80
%RSD	2.389	2.685	2.422	3.832	2.611	3.140	2.540	.9444	1.408
#1	2.139	52.14	1.990	2.101	2.055	2.021	1.962	30.09	57.26
#2	2.073	49.93	1.924	1.991	1.987	1.939	1.902	29.76	56.82
#3	2.042	49.67	1.899	1.953	1.952	1.900	1.866	29.53	55.72

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.02**	**29.02**	**44.91**	**1472.**	**2.166**	**1.972**	**1.509**	**1.947**	**2.403**
Stddev	.39	.42	.66	27.	.069	.061	.040	.064	.037
%RSD	1.435	1.463	1.475	1.802	3.168	3.097	2.626	3.279	1.526
#1	27.34	29.27	45.59	1494.	2.241	2.042	1.553	2.018	2.439
#2	27.13	29.25	44.87	1478.	2.149	1.949	1.496	1.931	2.406
#3	26.59	28.53	44.27	1443.	2.107	1.927	1.477	1.893	2.365

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.094**	**1.897**	**2.063**	**23.00**	**-.0160**	**.0299**	**1.981**
Stddev	.053	.048	.048	.64	.0108	.0088	.057
%RSD	2.543	2.531	2.321	2.766	67.24	29.37	2.849
#1	2.152	1.952	2.115	23.71	-.0070	.0300	2.044
#2	2.084	1.869	2.053	22.81	-.0279	.0386	1.965
#3	2.047	1.869	2.021	22.48	-.0131	.0211	1.934

Zoom In Zoom Out

Sample Name: mp11033-s2 Acquired: 12/6/2018 14:00:06 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105510.**	**4376.4**	**4107.1**	**9371.4**
Stddev	90.	10.2	2.9	13.4
%RSD	.08523	.23359	.07171	.14308
#1	105420.	4371.3	4107.1	9367.0
#2	105500.	4369.8	4110.0	9386.4
#3	105600.	4388.2	4104.1	9360.7

Zoom In Zoom Out

Sample Name: jc78233-2 Acquired: 12/6/2018 14:05:28 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2157**	**.0043**	**.0290**	**.0365**	**-.0008**	**.0311**	**3.559**	**.0556**	**-.0019**
Stddev	.0047	.0002	.0001	.0022	.0021	.0030	.059	.0051	.0018
%RSD	2.177	5.482	.4953	5.953	259.9	9.655	1.657	9.127	93.94
#1	.2142	.0046	.0289	.0351	-.0015	.0342	3.621	.0570	-.0037
#2	.2209	.0042	.0292	.0390	.0016	.0310	3.551	.0599	-.0020
#3	.2119	.0041	.0289	.0353	-.0025	.0282	3.504	.0500	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**50.08**	**.0061**	**-.0158**	**-.0052**	**.0064**	**-.0031**	**2.472**	**28.54**
Stddev	.0027	1.40	.0108	.0162	.0040	.0086	.0015	.151	.14
%RSD	159.7	2.795	177.8	102.8	75.51	133.3	48.35	6.090	.4962
#1	.0003	51.69	.0024	-.0330	-.0098	.0091	-.0023	2.535	28.68
#2	.0048	49.42	.0183	-.0138	-.0034	.0134	-.0021	2.300	28.40
#3	-.0000	49.13	-.0024	-.0007	-.0025	-.0032	-.0048	2.581	28.55

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0111**	**3.192**	**16.27**	**1388.**	**.2367**	**.0101**	**1.477**	**-.0029**	**.1829**
Stddev	.0674	.308	.05	8.	.0064	.0009	.039	.0039	.0017
%RSD	608.6	9.651	.2818	.5912	2.701	8.827	2.631	133.1	.9065
#1	-.0229	3.145	16.27	1389.	.2415	.0111	1.521	.0011	.1846
#2	.0614	2.911	16.31	1379.	.2294	.0099	1.450	-.0066	.1813
#3	-.0717	3.521	16.22	1395.	.2392	.0094	1.459	-.0033	.1828

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0352**	**.0233**	**23.92**	**-.0021**	**.0288**	**.0300**
Stddev	.0018	.0189	.0013	.64	.0097	.0075	.0108
%RSD	765.3	53.55	5.722	2.657	469.7	26.02	35.93
#1	-.0017	-.0481	.0247	24.65	-.0133	.0251	.0240
#2	.0018	-.0440	.0229	23.63	.0040	.0239	.0424
#3	-.0007	-.0136	.0221	23.49	.0031	.0375	.0236

Zoom In Zoom Out

Sample Name: jc78233-2 Acquired: 12/6/2018 14:05:28 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105130.**	**4392.1**	**4082.8**	**9303.9**
Stddev	1258.	9.1	6.8	11.8
%RSD	1.1968	.20795	.16688	.12712
#1	103770.	4400.0	4078.6	9296.6
#2	105370.	4394.2	4079.2	9297.6
#3	106250.	4382.1	4090.7	9317.5

Zoom In Zoom Out

Sample Name: mp11033-sd1 Acquired: 12/6/2018 14:10:57 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2086**	**.0037**	**.0377**	**.0539**	**-.0111**	**.0266**	**3.541**	**.0582**	**.0110**
Stddev	.0145	.0042	.0015	.0182	.0021	.0090	.015	.0181	.0020
%RSD	6.933	112.1	3.924	33.84	19.08	33.79	.4193	31.07	17.94
#1	.2166	-.0009	.0394	.0423	-.0125	.0165	3.525	.0383	.0133
#2	.1919	.0047	.0370	.0749	-.0120	.0337	3.547	.0629	.0103
#3	.2172	.0074	.0368	.0444	-.0086	.0295	3.552	.0736	.0095

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**54.99**	**.0014**	**.0009**	**.0100**	**.0198**	**.0198**	**2.487**	**28.01**
Stddev	.0031	.10	.0291	.0608	.0096	.0770	.0471	.066	.26
%RSD	877.9	.1733	2152.	6700.	96.68	388.6	238.0	2.651	.9242
#1	.0004	54.98	.0154	.0458	.0149	-.0663	-.0297	2.507	27.95
#2	.0023	55.09	.0207	-.0683	.0161	.0438	.0252	2.413	27.78
#3	-.0038	54.90	-.0321	.0253	-.0011	.0820	.0639	2.540	28.29

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.1242**	**2.604**	**14.89**	**1379.**	**.2885**	**.0232**	**1.705**	**-.0215**	**.1788**
Stddev	.4084	1.539	1.25	2.	.0073	.0108	.018	.0366	.0071
%RSD	328.9	59.10	8.366	.1310	2.523	46.77	1.082	170.4	3.972
#1	-.5756	2.855	15.88	1377.	.2934	.0107	1.689	-.0373	.1760
#2	.2196	4.003	15.29	1380.	.2802	.0285	1.725	.0204	.1735
#3	-.0165	.9551	13.49	1380.	.2920	.0303	1.699	-.0474	.1868

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0082**	**.0350**	**25.56**	**-.0225**	**.0567**	**.0803**
Stddev	.0050	.0252	.0037	.05	.0428	.0166	.0300
%RSD	1224.	306.4	10.43	.2014	190.3	29.36	37.43
#1	-.0040	-.0176	.0389	25.61	-.0221	.0753	.0865
#2	-.0006	.0096	.0316	25.50	.0201	.0513	.0476
#3	.0058	.0327	.0345	25.56	-.0654	.0434	.1067

Zoom In Zoom Out

Sample Name: mp11033-sd1 Acquired: 12/6/2018 14:10:57 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107350.**	**4334.4**	**4050.6**	**9349.2**
Stddev	402.	3.9	9.3	12.4
%RSD	.37410	.09051	.22959	.13308
#1	107810.	4338.4	4056.8	9360.5
#2	107190.	4334.2	4055.1	9351.3
#3	107050.	4330.6	4039.9	9335.9

Zoom In Zoom Out

Sample Name: mp11016-mb1conf Acquired: 12/6/2018 14:16:23 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0003**	**.0000**	**.0007**	**.0012**	**.0002**	**.0005**	**.0001**
Stddev	.0002	.0001	.0001	.0002	.0001	.0002	.0000	.0001	.0001
%RSD	184.2	846.5	32.40	1869.	17.31	14.35	15.46	27.39	109.3
#1	.0001	-.0000	.0003	-.0002	.0008	.0012	.0002	.0005	-.0000
#2	-.0001	-.0000	.0002	.0001	.0006	.0011	.0001	.0004	.0003
#3	.0003	.0001	.0003	.0001	.0007	.0014	.0002	.0007	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0026**	**-.0009**	**-.0016**	**.0003**	**-.0001**	**.0003**	**.0060**	**.0236**
Stddev	.0001	.0001	.0009	.0006	.0005	.0010	.0005	.0102	.0053
%RSD	111.3	4.938	94.09	38.96	164.9	702.3	167.7	170.2	22.56
#1	-.0001	.0027	-.0003	-.0011	.0007	-.0012	-.0002	.0043	.0289
#2	-.0001	.0025	-.0005	-.0023	.0004	.0005	.0008	.0170	.0236
#3	.0000	.0026	-.0019	-.0015	-.0002	.0003	.0003	-.0033	.0183

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0149**	**.0107**	**.0178**	**.1342**	**.0010**	**.0007**	**.0073**	**.0152**	**.0001**
Stddev	.0009	.0188	.0185	.0024	.0002	.0003	.0007	.0010	.0000
%RSD	5.898	175.4	103.6	1.801	25.60	49.75	9.593	6.773	34.15
#1	.0158	.0106	.0121	.1316	.0007	.0011	.0070	.0164	.0001
#2	.0141	.0295	.0029	.1364	.0010	.0004	.0068	.0149	.0001
#3	.0147	-.0080	.0385	.1347	.0012	.0005	.0081	.0144	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0004**	**.0011**	**.0074**	**-.0012**	**-.0005**	**.0186**
Stddev	.0001	.0012	.0001	.0007	.0004	.0006	.0006
%RSD	10.41	333.6	6.732	9.568	30.06	105.7	3.260
#1	.0006	.0017	.0011	.0080	-.0012	-.0011	.0192
#2	.0006	-.0004	.0010	.0066	-.0009	-.0005	.0180
#3	.0005	-.0002	.0011	.0076	-.0016	.0000	.0185

Zoom In Zoom Out

Sample Name: mp11016-mb1conf Acquired: 12/6/2018 14:16:23 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107640.**	**4290.1**	**4027.3**	**9337.9**
Stddev	327.	17.0	3.5	16.4
%RSD	.30402	.39728	.08569	.17606
#1	107400.	4302.8	4029.1	9333.3
#2	108010.	4270.7	4023.3	9324.3
#3	107490.	4296.7	4029.5	9356.2

Zoom In Zoom Out

Sample Name: mp11016-s1 Acquired: 12/6/2018 14:21:54 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.372**	**1.913**	**1.873**	**2.079**	**2.087**	**1.927**	**10.45**	**2.311**	**.2348**
Stddev	.006	.005	.001	.002	.013	.019	.04	.001	.0004
%RSD	.2411	.2793	.0428	.0819	.6095	.9686	.3744	.0610	.1705
#1	2.378	1.907	1.874	2.078	2.100	1.948	10.45	2.312	.2345
#2	2.370	1.918	1.872	2.081	2.074	1.911	10.41	2.309	.2353
#3	2.367	1.914	1.873	2.078	2.088	1.923	10.49	2.311	.2347

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.421**	**4.149**	**1.990**	**1.843**	**1.959**	**1.888**	**.9683**	**172.5**	**57.93**
Stddev	.021	.004	.004	.015	.005	.002	.0016	.4	.14
%RSD	.8673	.0904	.2080	.8320	.2566	.0914	.1618	.2316	.2460
#1	2.440	4.150	1.985	1.853	1.955	1.888	.9690	172.0	57.85
#2	2.398	4.152	1.991	1.852	1.957	1.886	.9693	172.8	57.85
#3	2.425	4.145	1.994	1.826	1.964	1.889	.9665	172.5	58.09

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**550.2**	**57.74**	**38.22**	**25.03**	**1.673**	**1.860**	**5.420**	**1.754**	**2.053**
Stddev	1.4	.37	.05	.06	.005	.001	.028	.006	.003
%RSD	.2518	.6377	.1233	.2415	.3124	.0430	.5223	.3524	.1384
#1	549.4	57.32	38.26	24.97	1.676	1.859	5.448	1.760	2.053
#2	551.8	57.93	38.22	25.09	1.668	1.860	5.421	1.748	2.056
#3	549.4	57.98	38.16	25.03	1.677	1.860	5.392	1.754	2.050

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.480**	**1.407**	**1.900**	**49.20**	**.0116**	**.3743**	**3.485**
Stddev	.014	.014	.014	.05	.0023	.0051	.004
%RSD	.9352	.9579	.7298	.0951	19.71	1.360	.1277
#1	1.496	1.419	1.914	49.24	.0112	.3685	3.485
#2	1.470	1.410	1.886	49.15	.0141	.3780	3.481
#3	1.475	1.392	1.900	49.22	.0096	.3764	3.490

Zoom In Zoom Out

Sample Name: mp11016-s1 Acquired: 12/6/2018 14:21:54 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106580.**	**4227.2**	**4002.9**	**9338.8**
Stddev	957.	22.8	2.1	3.1
%RSD	.89818	.53963	.05289	.03308
#1	105570.	4253.1	4000.5	9342.2
#2	107480.	4218.7	4004.3	9337.8
#3	106680.	4209.9	4004.0	9336.3

Zoom In Zoom Out

Sample Name: mp11016-s2 Acquired: 12/6/2018 14:27:05 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.330**	**1.952**	**1.904**	**2.077**	**2.083**	**1.947**	**8.305**	**2.269**	**.2343**
Stddev	.004	.007	.004	.002	.013	.019	.051	.003	.0015
%RSD	.1683	.3676	.1826	.0951	.6413	.9742	.6132	.1228	.6566
#1	2.333	1.961	1.904	2.075	2.096	1.968	8.357	2.266	.2347
#2	2.331	1.949	1.907	2.078	2.069	1.931	8.255	2.270	.2326
#3	2.326	1.948	1.900	2.079	2.083	1.942	8.303	2.271	.2355

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.307**	**3.636**	**2.029**	**1.893**	**2.003**	**1.909**	**1.064**	**162.1**	**50.06**
Stddev	.015	.004	.010	.013	.004	.013	.009	.6	.18
%RSD	.6480	.1203	.4894	.6721	.2210	.6718	.8509	.3760	.3658
#1	2.322	3.640	2.024	1.906	1.999	1.920	1.061	162.8	50.27
#2	2.292	3.637	2.040	1.881	2.008	1.911	1.074	162.1	50.00
#3	2.308	3.631	2.022	1.890	2.003	1.895	1.057	161.6	49.92

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**432.4**	**50.37**	**37.81**	**25.44**	**1.752**	**1.918**	**6.169**	**1.815**	**2.075**
Stddev	2.1	.15	.13	.06	.012	.015	.053	.005	.005
%RSD	.4892	.2885	.3522	.2443	.6954	.7785	.8651	.3052	.2464
#1	434.4	50.54	37.95	25.50	1.753	1.914	6.157	1.813	2.081
#2	432.7	50.32	37.69	25.43	1.764	1.935	6.227	1.821	2.073
#3	430.2	50.26	37.79	25.38	1.740	1.906	6.122	1.810	2.071

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.535**	**1.496**	**1.944**	**48.76**	**.0078**	**.3279**	**3.133**
Stddev	.013	.004	.015	.05	.0009	.0038	.025
%RSD	.8757	.2764	.7526	.0970	11.28	1.161	.7943
#1	1.546	1.491	1.959	48.78	.0087	.3322	3.139
#2	1.520	1.499	1.929	48.79	.0070	.3266	3.155
#3	1.539	1.497	1.945	48.70	.0076	.3250	3.106

Zoom In Zoom Out

Sample Name: mp11016-s2 Acquired: 12/6/2018 14:27:05 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106080.**	**4228.0**	**4053.4**	**9453.2**
Stddev	808.	22.6	15.0	23.1
%RSD	.76140	.53511	.36916	.24418
#1	105170.	4207.2	4041.2	9433.1
#2	106710.	4224.8	4048.8	9448.2
#3	106360.	4252.1	4070.1	9478.4

Zoom In Zoom Out

Sample Name: jc78814-9 Acquired: 12/6/2018 14:32:10 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.476**	**.0087**	**.0301**	**.0742**	**2.938**	**34.64**	**1.237**	**.6369**	**.0199**
Stddev	.002	.0002	.0008	.0002	.003	.15	.000	.0010	.0015
%RSD	.0636	2.564	2.516	.2918	.0873	.4378	.0164	.1601	7.425
#1	3.478	.0084	.0303	.0740	2.940	34.53	1.237	.6374	.0202
#2	3.477	.0089	.0293	.0743	2.938	34.81	1.237	.6357	.0213
#3	3.474	.0088	.0308	.0744	2.935	34.57	1.237	.6375	.0183

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4740**	**7.984**	**.3606**	**-.0039**	**19.14**	**.0239**	**.4645**	**83.65**	**38.20**
Stddev	.0011	.014	.0049	.0081	.01	.0062	.0071	.39	.23
%RSD	.2310	.1801	1.362	207.5	.0565	26.00	1.528	.4711	.6130
#1	.4739	7.976	.3660	.0052	19.14	.0274	.4597	83.97	37.99
#2	.4751	8.001	.3564	-.0103	19.14	.0167	.4726	83.78	38.46
#3	.4729	7.976	.3595	-.0066	19.16	.0276	.4611	83.21	38.16

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**398.8**	**14.41**	**20.09**	**1.426**	**.1547**	**.0527**	**3.294**	**2.056**	**.4890**
Stddev	.8	.16	.11	.022	.0017	.0012	.002	.007	.0023
%RSD	.2003	1.085	.5366	1.524	1.112	2.214	.0741	.3593	.4767
#1	398.3	14.23	19.98	1.424	.1567	.0536	3.293	2.050	.4864
#2	399.8	14.51	20.12	1.448	.1536	.0531	3.292	2.064	.4909
#3	398.5	14.49	20.19	1.405	.1539	.0514	3.297	2.053	.4898

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.759**	**-.0022**	**.0964**	**19.99**	**.0450**	**.1008**	**9.844**
Stddev	.004	.0011	.0017	.04	.0039	.0030	.019
%RSD	.2238	49.03	1.748	.1799	8.709	2.998	.1898
#1	1.756	-.0021	.0981	19.95	.0491	.1003	9.831
#2	1.763	-.0012	.0962	20.01	.0413	.0981	9.865
#3	1.756	-.0033	.0948	20.01	.0446	.1041	9.834

Zoom In Zoom Out

Sample Name: jc78814-9 Acquired: 12/6/2018 14:32:10 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107620.**	**4291.8**	**3996.3**	**9363.0**
Stddev	62.	9.8	4.5	7.6
%RSD	.05799	.22790	.11363	.08132
#1	107690.	4298.8	4001.3	9363.2
#2	107570.	4280.6	3992.6	9370.6
#3	107600.	4296.0	3994.9	9355.3

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 14:37:35 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.049**	**2.041**	**1.986**	**2.002**	**2.043**	**2.027**	**2.079**	**2.020**	**.2523**
Stddev	.002	.005	.011	.009	.003	.005	.008	.006	.0005
%RSD	.0786	.2636	.5346	.4369	.1315	.2438	.3887	.3239	.1986
#1	2.047	2.041	1.980	1.997	2.046	2.031	2.083	2.014	.2526
#2	2.050	2.046	1.998	2.012	2.041	2.022	2.069	2.027	.2518
#3	2.048	2.035	1.980	1.996	2.041	2.030	2.084	2.018	.2526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.039**	**1.981**	**1.950**	**2.050**	**2.017**	**1.919**	**2.003**	**40.72**	**40.06**
Stddev	.002	.007	.012	.013	.010	.012	.010	.09	.19
%RSD	.0788	.3722	.6327	.6264	.4851	.6155	.5206	.2175	.4724
#1	2.041	1.974	1.943	2.044	2.012	1.914	1.997	40.68	39.90
#2	2.038	1.988	1.965	2.065	2.028	1.933	2.015	40.83	40.27
#3	2.039	1.981	1.943	2.042	2.010	1.911	1.997	40.66	40.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.59**	**38.77**	**40.98**	**41.11**	**1.951**	**2.047**	**5.131**	**2.037**	**2.063**
Stddev	.12	.18	.14	.06	.012	.011	.034	.007	.004
%RSD	.3015	.4538	.3490	.1502	.6359	.5351	.6553	.3673	.1695
#1	39.50	38.76	40.87	41.10	1.946	2.040	5.110	2.033	2.062
#2	39.73	38.95	41.14	41.18	1.966	2.060	5.170	2.046	2.067
#3	39.56	38.60	40.93	41.05	1.943	2.041	5.114	2.033	2.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 14:37:35 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.054**	**2.009**	**2.085**	**1.892**	**1.996**	**2.119**	**1.936**
Stddev	.004	.010	.003	.012	.014	.003	.011
%RSD	.1799	.4846	.1235	.6103	.7090	.1414	.5575
#1	2.058	2.003	2.088	1.885	1.989	2.122	1.930
#2	2.051	2.020	2.083	1.906	2.012	2.119	1.948
#3	2.053	2.005	2.084	1.887	1.986	2.116	1.929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103850.**	**4243.1**	**4238.1**	**9959.0**
Stddev	325.	12.5	15.8	30.4
%RSD	.31341	.29472	.37259	.30556
#1	103690.	4251.6	4245.5	9974.1
#2	104230.	4228.7	4220.0	9923.9
#3	103640.	4248.9	4248.9	9978.8

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 14:42:48 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0000**	**.0002**	**.0003**	**-.0000**	**.0000**	**.0000**	**.0006**	**.0001**
Stddev	.0005	.0000	.0002	.0003	.0001	.0002	.0000	.0002	.0002
%RSD	2457.	11.37	86.98	92.70	365.2	698.5	78.61	36.83	216.3
#1	-.0004	.0000	.0002	-.0000	-.0000	.0001	.0001	.0004	.0003
#2	-.0002	.0000	.0000	.0005	-.0002	-.0002	.0000	.0005	-.0001
#3	.0006	.0000	.0003	.0003	.0001	.0002	.0000	.0008	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0002**	**.0014**	**.0010**	**.0007**	**.0000**	**.0005**	**.0056**	**-.0013**
Stddev	.0002	.0000	.0005	.0018	.0008	.0005	.0008	.0096	.0059
%RSD	120.3	20.95	35.68	180.5	114.9	5574.	158.7	170.5	455.8
#1	.0004	-.0002	.0009	.0023	-.0002	-.0006	.0015	-.0026	.0028
#2	.0001	-.0002	.0015	-.0011	.0011	.0002	.0001	.0162	-.0081
#3	.0000	-.0001	.0018	.0017	.0012	.0004	.0000	.0033	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**-.0098**	**.0044**	**.0621**	**.0027**	F **.0032**	**.0010**	**.0000**	**.0001**
Stddev	.0072	.0258	.0049	.0025	.0004	.0003	.0009	.0005	.0002
%RSD	1227.	263.3	112.1	3.998	16.41	9.875	95.48	3187.	148.9
#1	.0010	.0006	.0097	.0644	.0030	.0035	.0002	.0006	-.0001
#2	-.0069	-.0392	.0036	.0624	.0030	.0033	.0020	-.0001	.0002
#3	.0076	.0092	-.0001	.0595	.0022	.0029	.0008	-.0005	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 14:42:48 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0017**	**.0002**	**.0010**	**-.0003**	**-.0004**	**.0005**
Stddev	.0000	.0005	.0001	.0007	.0012	.0004	.0009
%RSD	15.63	31.92	22.73	75.79	357.3	97.22	157.9
#1	-.0001	.0020	.0002	.0015	-.0008	-.0003	.0002
#2	-.0001	.0019	.0002	.0001	-.0012	-.0001	.0015
#3	-.0002	.0011	.0003	.0013	.0010	-.0009	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107480.**	**4418.9**	**4363.4**	**10238.**
Stddev	354.	15.8	7.7	13.
%RSD	.32920	.35785	.17666	.13146
#1	107790.	4416.4	4356.8	10240.
#2	107560.	4435.9	4361.4	10223.
#3	107100.	4404.6	4371.9	10250.

Zoom In Zoom Out

Sample Name: jc78814-4a Acquired: 12/6/2018 14:48:21 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1227**	**.0110**	**.0013**	**.0334**	**1.034**	**.7775**	**.5632**	**.0931**	**.0006**
Stddev	.0012	.0003	.0010	.0014	.007	.0013	.0036	.0017	.0007
%RSD	.9888	3.051	80.08	4.337	.7228	.1671	.6397	1.829	111.3
#1	.1239	.0111	.0022	.0336	1.042	.7778	.5670	.0932	.0013
#2	.1215	.0107	.0002	.0348	1.030	.7787	.5625	.0948	.0001
#3	.1226	.0113	.0014	.0319	1.029	.7761	.5599	.0914	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9042**	**.6765**	**.0936**	**.0032**	**.6376**	**.0083**	**.0183**	**120.6**	**7.512**
Stddev	.0021	.0179	.0054	.0006	.0127	.0027	.0080	.0	.062
%RSD	.2330	2.641	5.739	19.72	1.989	31.91	43.70	.0226	.8220
#1	.9064	.6848	.0894	.0037	.6402	.0083	.0276	120.6	7.574
#2	.9041	.6887	.0997	.0033	.6488	.0110	.0144	120.6	7.450
#3	.9022	.6560	.0918	.0025	.6238	.0057	.0130	120.7	7.512

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**399.9**	**14.58**	**34.49**	**.5155**	**.2463**	**.0092**	**2.645**	**.0249**	**.0559**
Stddev	.3	.25	.02	.0200	.0110	.0010	.088	.0007	.0000
%RSD	.0850	1.690	.0460	3.883	4.457	11.13	3.332	2.906	.0284
#1	399.9	14.78	34.51	.5154	.2522	.0102	2.695	.0251	.0560
#2	399.6	14.65	34.49	.5356	.2531	.0092	2.696	.0241	.0559
#3	400.3	14.30	34.48	.4956	.2336	.0082	2.543	.0254	.0560

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.149**	**.0030**	**.0843**	**1.283**	**.0130**	**.0389**	**6.136**
Stddev	.011	.0037	.0007	.036	.0046	.0040	.171
%RSD	.4924	120.3	.7752	2.847	35.06	10.27	2.780
#1	2.161	.0064	.0836	1.310	.0102	.0432	6.212
#2	2.143	-.0008	.0845	1.299	.0105	.0380	6.255
#3	2.142	.0035	.0849	1.242	.0182	.0354	5.940

Zoom In Zoom Out

Sample Name: jc78814-4a Acquired: 12/6/2018 14:48:21 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107500.**	**4302.2**	**4479.2**	**10529.**
Stddev	186.	13.4	124.6	272.
%RSD	.17341	.31259	2.7815	2.5811
#1	107290.	4292.2	4411.2	10370.
#2	107630.	4317.5	4403.4	10374.
#3	107590.	4296.8	4623.0	10843.

Zoom In Zoom Out

Sample Name: jc78814-5a Acquired: 12/6/2018 14:53:43 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1559**	**.0126**	**.0043**	**.0425**	**1.115**	**1.387**	**.6795**	**.1171**	**.0010**
Stddev	.0003	.0002	.0006	.0011	.004	.007	.0033	.0012	.0018
%RSD	.2149	1.274	13.78	2.535	.3879	.5110	.4805	1.010	181.3
#1	.1557	.0126	.0050	.0430	1.118	1.392	.6820	.1182	.0005
#2	.1562	.0125	.0042	.0433	1.118	1.391	.6806	.1159	-.0005
#3	.1556	.0128	.0038	.0413	1.110	1.379	.6758	.1174	.0030

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9690**	**1.069**	**.1056**	**-.0012**	**.8486**	**.0072**	**.0201**	**118.1**	**7.603**
Stddev	.0048	.004	.0015	.0063	.0064	.0016	.0029	.5	.059
%RSD	.4969	.3291	1.377	514.2	.7589	22.62	14.28	.4221	.7828
#1	.9726	1.068	.1059	.0030	.8493	.0087	.0168	118.4	7.567
#2	.9709	1.066	.1041	.0018	.8546	.0055	.0217	118.3	7.672
#3	.9636	1.073	.1069	-.0085	.8418	.0073	.0219	117.5	7.570

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**430.5**	**14.91**	**37.03**	**.4693**	**.2866**	**.0087**	**2.883**	**.0216**	**.0587**
Stddev	1.2	.07	.30	.0343	.0012	.0002	.003	.0025	.0009
%RSD	.2748	.4530	.8144	7.304	.4107	1.954	.1178	11.40	1.565
#1	431.8	14.90	37.26	.4410	.2856	.0085	2.882	.0242	.0594
#2	430.4	14.85	37.16	.5074	.2879	.0088	2.886	.0194	.0590
#3	429.4	14.98	36.69	.4595	.2863	.0088	2.879	.0211	.0576

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.288**	**.0059**	**.0897**	**1.273**	**.0101**	**.0368**	**7.270**
Stddev	.009	.0022	.0007	.006	.0007	.0027	.026
%RSD	.3919	37.37	.7861	.4530	6.546	7.199	.3650
#1	2.290	.0035	.0905	1.278	.0097	.0397	7.244
#2	2.297	.0079	.0893	1.267	.0109	.0362	7.269
#3	2.279	.0062	.0892	1.274	.0097	.0345	7.297

Zoom In Zoom Out

Sample Name: jc78814-5a Acquired: 12/6/2018 14:53:43 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107800.**	**4362.7**	**4085.3**	**9529.7**
Stddev	429.	9.5	7.8	16.2
%RSD	.39805	.21859	.19078	.16958
#1	107530.	4373.6	4077.1	9511.2
#2	107560.	4355.8	4092.6	9540.9
#3	108290.	4358.8	4086.4	9537.0

Zoom In Zoom Out

Sample Name: jc78735-1 Acquired: 12/6/2018 14:59:01 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0527**	**.0024**	**.0029**	**.0026**	**.0334**	**.0088**	**.3821**	**.0083**	**.0006**
Stddev	.0007	.0002	.0001	.0004	.0001	.0003	.0021	.0005	.0003
%RSD	1.396	7.457	4.461	13.36	.4116	3.107	.5394	6.084	53.98
#1	.0535	.0022	.0030	.0023	.0335	.0090	.3827	.0080	.0003
#2	.0520	.0024	.0028	.0025	.0334	.0090	.3798	.0080	.0007
#3	.0525	.0025	.0030	.0030	.0332	.0085	.3838	.0089	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0505**	**.4492**	**.0026**	**.0050**	**.1830**	**-.0009**	**.0003**	**16.55**	**71.82**
Stddev	.0006	.0017	.0007	.0011	.0018	.0023	.0024	.07	.16
%RSD	1.217	.3848	28.34	23.03	.9662	254.6	761.2	.4341	.2267
#1	.0505	.4510	.0023	.0040	.1829	.0018	.0001	16.63	71.97
#2	.0498	.4492	.0034	.0047	.1814	-.0023	.0028	16.49	71.65
#3	.0511	.4475	.0020	.0062	.1849	-.0022	-.0020	16.54	71.85

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.189**	**8.690**	**3.772**	**9.821**	**.1359**	**.0014**	**24.74**	**-.0019**	**9.466**
Stddev	.015	.032	.079	.010	.0012	.0005	.10	.0012	.026
%RSD	.2786	.3711	2.087	.1009	.8889	37.82	.4043	62.84	.2757
#1	5.203	8.727	3.855	9.822	.1346	.0020	24.85	-.0022	9.496
#2	5.174	8.668	3.698	9.811	.1369	.0013	24.65	-.0006	9.453
#3	5.190	8.675	3.763	9.830	.1362	.0009	24.74	-.0029	9.449

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**-.0002**	**.0022**	**119.7**	**-.0036**	**.0454**	**.2247**
Stddev	.0001	.0006	.0002	.4	.0026	.0026	.0013
%RSD	6.391	266.3	7.934	.3175	72.13	5.826	.5742
#1	.0023	-.0004	.0022	120.0	-.0020	.0424	.2261
#2	.0021	.0005	.0024	119.3	-.0022	.0464	.2244
#3	.0023	-.0007	.0021	119.7	-.0066	.0474	.2236

Zoom In / Zoom Out

Sample Name: jc78735-1 Acquired: 12/6/2018 14:59:01 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105900.**	**4220.9**	**3963.0**	**9227.7**
Stddev	441.	12.5	8.8	14.9
%RSD	.41608	.29663	.22321	.16137
#1	105890.	4212.5	3958.1	9223.9
#2	106350.	4235.3	3973.2	9244.2
#3	105470.	4215.1	3957.6	9215.1

Zoom In / Zoom Out

Sample Name: jc78735-3 Acquired: 12/6/2018 15:04:22 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0325**	**.0011**	**.0010**	**-.0006**	**.0031**	**.0022**	**.6237**	**.0001**	**.0002**
Stddev	.0003	.0002	.0002	.0005	.0004	.0006	.0023	.0008	.0005
%RSD	.8385	14.76	17.72	81.11	12.23	25.62	.3721	821.0	263.3
#1	.0323	.0013	.0009	-.0009	.0029	.0022	.6238	-.0008	-.0001
#2	.0328	.0011	.0012	-.0000	.0028	.0027	.6259	.0003	.0008
#3	.0324	.0010	.0009	-.0008	.0035	.0016	.6213	.0007	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0438**	**.0031**	**.0058**	**-.0013**	**-.0008**	**.0008**	**.0001**	**3.118**	**52.06**
Stddev	.0008	.0002	.0025	.0036	.0014	.0008	.0007	.027	.12
%RSD	1.797	7.935	42.70	266.7	173.2	99.32	1229.	.8769	.2288
#1	.0434	.0031	.0063	-.0007	-.0011	.0016	.0006	3.097	51.96
#2	.0447	.0028	.0031	-.0052	-.0022	.0001	-.0008	3.108	52.19
#3	.0433	.0033	.0079	.0018	.0007	.0006	.0004	3.149	52.04

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.26**	**8.334**	**4.206**	**63.19**	**.1633**	**.0004**	**14.66**	**-.0011**	**10.14**
Stddev	.10	.104	.012	.07	.0012	.0001	.03	.0009	.02
%RSD	.4273	1.250	.2879	.1040	.7399	14.17	.1703	88.28	.1695
#1	22.17	8.272	4.195	63.26	.1641	.0004	14.63	-.0006	10.16
#2	22.36	8.454	4.219	63.19	.1638	.0005	14.68	-.0021	10.14
#3	22.25	8.275	4.203	63.13	.1619	.0005	14.66	-.0005	10.13

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0019**	**.0013**	**124.6**	**-.0033**	**.0353**	**.0244**
Stddev	.0004	.0028	.0001	.2	.0011	.0004	.0005
%RSD	29.86	147.9	8.520	.1601	31.64	1.253	2.216
#1	.0010	-.0006	.0014	124.4	-.0046	.0358	.0244
#2	.0019	.0013	.0013	124.7	-.0026	.0351	.0239
#3	.0016	.0049	.0012	124.8	-.0028	.0350	.0250

Zoom In / Zoom Out

Sample Name: jc78735-3 Acquired: 12/6/2018 15:04:22 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105190.**	**4312.4**	**3979.3**	**9238.3**
Stddev	364.	17.6	7.4	13.6
%RSD	.34591	.40712	.18484	.14749
#1	105210.	4331.7	3987.7	9253.5
#2	104820.	4297.3	3975.4	9227.3
#3	105550.	4308.4	3974.6	9233.9

Zoom In / Zoom Out

Sample Name: jc78735-4 Acquired: 12/6/2018 15:09:44 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2067**	**-.0005**	**.0042**	**-.0007**	**.0033**	**.0063**	**.0017**	**.0006**	**.0003**
Stddev	.0077	.0004	.0007	.0023	.0001	.0042	.0002	.0037	.0038
%RSD	3.747	69.85	15.91	315.5	3.669	67.14	10.26	623.3	1259.
#1	.2155	-.0007	.0048	-.0033	.0034	.0036	.0019	-.0036	.0030
#2	.2037	-.0001	.0043	.0004	.0031	.0112	.0015	.0020	-.0041
#3	.2009	-.0008	.0035	.0008	.0033	.0041	.0018	.0035	.0020

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0251**	**-.0073**	**.0026**	**.0074**	**.0046**	**-.0010**	**.1272**	**63.87**
Stddev	.0005	.0004	.0020	.0068	.0084	.0200	.0047	.0953	2.69
%RSD	16.41	1.736	27.41	265.9	113.7	432.5	456.3	74.95	4.204
#1	.0037	.0254	-.0057	-.0024	-.0004	.0209	-.0063	.0281	66.60
#2	.0036	.0252	-.0095	.0103	.0163	.0108	.0004	.2183	63.78
#3	.0027	.0246	-.0067	-.0002	.0062	-.0178	.0027	.1352	61.23

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2287**	**7.520**	**14.21**	**11.55**	**.0611**	**.0145**	**16.44**	**.0046**	**52.80**
Stddev	.0319	.264	.87	.49	.0060	.0006	.17	.0056	2.23
%RSD	13.94	3.514	6.132	4.278	9.905	4.450	1.057	120.8	4.227
#1	.2640	7.790	15.22	12.10	.0651	.0138	16.64	-.0018	55.04
#2	.2020	7.506	13.77	11.41	.0640	.0145	16.38	.0085	52.77
#3	.2202	7.262	13.66	11.14	.0541	.0151	16.30	.0071	50.58

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068**	**-.0003**	**.0020**	**26.60**	**-.0144**	**.0009**	**.0837**
Stddev	.0009	.0073	.0007	.34	.0204	.0024	.0092
%RSD	12.77	2708.	35.71	1.294	141.8	277.4	10.98
#1	.0060	.0003	.0027	26.98	.0091	.0036	.0937
#2	.0077	-.0078	.0014	26.50	-.0256	.0000	.0818
#3	.0067	.0067	.0018	26.31	-.0266	-.0010	.0756

Zoom In Zoom Out

Sample Name: jc78735-4 Acquired: 12/6/2018 15:09:44 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106500.**	**4257.1**	**4033.6**	**9378.1**
Stddev	1439.	14.3	2.1	18.4
%RSD	1.3513	.33554	.05219	.19587
#1	107190.	4246.9	4031.9	9362.3
#2	104850.	4273.4	4032.9	9373.8
#3	107470.	4250.9	4036.0	9398.2

Zoom In Zoom Out

Sample Name: jc78735-8 Acquired: 12/6/2018 15:15:09 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0283**	**.0001**	**.0009**	**.0004**	**.0032**	**.0030**	**.1418**	**.0007**	**.0002**
Stddev	.0010	.0001	.0001	.0004	.0006	.0018	.0069	.0001	.0009
%RSD	3.522	78.45	12.61	103.7	17.37	59.49	4.872	13.17	480.8
#1	.0284	.0002	.0008	.0008	.0038	.0049	.1496	.0007	-.0009
#2	.0293	.0001	.0009	-.0000	.0028	.0026	.1392	.0006	.0008
#3	.0273	.0000	.0010	.0004	.0030	.0015	.1366	.0008	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062**	**.0014**	**-.0004**	**.0053**	**-.0007**	**-.0018**	**.0006**	**.0380**	**25.05**
Stddev	.0001	.0001	.0007	.0003	.0011	.0013	.0002	.0089	.94
%RSD	1.406	6.851	182.7	4.930	151.9	72.47	30.16	23.41	3.741
#1	.0063	.0015	.0002	.0050	.0004	-.0024	.0005	.0329	25.52
#2	.0062	.0013	-.0012	.0054	-.0018	-.0003	.0008	.0483	25.65
#3	.0061	.0013	-.0001	.0056	-.0008	-.0027	.0004	.0329	23.97

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.63**	**3.837**	**2.446**	**24.50**	**.0475**	**.0009**	**6.854**	**-.0016**	**10.48**
Stddev	.39	.173	.164	1.02	.0008	.0004	.003	.0019	.44
%RSD	3.707	4.507	6.697	4.171	1.784	52.88	.0497	117.7	4.231
#1	10.83	3.957	2.567	25.07	.0479	.0007	6.851	-.0037	10.74
#2	10.88	3.916	2.511	25.10	.0481	.0014	6.852	.0000	10.73
#3	10.18	3.639	2.259	23.32	.0465	.0005	6.858	-.0012	9.968

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0004**	**.0013**	**7.169**	**-.0011**	**.0049**	**.9048**
Stddev	.0006	.0012	.0002	.027	.0006	.0009	.0024
%RSD	60.99	312.6	15.01	.3783	53.19	18.59	.2701
#1	.0003	-.0010	.0013	7.177	-.0004	.0054	.9037
#2	.0013	.0007	.0015	7.192	-.0013	.0039	.9076
#3	.0012	.0014	.0011	7.139	-.0014	.0055	.9032

Zoom In Zoom Out

Sample Name: jc78735-8 Acquired: 12/6/2018 15:15:09 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103300.**	**4255.0**	**4302.8**	**10158.**
Stddev	4940.	156.9	3.1	5.
%RSD	4.7822	3.6878	.07191	.04464
#1	97736.	4151.9	4299.5	10161.
#2	104970.	4177.4	4303.2	10153.
#3	107180.	4435.6	4305.6	10161.

Zoom In Zoom Out

Sample Name: jc78735-9 Acquired: 12/6/2018 15:20:30 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0220**	**.0001**	**.0047**	**.0029**	**.0021**	**.0009**	**.2598**	**.0021**	**.0068**
Stddev	.0023	.0014	.0023	.0028	.0014	.0044	.0037	.0028	.0005
%RSD	10.40	1158.	49.89	97.84	70.29	510.1	1.423	134.2	6.750
#1	.0244	-.0012	.0039	.0020	.0013	.0056	.2640	.0017	.0065
#2	.0198	-.0001	.0073	.0006	.0037	-.0030	.2576	-.0005	.0073
#3	.0219	.0017	.0029	.0060	.0011	-.0000	.2577	.0050	.0066

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0153**	**.0182**	**.0067**	**-.0052**	**.0011**	**.0039**	**-.0130**	**.0838**	**60.08**
Stddev	.0008	.0014	.0098	.0075	.0190	.0077	.0093	.1315	.21
%RSD	5.027	7.434	146.4	144.1	1659.	198.9	71.59	156.9	.3506
#1	.0161	.0185	.0106	-.0004	.0038	.0097	-.0234	.0358	60.29
#2	.0146	.0167	-.0045	-.0014	.0186	.0069	-.0100	.2326	60.09
#3	.0152	.0194	.0139	-.0138	-.0190	-.0049	-.0056	-.0169	59.87

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**61.50**	**5.885**	**4.149**	**42.31**	**.2327**	**.0001**	**16.86**	**-.0110**	**43.95**
Stddev	.32	.183	.154	.23	.0024	.0023	.05	.0043	.20
%RSD	.5248	3.104	3.706	.5448	1.015	3137.	.2838	39.10	.4583
#1	61.84	5.990	4.034	42.56	.2301	.0025	16.81	-.0092	44.15
#2	61.19	5.674	4.324	42.27	.2332	-.0021	16.91	-.0160	43.94
#3	61.46	5.991	4.089	42.10	.2348	-.0002	16.85	-.0079	43.75

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**-.0012**	**.0030**	**79.01**	**-.0065**	**.0003**	**1.049**
Stddev	.0023	.0059	.0009	.15	.0036	.0085	.003
%RSD	56.28	487.8	31.65	.1860	56.15	3239.	.2390
#1	.0026	-.0009	.0035	79.11	-.0107	.0065	1.048
#2	.0068	.0045	.0035	79.08	-.0046	.0038	1.048
#3	.0029	-.0073	.0019	78.84	-.0042	-.0095	1.052

Zoom In Zoom Out

Sample Name: jc78735-9 Acquired: 12/6/2018 15:20:30 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107110.**	**4418.0**	**4056.5**	**9499.2**
Stddev	1172.	9.8	10.3	12.4
%RSD	1.0942	.22109	.25307	.13067
#1	105790.	4407.7	4044.7	9486.3
#2	108030.	4427.1	4062.5	9500.3
#3	107500.	4419.4	4062.5	9511.0

Zoom In Zoom Out

Sample Name: jc78735-10 Acquired: 12/6/2018 15:25:53 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 20.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0206**	**.0004**	**.0064**	**.0069**	**.0048**	**.0005**	**.0401**	**.0058**	**.0093**
Stddev	.0033	.0016	.0023	.0031	.0042	.0038	.0012	.0048	.0005
%RSD	15.91	434.2	35.54	44.82	86.19	813.2	2.985	82.95	5.016
#1	.0224	.0022	.0072	.0100	.0092	.0048	.0413	.0110	.0095
#2	.0225	-.0005	.0038	.0039	.0044	-.0013	.0400	.0047	.0088
#3	.0168	-.0006	.0081	.0067	.0009	-.0021	.0389	.0016	.0096

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080**	**.0489**	**-.0099**	**-.0152**	**-.0013**	**.0102**	**-.0064**	**.1620**	**30.38**
Stddev	.0012	.0008	.0111	.0222	.0101	.0163	.0178	.2411	.11
%RSD	14.90	1.670	112.5	145.5	777.1	160.1	277.1	148.8	.3659
#1	.0090	.0481	-.0005	-.0131	-.0108	-.0085	-.0021	.3360	30.34
#2	.0083	.0490	-.0070	-.0384	-.0025	.0180	.0088	-.1133	30.30
#3	.0067	.0497	-.0222	.0058	.0094	.0210	-.0259	.2632	30.51

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.215**	**6.186**	**4.326**	**19.59**	**.1181**	**.0040**	**12.05**	**.0019**	**82.56**
Stddev	.069	.325	.651	.23	.0055	.0035	.11	.0058	.14
%RSD	2.157	5.259	15.06	1.194	4.652	88.32	.9383	302.5	.1731
#1	3.295	5.816	4.754	19.80	.1117	.0004	12.18	-.0007	82.47
#2	3.166	6.316	4.647	19.62	.1213	.0042	12.01	-.0021	82.73
#3	3.185	6.427	3.576	19.34	.1212	.0073	11.96	.0086	82.49

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062**	**.0040**	**.0014**	**48.37**	**-.0121**	**.0012**	**.0602**
Stddev	.0058	.0095	.0009	.57	.0180	.0090	.0161
%RSD	93.54	235.1	68.50	1.180	148.1	765.5	26.84
#1	.0094	-.0044	.0005	49.02	.0086	-.0011	.0506
#2	-.0005	.0021	.0013	48.12	-.0222	-.0065	.0788
#3	.0095	.0143	.0023	47.97	-.0228	.0111	.0512

Zoom In Zoom Out

Sample Name: jc78735-10 Acquired: 12/6/2018 15:25:53 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 20.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106830.**	**4174.7**	**3993.1**	**9321.4**
Stddev	569.	8.0	6.7	17.0
%RSD	.53229	.19156	.16712	.18272
#1	106170.	4182.3	3986.0	9304.0
#2	107120.	4175.4	3994.2	9338.0
#3	107190.	4166.3	3999.2	9322.1

Zoom In Zoom Out

Sample Name: jc78735-12 Acquired: 12/6/2018 15:31:19 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2522**	**-.0014**	**.0191**	**.0093**	**-.0077**	**-.0135**	**.0508**	**.0264**	**.0204**
Stddev	.0204	.0022	.0026	.0088	.0069	.0045	.0006	.0138	.0102
%RSD	8.091	155.8	13.86	94.52	90.06	33.06	1.090	52.39	49.97
#1	.2612	-.0028	.0172	.0054	-.0136	-.0089	.0504	.0243	.0227
#2	.2665	-.0026	.0221	.0031	-.0092	-.0178	.0505	.0412	.0293
#3	.2288	.0011	.0179	.0194	-.0001	-.0138	.0514	.0138	.0093

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.1193**	**-.0077**	**-.0587**	**.0451**	**-.0056**	**.0161**	**.5176**	**62.37**
Stddev	.0032	.0088	.0199	.0743	.0224	.0358	.0199	.2145	3.41
%RSD	656.2	7.381	258.0	126.6	49.67	641.8	123.1	41.43	5.466
#1	.0032	.1295	.0002	-.0014	.0670	-.0443	.0129	.5062	66.14
#2	-.0019	.1145	-.0304	-.0320	.0462	.0012	-.0019	.3091	61.48
#3	-.0028	.1139	.0070	-.1426	.0222	.0264	.0374	.7376	59.49

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.21**	**5.722**	**.0522**	**10.74**	**.1107**	**.0185**	**15.90**	**-.0318**	**160.6**
Stddev	.71	1.652	.6196	.54	.0237	.0013	.05	.0219	8.7
%RSD	6.328	28.87	1186.	5.032	21.41	6.927	.2887	68.92	5.445
#1	12.03	7.586	.0898	11.25	.0911	.0196	15.92	-.0078	170.0
#2	10.75	4.440	-.5853	10.80	.1040	.0189	15.85	-.0507	159.1
#3	10.84	5.140	.6522	10.18	.1371	.0171	15.94	-.0368	152.8

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0046**	**-.0700**	**.0040**	**14.98**	**-.0429**	**-.0491**	**.3679**
Stddev	.0084	.0556	.0030	.07	.0049	.0407	.0305
%RSD	180.1	79.40	75.92	.4585	11.32	82.92	8.292
#1	.0119	-.1091	.0066	15.06	-.0375	-.0032	.3823
#2	.0065	-.0064	.0007	14.95	-.0441	-.0631	.3328
#3	-.0045	-.0946	.0048	14.93	-.0470	-.0810	.3884

Zoom In Zoom Out

Sample Name: jc78735-12 Acquired: 12/6/2018 15:31:19 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107740.**	**4290.5**	**4086.7**	**9524.0**
Stddev	452.	11.7	4.0	9.1
%RSD	.41915	.27297	.09802	.09598
#1	107670.	4278.9	4082.3	9513.6
#2	108220.	4302.3	4090.0	9530.8
#3	107330.	4290.5	4088.0	9527.5

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 15:36:50 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.058**	**2.048**	**2.071**	**2.062**	**2.045**	**2.012**	**2.066**	**2.094**	**.2501**
Stddev	.002	.003	.005	.002	.032	.035	.035	.001	.0035
%RSD	.0843	.1249	.2230	.1078	1.542	1.714	1.699	.0635	1.402
#1	2.060	2.048	2.071	2.064	2.061	2.029	2.083	2.095	.2520
#2	2.056	2.045	2.076	2.062	2.066	2.035	2.089	2.095	.2522
#3	2.059	2.050	2.067	2.059	2.009	1.972	2.025	2.093	.2461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.031**	**2.115**	**2.127**	**2.057**	**2.061**	**2.105**	**2.098**	**40.82**	**40.13**
Stddev	.032	.006	.006	.010	.002	.007	.004	.09	.13
%RSD	1.584	.2980	.2809	.5002	.0956	.3258	.2022	.2252	.3234
#1	2.045	2.118	2.131	2.055	2.064	2.106	2.100	40.90	40.26
#2	2.054	2.119	2.130	2.069	2.061	2.112	2.101	40.72	40.00
#3	1.995	2.107	2.120	2.048	2.060	2.098	2.093	40.84	40.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.50**	**38.85**	**41.26**	**41.54**	**2.122**	**2.070**	**5.379**	**2.076**	**2.066**
Stddev	.05	.08	.06	.03	.009	.005	.014	.001	.001
%RSD	.1178	.2035	.1462	.0757	.4001	.2346	.2621	.0347	.0412
#1	39.48	38.94	41.33	41.56	2.127	2.069	5.389	2.075	2.067
#2	39.46	38.79	41.21	41.50	2.127	2.075	5.387	2.075	2.066
#3	39.55	38.83	41.25	41.55	2.112	2.066	5.363	2.076	2.065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 15:36:50 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.045**	**2.042**	**2.075**	**2.163**	**2.022**	**2.136**	**2.131**
Stddev	.032	.004	.035	.009	.004	.002	.004
%RSD	1.571	.1963	1.690	.3959	.1909	.1113	.1973
#1	2.059	2.044	2.091	2.168	2.019	2.135	2.130
#2	2.067	2.044	2.099	2.168	2.026	2.135	2.135
#3	2.008	2.037	2.035	2.153	2.020	2.139	2.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104690.**	**4211.8**	**3902.6**	**9125.1**
Stddev	1838.	8.4	11.2	14.4
%RSD	1.7558	.19906	.28712	.15826
#1	103750.	4202.3	3901.4	9126.9
#2	103520.	4218.0	3892.1	9109.8
#3	106810.	4215.2	3914.4	9138.5

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 15:42:03 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0002**	**.0002**	**.0001**	**-.0001**	**.0001**	**.0002**	**.0002**
Stddev	.0002	.0000	.0001	.0000	.0001	.0001	.0000	.0001	.0002
%RSD	258.8	133.9	25.34	10.39	271.6	72.47	27.57	52.38	136.3
#1	.0003	.0000	.0003	.0002	.0002	-.0000	.0001	.0003	-.0001
#2	-.0000	.0001	.0002	.0003	-.0001	-.0002	.0001	.0001	.0003
#3	-.0001	-.0000	.0002	.0002	.0001	-.0002	.0001	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**.0000**	**.0001**	**.0011**	**.0004**	**-.0005**	**.0005**	**.0001**
Stddev	.0001	.0000	.0006	.0017	.0004	.0006	.0006	.0068	.0007
%RSD	48.10	130.2	1649.	1466.	33.90	170.3	103.1	1293.	937.1
#1	.0002	.0000	.0007	-.0008	.0015	.0010	.0000	-.0042	-.0007
#2	.0002	.0000	-.0003	.0021	.0011	-.0003	-.0011	.0083	.0006
#3	.0001	-.0000	-.0003	-.0009	.0008	.0004	-.0005	-.0024	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**-.0053**	**.0352**	**.0378**	**.0022**	F **.0033**	**.0021**	**-.0001**	**.0000**
Stddev	.0034	.0147	.0347	.0024	.0001	.0004	.0003	.0011	.0001
%RSD	168.4	278.9	98.35	6.233	5.731	11.95	15.35	1151.	877.3
#1	.0053	.0117	.0450	.0387	.0021	.0035	.0018	.0011	-.0000
#2	.0023	-.0138	.0640	.0397	.0022	.0036	.0024	-.0004	-.0000
#3	-.0015	-.0137	-.0033	.0352	.0024	.0029	.0021	-.0010	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 15:42:03 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0008**	**.0002**	**.0010**	**-.0009**	**.0012**	**.0009**
Stddev	.0002	.0006	.0001	.0006	.0001	.0003	.0005
%RSD	2098.	81.02	43.49	56.47	10.13	21.19	54.16
#1	.0002	.0006	.0002	.0007	-.0009	.0014	.0003
#2	-.0002	.0002	.0004	.0017	-.0009	.0012	.0012
#3	-.0001	.0014	.0002	.0007	-.0011	.0009	.0011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107290.**	**4279.4**	**4090.5**	**9460.5**
Stddev	285.	7.4	21.4	35.2
%RSD	.26563	.17227	.52213	.37218
#1	107080.	4276.4	4078.3	9435.9
#2	107610.	4287.8	4078.0	9444.8
#3	107160.	4273.9	4115.1	9500.8

Zoom In Zoom Out

Sample Name: jc78735-13 Acquired: 12/6/2018 15:47:35 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0652**	**.0001**	**.0010**	**.0004**	**.0020**	**.0022**	**.0827**	**.0021**	**.0006**
Stddev	.0020	.0002	.0003	.0003	.0004	.0005	.0005	.0004	.0002
%RSD	3.132	116.8	27.67	76.78	19.89	24.81	.5544	19.96	34.57
#1	.0674	-.0000	.0008	.0002	.0024	.0025	.0832	.0017	.0006
#2	.0650	.0002	.0013	.0007	.0021	.0015	.0824	.0021	.0004
#3	.0633	.0003	.0009	.0002	.0016	.0024	.0824	.0026	.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090**	**.0005**	**.0749**	**.0007**	**.0002**	**-.0010**	**-.0006**	**.0076**	**35.74**
Stddev	.0003	.0005	.0017	.0013	.0011	.0021	.0024	.0251	.58
%RSD	2.918	98.61	2.273	200.3	444.4	206.5	375.2	328.0	1.627
#1	.0087	.0003	.0730	-.0002	.0003	-.0030	-.0028	.0325	36.39
#2	.0091	.0002	.0764	.0022	-.0009	.0012	.0019	.0080	35.56
#3	.0092	.0011	.0753	.0000	.0013	-.0013	-.0010	-.0176	35.27

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7736**	**8.465**	**12.87**	**92.88**	**.2147**	**.0049**	**9.886**	**-.0018**	**12.37**
Stddev	.0171	.202	.16	1.28	.0017	.0001	.030	.0014	.18
%RSD	2.205	2.388	1.221	1.373	.7695	1.371	.3011	79.97	1.420
#1	.7931	8.697	13.04	94.23	.2150	.0050	9.914	-.0009	12.56
#2	.7613	8.366	12.82	92.71	.2161	.0049	9.891	-.0009	12.33
#3	.7664	8.331	12.74	91.69	.2129	.0049	9.855	-.0034	12.22

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0034**	**.0005**	**8.746**	**-.0022**	**.0020**	**1.112**
Stddev	.0002	.0008	.0001	.032	.0037	.0010	.004
%RSD	17.99	22.68	16.87	.3616	165.8	49.95	.3386
#1	.0011	.0042	.0006	8.758	-.0051	.0012	1.114
#2	.0013	.0033	.0005	8.771	.0019	.0017	1.114
#3	.0016	.0026	.0005	8.711	-.0034	.0031	1.108

Zoom In Zoom Out

Sample Name: jc78735-13 Acquired: 12/6/2018 15:47:35 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104370.**	**4187.8**	**3980.2**	**9269.0**
Stddev	457.	53.6	4.9	17.1
%RSD	.43810	1.2791	.12406	.18412
#1	103890.	4129.1	3980.0	9268.3
#2	104800.	4200.1	3975.4	9252.3
#3	104430.	4234.1	3985.2	9286.4

Zoom In Zoom Out

Sample Name: jc78735-14 Acquired: 12/6/2018 15:52:59 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0562**	**-.0003**	**.0012**	**.0004**	**.0050**	**.0070**	**1.609**	**.0056**	**.0024**
Stddev	.0003	.0003	.0003	.0004	.0002	.0013	.016	.0010	.0010
%RSD	.5565	125.3	23.90	102.3	3.964	18.09	.9870	18.63	41.89
#1	.0559	-.0002	.0010	.0005	.0048	.0083	1.623	.0049	.0012
#2	.0563	.0000	.0016	-.0001	.0049	.0069	1.613	.0067	.0028
#3	.0565	-.0006	.0011	.0006	.0052	.0058	1.592	.0050	.0031

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0074**	**.0143**	**.0132**	**-.0010**	**.0019**	**.0019**	**-.0234**	**82.08**
Stddev	.0004	.0009	.0022	.0113	.0018	.0070	.0032	.0726	.59
%RSD	9.677	12.16	15.63	85.62	189.1	365.8	165.3	310.2	.7212
#1	.0041	.0069	.0121	.0255	.0005	.0095	-.0012	.0594	82.75
#2	.0046	.0068	.0165	.0034	-.0030	-.0041	.0018	-.0538	81.83
#3	.0038	.0084	.0143	.0106	-.0004	.0003	.0052	-.0759	81.65

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.34**	**10.84**	**25.73**	**48.74**	**.1486**	**.0044**	**7.138**	**.0007**	**17.52**
Stddev	.15	.25	.11	.30	.0031	.0018	.027	.0025	.13
%RSD	.9216	2.317	.4142	.6223	2.095	40.86	.3760	349.1	.7644
#1	16.51	10.98	25.84	49.04	.1521	.0053	7.163	-.0006	17.66
#2	16.28	11.00	25.74	48.74	.1462	.0055	7.143	-.0009	17.51
#3	16.23	10.55	25.63	48.44	.1475	.0023	7.110	.0036	17.39

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0072**	**.0023**	**42.65**	**.0022**	**.0064**	**.2861**
Stddev	.0006	.0019	.0004	.29	.0000	.0020	.0029
%RSD	13.17	26.96	17.36	.6900	.9546	31.08	.9997
#1	.0039	.0051	.0019	42.99	.0022	.0086	.2855
#2	.0041	.0076	.0027	42.50	.0022	.0050	.2835
#3	.0049	.0089	.0024	42.46	.0022	.0054	.2892

Zoom In Zoom Out

Sample Name: jc78735-14 Acquired: 12/6/2018 15:52:59 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106950.**	**4312.5**	**4379.7**	**10332.**
Stddev	110.	27.6	4.6	4.
%RSD	.10296	.63982	.10423	.03545
#1	106830.	4335.4	4377.8	10335.
#2	107050.	4320.2	4376.4	10328.
#3	106970.	4281.9	4384.9	10333.

Zoom In Zoom Out

Sample Name: jc78735-15 Acquired: 12/6/2018 15:58:24 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0429**	**.0010**	**.0012**	**.0066**	**.0062**	**.0032**	**.7066**	**.0147**	**.0014**
Stddev	.0006	.0002	.0006	.0010	.0006	.0006	.0021	.0011	.0003
%RSD	1.309	19.38	46.50	14.60	9.877	17.43	.2974	7.413	20.79
#1	.0436	.0012	.0018	.0058	.0056	.0036	.7042	.0136	.0013
#2	.0425	.0009	.0008	.0064	.0068	.0026	.7077	.0146	.0017
#3	.0428	.0009	.0010	.0076	.0061	.0034	.7079	.0158	.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0313**	**.1836**	**.0542**	**.0117**	**-.0070**	**.0020**	**.0013**	**5.985**	**98.75**
Stddev	.0011	.0018	.0025	.0053	.0070	.0021	.0028	.041	.21
%RSD	3.504	.9934	4.530	45.79	100.0	101.9	211.0	.6818	.2169
#1	.0302	.1857	.0556	.0178	-.0092	.0033	.0033	5.950	98.55
#2	.0312	.1827	.0514	.0086	.0008	.0031	.0027	6.030	98.71
#3	.0324	.1823	.0557	.0086	-.0127	-.0004	-.0019	5.976	98.98

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**31.74**	**11.65**	**10.28**	**46.83**	**.1677**	**.0046**	**31.25**	**-.0026**	**19.76**
Stddev	.28	.17	.07	.08	.0021	.0012	.02	.0012	.01
%RSD	.8745	1.440	.6441	.1803	1.242	25.05	.0575	45.08	.0309
#1	31.49	11.55	10.31	46.73	.1690	.0043	31.26	-.0014	19.76
#2	31.68	11.85	10.20	46.87	.1688	.0036	31.26	-.0037	19.77
#3	32.04	11.56	10.32	46.89	.1653	.0059	31.23	-.0027	19.76

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**.0097**	**.0042**	**152.0**	**-.0020**	**.0460**	**1.383**
Stddev	.0014	.0027	.0004	.2	.0070	.0030	.008
%RSD	26.14	27.82	8.570	.1013	355.0	6.574	.6025
#1	.0055	.0097	.0043	152.2	-.0020	.0437	1.393
#2	.0037	.0070	.0039	151.9	.0050	.0494	1.377
#3	.0063	.0124	.0046	151.9	-.0090	.0449	1.379

Zoom In Zoom Out

Sample Name: jc78735-15 Acquired: 12/6/2018 15:58:24 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106570.**	**4342.5**	**4090.9**	**9529.8**
Stddev	258.	16.4	11.3	22.1
%RSD	.24238	.37723	.27717	.23200
#1	106850.	4357.8	4099.2	9549.1
#2	106350.	4344.5	4095.5	9534.5
#3	106500.	4325.2	4077.9	9505.7

Zoom In Zoom Out

Sample Name: jc78735-17 Acquired: 12/6/2018 16:03:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2091**	**.0004**	**.0139**	**.0096**	**.0065**	**-.0147**	**.1925**	**.0155**	**-.0026**
Stddev	.0057	.0022	.0044	.0058	.0096	.0037	.0013	.0051	.0119
%RSD	2.736	568.0	31.38	60.83	146.9	25.35	.6567	32.82	462.3
#1	.2151	.0025	.0142	.0078	.0059	-.0112	.1939	.0105	-.0161
#2	.2038	.0004	.0094	.0160	.0164	-.0187	.1922	.0154	.0062
#3	.2083	-.0018	.0182	.0049	-.0027	-.0143	.1914	.0207	.0022

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0216**	**.0202**	**.0183**	**.0103**	**.0207**	**.0656**	**-.0829**	**.4064**	**60.52**
Stddev	.0046	.0071	.0292	.0188	.0550	.0284	.0078	.7053	.17
%RSD	21.09	34.88	159.8	183.5	265.2	43.28	9.368	173.5	.2778
#1	.0206	.0284	.0330	.0238	-.0263	.0372	-.0862	-.2973	60.37
#2	.0176	.0163	-.0154	.0183	.0812	.0655	-.0885	1.113	60.70
#3	.0266	.0160	.0371	-.0113	.0073	.0940	-.0740	.4032	60.48

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0854**	**14.17**	**9.770**	**39.52**	**.2495**	**.0261**	**8.532**	**-.0001**	**125.1**
Stddev	.1921	1.07	1.082	.22	.0153	.0146	.022	.0055	.3
%RSD	224.8	7.557	11.08	.5596	6.134	55.78	.2608	4681.	.2340
#1	.0130	13.18	9.341	39.26	.2360	.0094	8.524	.0033	125.4
#2	.3033	14.02	11.00	39.62	.2661	.0326	8.558	-.0065	125.1
#3	-.0599	15.31	8.968	39.67	.2463	.0363	8.516	.0028	124.8

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**-.0113**	**.0131**	**23.93**	**.0352**	**-.0325**	**.1709**
Stddev	.0119	.0214	.0023	.06	.0332	.0087	.0143
%RSD	526.9	190.0	17.74	.2444	94.20	26.95	8.353
#1	-.0115	.0098	.0110	23.87	.0120	-.0246	.1806
#2	.0092	-.0330	.0156	23.94	.0205	-.0419	.1545
#3	.0091	-.0107	.0127	23.99	.0733	-.0309	.1777

Zoom In Zoom Out

Sample Name: jc78735-17 Acquired: 12/6/2018 16:03:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106560.**	**4299.8**	**4308.7**	**10046.**
Stddev	795.	9.2	6.4	3.
%RSD	.74595	.21418	.14920	.03250
#1	105980.	4302.6	4305.5	10045.
#2	106230.	4289.5	4316.1	10050.
#3	107470.	4307.3	4304.6	10044.

Zoom In Zoom Out

Sample Name: jc78735-19 Acquired: 12/6/2018 16:09:16 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0548**	**.0001**	**.0018**	**.0010**	**.0045**	**.0044**	**1.586**	**.0050**	**.0004**
Stddev	.0020	.0004	.0002	.0005	.0004	.0007	.005	.0021	.0002
%RSD	3.585	313.3	9.258	49.73	9.678	15.62	.3075	42.61	57.58
#1	.0527	-.0002	.0020	.0012	.0045	.0042	1.591	.0069	.0005
#2	.0551	-.0000	.0018	.0004	.0041	.0038	1.582	.0054	.0004
#3	.0566	.0006	.0016	.0014	.0050	.0051	1.584	.0027	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0049**	**.0030**	**.0094**	**.0013**	**.0013**	**.0020**	**.0010**	**.0289**	**78.99**
Stddev	.0003	.0004	.0020	.0052	.0012	.0052	.0022	.0374	.27
%RSD	6.559	12.18	21.74	398.6	92.76	259.5	224.8	129.6	.3407
#1	.0048	.0026	.0080	-.0044	.0027	.0034	.0010	.0721	78.68
#2	.0052	.0031	.0117	.0058	.0009	-.0038	.0031	.0087	79.10
#3	.0046	.0033	.0085	.0025	.0004	.0064	-.0012	.0059	79.18

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.47**	**10.61**	**24.48**	**46.22**	**.1538**	**.0012**	**7.303**	**-.0048**	**16.70**
Stddev	.06	.02	.12	.05	.0027	.0010	.039	.0013	.01
%RSD	.3825	.1631	.5077	.1162	1.782	86.31	.5390	27.83	.0893
#1	15.46	10.59	24.34	46.24	.1562	.0020	7.328	-.0060	16.69
#2	15.54	10.60	24.53	46.26	.1508	.0016	7.257	-.0033	16.71
#3	15.42	10.63	24.57	46.16	.1545	.0000	7.322	-.0052	16.69

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**.0026**	**.0015**	**46.47**	**-.0058**	**.0062**	**.2919**
Stddev	.0004	.0052	.0002	.08	.0039	.0046	.0028
%RSD	12.12	195.4	12.21	.1635	66.76	75.16	.9636
#1	.0038	.0071	.0014	46.55	-.0084	.0056	.2923
#2	.0034	-.0030	.0017	46.40	-.0077	.0111	.2889
#3	.0030	.0038	.0013	46.45	-.0013	.0019	.2945

Zoom In Zoom Out

Sample Name: jc78735-19 Acquired: 12/6/2018 16:09:16 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106810.**	**4263.6**	**4135.7**	**9635.7**
Stddev	343.	8.6	6.3	4.3
%RSD	.32100	.20261	.15203	.04490
#1	106430.	4273.4	4128.8	9630.9
#2	107100.	4257.0	4141.1	9639.3
#3	106900.	4260.4	4137.1	9636.9

Zoom In Zoom Out

Sample Name: jc78735-12 Acquired: 12/6/2018 16:14:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2423**	**.0017**	**.0099**	**.0011**	**.0070**	**.0037**	**.0541**	**.0135**	**.0006**
Stddev	.0106	.0010	.0061	.0032	.0041	.0023	.0011	.0013	.0076
%RSD	4.369	60.68	61.89	278.7	58.23	63.50	1.955	9.734	1264.
#1	.2467	.0025	.0071	-.0019	.0059	.0012	.0551	.0120	-.0033
#2	.2302	.0019	.0169	.0009	.0036	.0058	.0543	.0141	-.0042
#3	.2499	.0006	.0057	.0044	.0115	.0041	.0530	.0144	.0093

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0270**	**.0109**	**.0117**	**.0198**	**.0100**	**-.0019**	**.3385**	**58.98**
Stddev	.0068	.0002	.0115	.0190	.0112	.0172	.0390	.1502	.32
%RSD	181.8	.8999	105.2	162.5	56.52	172.5	2002.	44.37	.5363
#1	-.0041	.0273	.0016	.0196	.0208	-.0004	-.0467	.3241	58.88
#2	.0080	.0271	.0074	.0254	.0305	.0298	.0165	.4954	59.33
#3	.0073	.0268	.0238	-.0100	.0081	.0005	.0244	.1960	58.73

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.60**	**5.984**	**1.801**	**9.808**	**.0761**	**.0069**	**15.45**	**.0066**	**150.5**
Stddev	.19	.176	.853	.256	.0081	.0091	.09	.0139	.1
%RSD	1.824	2.935	47.37	2.614	10.64	131.4	.5650	212.9	.0959
#1	10.39	6.159	.8660	9.514	.0781	-.0032	15.52	.0053	150.3
#2	10.78	5.808	2.538	9.927	.0831	.0143	15.35	.0211	150.6
#3	10.64	5.985	2.001	9.984	.0672	.0096	15.48	-.0067	150.5

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075**	**.0159**	**.0050**	**15.73**	**.0229**	**.0032**	**.4035**
Stddev	.0050	.0144	.0015	.10	.0203	.0056	.0123
%RSD	65.73	90.38	29.67	.6446	88.97	175.1	3.046
#1	.0130	.0020	.0033	15.80	.0427	.0082	.4051
#2	.0033	.0306	.0055	15.61	.0239	.0042	.4148
#3	.0063	.0151	.0061	15.77	.0020	-.0028	.3904

Zoom In Zoom Out

Sample Name: jc78735-12 Acquired: 12/6/2018 16:14:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107330.**	**4156.9**	**4046.8**	**9396.9**
Stddev	171.	7.1	6.8	18.7
%RSD	.15965	.16970	.16893	.19924
#1	107140.	4161.2	4038.9	9382.0
#2	107440.	4148.7	4051.3	9390.7
#3	107420.	4160.7	4050.2	9417.9

Zoom In Zoom Out

Sample Name: jc78967-1conf Acquired: 12/6/2018 16:20:09 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0139**	**.0022**	**.0058**	**.0006**	**.0084**	**.0213**	**.0021**	**.0186**	**.0186**
Stddev	.0147	.0020	.0023	.0135	.0138	.0113	.0026	.0066	.0089
%RSD	105.6	89.84	39.88	2248.	164.5	53.04	124.4	35.31	47.71
#1	-.0246	.0013	.0040	.0138	.0174	.0091	.0029	.0223	.0273
#2	.0028	.0045	.0050	-.0132	.0154	.0314	-.0008	.0110	.0187
#3	-.0199	.0009	.0085	.0012	-.0075	.0235	.0041	.0225	.0096

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0074**	**.0463**	**.0002**	**-.0482**	**.0136**	**-.0313**	**.0141**	**-.3580**	**-.0061**
Stddev	.0094	.0036	.0499	.0633	.0092	.0267	.0412	.6657	.1930
%RSD	126.6	7.736	28190.	131.3	67.63	85.32	291.3	186.0	3189.
#1	-.0027	.0495	.0568	.0226	.0235	-.0028	.0536	-1.126	-.2288
#2	.0090	.0424	-.0189	-.0994	.0120	-.0557	.0175	-.0014	.1106
#3	.0159	.0470	-.0374	-.0679	.0053	-.0354	-.0286	.0535	.1000

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1994**	**-.8724**	**-.5032**	**.9373**	**.0195**	**.0179**	**.1646**	**.0130**	**.0050**
Stddev	.2526	1.716	.6690	.0805	.0320	.0061	.0111	.0142	.0062
%RSD	126.7	196.7	132.9	8.584	163.7	34.06	6.761	109.1	124.5
#1	.0059	-2.457	-.9636	.8703	-.0170	.0123	.1534	.0286	-.0021
#2	.4852	.9503	-.8102	.9151	.0423	.0244	.1757	.0094	.0080
#3	.1072	-1.110	.2641	1.027	.0334	.0170	.1646	.0010	.0090

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**.0020**	**.0156**	**.0781**	**.0199**	**-.0199**	**.0543**
Stddev	.0120	.0222	.0030	.0179	.0182	.0313	.0300
%RSD	829.9	1121.	19.12	22.90	91.57	157.1	55.14
#1	-.0076	.0000	.0125	.0890	.0004	.0004	.0492
#2	-.0091	-.0192	.0156	.0574	.0364	-.0042	.0865
#3	.0123	.0251	.0185	.0878	.0229	-.0560	.0273

Zoom In Zoom Out

Sample Name: jc78967-1conf Acquired: 12/6/2018 16:20:09 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 50.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107740.**	**4147.0**	**4064.7**	**9437.8**
Stddev	629.	18.4	16.8	36.2
%RSD	.58364	.44398	.41321	.38376
#1	108450.	4130.1	4062.8	9432.0
#2	107540.	4144.4	4082.4	9476.6
#3	107250.	4166.6	4049.0	9404.9

Zoom In Zoom Out

Sample Name: jc78967-1 Acquired: 12/6/2018 16:25:41 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**-.0004**	**.0026**	**.0018**	**.0020**	**.0040**	**.0024**	**.0026**	**.0012**
Stddev	.0019	.0003	.0010	.0011	.0033	.0029	.0001	.0013	.0019
%RSD	173.6	86.52	39.71	59.23	161.8	73.63	5.319	51.28	163.7
#1	-.0032	-.0008	.0016	.0010	.0008	.0064	.0025	.0031	.0012
#2	.0002	-.0003	.0025	.0030	.0058	.0007	.0024	.0036	.0031
#3	-.0002	-.0001	.0036	.0014	-.0004	.0048	.0023	.0011	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0183**	**-.0137**	**-.0147**	**.0056**	**.0137**	**.0123**	**.1099**	**.1513**
Stddev	.0006	.0013	.0106	.0086	.0093	.0061	.0095	.1831	.0181
%RSD	145.5	7.035	77.37	58.34	165.7	44.41	77.15	166.5	11.96
#1	-.0003	.0198	-.0015	-.0244	.0159	.0185	.0141	.3056	.1306
#2	.0006	.0175	-.0205	-.0080	-.0020	.0069	.0209	-.0572	.1595
#3	.0008	.0177	-.0193	-.0117	.0028	.0157	.0021	.0815	.1639

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5531**	**.1288**	**-.0801**	**.4477**	**.0066**	**.0060**	**.0709**	**.0292**	**.0007**
Stddev	.0492	.0726	.3107	.0117	.0078	.0022	.0032	.0090	.0010
%RSD	8.893	56.38	387.7	2.610	117.2	37.43	4.584	30.79	138.2
#1	.4963	.0609	.1500	.4589	.0014	.0085	.0709	.0348	-.0004
#2	.5810	.1202	.0431	.4356	.0156	.0051	.0676	.0340	.0015
#3	.5819	.2054	-.4335	.4487	.0029	.0043	.0741	.0189	.0011

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**-.0046**	**.0159**	**.0606**	**-.0130**	**-.0074**	**.0798**
Stddev	.0032	.0075	.0003	.0121	.0076	.0102	.0035
%RSD	231.6	164.1	1.964	19.99	58.52	138.9	4.350
#1	.0051	-.0105	.0155	.0646	-.0204	-.0159	.0782
#2	-.0009	.0039	.0161	.0470	-.0133	-.0102	.0837
#3	.0000	-.0072	.0161	.0703	-.0052	.0040	.0773

Zoom In Zoom Out

Sample Name: jc78967-1 Acquired: 12/6/2018 16:25:41 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107860.**	**4247.3**	**3990.4**	**9264.7**
Stddev	678.	22.8	2.0	7.6
%RSD	.62823	.53564	.04993	.08208
#1	107610.	4222.0	3988.1	9273.2
#2	108620.	4266.0	3991.6	9262.1
#3	107340.	4254.1	3991.5	9258.7

Zoom In Zoom Out

Sample Name: mp10980-mb1conf Acquired: 12/6/2018 16:31:13 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0000**	**.0000**	**.0000**	**.0001**	**.0002**	**.0000**	**.0003**
Stddev	.0003	.0001	.0000	.0001	.0001	.0001	.0000	.0002
%RSD	352.0	192.2	153.5	1269.	61.62	45.04	100.3	57.54
#1	-.0002	.0000	.0001	.0001	.0000	.0003	.0000	.0005
#2	.0004	-.0000	-.0000	.0001	.0002	.0001	.0000	.0004
#3	.0000	-.0001	.0001	-.0001	.0001	.0002	.0000	.0001

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0001**	**.0002**	**-.0008**	F **-.0024**	**-.0006**	**.0004**	**.0007**
Stddev	.0002	.0001	.0000	.0006	.0020	.0013	.0006	.0008
%RSD	193.1	98.85	16.94	68.14	83.31	227.5	168.8	117.4
#1	.0001	-.0001	.0002	-.0012	-.0005	-.0010	.0009	-.0002
#2	-.0001	-.0000	.0002	-.0010	-.0046	-.0017	-.0003	.0013
#3	.0003	-.0001	.0003	-.0002	-.0022	.0009	.0005	.0009

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**.0016**	**.0021**	**.0020**	**-.0184**	**.0221**	**.0007**	**.0004**
Stddev	.0074	.0024	.0029	.0039	.0166	.0082	.0002	.0002
%RSD	180.1	149.3	140.1	201.4	90.30	37.15	26.59	52.42
#1	.0032	.0017	.0054	-.0025	-.0059	.0306	.0005	.0004
#2	-.0028	.0040	.0009	.0051	-.0372	.0214	.0006	.0002
#3	.0120	-.0008	-.0000	.0033	-.0120	.0142	.0009	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068**	**-.0005**	**-.0001**	**.0002**	**-.0002**	**.0003**	**.0063**	**-.0017**
Stddev	.0007	.0004	.0002	.0002	.0001	.0001	.0015	.0010
%RSD	10.74	95.49	273.1	107.5	64.99	31.54	24.47	59.19
#1	.0073	-.0004	-.0001	-.0000	-.0001	.0003	.0046	-.0008
#2	.0072	-.0000	-.0001	.0003	-.0004	.0002	.0076	-.0028
#3	.0060	-.0009	.0001	.0003	-.0002	.0003	.0068	-.0016

Zoom In Zoom Out

Sample Name: mp10980-mb1conf Acquired: 12/6/2018 16:31:13 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0013**	**.0023**
Stddev	.0005	.0005
%RSD	38.86	22.97
#1	-.0009	.0029
#2	-.0018	.0019
#3	-.0011	.0022

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106890.**	**4149.3**	**4040.1**	**9366.3**
Stddev	71.	10.9	9.1	5.4
%RSD	.06612	.26168	.22451	.05804
#1	106940.	4161.8	4047.1	9368.0
#2	106810.	4143.8	4043.5	9370.7
#3	106920.	4142.3	4029.9	9360.2

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 16:36:46 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.070**	**2.047**	**2.056**	**2.052**	**2.059**	**2.035**	**2.089**	**2.079**	**.2524**
Stddev	.005	.003	.004	.005	.005	.003	.005	.003	.0001
%RSD	.2630	.1306	.1806	.2431	.2569	.1687	.2504	.1528	.0240
#1	2.064	2.045	2.060	2.056	2.054	2.036	2.091	2.080	.2524
#2	2.074	2.050	2.055	2.054	2.058	2.038	2.083	2.080	.2525
#3	2.071	2.046	2.053	2.047	2.065	2.031	2.092	2.075	.2525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.046**	**2.087**	**2.092**	**2.059**	**2.058**	**2.070**	**2.081**	**41.05**	**40.17**
Stddev	.003	.006	.003	.005	.006	.001	.001	.06	.03
%RSD	.1674	.2669	.1553	.2410	.2964	.0629	.0566	.1410	.0859
#1	2.043	2.090	2.094	2.061	2.061	2.071	2.081	41.02	40.18
#2	2.045	2.090	2.094	2.063	2.062	2.068	2.083	41.12	40.13
#3	2.050	2.081	2.088	2.054	2.051	2.070	2.080	41.01	40.19
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.49**	**38.65**	**41.61**	**41.84**	**2.090**	**2.067**	**5.322**	**2.065**	**2.076**
Stddev	.07	.24	.11	.08	.000	.003	.007	.005	.004
%RSD	.1868	.6227	.2567	.1935	.0191	.1565	.1343	.2680	.1783
#1	39.57	38.71	41.50	41.79	2.091	2.071	5.328	2.065	2.073
#2	39.45	38.39	41.71	41.93	2.090	2.066	5.324	2.071	2.080
#3	39.44	38.85	41.63	41.80	2.090	2.065	5.314	2.060	2.076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 16:36:46 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.064**	**2.036**	**2.092**	**2.107**	**2.017**	**2.150**	**2.087**
Stddev	.003	.003	.002	.006	.001	.009	.002
%RSD	.1403	.1333	.0811	.2988	.0516	.4057	.0797
#1	2.063	2.034	2.091	2.112	2.016	2.142	2.089
#2	2.062	2.039	2.094	2.110	2.018	2.160	2.088
#3	2.067	2.037	2.091	2.100	2.016	2.149	2.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104060.**	**4212.9**	**3976.1**	**9298.5**
Stddev	92.	10.3	7.5	19.7
%RSD	.08840	.24531	.18853	.21137
#1	104110.	4204.0	3969.3	9285.6
#2	104110.	4224.2	3974.9	9288.9
#3	103950.	4210.4	3984.2	9321.1

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 16:41:59 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0001**	**.0001**	**.0005**	**.0000**	**.0000**	**.0000**	**.0004**	**.0002**
Stddev	.0001	.0001	.0001	.0001	.0001	.0002	.0000	.0001	.0003
%RSD	54.02	69.16	122.3	30.79	757.4	1598.	64.35	24.13	141.8
#1	-.0002	.0001	.0003	.0003	-.0001	-.0000	.0000	.0005	-.0001
#2	-.0001	.0001	-.0000	.0004	.0002	-.0002	.0000	.0003	.0004
#3	-.0001	.0002	.0001	.0006	-.0000	.0002	.0001	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**-.0001**	**-.0006**	**.0001**	**.0001**	**.0004**	**.0018**	**-.0013**
Stddev	.0003	.0001	.0002	.0008	.0008	.0009	.0011	.0115	.0023
%RSD	232.3	67.48	175.6	123.7	602.6	714.6	257.0	643.8	177.3
#1	-.0000	.0001	-.0002	-.0014	.0008	.0008	.0012	.0002	.0012
#2	-.0001	.0000	.0001	.0002	-.0007	.0005	-.0008	.0140	-.0033
#3	.0004	.0001	-.0002	-.0007	.0003	-.0009	.0009	-.0089	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0182**	**.0394**	**.0356**	**.0024**	F **.0032**	**.0021**	**.0000**	**.0001**
Stddev	.0033	.0033	.0120	.0044	.0004	.0006	.0004	.0008	.0001
%RSD	606.5	18.22	30.55	12.38	14.66	17.77	17.28	2325.	96.25
#1	.0038	.0147	.0379	.0351	.0025	.0037	.0019	.0001	.0003
#2	.0007	.0187	.0282	.0315	.0027	.0033	.0025	.0008	.0001
#3	-.0029	.0213	.0522	.0403	.0020	.0026	.0019	-.0007	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 16:41:59 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0023**	**.0004**	**-.0008**	**-.0008**	**.0004**	**.0008**
Stddev	.0002	.0009	.0001	.0015	.0009	.0006	.0008
%RSD	6196.	39.90	31.78	178.4	106.5	140.3	96.03
#1	.0002	.0033	.0002	-.0010	.0001	.0004	.0017
#2	-.0001	.0021	.0004	-.0022	-.0016	.0010	.0003
#3	-.0001	.0015	.0004	.0007	-.0010	-.0002	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107640.**	**4243.6**	**4076.5**	**9410.5**
Stddev	906.	5.4	5.3	7.4
%RSD	.84213	.12774	.12932	.07868
#1	107620.	4240.3	4073.9	9403.5
#2	108550.	4249.8	4082.5	9418.2
#3	106740.	4240.6	4073.0	9409.8

Zoom In Zoom Out

Sample Name: icsa Acquired: 12/6/2018 16:47:31 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0000**	**.0004**	**-.0010**	**-.0022**	**-.0024**	**.0021**	**-.0013**	**-.0010**
Stddev	.0006	.0001	.0001	.0001	.0002	.0001	.0002	.0006	.0006
%RSD	37.71	451.9	16.04	8.010	8.813	4.198	7.734	44.78	58.23
#1	.0014	-.0001	.0003	-.0009	-.0023	-.0023	.0021	-.0018	-.0011
#2	.0023	.0000	.0004	-.0011	-.0023	-.0024	.0023	-.0007	-.0004
#3	.0012	.0000	.0005	-.0010	-.0020	-.0024	.0020	-.0013	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0017**	**-.0015**	**-.0012**	**-.0004**	**.0060**	**-.0011**	**549.4**	**403.9**
Stddev	.0005	.0001	.0013	.0020	.0010	.0007	.0019	.8	.7
%RSD	456.3	4.124	91.49	167.2	275.3	11.96	181.1	.1506	.1815
#1	-.0004	.0017	-.0029	-.0027	.0002	.0053	-.0021	548.4	403.6
#2	-.0004	.0016	-.0013	.0011	-.0015	.0067	-.0023	550.0	404.7
#3	.0004	.0016	-.0002	-.0020	.0002	.0059	.0012	549.7	403.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**204.3**	**520.4**	**.0933**	**.0525**	**.0005**	**.0027**	**-.0046**	**-.0047**	**-.0061**
Stddev	.3	1.7	.0074	.0079	.0002	.0006	.0011	.0011	.0001
%RSD	.1527	.3322	7.914	15.04	41.03	21.87	24.34	23.13	1.264
#1	204.0	521.2	.0877	.0437	.0008	.0034	-.0058	-.0036	-.0062
#2	204.6	521.6	.1016	.0548	.0004	.0025	-.0035	-.0047	-.0061
#3	204.2	518.4	.0905	.0590	.0004	.0023	-.0044	-.0058	-.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icsa Acquired: 12/6/2018 16:47:31 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038**	**.0044**	**.0007**	**-.0241**	**.0072**	**.0016**	**.0191**
Stddev	.0003	.0036	.0001	.0019	.0011	.0002	.0006
%RSD	8.372	82.10	8.423	8.058	15.71	10.39	2.905
#1	.0034	.0050	.0007	-.0247	.0083	.0018	.0190
#2	.0041	.0076	.0007	-.0257	.0072	.0014	.0187
#3	.0038	.0005	.0006	-.0219	.0060	.0017	.0197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96620.**	**3846.6**	**3762.5**	**8935.4**
Stddev	306.	8.7	7.3	13.1
%RSD	.31704	.22537	.19421	.14641
#1	96275.	3842.6	3767.7	8941.6
#2	96858.	3840.6	3754.2	8920.3
#3	96729.	3856.5	3765.7	8944.2

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/6/2018 16:52:47 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5486**	**.5105**	**1.059**	**.4895**	**.4825**	**.5437**	**.5089**	**.9874**	**1.071**
Stddev	.0004	.0004	.001	.0006	.0029	.0029	.0026	.0008	.005
%RSD	.0697	.0798	.0985	.1300	.5992	.5347	.5096	.0772	.4575
#1	.5486	.5103	1.058	.4891	.4857	.5463	.5119	.9868	1.076
#2	.5489	.5110	1.058	.4902	.4816	.5442	.5076	.9883	1.070
#3	.5482	.5102	1.060	.4891	.4802	.5406	.5073	.9872	1.066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4938**	**.9750**	**1.121**	**1.000**	**.9894**	**1.093**	**1.121**	**539.2**	**395.6**
Stddev	.0034	.0026	.002	.005	.0028	.002	.003	.2	.9
%RSD	.6873	.2706	.2017	.4740	.2816	.1913	.2791	.0349	.2246
#1	.4977	.9722	1.121	.9958	.9870	1.093	1.118	539.2	395.7
#2	.4926	.9756	1.119	1.000	.9925	1.091	1.124	539.4	396.5
#3	.4912	.9774	1.123	1.005	.9889	1.095	1.121	539.0	394.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**200.7**	**502.0**	**.0574**	**.0482**	**.5314**	**.5065**	**.5447**	**.4917**	**.5955**
Stddev	.2	1.5	.0071	.0077	.0011	.0008	.0015	.0024	.0010
%RSD	.1133	.3052	12.36	15.95	.2082	.1660	.2814	.4883	.1711
#1	200.7	502.2	.0540	.0508	.5306	.5055	.5434	.4890	.5948
#2	200.8	503.4	.0526	.0396	.5327	.5071	.5464	.4935	.5966
#3	200.4	500.4	.0655	.0543	.5311	.5069	.5443	.4925	.5949
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/6/2018 16:52:47 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5045**	**.4938**	**.4969**	**.4926**	**.5740**	**.5584**	**.5492**
Stddev	.0033	.0030	.0006	.0035	.0023	.0019	.0015
%RSD	.6471	.6168	.1288	.7169	.4032	.3382	.2682
#1	.5081	.4911	.4963	.4918	.5752	.5563	.5480
#2	.5038	.4971	.4968	.4896	.5714	.5597	.5488
#3	.5017	.4932	.4975	.4965	.5755	.5594	.5509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96931.**	**3958.5**	**3722.5**	**8857.0**
Stddev	456.	9.8	4.4	5.3
%RSD	.47043	.24875	.11898	.06004
#1	96407.	3961.7	3725.6	8861.0
#2	97144.	3947.4	3724.5	8859.1
#3	97241.	3966.3	3717.4	8851.0

Zoom In Zoom Out

Sample Name: jc78811-10 Acquired: 12/6/2018 16:57:49 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212**	**-.0003**	**.0018**	**.0002**	**.0022**	**.0039**	**.2208**	**.0020**	**.0024**
Stddev	.0025	.0008	.0016	.0020	.0013	.0004	.0003	.0027	.0015
%RSD	11.96	278.6	88.86	825.2	58.32	11.61	.1528	134.8	63.24
#1	.0222	.0001	.0013	.0024	.0023	.0036	.2207	.0000	.0014
#2	.0231	-.0012	.0035	-.0001	.0034	.0044	.2211	.0051	.0017
#3	.0183	.0002	.0005	-.0016	.0009	.0036	.2204	.0009	.0042

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071**	**.0188**	**-.0021**	**.0031**	**-.0002**	**.0112**	**.0004**	**.0540**	**69.61**
Stddev	.0004	.0011	.0074	.0098	.0038	.0038	.0019	.0894	.63
%RSD	6.247	5.734	356.0	314.3	1646.	33.82	458.7	165.6	.9006
#1	.0069	.0200	-.0037	.0053	.0032	.0114	-.0009	-.0431	68.90
#2	.0067	.0179	-.0086	.0116	-.0044	.0148	-.0004	.1330	69.84
#3	.0075	.0186	.0060	-.0076	.0004	.0073	.0025	.0722	70.09

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1433**	**154.2**	**76.05**	**1344.**	**1.039**	**.0134**	**13.78**	**-.0044**	**1.144**
Stddev	.0318	1.3	.22	5.	.003	.0015	.03	.0030	.009
%RSD	22.19	.8441	.2891	.3738	.3170	11.35	.2305	66.52	.7452
#1	.1087	152.8	75.98	1345.	1.040	.0151	13.82	-.0078	1.135
#2	.1500	155.4	75.88	1338.	1.042	.0121	13.76	-.0034	1.147
#3	.1712	154.4	76.30	1348.	1.035	.0130	13.76	-.0021	1.151

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075**	**.0137**	**.0748**	**7.836**	**-.0082**	**.0283**	**4.810**
Stddev	.0022	.0073	.0051	.026	.0081	.0149	.015
%RSD	29.88	53.18	6.754	.3338	98.99	52.45	.3042
#1	.0049	.0137	.0797	7.866	-.0151	.0122	4.826
#2	.0089	.0210	.0752	7.820	.0007	.0414	4.799
#3	.0087	.0064	.0696	7.821	-.0101	.0314	4.804

Zoom In Zoom Out

Sample Name: jc78811-10 Acquired: 12/6/2018 16:57:49 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103450.**	**4246.3**	**4152.6**	**9557.7**
Stddev	198.	6.2	8.9	10.2
%RSD	.19120	.14697	.21482	.10634
#1	103240.	4250.9	4143.2	9553.7
#2	103620.	4249.0	4153.6	9550.2
#3	103510.	4239.2	4161.0	9569.3

Zoom In Zoom Out

Sample Name: mp11031-mb1 Acquired: 12/6/2018 17:03:13 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0001**	**.0010**	**.0002**	**.0005**	**-.0003**	**.0006**	**.0033**	**.0007**
Stddev	.0009	.0001	.0007	.0017	.0002	.0010	.0001	.0010	.0006
%RSD	102.9	101.4	70.59	755.7	37.27	310.0	15.03	31.48	84.31
#1	-.0005	-.0000	.0018	.0011	.0007	.0001	.0005	.0044	.0000
#2	-.0020	.0001	.0009	.0013	.0006	.0004	.0006	.0023	.0010
#3	-.0003	.0002	.0004	-.0017	.0003	-.0014	.0006	.0032	.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0106**	**-.0018**	**-.0020**	**-.0005**	**.0020**	**-.0034**	**.0259**	**.2184**
Stddev	.0007	.0006	.0052	.0049	.0052	.0062	.0063	.0248	.0130
%RSD	324.3	5.475	294.4	247.2	1035.	313.0	189.1	95.66	5.949
#1	.0011	.0109	-.0044	-.0004	-.0019	.0068	-.0105	.0181	.2332
#2	-.0000	.0109	-.0052	.0019	-.0048	.0043	.0016	.0537	.2088
#3	-.0003	.0099	.0042	-.0074	.0052	-.0050	-.0011	.0060	.2133

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0083**	**.0706**	**.0634**	**.4573**	**.0057**	**.0033**	**.5580**	**-.0010**	**.0033**
Stddev	.0077	.1830	.0750	.0167	.0012	.0026	.0020	.0025	.0004
%RSD	92.03	259.3	118.2	3.652	21.50	78.44	.3665	246.8	11.89
#1	-.0031	.0570	.1313	.4697	.0049	.0063	.5596	.0005	.0029
#2	-.0171	.2600	-.0170	.4383	.0072	.0015	.5557	.0003	.0037
#3	-.0047	-.1052	.0759	.4639	.0052	.0021	.5588	-.0039	.0032

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0060**	**.0078**	**.0081**	**-.0005**	**-.0000**	**.0047**
Stddev	.0005	.0081	.0003	.0067	.0016	.0043	.0019
%RSD	290.8	134.6	4.009	82.20	348.4	27010.	39.74
#1	.0005	.0101	.0081	.0126	.0013	-.0039	.0037
#2	-.0004	-.0033	.0076	.0004	-.0020	-.0007	.0068
#3	.0004	.0114	.0076	.0113	-.0007	.0046	.0035

Zoom In Zoom Out

Sample Name: mp11031-mb1 Acquired: 12/6/2018 17:03:13 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107350.**	**4265.9**	**4059.9**	**9372.0**
Stddev	405.	14.8	5.6	16.7
%RSD	.37689	.34597	.13773	.17790
#1	106900.	4276.2	4063.7	9388.6
#2	107500.	4249.0	4053.5	9355.2
#3	107670.	4272.5	4062.5	9372.2

Zoom In Zoom Out

Sample Name: mp11031-b1 Acquired: 12/6/2018 17:08:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.017**	**2.088**	**1.959**	**1.998**	**2.049**	**1.971**	**2.108**	**2.030**	**.2465**
Stddev	.008	.002	.001	.002	.007	.003	.002	.003	.0006
%RSD	.4009	.0796	.0697	.0753	.3218	.1456	.1157	.1374	.2632
#1	2.008	2.089	1.958	1.996	2.052	1.969	2.109	2.027	.2461
#2	2.024	2.086	1.960	1.998	2.053	1.970	2.110	2.030	.2473
#3	2.019	2.090	1.960	1.999	2.041	1.974	2.105	2.033	.2462

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.017**	**2.012**	**1.894**	**2.034**	**2.028**	**1.891**	**1.961**	**26.00**	**25.71**
Stddev	.001	.001	.007	.006	.007	.004	.003	.08	.03
%RSD	.0675	.0399	.3734	.3204	.3517	.2376	.1596	.2895	.1115
#1	2.019	2.012	1.887	2.036	2.021	1.896	1.964	25.92	25.69
#2	2.017	2.013	1.894	2.027	2.030	1.890	1.958	26.03	25.71
#3	2.016	2.011	1.901	2.039	2.034	1.887	1.962	26.06	25.74

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.06**	**24.18**	**25.65**	**26.37**	**1.918**	**2.053**	**.6413**	**2.013**	**2.046**
Stddev	.11	.18	.09	.04	.009	.006	.0004	.002	.001
%RSD	.4547	.7587	.3511	.1420	.4863	.2906	.0578	.1030	.0251
#1	25.11	24.23	25.58	26.33	1.928	2.060	.6413	2.011	2.045
#2	25.14	23.97	25.61	26.38	1.911	2.049	.6416	2.015	2.046
#3	24.93	24.32	25.75	26.40	1.914	2.051	.6409	2.013	2.046

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.022**	**2.008**	**2.030**	**-.2216**	**-.0125**	**-.0064**	**1.921**
Stddev	.002	.009	.005	.0021	.0035	.0030	.014
%RSD	.0980	.4494	.2506	.9591	27.91	47.54	.7518
#1	2.024	2.015	2.036	-.2200	-.0159	-.0036	1.905
#2	2.022	1.998	2.029	-.2240	-.0089	-.0096	1.933
#3	2.020	2.011	2.026	-.2207	-.0128	-.0061	1.924

Zoom In Zoom Out

Sample Name: mp11031-b1 Acquired: 12/6/2018 17:08:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106700.**	**4091.5**	**4368.7**	**10252.**
Stddev	252.	15.2	3.5	3.
%RSD	.23632	.37120	.07908	.03071
#1	106850.	4077.2	4372.7	10256.
#2	106410.	4107.4	4366.9	10250.
#3	106830.	4089.7	4366.6	10250.

Zoom In Zoom Out

Sample Name: mp11031-s1 Acquired: 12/6/2018 17:13:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.115**	**2.098**	**2.102**	**2.097**	**2.077**	**2.092**	**2.206**	**2.125**	**.2504**
Stddev	.002	.005	.001	.003	.005	.007	.006	.002	.0006
%RSD	.0985	.2240	.0366	.1445	.2582	.3526	.2663	.0691	.2289
#1	2.117	2.104	2.103	2.094	2.082	2.093	2.202	2.124	.2509
#2	2.113	2.095	2.102	2.100	2.078	2.098	2.213	2.127	.2505
#3	2.114	2.096	2.101	2.099	2.071	2.084	2.204	2.126	.2498

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.080**	**2.183**	**2.141**	**2.090**	**2.089**	**2.123**	**2.129**	**26.63**	**33.18**
Stddev	.005	.002	.002	.003	.002	.003	.003	.08	.12
%RSD	.2627	.0806	.0935	.1589	.0964	.1572	.1490	.2921	.3651
#1	2.084	2.181	2.141	2.086	2.092	2.120	2.128	26.72	33.31
#2	2.082	2.185	2.142	2.090	2.088	2.127	2.132	26.57	33.14
#3	2.073	2.184	2.138	2.093	2.089	2.122	2.126	26.61	33.07

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.70**	**24.96**	**26.98**	**27.67**	**2.149**	**2.111**	**.0772**	**2.096**	**2.134**
Stddev	.08	.10	.04	.04	.002	.003	.0012	.001	.004
%RSD	.3161	.3923	.1351	.1519	.0841	.1164	1.525	.0620	.1925
#1	25.79	25.07	26.94	27.71	2.151	2.109	.0786	2.095	2.138
#2	25.67	24.90	26.99	27.63	2.149	2.114	.0764	2.097	2.131
#3	25.64	24.91	27.00	27.68	2.148	2.111	.0767	2.096	2.132

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.096**	**2.089**	**2.123**	**.4571**	**-.0104**	**.0527**	**2.275**
Stddev	.004	.001	.006	.0019	.0012	.0001	.028
%RSD	.1894	.0402	.2623	.4129	11.14	.1634	1.229
#1	2.099	2.089	2.126	.4592	-.0110	.0526	2.306
#2	2.098	2.089	2.127	.4567	-.0112	.0527	2.266
#3	2.092	2.090	2.117	.4555	-.0091	.0528	2.252

Zoom In Zoom Out

Sample Name: mp11031-s1 Acquired: 12/6/2018 17:13:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104740.**	**4191.4**	**3912.4**	**9184.8**
Stddev	272.	15.6	.4	10.4
%RSD	.25941	.37120	.01086	.11276
#1	104540.	4177.1	3912.3	9195.1
#2	104630.	4189.2	3912.0	9185.1
#3	105050.	4208.0	3912.8	9174.4

Zoom In Zoom Out

Sample Name: mp11031-s2 Acquired: 12/6/2018 17:18:58 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.074**	**2.091**	**2.016**	**2.031**	**2.072**	**2.069**	**2.190**	**2.049**	**.2576**
Stddev	.002	.004	.003	.002	.006	.016	.006	.002	.0019
%RSD	.0793	.1789	.1573	.0721	.3146	.7543	.2803	.0821	.7493
#1	2.073	2.090	2.018	2.032	2.067	2.054	2.190	2.050	.2555
#2	2.076	2.095	2.017	2.031	2.080	2.085	2.197	2.047	.2593
#3	2.074	2.088	2.012	2.029	2.070	2.068	2.184	2.049	.2580

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.070**	**2.065**	**1.999**	**2.062**	**2.033**	**1.975**	**2.047**	**26.22**	**32.63**
Stddev	.010	.001	.001	.002	.001	.005	.000	.02	.05
%RSD	.4868	.0648	.0409	.0989	.0480	.2607	.0145	.0923	.1655
#1	2.060	2.066	1.998	2.063	2.034	1.981	2.047	26.24	32.67
#2	2.080	2.064	2.000	2.060	2.032	1.974	2.047	26.23	32.65
#3	2.071	2.065	1.999	2.064	2.033	1.971	2.047	26.20	32.57

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.18**	**24.63**	**26.60**	**27.31**	**2.014**	**2.078**	**.0913**	**2.048**	**2.095**
Stddev	.10	.03	.09	.02	.002	.001	.0023	.005	.004
%RSD	.3783	.1068	.3202	.0674	.1097	.0358	2.530	.2286	.1889
#1	25.19	24.61	26.51	27.29	2.013	2.077	.0887	2.054	2.092
#2	25.26	24.66	26.68	27.33	2.017	2.078	.0926	2.045	2.099
#3	25.07	24.62	26.61	27.31	2.013	2.078	.0928	2.046	2.093

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.088**	**2.049**	**2.110**	**.4084**	**-.0101**	**.0552**	**2.107**
Stddev	.009	.004	.012	.0013	.0005	.0009	.013
%RSD	.4402	.1718	.5692	.3087	4.656	1.592	.6179
#1	2.079	2.046	2.098	.4069	-.0097	.0544	2.093
#2	2.097	2.053	2.122	.4094	-.0101	.0561	2.117
#3	2.088	2.048	2.111	.4088	-.0106	.0552	2.113

Zoom In Zoom Out

Sample Name: mp11031-s2 Acquired: 12/6/2018 17:18:58 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103780.**	**4115.4**	**4146.0**	**9765.5**
Stddev	372.	15.6	4.9	7.0
%RSD	.35823	.37802	.11897	.07176
#1	104150.	4098.6	4141.7	9757.5
#2	103410.	4118.3	4145.1	9770.4
#3	103790.	4129.3	4151.4	9768.6

Zoom In Zoom Out

Sample Name: jc78841-1 Acquired: 12/6/2018 17:24:09 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083**	**.0000**	**.0002**	**.0002**	**.0000**	**.0017**	**.0932**	**.0025**	**.0005**
Stddev	.0001	.0001	.0001	.0000	.0001	.0001	.0002	.0004	.0001
%RSD	1.525	472.2	67.01	13.54	2522.	7.837	.1838	13.93	21.93
#1	.0083	-.0000	.0000	.0002	.0002	.0018	.0932	.0028	.0006
#2	.0081	.0001	.0002	.0002	-.0000	.0017	.0934	.0027	.0005
#3	.0084	-.0000	.0003	.0003	-.0001	.0015	.0930	.0021	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0521**	**-.0006**	**.0002**	**.0003**	**.0001**	**.0009**	**.0062**	**7.540**
Stddev	.0001	.0000	.0007	.0014	.0014	.0005	.0008	.0094	.044
%RSD	258.8	.0612	118.3	687.6	471.2	721.7	87.19	151.9	.5802
#1	-.0000	.0521	-.0014	.0018	.0018	.0001	.0013	-.0041	7.561
#2	-.0001	.0521	-.0003	-.0006	-.0007	-.0005	.0013	.0084	7.489
#3	.0000	.0521	-.0001	-.0006	-.0002	.0006	-.0000	.0144	7.569

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2367**	**.6376**	**.2275**	**.6207**	**.0231**	**.0037**	**.0404**	**.0000**	**.0148**
Stddev	.0033	.0056	.0095	.0055	.0002	.0005	.0003	.0004	.0000
%RSD	1.392	.8780	4.166	.8876	.9520	12.77	.6390	1634.	.3266
#1	.2336	.6441	.2172	.6144	.0233	.0042	.0406	.0005	.0148
#2	.2363	.6350	.2357	.6230	.0228	.0035	.0401	-.0003	.0148
#3	.2401	.6338	.2298	.6247	.0232	.0033	.0404	-.0001	.0147

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0027**	**.0011**	**.6054**	**-.0014**	**.0535**	**.0932**
Stddev	.0003	.0007	.0001	.0012	.0002	.0007	.0006
%RSD	110.0	27.61	6.926	.2005	13.00	1.376	.6263
#1	-.0001	.0027	.0011	.6062	-.0013	.0542	.0926
#2	.0005	.0035	.0012	.6040	-.0013	.0527	.0933
#3	.0005	.0020	.0010	.6061	-.0016	.0537	.0938

Zoom In Zoom Out

Sample Name: jc78841-1 Acquired: 12/6/2018 17:24:09 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107760.**	**4220.5**	**4268.5**	**10059.**
Stddev	136.	14.9	4.0	10.
%RSD	.12579	.35406	.09456	.09454
#1	107700.	4219.7	4266.1	10048.
#2	107670.	4235.9	4273.2	10065.
#3	107920.	4206.1	4266.2	10064.

Zoom In Zoom Out

Sample Name: mp11031-sd1 Acquired: 12/6/2018 17:29:36 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078**	**.0003**	**.0012**	**.0013**	**-.0006**	**.0013**	**.0925**	**.0028**	**.0016**
Stddev	.0003	.0003	.0005	.0015	.0009	.0008	.0001	.0003	.0020
%RSD	3.363	103.3	46.69	109.9	136.0	61.22	.1244	9.231	123.3
#1	.0075	.0002	.0013	-.0003	-.0015	.0005	.0926	.0028	.0030
#2	.0081	.0007	.0016	.0025	.0002	.0013	.0924	.0026	.0024
#3	.0078	.0001	.0006	.0017	-.0007	.0020	.0924	.0031	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0575**	**-.0003**	**-.0016**	**.0012**	**.0015**	**-.0042**	**.0242**	**7.556**
Stddev	.0002	.0006	.0015	.0043	.0042	.0052	.0039	.0697	.022
%RSD	90.34	1.114	520.2	264.0	343.6	343.7	92.94	288.2	.2902
#1	.0003	.0568	-.0010	.0023	-.0009	.0073	-.0063	-.0245	7.532
#2	.0003	.0576	.0014	-.0061	.0060	-.0029	.0003	.1040	7.561
#3	-.0000	.0580	-.0013	-.0010	-.0015	.0001	-.0066	-.0070	7.575

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2409**	**.6777**	**.0780**	**.7377**	**.0310**	**.0070**	**.1215**	**-.0045**	**.0150**
Stddev	.0262	.0575	.1904	.0162	.0014	.0010	.0007	.0006	.0008
%RSD	10.89	8.484	244.0	2.196	4.462	14.43	.6060	12.89	5.456
#1	.2570	.6168	-.0771	.7484	.0316	.0080	.1219	-.0050	.0147
#2	.2106	.6852	.0208	.7458	.0319	.0069	.1206	-.0046	.0144
#3	.2551	.7311	.2904	.7191	.0294	.0060	.1219	-.0039	.0160

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0065**	**.0010**	**.6193**	**-.0019**	**.0456**	**.1166**
Stddev	.0003	.0055	.0008	.0057	.0068	.0024	.0016
%RSD	47.87	84.44	75.47	.9171	359.6	5.364	1.347
#1	.0009	.0102	.0018	.6207	-.0063	.0451	.1164
#2	.0009	.0092	.0003	.6131	.0059	.0435	.1183
#3	.0003	.0002	.0009	.6242	-.0052	.0483	.1151

Zoom In Zoom Out

Sample Name: mp11031-sd1 Acquired: 12/6/2018 17:29:36 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107640.**	**4278.6**	**4198.3**	**9790.0**
Stddev	360.	16.7	3.1	10.9
%RSD	.33433	.39014	.07308	.11090
#1	107980.	4294.6	4195.6	9784.9
#2	107680.	4279.9	4197.6	9782.7
#3	107260.	4261.3	4201.6	9802.5

Zoom In Zoom Out

Sample Name: jc78841-2 Acquired: 12/6/2018 17:35:05 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058**	**.0000**	**.0002**	**.0017**	**.0006**	**.0023**	**.2108**	**.0039**	**.0004**
Stddev	.0004	.0001	.0001	.0002	.0003	.0000	.0005	.0002	.0000
%RSD	6.948	371.5	63.34	9.267	41.51	1.452	.2296	4.878	10.93
#1	.0058	.0000	.0001	.0015	.0008	.0023	.2106	.0039	.0004
#2	.0062	.0001	.0003	.0018	.0008	.0023	.2104	.0037	.0005
#3	.0054	-.0000	.0003	.0017	.0003	.0023	.2113	.0040	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0092**	**-.0013**	**-.0006**	**.0004**	**.0014**	**-.0003**	**.0051**	**.3127**
Stddev	.0001	.0003	.0019	.0004	.0007	.0012	.0004	.0108	.0052
%RSD	44.34	3.268	141.6	64.59	173.1	88.62	155.8	211.8	1.652
#1	.0002	.0090	-.0010	-.0007	.0005	.0023	-.0004	.0098	.3174
#2	.0002	.0091	.0004	-.0010	-.0003	-.0000	.0002	.0127	.3072
#3	.0004	.0096	-.0034	-.0002	.0011	.0019	-.0007	-.0072	.3136

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.766**	**.0661**	**.2414**	**.3116**	**.0196**	**.0012**	**.0152**	**.0007**	**.0010**
Stddev	.033	.0312	.0056	.0027	.0002	.0002	.0016	.0007	.0001
%RSD	.4227	47.22	2.336	.8610	1.229	13.41	10.42	110.9	10.85
#1	7.802	.0673	.2354	.3091	.0195	.0010	.0141	.0005	.0009
#2	7.738	.0343	.2423	.3112	.0199	.0013	.0145	.0000	.0011
#3	7.757	.0967	.2466	.3144	.0195	.0011	.0170	.0015	.0009

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0004**	**.0122**	**11.50**	**-.0005**	**-.0000**	**.0198**
Stddev	.0003	.0001	.0008	.31	.0012	.0008	.0005
%RSD	57.94	33.02	6.943	2.691	260.9	1747.	2.306
#1	.0007	.0003	.0130	11.35	.0005	-.0009	.0200
#2	.0003	.0004	.0121	11.30	-.0018	.0007	.0193
#3	.0003	.0006	.0114	11.86	-.0001	.0000	.0202

Zoom In Zoom Out

Sample Name: jc78841-2 Acquired: 12/6/2018 17:35:05 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107800.**	**4179.9**	**4109.7**	**9614.4**
Stddev	333.	9.0	96.6	215.6
%RSD	.30929	.21486	2.3504	2.2424
#1	107880.	4174.7	4158.7	9744.3
#2	108090.	4174.8	4172.0	9733.5
#3	107440.	4190.3	3998.4	9365.6

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 17:40:34 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.059**	**2.047**	**1.988**	**1.988**	**2.020**	**2.026**	**2.049**	**2.001**	**.2500**
Stddev	.004	.004	.002	.003	.024	.024	.029	.002	.0031
%RSD	.1945	.2079	.0778	.1522	1.209	1.182	1.420	.1198	1.228
#1	2.058	2.050	1.986	1.984	2.025	2.032	2.061	1.999	.2512
#2	2.055	2.042	1.988	1.990	1.994	2.000	2.016	2.002	.2465
#3	2.063	2.049	1.990	1.989	2.042	2.046	2.071	2.004	.2523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.019**	**1.951**	**1.964**	**2.039**	**1.993**	**1.944**	**2.028**	**40.97**	**39.47**
Stddev	.025	.006	.002	.005	.004	.000	.001	.09	.12
%RSD	1.213	.3099	.0864	.2242	.1805	.0173	.0251	.2094	.3151
#1	2.025	1.944	1.962	2.034	1.989	1.944	2.028	41.04	39.55
#2	1.992	1.953	1.965	2.041	1.996	1.945	2.027	40.87	39.33
#3	2.039	1.956	1.964	2.042	1.992	1.945	2.027	40.99	39.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.89**	**38.04**	**41.61**	**41.96**	**1.981**	**2.048**	**5.167**	**2.015**	**2.066**
Stddev	.13	.12	.10	.09	.003	.002	.005	.002	.004
%RSD	.3299	.3236	.2388	.2132	.1730	.0964	.0900	.0957	.2074
#1	39.00	38.14	41.60	42.03	1.982	2.047	5.168	2.013	2.070
#2	38.75	37.90	41.52	41.86	1.977	2.048	5.171	2.017	2.061
#3	38.93	38.06	41.72	41.99	1.983	2.051	5.162	2.016	2.066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 17:40:34 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.039**	**2.012**	**2.076**	**1.920**	**2.011**	**2.179**	**1.945**
Stddev	.025	.002	.025	.000	.004	.005	.001
%RSD	1.231	.0797	1.210	.0149	.2102	.2198	.0456
#1	2.045	2.010	2.082	1.920	2.015	2.182	1.944
#2	2.012	2.014	2.048	1.920	2.007	2.173	1.946
#3	2.061	2.012	2.098	1.920	2.011	2.181	1.945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104780.**	**4155.5**	**4180.2**	**9858.0**
Stddev	1353.	7.6	3.0	3.6
%RSD	1.2910	.18267	.07119	.03651
#1	104520.	4157.4	4178.8	9854.1
#2	106240.	4162.0	4183.6	9861.1
#3	103570.	4147.2	4178.2	9858.8

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 17:45:47 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0001**	**.0003**	**-.0002**	**-.0002**	**.0000**	**.0005**	**.0000**
Stddev	.0003	.0000	.0001	.0002	.0003	.0001	.0000	.0002	.0001
%RSD	786.2	397.1	70.45	48.09	153.2	57.55	158.1	31.39	319.2
#1	-.0003	.0001	.0002	.0005	-.0000	-.0001	.0000	.0004	-.0001
#2	.0001	-.0000	.0000	.0002	-.0005	-.0001	.0000	.0007	.0001
#3	.0003	-.0000	.0002	.0003	-.0000	-.0003	-.0000	.0004	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0002**	**.0001**	**.0014**	**.0010**	**.0006**	**.0002**	**.0192**	**-.0010**
Stddev	.0001	.0002	.0004	.0017	.0010	.0021	.0012	.0090	.0028
%RSD	51.69	79.31	321.0	119.5	96.21	343.8	727.2	46.58	275.2
#1	.0001	.0000	.0006	.0030	.0003	-.0017	.0006	.0296	.0010
#2	.0002	.0004	-.0000	.0014	.0021	.0013	.0011	.0146	.0001
#3	.0001	.0002	-.0002	-.0003	.0006	.0023	-.0012	.0136	-.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**-.0032**	**.0318**	**.0326**	**.0033**	F **.0030**	**.0003**	**.0001**	**.0000**
Stddev	.0023	.0235	.0251	.0024	.0002	.0003	.0004	.0005	.0000
%RSD	129.8	726.3	78.85	7.505	5.052	11.62	169.6	316.0	113.5
#1	.0039	-.0097	.0606	.0348	.0035	.0034	-.0001	.0004	-.0000
#2	-.0006	.0228	.0144	.0330	.0032	.0028	.0007	.0004	.0001
#3	.0020	-.0228	.0204	.0300	.0032	.0028	.0002	-.0004	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 17:45:47 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0024**	**.0001**	**.0004**	**.0001**	**.0003**	**.0010**
Stddev	.0002	.0010	.0000	.0013	.0015	.0002	.0008
%RSD	173.2	39.94	25.10	364.6	1432.	55.90	78.73
#1	.0001	.0031	.0001	-.0010	.0016	.0005	.0015
#2	-.0003	.0013	.0001	.0004	.0001	.0004	.0013
#3	-.0003	.0028	.0001	.0017	-.0014	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108290.**	**4336.7**	**4043.2**	**9380.2**
Stddev	60.	13.2	133.2	307.3
%RSD	.05549	.30421	3.2936	3.2765
#1	108330.	4332.3	4119.5	9557.1
#2	108320.	4351.5	4120.6	9558.1
#3	108220.	4326.2	3889.4	9025.3

Zoom In Zoom Out

Sample Name: niconf Acquired: 12/6/2018 17:51:21 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0001**	**-.0004**	**.0011**	**-.0000**	**.0002**	**.0000**	F **10.32**	**.0003**
Stddev	.0007	.0001	.0001	.0000	.0001	.0000	.0000	.02	.0002
%RSD	1721.	119.2	31.54	3.756	310.4	19.72	51.17	.2320	52.49
#1	.0005	.0001	-.0004	.0012	.0000	.0002	.0001	10.34	.0004
#2	.0002	.0001	-.0003	.0012	-.0001	.0002	.0000	10.33	.0005
#3	-.0008	-.0000	-.0005	.0011	-.0000	.0003	.0001	10.30	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0002**	**.0005**	**-.0004**	**.0001**	**-.0002**	**.0021**	**.0053**	**.0074**
Stddev	.0001	.0001	.0005	.0008	.0006	.0009	.0015	.0086	.0056
%RSD	28.54	41.02	103.3	216.8	458.2	416.7	73.48	162.8	75.03
#1	.0002	-.0003	.0002	.0004	-.0002	-.0012	.0038	-.0043	.0138
#2	.0003	-.0002	.0002	-.0012	-.0002	.0007	.0008	.0077	.0040
#3	.0004	-.0001	.0010	-.0003	.0008	-.0002	.0016	.0124	.0045

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0055**	**.0098**	**.0209**	**.0020**	**.0017**	**-.0037**	**-.0006**	**.0000**
Stddev	.0024	.0221	.0182	.0039	.0004	.0001	.0002	.0008	.0000
%RSD	140.6	405.0	186.0	18.74	20.60	4.758	6.138	143.0	58.19
#1	.0044	.0114	.0281	.0186	.0023	.0017	-.0036	.0003	.0001
#2	.0004	-.0190	-.0082	.0254	.0015	.0016	-.0035	-.0007	.0000
#3	.0002	.0240	.0094	.0187	.0022	.0017	-.0039	-.0013	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0017**	**.0002**	**-.0007**	**-.0017**	**-.0006**	**.0097**
Stddev	.0001	.0009	.0001	.0003	.0010	.0002	.0006
%RSD	197.2	53.44	29.38	44.94	57.17	38.75	6.023
#1	-.0001	.0026	.0003	-.0006	-.0027	-.0009	.0094
#2	.0001	.0016	.0001	-.0010	-.0013	-.0004	.0103
#3	.0002	.0008	.0002	-.0004	-.0010	-.0005	.0093

Zoom In Zoom Out

Sample Name: niconf Acquired: 12/6/2018 17:51:21 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107760.**	**4274.2**	**4107.0**	**9527.3**
Stddev	264.	1.9	15.8	23.8
%RSD	.24497	.04489	.38521	.24979
#1	107930.	4272.4	4092.5	9503.0
#2	107900.	4276.2	4104.5	9528.4
#3	107460.	4274.1	4123.9	9550.5

Zoom In Zoom Out

Sample Name: baconf Acquired: 12/6/2018 17:56:53 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.27**	**.0001**	**-.0006**	**.0002**	**-.0004**	**-.0002**	**-.0000**	**.0002**	**.0011**
Stddev	.04	.0001	.0001	.0002	.0001	.0000	.0000	.0002	.0003
%RSD	.3707	56.06	23.30	143.8	27.95	18.02	55.36	92.28	22.40
#1	10.24	.0002	-.0005	.0004	-.0004	-.0002	-.0000	.0005	.0012
#2	10.25	.0001	-.0005	-.0000	-.0003	-.0002	-.0000	.0003	.0013
#3	10.31	.0001	-.0007	.0001	-.0005	-.0003	-.0000	.0000	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0004**	**-.0006**	**.0012**	**-.0000**	**-.0012**	**.0004**	**-.0142**	**-.0161**
Stddev	.0001	.0000	.0007	.0005	.0018	.0021	.0005	.0054	.0008
%RSD	377.8	4.216	134.0	43.29	8295.	181.4	116.3	37.86	5.241
#1	.0000	-.0004	-.0003	.0006	.0017	.0006	.0009	-.0200	-.0165
#2	-.0001	-.0004	-.0014	.0016	-.0019	-.0006	.0004	-.0094	-.0152
#3	-.0000	-.0004	.0000	.0013	.0002	-.0035	-.0001	-.0133	-.0167

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0049**	**.0030**	**-.0181**	**.0141**	**.0018**	**.0008**	**-.0045**	**.0002**	**.0002**
Stddev	.0049	.0261	.0129	.0035	.0004	.0001	.0008	.0005	.0001
%RSD	99.09	863.0	71.01	25.21	20.33	15.56	17.35	286.2	34.90
#1	-.0048	.0238	-.0231	.0135	.0021	.0008	-.0054	-.0004	.0001
#2	-.0098	.0115	-.0035	.0179	.0014	.0007	-.0040	.0003	.0002
#3	-.0001	-.0263	-.0278	.0108	.0019	.0009	-.0041	.0007	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0004**	**.0005**	**.0003**	**-.0009**	**-.0010**	**.0015**
Stddev	.0002	.0015	.0000	.0002	.0009	.0004	.0005
%RSD	156.4	410.3	8.650	75.81	104.6	38.53	31.81
#1	-.0000	-.0013	.0006	.0005	-.0009	-.0012	.0015
#2	-.0000	.0008	.0005	.0004	.0000	-.0006	.0020
#3	-.0003	.0016	.0006	.0000	-.0019	-.0012	.0011

Zoom In Zoom Out

Sample Name: baconf Acquired: 12/6/2018 17:56:53 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107630.**	**4246.8**	**4173.9**	**9733.3**
Stddev	101.	6.1	3.7	5.7
%RSD	.09379	.14382	.08899	.05806
#1	107630.	4253.8	4170.2	9731.3
#2	107520.	4244.1	4177.6	9728.8
#3	107720.	4242.5	4173.8	9739.6

Zoom In Zoom Out

Sample Name: znconf Acquired: 12/6/2018 18:02:26 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0001**	**.0003**	**-.0000**	**-.0002**	**-.0006**	**.0001**	**-.0002**
Stddev	.0002	.0000	.0000	.0001	.0001	.0001	.0000	.0004
%RSD	143.4	19.59	15.65	537.6	62.51	10.88	35.71	234.6
#1	-.0001	-.0001	.0004	.0001	-.0003	-.0005	.0000	-.0005
#2	-.0003	-.0001	.0003	-.0002	-.0001	-.0006	.0001	.0002
#3	.0001	-.0001	.0003	.0000	-.0003	-.0007	.0001	-.0002

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	F **11.49**	**-.0004**	F **-.0022**	**-.0003**	**.0029**	**-.0004**
Stddev	.0002	.0001	.01	.0002	.0017	.0013	.0001	.0008
%RSD	829.7	95.94	.0905	59.89	78.23	458.4	2.558	228.9
#1	-.0001	.0000	11.48	-.0003	-.0002	-.0017	.0029	.0000
#2	-.0000	.0003	11.50	-.0002	-.0029	.0009	.0028	.0002
#3	.0002	.0001	11.49	-.0006	-.0034	-.0000	.0030	-.0013

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0124**	**-.0068**	**-.0061**	**.0246**	**-.0076**	**.0139**	**.0014**	**.0006**
Stddev	.0073	.0040	.0018	.0087	.0206	.0069	.0004	.0002
%RSD	58.87	59.32	30.20	35.28	270.4	49.72	25.32	32.06
#1	-.0041	-.0027	-.0052	.0146	-.0276	.0178	.0018	.0004
#2	-.0180	-.0107	-.0049	.0294	-.0088	.0180	.0014	.0007
#3	-.0150	-.0070	-.0082	.0297	.0136	.0059	.0011	.0008

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0002**	**-.0001**	**.0001**	**-.0066**	**.0004**	**.0002**	**-.0008**
Stddev	.0006	.0008	.0001	.0001	.0019	.0001	.0009	.0004
%RSD	44.03	358.5	197.3	94.76	28.42	25.32	446.0	50.03
#1	-.0017	.0012	-.0002	.0002	-.0081	.0003	.0006	-.0012
#2	-.0015	-.0001	.0001	-.0000	-.0045	.0005	.0008	-.0009
#3	-.0006	-.0004	-.0001	.0003	-.0071	.0004	-.0008	-.0004

Zoom In Zoom Out

Sample Name: znconf Acquired: 12/6/2018 18:02:26 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0004**	**.0000**
Stddev	.0006	.0005
%RSD	153.6	4271.
#1	-.0009	.0004
#2	-.0004	.0002
#3	.0002	-.0006

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107600.**	**4251.0**	**4040.0**	**9340.2**
Stddev	448.	1.4	2.6	3.4
%RSD	.41674	.03245	.06495	.03639
#1	107090.	4252.6	4042.9	9339.0
#2	107780.	4249.9	4039.4	9337.5
#3	107930.	4250.6	4037.7	9344.0

Zoom In Zoom Out

Sample Name: ticonf Acquired: 12/6/2018 18:07:57 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0004**	**-.0004**	**-.0003**	**.0002**	**.0004**	**.0000**	**-.0009**
Stddev	.0003	.0000	.0002	.0001	.0002	.0001	.0000	.0003
%RSD	207.4	2.586	38.24	43.35	114.1	17.84	227.6	29.81
#1	.0002	.0004	-.0006	-.0001	.0004	.0005	.0000	-.0007
#2	-.0003	.0004	-.0003	-.0003	.0003	.0003	.0000	-.0008
#3	-.0003	.0004	-.0004	-.0004	-.0001	.0005	-.0000	-.0012

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0018**	**-.0019**	**.0005**	**-.0011**	**.0002**	**-.0013**	**.0006**
Stddev	.0002	.0001	.0001	.0006	.0012	.0013	.0004	.0006
%RSD	31.63	3.360	4.797	127.0	110.5	621.6	30.15	98.97
#1	.0010	.0019	-.0020	.0012	-.0020	-.0006	-.0010	.0013
#2	.0005	.0019	-.0018	.0001	.0003	-.0005	-.0012	.0005
#3	.0007	.0018	-.0019	.0001	-.0016	.0017	-.0017	.0001

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**-.0093**	**.0046**	**-.0441**	**-.0242**	**.0045**	**.0019**	**.0005**
Stddev	.0178	.0032	.0020	.0181	.0081	.0114	.0005	.0001
%RSD	1066.	34.56	43.60	41.00	33.38	250.3	25.14	24.38
#1	-.0141	-.0117	.0045	-.0636	-.0269	.0095	.0014	.0006
#2	-.0020	-.0106	.0066	-.0280	-.0152	-.0085	.0024	.0004
#3	.0210	-.0057	.0026	-.0407	-.0307	.0126	.0019	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0175**	**.0087**	**.0005**	F **10.64**	**.0004**	**.0227**	**-.0007**	F **-.0270**
Stddev	.0010	.0002	.0002	.05	.0013	.0022	.0004	.0007
%RSD	5.986	2.661	33.03	.5010	316.8	9.555	50.84	2.415
#1	.0172	.0085	.0006	10.61	.0001	.0249	-.0008	-.0264
#2	.0186	.0087	.0005	10.71	-.0007	.0226	-.0003	-.0270
#3	.0166	.0090	.0003	10.61	.0018	.0206	-.0011	-.0277

Zoom In Zoom Out

Sample Name: ticonf Acquired: 12/6/2018 18:07:57 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0012**	**.0001**
Stddev	.0002	.0003
%RSD	14.24	495.8
#1	-.0012	-.0000
#2	-.0014	-.0002
#3	-.0010	.0005

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107600.**	**4320.3**	**4205.4**	**9808.8**
Stddev	188.	14.1	36.8	79.7
%RSD	.17483	.32528	.87471	.81273
#1	107690.	4329.6	4222.6	9852.4
#2	107380.	4327.2	4163.1	9716.8
#3	107730.	4304.1	4230.3	9857.3

Zoom In Zoom Out

Sample Name: vconf Acquired: 12/6/2018 18:13:39 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0005**	**.0012**	**.0003**	**.0003**	**.0002**	**-.0000**	**.0005**	**-.0005**
Stddev	.0002	.0000	.0000	.0000	.0001	.0001	.0000	.0006	.0001
%RSD	48.66	9.695	3.544	5.986	44.33	77.20	105.3	112.0	18.44
#1	.0007	-.0005	.0011	.0003	.0004	.0002	-.0000	.0011	-.0006
#2	.0005	-.0006	.0012	.0003	.0002	.0000	-.0000	-.0001	-.0004
#3	.0003	-.0005	.0012	.0003	.0004	.0002	.0000	.0005	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **9.860**	**.0001**	**.0002**	**-.0000**	**.0016**	**.0004**	**.0009**	**.0106**	**.0044**
Stddev	.020	.0001	.0007	.0008	.0017	.0007	.0013	.0110	.0029
%RSD	.2005	85.14	356.5	3915.	103.8	179.5	144.2	104.0	66.07
#1	9.871	.0000	-.0006	.0006	.0023	.0005	.0006	.0016	.0078
#2	9.872	.0002	.0004	.0003	-.0003	-.0004	-.0002	.0072	.0027
#3	9.837	.0001	.0007	-.0009	.0028	.0009	.0023	.0229	.0028

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**-.0229**	**-.0073**	**.0115**	**.0009**	**-.0007**	**.0866**	**.0010**	**.0004**
Stddev	.0033	.0176	.0042	.0014	.0005	.0001	.0046	.0011	.0001
%RSD	188.8	77.10	57.74	12.46	51.83	14.04	5.260	103.8	26.74
#1	-.0014	-.0052	-.0026	.0099	.0006	-.0008	.0816	.0007	.0005
#2	.0015	-.0404	-.0107	.0124	.0015	-.0008	.0876	.0022	.0003
#3	.0051	-.0230	-.0085	.0123	.0007	-.0006	.0905	.0002	.0004

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0013**	**.0194**	**-.0365**	**.0046**	**-.0004**	**-.0031**
Stddev	.0001	.0010	.0012	.0018	.0003	.0003	.0003
%RSD	34.32	75.76	6.445	4.926	5.963	76.00	9.598
#1	-.0002	.0002	.0207	-.0346	.0045	-.0007	-.0030
#2	-.0004	.0019	.0191	-.0382	.0049	-.0001	-.0035
#3	-.0004	.0018	.0183	-.0368	.0044	-.0004	-.0030

Zoom In Zoom Out

Sample Name: vconf Acquired: 12/6/2018 18:13:39 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108110.**	**4352.5**	**4083.5**	**9465.2**
Stddev	103.	8.6	7.8	9.1
%RSD	.09499	.19773	.19109	.09643
#1	108140.	4357.3	4079.2	9459.4
#2	108000.	4357.7	4078.8	9460.5
#3	108200.	4342.6	4092.5	9475.7

Zoom In Zoom Out

Sample Name: mnconf Acquired: 12/6/2018 18:19:20 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0001**	**.0003**	**-.0000**	**.0037**	**-.0021**	F **9.639**	**.0003**	**-.0010**
Stddev	.0001	.0001	.0001	.0003	.0004	.0032	1.255	.0003	.0016
%RSD	67.57	94.73	23.36	1345.	10.26	149.4	13.02	98.16	163.0
#1	-.0000	-.0000	.0002	-.0002	.0037	-.0002	10.34	-.0000	-.0018
#2	-.0003	-.0000	.0003	.0003	.0041	-.0004	10.38	.0005	-.0019
#3	-.0003	-.0001	.0003	-.0002	.0033	-.0058	8.190	.0004	.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0001**	**-.0001**	**.0000**	**-.0001**	**-.0003**	**.0000**	**.0068**	**-.0081**
Stddev	.0003	.0001	.0004	.0024	.0011	.0017	.0008	.0120	.0025
%RSD	56.53	57.82	413.0	11710.	1274.	663.1	1980.	176.7	31.00
#1	.0006	-.0001	.0004	-.0005	-.0000	.0003	.0009	.0084	-.0074
#2	.0007	-.0002	-.0004	-.0021	-.0012	-.0022	-.0001	-.0059	-.0108
#3	.0002	-.0001	-.0003	.0026	.0010	.0011	-.0007	.0179	-.0060

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054**	**-.0162**	**.0019**	**.0089**	**.0006**	**.0002**	**-.0089**	**-.0009**	**.0000**
Stddev	.0038	.0198	.0147	.0029	.0008	.0002	.0012	.0002	.0002
%RSD	70.64	122.2	772.7	32.96	134.2	71.82	13.84	26.09	1379.
#1	.0058	-.0336	-.0149	.0119	.0000	.0002	-.0098	-.0009	.0003
#2	.0091	-.0203	.0122	.0090	.0002	.0004	-.0095	-.0011	-.0002
#3	.0014	.0053	.0084	.0060	.0015	.0001	-.0075	-.0007	-.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**-.0006**	**-.0022**	**-.0002**	**-.0010**	**.0237**
Stddev	.0003	.0005	.0001	.0039	.0003	.0013	.0051
%RSD	241.3	5510.	21.05	171.9	213.1	130.4	21.72
#1	-.0001	.0002	-.0006	-.0045	-.0005	-.0005	.0271
#2	.0000	-.0006	-.0007	-.0045	.0001	-.0025	.0262
#3	.0004	.0004	-.0005	.0022	-.0000	-.0000	.0178

Zoom In Zoom Out

Sample Name: mnconf Acquired: 12/6/2018 18:19:20 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**116530.**	**4177.4**	**4217.9**	**9799.1**
Stddev	16100.	13.9	6.7	13.2
%RSD	13.816	.33258	.15920	.13520
#1	107310.	4188.9	4225.4	9811.6
#2	107170.	4181.2	4215.5	9800.5
#3	135120.	4162.0	4212.6	9785.3

Zoom In Zoom Out

Sample Name: moconf Acquired: 12/6/2018 18:24:59 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0001**	**.0002**	**-.0018**	**-.0005**	**.0008**	**-.0005**	**.0004**	**-.0010**
Stddev	.0001	.0001	.0001	.0002	.0001	.0001	.0000	.0002	.0001
%RSD	23.41	79.18	29.38	13.62	12.38	12.81	7.333	53.69	13.65
#1	-.0003	.0000	.0003	-.0020	-.0004	.0008	-.0005	.0004	-.0011
#2	-.0004	.0002	.0002	-.0015	-.0005	.0007	-.0005	.0002	-.0010
#3	-.0005	.0001	.0002	-.0018	-.0006	.0009	-.0004	.0007	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0098**	**.0013**	**.0022**	**.0053**	**-.0022**	**.0005**	**-.0014**	**.0136**	**-.0063**
Stddev	.0006	.0000	.0004	.0004	.0005	.0013	.0002	.0129	.0028
%RSD	6.258	2.119	19.74	7.635	21.15	280.4	17.28	94.57	44.43
#1	-.0096	.0013	.0024	.0049	-.0020	.0003	-.0017	.0019	-.0049
#2	-.0093	.0013	.0017	.0058	-.0027	-.0008	-.0013	.0275	-.0045
#3	-.0105	.0012	.0026	.0053	-.0018	.0019	-.0012	.0115	-.0095

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0610**	**-.0221**	**.0280**	**-.0184**	F **9.455**	**-.0060**	**-.0008**	**-.0001**
Stddev	.0052	.0111	.0080	.0031	.0010	.005	.0004	.0006	.0001
%RSD	422.7	18.16	36.10	11.09	5.184	.0489	6.507	71.71	105.2
#1	.0044	.0484	-.0171	.0315	-.0195	9.458	-.0058	-.0001	.0000
#2	.0040	.0655	-.0313	.0271	-.0177	9.457	-.0056	-.0012	-.0001
#3	-.0047	.0691	-.0179	.0255	-.0181	9.449	-.0064	-.0011	-.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0048**	**-.0005**	**-.0012**	**-.0078**	**-.0017**	**-.0017**	**.0006**
Stddev	.0002	.0007	.0001	.0024	.0015	.0001	.0002
%RSD	3.304	136.1	5.021	31.02	85.43	5.442	34.57
#1	-.0047	-.0011	-.0012	-.0068	-.0011	-.0018	.0006
#2	-.0050	-.0007	-.0013	-.0061	-.0034	-.0016	.0008
#3	-.0047	.0003	-.0012	-.0106	-.0006	-.0017	.0004

Zoom In Zoom Out

Sample Name: moconf Acquired: 12/6/2018 18:24:59 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108080.**	**4236.3**	**4075.8**	**9436.3**
Stddev	564.	16.1	4.7	9.0
%RSD	.52214	.38074	.11445	.09569
#1	107430.	4247.6	4070.5	9430.9
#2	108430.	4217.8	4077.7	9446.7
#3	108380.	4243.5	4079.2	9431.3

Zoom In Zoom Out

Sample Name: siconf Acquired: 12/6/2018 18:30:28 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0000**	**.0002**	**.0002**	**-.0002**	**.0004**	**-.0000**	**-.0002**	**.0002**
Stddev	.0003	.0000	.0001	.0000	.0002	.0002	.0000	.0001	.0001
%RSD	545.7	163.5	27.84	20.06	152.2	43.48	108.8	61.67	56.63
#1	-.0004	-.0000	.0002	.0003	.0001	.0002	-.0000	-.0002	.0001
#2	.0000	.0000	.0003	.0002	-.0004	.0005	-.0000	-.0003	.0003
#3	.0002	-.0000	.0002	.0002	-.0002	.0004	.0000	-.0001	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**-.0023**	**-.0009**	**-.0000**	**-.0015**	**-.0004**	**-.0003**	**-.0131**	**-.0051**
Stddev	.0001	.0000	.0011	.0017	.0012	.0009	.0010	.0067	.0013
%RSD	38.64	2.076	124.4	96150.	78.02	245.0	363.6	50.92	25.30
#1	-.0004	-.0022	-.0016	.0015	-.0024	.0001	.0004	-.0054	-.0057
#2	-.0003	-.0022	-.0014	.0004	-.0002	.0002	.0002	-.0173	-.0061
#3	-.0002	-.0023	.0004	-.0019	-.0021	-.0015	-.0015	-.0166	-.0036

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0116**	**-.0274**	**.0019**	**.0007**	**.0229**	**10.26**	**-.0003**	**.0002**
Stddev	.0005	.0126	.0336	.0012	.0003	.0050	.01	.0007	.0001
%RSD	66.73	108.9	122.6	62.19	49.85	22.00	.0671	255.0	44.89
#1	.0010	.0066	-.0598	.0033	.0003	.0281	10.26	.0003	.0003
#2	.0002	.0259	.0073	.0011	.0009	.0226	10.26	-.0001	.0001
#3	.0009	.0022	-.0297	.0015	.0008	.0180	10.25	-.0010	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0007**	**.0087**	**.0016**	**-.0013**	**-.0013**	**.0013**
Stddev	.0001	.0004	.0005	.0010	.0003	.0003	.0002
%RSD	61.67	51.39	5.884	62.85	25.61	26.32	14.84
#1	.0000	.0007	.0092	.0007	-.0012	-.0011	.0013
#2	.0002	.0004	.0087	.0027	-.0017	-.0010	.0011
#3	.0002	.0011	.0082	.0013	-.0011	-.0016	.0015

Zoom In Zoom Out

Sample Name: siconf Acquired: 12/6/2018 18:30:28 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107800.**	**4265.9**	**4098.6**	**9483.5**
Stddev	214.	13.2	2.5	1.7
%RSD	.19826	.30852	.06079	.01747
#1	108040.	4281.0	4098.8	9481.6
#2	107730.	4257.0	4096.1	9484.2
#3	107630.	4259.6	4101.0	9484.6

Zoom In Zoom Out

Sample Name: sconf Acquired: 12/6/2018 18:35:59 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0000**	**.0001**	**.0001**	**-.0002**	**.0008**	**.0000**	**.0001**	**-.0001**
Stddev	.0002	.0000	.0002	.0001	.0002	.0004	.0000	.0002	.0002
%RSD	168.0	115.6	131.3	59.17	79.09	44.57	62.94	435.2	128.1
#1	-.0000	-.0000	.0002	.0001	-.0001	.0012	.0000	.0001	-.0001
#2	-.0004	.0000	.0003	.0000	-.0001	.0005	.0000	-.0002	-.0003
#3	.0000	.0000	-.0001	.0001	-.0004	.0008	.0000	.0003	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0002**	**-.0007**	**.0011**	**-.0005**	**.0003**	**-.0008**	**.0103**	**-.0019**
Stddev	.0001	.0001	.0010	.0013	.0009	.0005	.0008	.0046	.0020
%RSD	33.43	50.53	151.8	110.7	172.4	177.1	95.41	44.92	108.1
#1	-.0002	-.0002	-.0009	-.0002	.0004	.0008	-.0003	.0060	-.0021
#2	-.0001	-.0001	-.0015	.0014	-.0006	-.0003	-.0004	.0152	-.0038
#3	-.0002	-.0001	.0004	.0023	-.0014	.0003	-.0018	.0097	.0003

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0022**	**-.0119**	**-.0082**	**.0077**	**.0011**	**.0043**	**.0016**	**-.0005**	**-.0000**
Stddev	.0057	.0188	.0280	.0077	.0005	.0003	.0007	.0010	.0002
%RSD	254.7	157.4	340.2	99.96	41.31	8.004	46.31	188.7	608.6
#1	.0023	-.0147	-.0206	.0006	.0015	.0046	.0021	.0005	-.0000
#2	-.0003	.0081	-.0279	.0159	.0006	.0043	.0019	-.0006	-.0002
#3	-.0086	-.0292	.0238	.0067	.0012	.0039	.0008	-.0015	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0009**	**.0000**	F **112.7**	**-.0012**	**-.0014**	**.0009**
Stddev	.0001	.0007	.0001	.3	.0008	.0011	.0010
%RSD	1462.	75.52	209.5	.2566	66.49	77.81	112.3
#1	.0001	.0013	.0001	113.1	-.0003	-.0009	.0020
#2	.0000	.0014	-.0001	112.6	-.0017	-.0026	.0006
#3	-.0001	.0001	.0001	112.6	-.0017	-.0006	.0000

Zoom In Zoom Out

Sample Name: sconf Acquired: 12/6/2018 18:35:59 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107580.**	**4116.0**	**4114.8**	**9548.3**
Stddev	547.	26.9	10.5	11.3
%RSD	.50862	.65447	.25516	.11873
#1	107060.	4120.3	4103.1	9545.4
#2	108150.	4140.5	4123.3	9560.8
#3	107540.	4087.2	4118.1	9538.7

Zoom In Zoom Out

Sample Name: coconf Acquired: 12/6/2018 18:41:31 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0000**	**-.0008**	F **11.05**	**-.0002**	**-.0001**	**-.0001**	**-.0037**	**.0001**
Stddev	.0003	.0001	.0001	.03	.0001	.0001	.0000	.0003	.0001
%RSD	1321.	231.0	12.10	.2538	42.70	65.43	40.53	7.453	102.2
#1	.0004	-.0000	-.0008	11.05	-.0002	-.0002	-.0001	-.0037	.0001
#2	-.0002	-.0001	-.0009	11.08	-.0001	-.0000	-.0000	-.0040	.0001
#3	-.0001	.0000	-.0008	11.02	-.0001	-.0002	-.0001	-.0034	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**-.0015**	**.0007**	**-.0013**	**.0007**	**.0009**	**.0007**	**-.0021**	**-.0220**
Stddev	.0002	.0001	.0005	.0012	.0008	.0015	.0005	.0091	.0041
%RSD	14.53	5.519	76.79	92.77	119.4	168.5	76.07	433.9	18.67
#1	.0011	-.0016	.0011	.0001	-.0002	.0026	.0004	-.0067	-.0202
#2	.0013	-.0015	.0008	-.0021	.0008	-.0004	.0004	.0084	-.0267
#3	.0015	-.0014	.0001	-.0018	.0015	.0005	.0013	-.0080	-.0191

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0044**	**.0047**	**-.0112**	**-.0017**	**-.0002**	**.0020**	**-.0024**	**-.0006**	**.0000**
Stddev	.0036	.0163	.0314	.0053	.0003	.0003	.0003	.0010	.0001
%RSD	82.79	343.8	279.4	303.3	185.8	13.62	13.68	161.2	895.7
#1	-.0085	.0219	.0140	.0023	.0002	.0019	-.0020	.0002	-.0000
#2	-.0016	-.0104	-.0013	-.0077	-.0003	.0018	-.0027	-.0017	-.0000
#3	-.0030	.0027	-.0463	.0002	-.0004	.0023	-.0024	-.0004	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0009**	**.0001**	**.0092**	**-.0159**	**-.0005**	**.0014**
Stddev	.0001	.0016	.0001	.0027	.0012	.0007	.0003
%RSD	679.7	169.9	116.6	29.15	7.737	158.7	21.32
#1	-.0001	.0005	.0003	.0067	-.0151	-.0004	.0017
#2	.0001	-.0026	.0001	.0089	-.0173	.0002	.0011
#3	.0001	-.0007	.0000	.0120	-.0153	-.0012	.0014

Zoom In Zoom Out

Sample Name: coconf Acquired: 12/6/2018 18:41:31 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107440.**	**4190.6**	**4120.1**	**9587.2**
Stddev	360.	9.4	8.8	12.2
%RSD	.33505	.22434	.21457	.12699
#1	107850.	4184.6	4109.9	9578.8
#2	107270.	4201.4	4124.2	9581.6
#3	107200.	4185.6	4126.1	9601.2

Zoom In Zoom Out

Sample Name: alconf Acquired: 12/6/2018 18:47:03 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0000**	**.0007**	**.0009**	**.0024**	**.0011**	**.0003**	**-.0003**	**-.0009**
Stddev	.0005	.0001	.0001	.0005	.0002	.0001	.0000	.0002	.0001
%RSD	151.4	106.9	10.20	54.20	8.443	9.734	6.538	67.40	16.51
#1	-.0001	.0001	.0007	.0007	.0026	.0010	.0003	-.0001	-.0011
#2	.0008	.0000	.0007	.0006	.0022	.0012	.0003	-.0005	-.0008
#3	.0002	.0000	.0006	.0015	.0024	.0012	.0003	-.0004	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0007**	**-.0005**	**.0005**	**.0021**	**.0054**	**-.0006**	F **537.0**	**.0090**
Stddev	.0000	.0003	.0011	.0017	.0016	.0019	.0007	1.2	.0077
%RSD	58.01	41.14	252.3	355.7	72.63	34.52	112.1	.2221	85.49
#1	.0000	.0004	-.0005	.0010	.0024	.0060	-.0014	537.9	.0070
#2	.0001	.0010	.0007	-.0014	.0005	.0033	-.0001	537.5	.0175
#3	.0001	.0008	-.0016	.0018	.0036	.0069	-.0004	535.7	.0025

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0308**	**-.0020**	**.0288**	**.0966**	**.0006**	**.0008**	**.0123**	**-.0012**	**.0005**
Stddev	.0046	.0207	.0174	.0079	.0010	.0002	.0013	.0010	.0001
%RSD	15.10	1036.	60.44	8.227	164.5	28.53	10.38	84.21	28.69
#1	.0288	.0207	.0446	.0876	.0018	.0006	.0135	-.0018	.0003
#2	.0361	-.0069	.0316	.1028	.0001	.0007	.0109	-.0018	.0006
#3	.0275	-.0197	.0101	.0993	-.0000	.0010	.0124	-.0000	.0005

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0029**	**-.0004**	**-.0068**	**-.0023**	**-.0002**	**.0109**
Stddev	.0004	.0020	.0000	.0042	.0014	.0009	.0001
%RSD	33.60	70.11	13.63	61.44	59.32	489.1	1.127
#1	.0008	.0008	-.0003	-.0023	-.0011	-.0012	.0111
#2	.0015	.0029	-.0004	-.0105	-.0021	.0005	.0109
#3	.0010	.0049	-.0004	-.0077	-.0038	.0001	.0108

Sample Name: alconf Acquired: 12/6/2018 18:47:03 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102920.**	**3731.2**	**3956.5**	**9295.4**
Stddev	521.	3.6	5.3	16.8
%RSD	.50595	.09631	.13466	.18125
#1	102390.	3727.4	3957.5	9307.6
#2	102950.	3731.7	3950.8	9276.2
#3	103430.	3734.5	3961.3	9302.4

Sample Name: caconf Acquired: 12/6/2018 18:52:29 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**-.0001**	**-.0002**	**.0003**	**.0010**	**.0004**	**.0002**	**.0008**
Stddev	.0002	.0001	.0001	.0000	.0001	.0001	.0000	.0002	.0000
%RSD	116.1	856.7	264.3	6.600	45.30	10.27	3.197	132.8	1.855
#1	.0001	-.0000	.0001	-.0002	.0005	.0009	.0004	.0000	.0008
#2	.0004	-.0000	-.0002	-.0002	.0002	.0011	.0004	.0000	.0008
#3	.0000	.0001	-.0001	-.0002	.0003	.0010	.0004	.0004	.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0007**	**.0001**	**.0022**	**-.0002**	**.0003**	**-.0001**	**-.0215**	F **418.2**
Stddev	.0001	.0001	.0003	.0009	.0012	.0006	.0010	.0115	1.0
%RSD	1064.	8.523	310.5	38.54	575.8	224.6	806.6	53.48	.2303
#1	.0001	-.0007	-.0003	.0013	-.0002	.0004	.0009	-.0148	417.8
#2	-.0001	-.0007	.0002	.0024	.0010	.0008	-.0002	-.0347	417.6
#3	.0000	-.0006	.0004	.0030	-.0014	-.0004	-.0011	-.0149	419.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0036**	**-.0354**	**-.0010**	**.0242**	**.0012**	**.0008**	**.0012**	**-.0017**	**-.0067**
Stddev	.0017	.0328	.0097	.0088	.0005	.0001	.0010	.0011	.0002
%RSD	46.71	92.51	973.3	36.19	43.75	17.83	78.71	62.30	2.774
#1	-.0040	-.0445	-.0005	.0201	.0012	.0010	.0006	-.0012	-.0068
#2	-.0017	.0009	.0084	.0182	.0006	.0007	.0023	-.0010	-.0065
#3	-.0050	-.0627	-.0109	.0342	.0016	.0008	.0008	-.0030	-.0067

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036**	**.0020**	**.0003**	**-.0219**	**-.0008**	**-.0006**	**.0070**
Stddev	.0001	.0014	.0001	.0020	.0008	.0002	.0004
%RSD	3.403	70.50	17.53	9.339	94.09	34.70	5.636
#1	.0036	.0014	.0003	-.0207	-.0001	-.0008	.0075
#2	.0035	.0036	.0003	-.0242	-.0016	-.0004	.0068
#3	.0038	.0010	.0004	-.0207	-.0008	-.0007	.0067

Sample Name: caconf Acquired: 12/6/2018 18:52:29 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100040.**	**4014.0**	**3887.4**	**8972.9**
Stddev	249.	8.7	1.4	9.2
%RSD	.24914	.21774	.03545	.10297
#1	99980.	4019.7	3887.7	8982.8
#2	100320.	4018.2	3885.8	8971.3
#3	99829.	4003.9	3888.5	8964.5

Sample Name: ccv Acquired: 12/6/2018 18:58:02 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.073**	**2.036**	**1.968**	**1.999**	**2.060**	**2.022**	**2.076**	**2.007**	**.2513**
Stddev	.007	.007	.001	.002	.009	.012	.002	.001	.0017
%RSD	.3267	.3293	.0620	.0948	.4587	.5854	.0981	.0438	.6849
#1	2.079	2.040	1.969	1.998	2.059	2.026	2.076	2.008	.2517
#2	2.075	2.040	1.968	1.997	2.070	2.032	2.078	2.006	.2527
#3	2.066	2.028	1.967	2.001	2.052	2.009	2.074	2.008	.2494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.040**	**1.965**	**1.936**	**2.046**	**2.015**	**1.899**	**1.992**	**40.89**	**39.93**
Stddev	.009	.002	.005	.004	.002	.005	.002	.13	.11
%RSD	.4674	.0790	.2752	.1954	.0802	.2711	.1016	.3290	.2856
#1	2.040	1.964	1.940	2.045	2.014	1.895	1.994	40.97	40.04
#2	2.050	1.963	1.930	2.050	2.017	1.897	1.992	40.98	39.95
#3	2.031	1.967	1.938	2.042	2.014	1.905	1.990	40.74	39.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.67**	**38.53**	**41.87**	**41.96**	**1.940**	**2.039**	**5.073**	**2.016**	**2.069**
Stddev	.06	.13	.10	.13	.004	.002	.007	.001	.005
%RSD	.1531	.3315	.2421	.3202	.2224	.0757	.1340	.0447	.2578
#1	38.68	38.52	41.97	42.03	1.945	2.041	5.081	2.017	2.072
#2	38.73	38.66	41.88	42.05	1.938	2.039	5.072	2.016	2.072
#3	38.61	38.41	41.77	41.81	1.937	2.038	5.067	2.015	2.063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 18:58:02 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.061**	**1.999**	**2.070**	**1.879**	**1.976**	**2.166**	**1.910**
Stddev	.011	.003	.010	.004	.003	.009	.001
%RSD	.5167	.1452	.4956	.1855	.1481	.4180	.0349
#1	2.061	2.001	2.069	1.875	1.978	2.172	1.911
#2	2.072	1.996	2.081	1.879	1.976	2.170	1.910
#3	2.050	2.001	2.060	1.882	1.973	2.156	1.911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103910.**	**4147.8**	**4307.0**	**10063.**
Stddev	406.	9.5	2.0	4.
%RSD	.39037	.22922	.04653	.04307
#1	104020.	4138.9	4307.6	10067.
#2	103460.	4146.7	4304.8	10059.
#3	104250.	4157.9	4308.6	10065.

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 19:03:15 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0000**	**.0002**	**.0004**	**-.0001**	**-.0004**	**.0000**	**.0004**	**-.0000**
Stddev	.0003	.0000	.0002	.0001	.0002	.0002	.0000	.0002	.0001
%RSD	163.2	42.53	118.2	23.49	291.0	41.34	71.40	52.08	279.2
#1	-.0003	-.0000	-.0000	.0003	.0002	-.0005	.0000	.0004	-.0001
#2	.0001	-.0001	.0003	.0004	-.0002	-.0005	.0000	.0006	-.0001
#3	-.0003	-.0000	.0002	.0004	-.0002	-.0002	.0001	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0002**	**.0014**	**.0003**	**.0002**	**.0004**	**-.0003**	**-.0053**	**.0006**
Stddev	.0001	.0001	.0012	.0020	.0001	.0014	.0002	.0034	.0026
%RSD	55.46	43.16	83.97	568.9	89.35	390.6	69.42	65.18	448.2
#1	.0002	.0003	.0028	.0025	.0003	-.0006	-.0002	-.0014	.0011
#2	.0002	.0001	.0005	.0000	.0000	.0020	-.0005	-.0065	.0029
#3	.0001	.0002	.0009	-.0014	.0001	-.0003	-.0001	-.0079	-.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0229**	**.0472**	**.0231**	**.0021**	F **.0038**	**.0008**	**.0003**	**.0002**
Stddev	.0047	.0247	.0079	.0016	.0005	.0004	.0005	.0004	.0001
%RSD	474.7	107.9	16.81	7.126	22.92	9.395	58.97	168.3	79.30
#1	.0012	.0071	.0386	.0214	.0020	.0040	.0011	.0004	.0001
#2	.0056	.0514	.0486	.0231	.0027	.0040	.0003	-.0002	.0000
#3	-.0038	.0102	.0543	.0247	.0017	.0034	.0010	.0006	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 19:03:15 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0021**	**.0002**	**-.0005**	**.0003**	**-.0004**	**.0016**
Stddev	.0002	.0021	.0001	.0012	.0015	.0007	.0005
%RSD	86.48	97.96	40.04	214.8	548.8	180.9	31.96
#1	.0000	.0045	.0002	-.0013	.0011	-.0006	.0014
#2	.0003	.0007	.0001	-.0011	.0012	-.0009	.0022
#3	.0005	.0011	.0001	.0008	-.0015	.0004	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108140.**	**4315.6**	**4236.0**	**9830.2**
Stddev	403.	9.5	9.3	7.9
%RSD	.37299	.21942	.21930	.08006
#1	108200.	4305.1	4226.1	9823.6
#2	108510.	4318.2	4237.5	9828.2
#3	107710.	4323.4	4244.5	9838.9

Zoom In Zoom Out

Sample Name: mp11033-mb2 Acquired: 12/6/2018 19:08:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047**	**-.0000**	**.0015**	**.0014**	**.0010**	**.0178**	**.0035**	**.0080**	**.0007**
Stddev	.0014	.0005	.0003	.0007	.0008	.0002	.0002	.0011	.0001
%RSD	30.45	1517.	23.01	50.57	79.61	1.151	4.768	13.44	10.74
#1	.0063	-.0005	.0014	.0016	.0004	.0177	.0035	.0077	.0006
#2	.0036	-.0001	.0019	.0006	.0007	.0181	.0034	.0071	.0007
#3	.0041	.0004	.0012	.0020	.0019	.0177	.0037	.0092	.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0178**	**.0036**	**-.0069**	**.0044**	**-.0018**	**-.0022**	**.0236**	**.6956**
Stddev	.0006	.0006	.0017	.0033	.0047	.0008	.0086	.0323	.0136
%RSD	74.39	3.471	47.96	48.63	107.2	43.36	398.8	136.8	1.961
#1	.0016	.0183	.0016	-.0076	.0070	-.0021	-.0119	.0568	.6846
#2	.0004	.0180	.0045	-.0097	-.0010	-.0023	.0045	-.0077	.7109
#3	.0006	.0171	.0047	-.0032	.0073	-.0009	.0009	.0216	.6913

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1632**	**.1095**	**11.89**	F **1582.**	**.0177**	**.0064**	**2.650**	**.0040**	**.0068**
Stddev	.0313	.2021	.10	18.	.0025	.0003	.006	.0002	.0011
%RSD	19.18	184.4	.7994	1.147	14.40	4.482	.2243	6.217	15.51
#1	.1325	.3015	11.80	1603.	.0158	.0061	2.657	.0041	.0069
#2	.1622	.1283	11.88	1573.	.0206	.0067	2.645	.0041	.0077
#3	.1950	-.1012	11.99	1570.	.0167	.0066	2.649	.0037	.0057

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0078**	**.0006**	**.1373**	**-.0022**	**.0144**	**1.114**
Stddev	.0009	.0036	.0004	.0069	.0030	.0045	.002
%RSD	58.13	45.84	72.09	5.033	137.4	31.22	.1878
#1	.0022	.0115	.0005	.1449	.0010	.0097	1.117
#2	.0017	.0075	.0002	.1359	-.0049	.0147	1.113
#3	.0005	.0044	.0010	.1312	-.0026	.0187	1.113

Zoom In Zoom Out

Sample Name: mp11033-mb2 Acquired: 12/6/2018 19:08:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102130.**	**4265.5**	**4020.3**	**9168.1**
Stddev	895.	20.6	5.9	2.1
%RSD	.87676	.48182	.14739	.02285
#1	101220.	4243.8	4013.7	9167.6
#2	102150.	4268.3	4022.2	9170.4
#3	103010.	4284.6	4025.0	9166.3

Zoom In Zoom Out

Sample Name: mp11033-b2 Acquired: 12/6/2018 19:14:27 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.029**	**2.041**	**2.059**	**2.056**	**2.043**	**2.030**	**2.098**	**2.103**	**.2557**
Stddev	.004	.008	.003	.004	.004	.004	.004	.001	.0016
%RSD	.2039	.3834	.1527	.1840	.1888	.1943	.2156	.0672	.6221
#1	2.032	2.043	2.058	2.059	2.043	2.026	2.102	2.104	.2544
#2	2.029	2.032	2.063	2.056	2.046	2.034	2.097	2.101	.2575
#3	2.024	2.048	2.057	2.052	2.039	2.030	2.093	2.102	.2551

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.026**	**2.108**	**2.068**	**2.056**	**2.090**	**2.108**	**2.046**	**25.40**	**26.42**
Stddev	.001	.004	.006	.017	.006	.010	.006	.05	.10
%RSD	.0332	.1725	.2973	.8192	.2867	.4661	.2861	.1860	.3765
#1	2.027	2.110	2.072	2.053	2.091	2.105	2.050	25.46	26.42
#2	2.026	2.109	2.071	2.074	2.095	2.119	2.040	25.37	26.32
#3	2.025	2.104	2.061	2.041	2.083	2.100	2.049	25.38	26.52

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.36**	**23.47**	**38.67**	F **1606.**	**2.075**	**2.060**	**2.750**	**2.041**	**2.040**
Stddev	.08	.17	.10	11.	.003	.003	.009	.005	.007
%RSD	.3223	.7105	.2467	.7052	.1571	.1192	.3202	.2266	.3284
#1	24.38	23.36	38.72	1595.	2.073	2.059	2.740	2.038	2.045
#2	24.28	23.39	38.56	1606.	2.079	2.062	2.752	2.046	2.032
#3	24.43	23.66	38.74	1617.	2.073	2.057	2.757	2.038	2.042

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.029**	**2.013**	**1.979**	**-.0703**	**-.0133**	**.0263**	**3.224**
Stddev	.001	.007	.006	.0039	.0032	.0013	.018
%RSD	.0635	.3360	.3120	5.594	23.99	4.889	.5477
#1	2.028	2.014	1.972	-.0664	-.0101	.0253	3.208
#2	2.029	2.018	1.981	-.0703	-.0134	.0278	3.243
#3	2.031	2.005	1.984	-.0743	-.0165	.0258	3.220

Zoom In Zoom Out

Sample Name: mp11033-b2 Acquired: 12/6/2018 19:14:27 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102180.**	**4083.3**	**3985.3**	**9133.8**
Stddev	276.	17.7	4.6	1.9
%RSD	.27018	.43410	.11419	.02111
#1	101930.	4083.7	3988.1	9135.1
#2	102140.	4100.8	3980.0	9134.7
#3	102480.	4065.3	3987.7	9131.6

Zoom In Zoom Out

Sample Name: jc78841-3 Acquired: 12/6/2018 19:19:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3027**	**-.0004**	**.0033**	**.0234**	**.0020**	**.0085**	**5.610**	**.0242**
Stddev	.0024	.0005	.0008	.0013	.0006	.0002	.041	.0029
%RSD	.7888	141.0	24.32	5.648	32.18	2.770	.7301	11.94
#1	.3050	-.0007	.0039	.0232	.0015	.0088	5.620	.0227
#2	.3029	.0002	.0036	.0249	.0027	.0083	5.645	.0223
#3	.3002	-.0006	.0024	.0222	.0017	.0085	5.565	.0275

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**.0016**	**.0239**	**-.0031**	F **-.0111**	**.0038**	**-.0016**	**.0012**
Stddev	.0016	.0004	.0010	.0020	.0060	.0006	.0086	.0013
%RSD	52.15	22.84	4.242	66.08	54.21	16.45	537.1	104.8
#1	.0046	.0019	.0233	-.0012	-.0145	.0037	-.0025	.0004
#2	.0014	.0018	.0251	-.0028	-.0146	.0032	-.0098	.0006
#3	.0033	.0012	.0234	-.0052	-.0041	.0044	.0074	.0027

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0618**	**532.5**	**.0040**	**110.0**	**15.80**	F **1523.**	**.0231**	**.0077**
Stddev	.0231	1.7	.0260	.8	.27	7.	.0024	.0007
%RSD	37.41	.3104	646.3	.6994	1.707	.4340	10.20	9.537
#1	.0673	531.8	-.0077	109.2	15.53	1531.	.0205	.0086
#2	.0817	531.4	.0338	110.1	15.80	1520.	.0251	.0075
#3	.0364	534.4	-.0141	110.7	16.07	1519.	.0236	.0072

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.354**	**-.0013**	**.5232**	**.0080**	**.0086**	**.0026**	**7.183**	**-.0021**
Stddev	.076	.0023	.0026	.0007	.0045	.0001	.214	.0026
%RSD	3.227	172.5	.4897	9.105	52.90	4.263	2.983	125.6
#1	2.312	-.0024	.5204	.0083	.0105	.0026	7.031	-.0030
#2	2.442	.0013	.5240	.0085	.0034	.0026	7.428	-.0042
#3	2.309	-.0029	.5253	.0072	.0119	.0028	7.091	.0009

Zoom In Zoom Out

Sample Name: jc78841-3 Acquired: 12/6/2018 19:19:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0366**	**.0245**
Stddev	.0079	.0042
%RSD	21.67	17.16
#1	.0336	.0197
#2	.0307	.0277
#3	.0456	.0260

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100480.**	**4126.9**	**3867.9**	**8857.3**
Stddev	608.	25.6	97.6	224.3
%RSD	.60477	.62022	2.5221	2.5324
#1	100340.	4143.6	3917.7	8982.4
#2	99947.	4139.7	3755.5	8598.3
#3	101140.	4097.5	3930.6	8991.1

Zoom In Zoom Out

Sample Name: jc78916-1a Acquired: 12/6/2018 19:25:14 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6126**	**.0004**	**.0193**	**.0008**	**.0051**	**.0411**	**2.827**	**.0124**	**.0021**
Stddev	.0039	.0002	.0003	.0010	.0017	.0009	.018	.0011	.0011
%RSD	.6436	46.75	1.314	123.3	33.77	2.241	.6415	9.287	53.09
#1	.6145	.0004	.0193	.0013	.0049	.0415	2.844	.0116	.0012
#2	.6153	.0005	.0195	-.0003	.0068	.0418	2.828	.0118	.0018
#3	.6081	.0002	.0190	.0015	.0034	.0401	2.808	.0137	.0034

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0061**	**.7920**	**.0080**	**.0002**	**.1468**	**.0029**	**-.0003**	**.0143**	**742.6**
Stddev	.0010	.0032	.0038	.0106	.0047	.0072	.0047	.0232	1.9
%RSD	15.91	.4103	48.09	5195.	3.189	251.6	1453.	162.2	.2526
#1	.0066	.7953	.0036	-.0085	.1507	-.0052	.0048	.0120	744.8
#2	.0068	.7888	.0109	.0120	.1416	.0051	-.0015	-.0077	741.5
#3	.0050	.7919	.0094	-.0029	.1481	.0087	-.0043	.0385	741.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0120**	**13.33**	**4.837**	F **1509.**	**.0281**	**.0039**	**4.894**	**-.0042**	**1.611**
Stddev	.0084	.08	.103	10.	.0020	.0010	.026	.0059	.007
%RSD	69.77	.6157	2.129	.6884	7.139	26.67	.5249	139.1	.4254
#1	.0179	13.38	4.930	1517.	.0282	.0027	4.921	-.0087	1.617
#2	.0158	13.39	4.726	1498.	.0261	.0047	4.870	-.0065	1.612
#3	.0024	13.24	4.854	1513.	.0301	.0042	4.892	.0025	1.603

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106**	**.0030**	**.0028**	**5.201**	**.0010**	**.0288**	**.4318**
Stddev	.0026	.0019	.0004	.028	.0059	.0023	.0023
%RSD	24.81	61.29	14.49	.5331	593.6	7.896	.5416
#1	.0084	.0033	.0027	5.209	-.0033	.0263	.4332
#2	.0100	.0047	.0024	5.170	-.0014	.0292	.4291
#3	.0135	.0011	.0032	5.223	.0077	.0308	.4332

Zoom In Zoom Out

Sample Name: jc78916-1a Acquired: 12/6/2018 19:25:14 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100940.**	**4164.4**	**4258.2**	**9797.5**
Stddev	515.	6.2	14.1	33.5
%RSD	.50973	.14970	.33013	.34163
#1	100510.	4171.0	4243.6	9762.2
#2	100790.	4163.8	4271.7	9828.8
#3	101510.	4158.5	4259.4	9801.4

Zoom In Zoom Out

Sample Name: jc78965-1 Acquired: 12/6/2018 19:30:43 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0174**	**.0001**	**.0008**	**.0034**	**.0134**	**.0950**	**.2183**	**.0353**	**.0015**
Stddev	.0021	.0002	.0007	.0003	.0005	.0018	.0016	.0022	.0012
%RSD	11.79	140.5	94.57	9.015	3.897	1.843	.7245	6.330	81.01
#1	.0165	.0002	.0011	.0034	.0130	.0966	.2200	.0327	.0003
#2	.0198	-.0001	.0013	.0038	.0132	.0931	.2170	.0369	.0028
#3	.0161	.0002	-.0001	.0032	.0140	.0953	.2179	.0362	.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0853**	**.0024**	**-.0011**	**.0051**	**-.0011**	**.0042**	**.8641**	**6.974**
Stddev	.0007	.0004	.0021	.0052	.0052	.0047	.0082	.0525	.158
%RSD	69.46	.5204	89.26	452.8	102.4	424.0	195.9	6.080	2.272
#1	.0019	.0858	.0048	.0025	.0024	-.0037	.0045	.9033	7.132
#2	.0005	.0854	.0015	-.0071	.0111	-.0039	-.0042	.8044	6.975
#3	.0008	.0849	.0009	.0012	.0017	.0043	.0122	.8845	6.815

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.73**	**.3468**	**5.821**	F **1575.**	**.0114**	**.0033**	**2.433**	**.0002**	**.0199**
Stddev	.34	.0832	.165	30.	.0027	.0015	.003	.0017	.0013
%RSD	2.647	24.00	2.841	1.888	23.47	46.65	.1348	829.7	6.448
#1	13.07	.4043	5.861	1603.	.0113	.0050	2.433	.0006	.0211
#2	12.73	.2514	5.962	1579.	.0141	.0028	2.437	.0016	.0201
#3	12.39	.3848	5.639	1544.	.0087	.0021	2.430	-.0016	.0186

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051**	**.0049**	**.0025**	**.2823**	**-.0009**	**.0169**	**.3030**
Stddev	.0008	.0022	.0002	.0060	.0026	.0028	.0022
%RSD	15.97	43.91	8.494	2.142	280.4	16.40	.7289
#1	.0050	.0073	.0027	.2886	-.0032	.0161	.3055
#2	.0060	.0030	.0023	.2819	-.0015	.0200	.3014
#3	.0044	.0045	.0025	.2765	.0019	.0147	.3020

Zoom In Zoom Out

Sample Name: jc78965-1 Acquired: 12/6/2018 19:30:43 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102290.**	**4292.3**	**4318.3**	**9914.9**
Stddev	431.	15.3	5.2	16.7
%RSD	.42133	.35607	.12109	.16846
#1	101820.	4305.5	4323.1	9915.8
#2	102670.	4295.8	4319.0	9931.2
#3	102370.	4275.5	4312.7	9897.8

Zoom In Zoom Out

Sample Name: jc78966-1 Acquired: 12/6/2018 19:36:17 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6876**	**.0006**	**.0015**	**.0092**	**.0061**	**.0285**	**1.254**	**.0246**
Stddev	.0012	.0004	.0003	.0008	.0006	.0002	.002	.0025
%RSD	.1794	64.66	21.05	8.430	10.51	.7138	.1248	10.03
#1	.6890	.0010	.0017	.0083	.0066	.0283	1.255	.0238
#2	.6866	.0004	.0015	.0096	.0064	.0287	1.254	.0274
#3	.6872	.0003	.0011	.0098	.0054	.0286	1.252	.0227

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0038**	**.6738**	**.0015**	F **-.0112**	**.2152**	**-.0017**	**.0022**
Stddev	.0008	.0009	.0005	.0029	.0065	.0002	.0073	.0013
%RSD	62.25	23.15	.0681	191.6	58.51	.0727	426.3	60.60
#1	.0008	.0039	.6733	-.0017	-.0118	.2152	.0066	.0016
#2	.0022	.0047	.6740	.0024	-.0044	.2153	-.0066	.0037
#3	.0009	.0029	.6742	.0038	-.0174	.2150	-.0052	.0013

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4638**	**567.7**	**.1983**	**15.96**	**9.102**	F **1444.**	**.0451**	**.0053**
Stddev	.0334	.4	.0075	.05	.108	30.	.0030	.0004
%RSD	7.198	.0735	3.786	.2869	1.190	2.048	6.573	8.025
#1	.4388	567.3	.1929	15.97	9.101	1412.	.0480	.0056
#2	.5017	567.8	.1952	16.00	8.995	1452.	.0452	.0048
#3	.4509	568.1	.2069	15.91	9.212	1469.	.0421	.0054

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.32**	**-.0079**	**1.774**	**.0090**	**.0167**	**.0020**	**7.893**	**.0005**
Stddev	.06	.0012	.004	.0009	.0034	.0007	.021	.0047
%RSD	.3305	14.69	.2334	10.04	20.07	36.95	.2617	1003.
#1	19.37	-.0066	1.773	.0092	.0134	.0026	7.900	.0044
#2	19.25	-.0083	1.778	.0080	.0166	.0023	7.870	-.0047
#3	19.35	-.0089	1.770	.0097	.0202	.0012	7.910	.0017

Zoom In Zoom Out

Sample Name: jc78966-1 Acquired: 12/6/2018 19:36:17 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0224**	**.0288**
Stddev	.0031	.0057
%RSD	13.65	19.75
#1	.0239	.0310
#2	.0189	.0223
#3	.0245	.0330

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101750.**	**4213.2**	**3933.8**	**9012.8**
Stddev	219.	3.0	14.7	12.5
%RSD	.21520	.07225	.37264	.13866
#1	101620.	4212.6	3926.7	9005.9
#2	101620.	4216.4	3950.6	9027.2
#3	102000.	4210.4	3924.0	9005.2

Zoom In Zoom Out

Sample Name: mp11032-mb2 Acquired: 12/6/2018 19:41:47 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0000**	**-.0004**	**.0005**	**-.0002**	**-.0025**	**.0005**	**.0011**	**-.0006**
Stddev	.0013	.0000	.0003	.0008	.0007	.0018	.0000	.0008	.0009
%RSD	377.0	29.55	87.15	168.1	368.3	74.15	6.266	68.29	160.3
#1	.0011	-.0000	-.0003	.0015	-.0009	-.0006	.0005	.0012	-.0004
#2	.0010	-.0000	-.0001	.0002	.0006	-.0026	.0005	.0003	-.0015
#3	-.0011	-.0001	-.0008	-.0001	-.0003	-.0043	.0006	.0019	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0048**	**.0000**	**.0016**	**.0057**	**-.0009**	**-.0013**	**-.0142**	**.0306**
Stddev	.0004	.0008	.0010	.0055	.0030	.0151	.0031	.0246	.0062
%RSD	982.3	17.32	4216.	344.9	52.58	1736.	242.3	172.3	20.33
#1	.0005	.0057	.0007	.0032	.0060	.0165	-.0042	-.0413	.0371
#2	-.0001	.0041	-.0011	-.0045	.0025	-.0106	-.0016	.0066	.0301
#3	-.0003	.0046	.0005	.0062	.0084	-.0086	.0019	-.0080	.0247

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0125**	**-.1372**	**.1938**	**1.027**	**.0028**	**.0012**	**.1567**	**-.0012**	**.0004**
Stddev	.0317	.1229	.0819	.052	.0038	.0001	.0041	.0026	.0006
%RSD	254.2	89.60	42.26	5.071	134.4	10.15	2.605	221.5	181.8
#1	.0471	-.0831	.1549	1.068	-.0006	.0013	.1614	.0017	-.0004
#2	.0056	-.2778	.2879	.9682	.0022	.0012	.1537	-.0033	.0007
#3	-.0153	-.0506	.1386	1.045	.0068	.0011	.1552	-.0019	.0008

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0025**	**.0007**	**.0196**	**.0009**	**.0022**	**.0070**
Stddev	.0005	.0024	.0002	.0046	.0037	.0041	.0020
%RSD	2532.	96.46	23.24	23.22	401.4	186.5	29.09
#1	-.0005	.0047	.0009	.0182	.0032	.0017	.0064
#2	.0005	-.0001	.0008	.0247	.0030	-.0016	.0054
#3	-.0001	.0030	.0005	.0159	-.0034	.0065	.0093

Zoom In Zoom Out

Sample Name: mp11032-mb2 Acquired: 12/6/2018 19:41:47 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108020.**	**4109.9**	**4060.3**	**9390.0**
Stddev	775.	13.8	1.6	13.7
%RSD	.71703	.33664	.04040	.14606
#1	107260.	4118.0	4058.4	9400.6
#2	108810.	4093.9	4061.1	9394.9
#3	107980.	4117.7	4061.3	9374.5

Zoom In Zoom Out

Sample Name: mp11032-b2 Acquired: 12/6/2018 19:47:16 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.964**	**1.952**	**1.928**	**1.955**	**1.981**	**1.882**	**2.020**	**1.993**	**.2374**
Stddev	.004	.004	.046	.046	.012	.011	.009	.047	.0016
%RSD	.2237	.1958	2.386	2.332	.6010	.6039	.4658	2.348	.6664
#1	1.959	1.950	1.906	1.929	1.994	1.894	2.031	1.966	.2371
#2	1.963	1.949	1.897	1.928	1.977	1.881	2.019	1.966	.2390
#3	1.968	1.956	1.981	2.008	1.972	1.871	2.012	2.047	.2359

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.935**	**2.052**	**1.906**	**1.958**	**1.972**	**1.887**	**1.937**	**24.33**	**24.06**
Stddev	.009	.044	.051	.037	.040	.040	.039	.10	.06
%RSD	.4538	2.133	2.695	1.889	2.005	2.132	2.029	.4070	.2636
#1	1.945	2.029	1.873	1.933	1.955	1.869	1.938	24.30	24.08
#2	1.933	2.024	1.880	1.941	1.943	1.859	1.897	24.24	23.99
#3	1.928	2.103	1.966	2.001	2.017	1.934	1.975	24.43	24.11

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.16**	**22.49**	**24.60**	**25.15**	**1.926**	**1.996**	**.2014**	**1.967**	**1.955**
Stddev	.11	.17	.13	.09	.037	.036	.0043	.040	.005
%RSD	.4570	.7528	.5227	.3392	1.927	1.807	2.141	2.031	.2575
#1	23.04	22.63	24.58	25.07	1.916	1.985	.2046	1.944	1.950
#2	23.18	22.30	24.49	25.15	1.894	1.967	.1965	1.943	1.954
#3	23.25	22.53	24.74	25.24	1.967	2.037	.2031	2.013	1.960

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.952**	**1.911**	**1.913**	**-.1829**	**-.0099**	**.0001**	**2.042**
Stddev	.012	.044	.005	.0111	.0067	.0068	.044
%RSD	.6144	2.306	.2430	6.051	67.58	6336.	2.175
#1	1.965	1.888	1.918	-.1800	-.0175	.0042	2.019
#2	1.948	1.883	1.911	-.1735	-.0068	-.0077	2.013
#3	1.942	1.962	1.909	-.1951	-.0053	.0038	2.093

Zoom In Zoom Out

Sample Name: mp11032-b2 Acquired: 12/6/2018 19:47:16 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106510.**	**4130.0**	**4161.8**	**9702.7**
Stddev	317.	9.9	85.1	195.5
%RSD	.29723	.24001	2.0441	2.0148
#1	106190.	4132.3	4201.5	9809.2
#2	106520.	4138.6	4219.7	9821.8
#3	106820.	4119.2	4064.1	9477.1

Zoom In Zoom Out

Sample Name: jc77913-4a Acquired: 12/6/2018 19:52:24 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**-.0003**	**.0013**	**-.0002**	**.0012**	**2.442**	**.0243**	**.0036**	**.0002**
Stddev	.0013	.0002	.0006	.0012	.0006	.013	.0001	.0013	.0006
%RSD	68.01	71.51	44.78	700.7	53.77	.5407	.5182	35.70	332.5
#1	.0024	-.0003	.0016	.0002	.0015	2.456	.0244	.0047	-.0002
#2	.0004	-.0001	.0006	-.0015	.0004	2.430	.0244	.0022	.0009
#3	.0029	-.0006	.0015	.0008	.0016	2.440	.0242	.0038	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0681**	**-.0014**	**.0027**	**.0034**	**.0075**	**-.0009**	**.1473**	**.3060**
Stddev	.0004	.0007	.0054	.0021	.0060	.0061	.0068	.0320	.0406
%RSD	85.34	1.072	382.4	77.59	176.2	80.96	773.0	21.69	13.28
#1	.0000	.0689	-.0023	.0045	.0066	.0124	-.0083	.1547	.2595
#2	.0006	.0675	.0044	.0004	.0071	.0007	.0008	.1750	.3239
#3	.0006	.0680	-.0063	.0034	-.0035	.0095	.0049	.1123	.3346

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1103**	**.0457**	**.1034**	**2.718**	**.0441**	**.0053**	**.1367**	**-.0012**	**.0021**
Stddev	.0213	.0992	.0849	.024	.0004	.0005	.0049	.0023	.0007
%RSD	19.27	217.1	82.09	.8732	1.001	10.09	3.554	195.2	31.77
#1	.0866	.1302	.0832	2.745	.0445	.0047	.1312	-.0035	.0015
#2	.1276	-.0635	.1966	2.711	.0442	.0057	.1385	-.0011	.0020
#3	.1167	.0704	.0305	2.699	.0436	.0055	.1404	.0011	.0028

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0030**	**.0030**	**2.410**	**-.0042**	**-.0022**	**.0065**
Stddev	.0001	.0059	.0005	.020	.0057	.0014	.0016
%RSD	18.23	199.9	16.07	.8211	135.8	63.38	24.65
#1	-.0003	.0078	.0035	2.390	-.0106	-.0006	.0046
#2	-.0004	.0048	.0027	2.429	.0004	-.0029	.0073
#3	-.0004	-.0037	.0027	2.410	-.0025	-.0031	.0075

Zoom In Zoom Out

Sample Name: jc77913-4a Acquired: 12/6/2018 19:52:24 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107630.**	**4055.2**	**4049.3**	**9362.0**
Stddev	286.	10.6	6.5	5.7
%RSD	.26573	.26091	.16074	.06104
#1	107380.	4056.1	4046.0	9355.4
#2	107940.	4044.3	4045.1	9365.7
#3	107570.	4065.4	4056.8	9364.8

Zoom In Zoom Out

Sample Name: jc77913-8a Acquired: 12/6/2018 19:57:53 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.455**	**.0002**	**.0061**	**.0031**	**.0048**	**.0945**	**.5702**	**.0148**	**.0008**
Stddev	.003	.0003	.0006	.0012	.0003	.0007	.0016	.0018	.0004
%RSD	.0461	143.6	9.733	37.79	5.749	.7844	.2762	12.39	43.22
#1	6.454	-.0001	.0061	.0042	.0051	.0954	.5701	.0147	.0005
#2	6.454	.0003	.0067	.0033	.0046	.0941	.5719	.0167	.0012
#3	6.459	.0004	.0055	.0018	.0047	.0941	.5687	.0131	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**27.26**	**.0007**	**.0087**	**-.0040**	**.0072**	**.0055**	**.0237**	**99.39**
Stddev	.0005	.04	.0017	.0003	.0019	.0063	.0012	.0884	.24
%RSD	532.2	.1607	236.6	2.931	46.62	87.58	22.15	372.3	.2402
#1	.0006	27.31	.0027	.0087	-.0048	.0109	.0053	-.0379	99.52
#2	-.0004	27.22	-.0007	.0090	-.0055	-.0001	.0044	-.0159	99.54
#3	.0001	27.26	.0002	.0085	-.0019	.0107	.0068	.1250	99.12

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0499**	**4.600**	**60.12**	**57.49**	**1.727**	**.0592**	**8.155**	**-.0020**	**.2514**
Stddev	.0306	.071	.22	.10	.004	.0007	.012	.0029	.0044
%RSD	61.27	1.554	.3696	.1652	.2233	1.229	.1409	140.6	1.733
#1	.0349	4.677	59.99	57.38	1.723	.0600	8.142	.0002	.2464
#2	.0296	4.589	60.38	57.51	1.727	.0585	8.158	-.0052	.2542
#3	.0850	4.535	59.99	57.57	1.731	.0590	8.164	-.0010	.2536

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**-.0081**	**.0480**	**11.18**	**-.0037**	**.0461**	**37.10**
Stddev	.0005	.0033	.0026	.02	.0009	.0012	.05
%RSD	15.40	40.83	5.501	.2122	23.51	2.699	.1248
#1	.0027	-.0097	.0508	11.15	-.0027	.0475	37.06
#2	.0037	-.0043	.0478	11.20	-.0044	.0457	37.10
#3	.0031	-.0103	.0455	11.18	-.0041	.0451	37.15

Zoom In Zoom Out

Sample Name: jc77913-8a Acquired: 12/6/2018 19:57:53 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106480.**	**4120.9**	**4377.1**	**10255.**
Stddev	349.	7.7	3.9	3.
%RSD	.32772	.18679	.08903	.02991
#1	106520.	4122.6	4380.7	10256.
#2	106110.	4112.5	4377.6	10257.
#3	106810.	4127.6	4373.0	10251.

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 20:03:15 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.104**	**2.001**	**1.975**	**1.996**	**2.040**	**2.030**	**2.067**	**1.998**	**.2501**
Stddev	.008	.008	.003	.002	.013	.006	.010	.002	.0011
%RSD	.3658	.3928	.1265	.0800	.6179	.2791	.4996	.1217	.4536
#1	2.097	1.992	1.978	1.996	2.026	2.034	2.062	1.997	.2490
#2	2.102	2.002	1.973	1.995	2.044	2.023	2.079	1.996	.2499
#3	2.112	2.007	1.974	1.998	2.050	2.031	2.061	2.001	.2513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.025**	**1.944**	**1.950**	**2.042**	**2.001**	**1.913**	**2.006**	**40.74**	**39.28**
Stddev	.006	.003	.004	.005	.003	.004	.006	.17	.15
%RSD	.3149	.1765	.1903	.2592	.1364	.2208	.3055	.4121	.3794
#1	2.019	1.945	1.947	2.037	1.999	1.914	2.012	40.55	39.12
#2	2.026	1.948	1.949	2.043	2.004	1.908	2.007	40.81	39.40
#3	2.031	1.941	1.954	2.047	1.999	1.917	2.000	40.86	39.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.07**	**37.28**	**42.22**	**41.96**	**1.957**	**2.040**	**5.125**	**2.002**	**2.088**
Stddev	.08	.15	.15	.15	.006	.002	.005	.002	.008
%RSD	.2197	.4041	.3594	.3523	.3012	.1181	.1013	.0967	.3734
#1	37.97	37.15	42.05	41.81	1.964	2.043	5.129	2.004	2.081
#2	38.11	37.44	42.26	41.96	1.954	2.038	5.120	2.001	2.088
#3	38.12	37.24	42.34	42.10	1.954	2.039	5.127	2.000	2.096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 20:03:15 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.050**	**2.003**	**2.090**	**1.891**	**1.997**	**2.178**	**1.931**
Stddev	.006	.005	.004	.008	.003	.009	.007
%RSD	.3027	.2317	.1782	.4035	.1661	.4098	.3557
#1	2.045	2.006	2.089	1.892	1.999	2.172	1.938
#2	2.050	1.997	2.086	1.898	1.994	2.174	1.930
#3	2.057	2.004	2.093	1.883	2.000	2.188	1.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104390.**	**4249.6**	**4279.9**	**10017.**
Stddev	173.	13.3	7.4	13.
%RSD	.16599	.31211	.17176	.12794
#1	104570.	4264.8	4271.4	10006.
#2	104370.	4243.1	4284.9	10031.
#3	104220.	4240.8	4283.3	10014.

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 20:08:28 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0000**	**.0002**	**.0002**	**-.0001**	**-.0002**	**.0000**	**.0002**	**.0002**
Stddev	.0003	.0001	.0003	.0002	.0002	.0002	.0000	.0001	.0001
%RSD	161.3	296.9	198.1	108.2	160.6	99.98	63.50	33.17	52.98
#1	.0001	-.0001	.0005	.0003	.0001	-.0001	.0001	.0002	.0001
#2	-.0004	.0001	.0002	.0001	-.0001	-.0001	.0001	.0001	.0003
#3	-.0002	-.0001	-.0002	-.0000	-.0003	-.0005	.0000	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0002**	**.0006**	**.0013**	**.0001**	**-.0010**	**.0012**	**.0021**	**-.0065**
Stddev	.0001	.0001	.0008	.0010	.0002	.0008	.0010	.0077	.0025
%RSD	7193.	39.08	137.4	77.50	173.2	79.64	83.24	369.0	39.15
#1	.0001	.0001	.0001	.0003	.0000	-.0002	.0012	.0110	-.0042
#2	-.0001	.0003	.0015	.0014	-.0000	-.0018	.0021	-.0031	-.0092
#3	.0001	.0002	.0001	.0023	.0003	-.0010	.0002	-.0015	-.0060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.0040**	**.0505**	**.0643**	**.0022**	F **.0032**	**.0051**	**-.0002**	**.0000**
Stddev	.0011	.0237	.0059	.0092	.0003	.0006	.0009	.0001	.0001
%RSD	37.36	598.5	11.60	14.23	12.69	18.54	17.81	41.34	283.1
#1	.0020	.0214	.0455	.0607	.0023	.0037	.0058	-.0002	-.0000
#2	.0026	-.0230	.0569	.0576	.0019	.0032	.0053	-.0001	.0001
#3	.0041	.0134	.0490	.0748	.0024	.0026	.0040	-.0002	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 20:08:28 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0021**	**.0002**	**.0003**	**-.0001**	**-.0006**	F **.0069**
Stddev	.0001	.0003	.0001	.0013	.0013	.0007	.0005
%RSD	120.2	15.89	40.30	468.6	938.0	109.8	6.660
#1	.0000	.0023	.0001	.0003	.0011	-.0000	.0071
#2	.0000	.0022	.0002	.0016	-.0000	-.0005	.0073
#3	.0003	.0017	.0002	-.0010	-.0014	-.0014	.0064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0054
Low Limit							-.0054

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109210.**	**4321.0**	**4084.4**	**9449.8**
Stddev	384.	13.3	10.9	15.6
%RSD	.35134	.30739	.26573	.16515
#1	109130.	4308.5	4086.3	9460.7
#2	108880.	4319.6	4072.8	9431.9
#3	109630.	4334.9	4094.2	9456.8

Zoom In Zoom Out

Sample Name: mp11050-mb1 3 Acquired: 12/6/2018 20:14:00 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0001**	**.0002**	**.0002**	**.0000**	**.0001**	**.0004**	**.0013**	**.0001**
Stddev	.0002	.0000	.0001	.0003	.0001	.0001	.0000	.0003	.0001
%RSD	29.53	13.69	61.80	199.3	1631.	92.40	2.683	25.48	175.2
#1	.0006	.0001	.0001	-.0001	-.0002	.0001	.0004	.0017	.0001
#2	.0008	.0001	.0001	.0000	.0001	.0003	.0004	.0013	.0001
#3	.0011	.0001	.0003	.0006	.0001	.0000	.0004	.0010	-.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0103**	**-.0009**	**.0008**	**-.0006**	**.0017**	**.0006**	**.0037**	**.1954**
Stddev	.0000	.0001	.0012	.0013	.0007	.0008	.0005	.0145	.0011
%RSD	1342.	1.192	137.8	149.7	104.2	45.92	94.07	391.9	.5740
#1	.0000	.0104	-.0008	-.0001	-.0013	.0026	.0006	-.0001	.1961
#2	-.0000	.0102	-.0021	.0023	.0001	.0015	.0000	.0197	.1941
#3	.0000	.0103	.0003	.0003	-.0007	.0011	.0011	-.0085	.1959

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0137**	**.0519**	**.1962**	**.0024**	**.0017**	**.3331**	**-.0002**	**.0030**
Stddev	.0030	.0275	.0191	.0053	.0005	.0002	.0008	.0004	.0001
%RSD	152.8	201.4	36.92	2.698	20.85	9.789	.2413	175.5	3.942
#1	.0054	-.0178	.0443	.1901	.0029	.0019	.3324	-.0002	.0030
#2	.0005	.0256	.0736	.1982	.0020	.0016	.3340	.0001	.0032
#3	.0000	.0332	.0376	.2001	.0022	.0015	.3328	-.0007	.0029

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0016**	**.0006**	**.2935**	**-.0014**	**-.0006**	**.0057**
Stddev	.0001	.0008	.0000	.0028	.0006	.0002	.0007
%RSD	91.20	51.39	7.717	.9510	40.97	28.52	12.71
#1	.0002	.0020	.0006	.2955	-.0021	-.0004	.0065
#2	.0001	.0020	.0006	.2903	-.0012	-.0007	.0052
#3	.0000	.0006	.0005	.2948	-.0010	-.0007	.0054

Zoom In Zoom Out

Sample Name: mp11050-mb1 3 Acquired: 12/6/2018 20:14:00 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108090.**	**4023.8**	**4005.3**	**9307.9**
Stddev	249.	8.3	1.4	9.4
%RSD	.23014	.20692	.03407	.10075
#1	108150.	4021.2	4004.7	9304.6
#2	107820.	4017.0	4006.9	9300.5
#3	108310.	4033.0	4004.3	9318.4

Zoom In Zoom Out

Sample Name: mp11050-b1 Acquired: 12/6/2018 20:19:31 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.067**	**2.048**	**1.953**	**1.973**	**2.025**	**2.004**	**2.043**	**1.989**	**.2463**
Stddev	.007	.005	.076	.076	.010	.016	.007	.078	.0019
%RSD	.3218	.2291	3.911	3.879	.4937	.8032	.3326	3.936	.7764
#1	2.068	2.051	1.980	1.997	2.014	1.986	2.036	2.016	.2441
#2	2.060	2.043	1.867	1.888	2.029	2.012	2.050	1.900	.2477
#3	2.074	2.051	2.012	2.035	2.032	2.015	2.044	2.050	.2471

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.011**	**1.960**	**1.941**	**2.007**	**1.977**	**1.903**	**1.982**	**25.79**	**25.01**
Stddev	.011	.078	.076	.069	.075	.074	.076	.07	.06
%RSD	.5584	3.972	3.923	3.452	3.803	3.879	3.856	.2669	.2206
#1	1.998	1.987	1.973	2.031	2.002	1.926	2.008	25.86	24.97
#2	2.016	1.872	1.855	1.929	1.893	1.821	1.896	25.72	24.99
#3	2.018	2.020	1.997	2.061	2.037	1.964	2.043	25.79	25.08

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.06**	**23.42**	**26.45**	**26.71**	**1.938**	**2.020**	**.3595**	**1.985**	**2.066**
Stddev	.09	.11	.15	.08	.074	.078	.0155	.078	.007
%RSD	.3573	.4787	.5671	.2944	3.839	3.873	4.323	3.942	.3263
#1	24.12	23.33	26.44	26.75	1.966	2.048	.3658	2.013	2.068
#2	23.96	23.38	26.30	26.62	1.854	1.932	.3418	1.897	2.058
#3	24.11	23.54	26.60	26.75	1.994	2.081	.3710	2.045	2.070

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.032**	**1.959**	**2.048**	**.0394**	**-.0094**	**-.0008**	**1.946**
Stddev	.012	.076	.014	.0024	.0006	.0003	.065
%RSD	.6015	3.878	.6814	6.110	6.702	34.67	3.360
#1	2.018	1.981	2.032	.0417	-.0101	-.0006	1.968
#2	2.037	1.875	2.055	.0369	-.0089	-.0008	1.872
#3	2.041	2.022	2.057	.0396	-.0091	-.0011	1.997

Zoom In Zoom Out

Sample Name: mp11050-b1 Acquired: 12/6/2018 20:19:31 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105320.**	**4060.4**	**4220.5**	**9920.0**
Stddev	536.	12.5	140.5	321.9
%RSD	.50859	.30881	3.3298	3.2454
#1	105940.	4058.1	4164.5	9798.0
#2	105020.	4073.9	4380.5	10285.
#3	105000.	4049.2	4116.7	9676.9

Zoom In Zoom Out

Sample Name: mp11050-s1 Acquired: 12/6/2018 20:24:43 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.137**	**2.055**	**2.022**	**2.039**	**2.055**	**2.049**	**2.132**	**2.050**	**.2506**
Stddev	.002	.004	.002	.001	.021	.024	.028	.001	.0024
%RSD	.0825	.1844	.0840	.0301	.9966	1.152	1.294	.0672	.9461
#1	2.135	2.053	2.024	2.039	2.032	2.023	2.101	2.051	.2480
#2	2.137	2.059	2.021	2.039	2.070	2.068	2.153	2.050	.2526
#3	2.138	2.052	2.022	2.040	2.062	2.057	2.142	2.049	.2512

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.044**	**2.024**	**2.009**	**2.075**	**2.045**	**1.977**	**2.052**	**29.24**	**28.63**
Stddev	.020	.001	.002	.000	.002	.002	.005	.04	.06
%RSD	.9543	.0487	.0955	.0195	.1167	.1038	.2254	.1434	.2232
#1	2.022	2.025	2.009	2.075	2.045	1.977	2.047	29.24	28.60
#2	2.059	2.023	2.008	2.074	2.043	1.975	2.052	29.20	28.71
#3	2.052	2.025	2.011	2.074	2.047	1.980	2.056	29.29	28.59

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.90**	**24.39**	**28.71**	**62.04**	**2.073**	**2.080**	**6.577**	**2.041**	**2.110**
Stddev	.04	.11	.07	.12	.001	.001	.005	.003	.002
%RSD	.1524	.4523	.2421	.1997	.0695	.0565	.0783	.1574	.0852
#1	26.94	24.50	28.63	61.99	2.074	2.081	6.583	2.044	2.109
#2	26.89	24.28	28.73	61.95	2.072	2.079	6.573	2.038	2.108
#3	26.86	24.39	28.77	62.18	2.074	2.080	6.576	2.040	2.112

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.155**	**2.006**	**2.087**	**3.275**	**-.0097**	**.0032**	**2.107**
Stddev	.020	.002	.021	.003	.0008	.0003	.013
%RSD	.9382	.1179	.9960	.0829	8.108	9.340	.5979
#1	2.132	2.005	2.064	3.276	-.0102	.0035	2.098
#2	2.171	2.004	2.104	3.272	-.0088	.0030	2.121
#3	2.161	2.008	2.092	3.277	-.0100	.0030	2.100

Zoom In Zoom Out

Sample Name: mp11050-s1 Acquired: 12/6/2018 20:24:43 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105310.**	**4164.0**	**4159.7**	**9745.6**
Stddev	1100.	10.6	6.4	11.9
%RSD	1.0449	.25504	.15319	.12172
#1	106560.	4166.7	4154.9	9740.5
#2	104500.	4173.0	4166.9	9759.2
#3	104860.	4152.3	4157.3	9737.2

Zoom In Zoom Out

Sample Name: mp11050-s2 Acquired: 12/6/2018 20:29:55 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.128**	**2.026**	**1.976**	**2.005**	**2.051**	**2.044**	**2.122**	**2.010**	**.2502**
Stddev	.002	.001	.002	.005	.004	.006	.021	.005	.0003
%RSD	.1135	.0652	.1152	.2694	.1826	.3178	.9653	.2724	.1246
#1	2.130	2.027	1.977	2.010	2.055	2.047	2.145	2.014	.2500
#2	2.129	2.025	1.978	2.005	2.050	2.048	2.115	2.012	.2505
#3	2.125	2.027	1.974	1.999	2.047	2.036	2.106	2.004	.2500

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.038**	**1.967**	**1.935**	**2.058**	**2.015**	**1.898**	**2.003**	**29.15**	**28.54**
Stddev	.004	.004	.002	.004	.006	.007	.009	.04	.10
%RSD	.2201	.1891	.0910	.1730	.3176	.3466	.4768	.1529	.3384
#1	2.041	1.968	1.936	2.060	2.021	1.903	2.011	29.13	28.50
#2	2.039	1.970	1.935	2.060	2.015	1.900	2.006	29.11	28.46
#3	2.033	1.963	1.933	2.054	2.009	1.890	1.992	29.20	28.64

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.86**	**24.24**	**28.69**	**61.91**	**1.999**	**2.061**	**6.457**	**2.013**	**2.101**
Stddev	.02	.05	.01	.05	.007	.005	.019	.003	.001
%RSD	.0752	.1883	.0489	.0883	.3453	.2318	.2945	.1386	.0471
#1	26.86	24.29	28.70	61.95	2.003	2.064	6.473	2.017	2.102
#2	26.85	24.20	28.67	61.85	2.003	2.063	6.462	2.013	2.102
#3	26.89	24.22	28.70	61.93	1.991	2.056	6.436	2.011	2.100

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.150**	**1.998**	**2.084**	**3.123**	**-.0097**	**.0031**	**2.032**
Stddev	.003	.006	.007	.012	.0005	.0011	.006
%RSD	.1228	.3091	.3196	.3892	4.908	35.36	.3086
#1	2.151	1.998	2.089	3.134	-.0096	.0040	2.038
#2	2.152	2.004	2.087	3.126	-.0093	.0035	2.032
#3	2.147	1.992	2.076	3.110	-.0103	.0019	2.026

Zoom In Zoom Out

Sample Name: mp11050-s2 Acquired: 12/6/2018 20:29:55 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104390.**	**4181.7**	**4305.9**	**10103.**
Stddev	167.	11.7	11.4	32.
%RSD	.16022	.27993	.26420	.31733
#1	104210.	4188.3	4295.2	10071.
#2	104410.	4188.7	4304.5	10102.
#3	104540.	4168.2	4317.9	10135.

Zoom In Zoom Out

Sample Name: jc78837-1a Acquired: 12/6/2018 20:35:08 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0222**	**.0001**	**.0002**	**.0015**	**.0027**	**.0076**	**.0527**	**.0032**	**-.0001**
Stddev	.0001	.0000	.0002	.0002	.0001	.0001	.0001	.0004	.0003
%RSD	.5291	35.42	97.39	13.19	3.013	1.955	.1474	11.26	353.2
#1	.0224	.0002	.0004	.0013	.0026	.0078	.0528	.0036	-.0002
#2	.0222	.0001	.0001	.0017	.0028	.0076	.0526	.0031	.0003
#3	.0222	.0001	.0000	.0015	.0027	.0075	.0527	.0029	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0068**	**.0181**	**.0004**	**-.0014**	**.0020**	**.0007**	**.0004**	**2.692**	**3.600**
Stddev	.0002	.0002	.0011	.0019	.0003	.0008	.0008	.015	.016
%RSD	2.457	.9039	279.5	135.1	15.85	122.9	207.8	.5659	.4449
#1	.0067	.0183	.0007	-.0025	.0023	-.0002	.0003	2.703	3.585
#2	.0070	.0180	-.0008	.0008	.0019	.0014	.0013	2.698	3.600
#3	.0067	.0181	.0013	-.0026	.0017	.0008	-.0004	2.675	3.617

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.668**	**.8486**	**1.711**	**35.08**	**.0690**	**.0043**	**5.680**	**-.0001**	**.0066**
Stddev	.012	.0403	.015	.13	.0005	.0005	.018	.0002	.0002
%RSD	.4473	4.747	.8694	.3638	.7407	12.63	.3076	217.9	2.943
#1	2.678	.8783	1.697	35.20	.0696	.0049	5.668	.0001	.0066
#2	2.655	.8027	1.727	34.94	.0686	.0043	5.672	-.0001	.0065
#3	2.672	.8646	1.709	35.11	.0689	.0038	5.700	-.0004	.0069

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1036**	**.0057**	**.0032**	**3.857**	**-.0021**	**.0025**	**.1261**
Stddev	.0006	.0009	.0001	.009	.0019	.0005	.0007
%RSD	.6128	16.17	1.601	.2459	89.11	18.27	.5845
#1	.1044	.0067	.0032	3.862	-.0008	.0029	.1267
#2	.1032	.0048	.0032	3.846	-.0013	.0020	.1253
#3	.1033	.0057	.0031	3.863	-.0043	.0027	.1264

Zoom In Zoom Out

Sample Name: jc78837-1a Acquired: 12/6/2018 20:35:08 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106440.**	**4180.6**	**3973.2**	**9211.0**
Stddev	263.	18.3	17.9	31.6
%RSD	.24704	.43659	.45068	.34258
#1	106170.	4178.6	3988.4	9235.0
#2	106460.	4199.8	3977.8	9222.8
#3	106700.	4163.5	3953.5	9175.3

Zoom In Zoom Out

Sample Name: mp11050-sd1 Acquired: 12/6/2018 20:40:32 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0227**	**-.0003**	**.0010**	**.0005**	**.0027**	**.0052**	**.0548**	**.0051**	**-.0004**
Stddev	.0027	.0004	.0002	.0009	.0012	.0005	.0003	.0016	.0020
%RSD	12.04	130.8	19.13	190.1	43.65	9.947	.6229	32.28	444.0
#1	.0211	-.0004	.0010	-.0003	.0020	.0053	.0545	.0053	.0001
#2	.0210	.0001	.0012	.0002	.0040	.0046	.0551	.0033	-.0027
#3	.0258	-.0006	.0008	.0015	.0020	.0056	.0549	.0065	.0012

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075**	**.0350**	**.0047**	**.0082**	**.0004**	**.0039**	**.0016**	**2.812**	**3.779**
Stddev	.0019	.0004	.0026	.0026	.0021	.0046	.0053	.018	.030
%RSD	25.32	1.042	55.80	31.99	536.3	118.1	336.0	.6334	.7851
#1	.0097	.0346	.0057	.0081	-.0011	.0084	.0024	2.793	3.745
#2	.0064	.0351	.0017	.0056	.0027	.0042	.0064	2.816	3.789
#3	.0064	.0353	.0066	.0108	-.0005	-.0008	-.0041	2.828	3.802

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.723**	**.8562**	**1.796**	**35.55**	**.0747**	**.0085**	**5.716**	**-.0020**	**.0069**
Stddev	.006	.1382	.038	.03	.0014	.0015	.011	.0029	.0007
%RSD	.2227	16.15	2.120	.0946	1.897	17.19	.1900	144.5	9.640
#1	2.730	.8644	1.754	35.57	.0740	.0101	5.722	.0013	.0077
#2	2.722	.9902	1.808	35.56	.0738	.0072	5.724	-.0042	.0066
#3	2.718	.7141	1.827	35.51	.0764	.0083	5.704	-.0032	.0065

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1077**	**.0143**	**.0042**	**3.451**	**-.0045**	**-.0032**	**.1241**
Stddev	.0024	.0015	.0003	.007	.0021	.0033	.0017
%RSD	2.273	10.63	6.277	.2110	46.29	103.9	1.339
#1	.1087	.0152	.0041	3.452	-.0023	-.0048	.1222
#2	.1096	.0151	.0045	3.458	-.0065	-.0055	.1251
#3	.1050	.0125	.0040	3.444	-.0049	.0006	.1250

Zoom In Zoom Out

Sample Name: mp11050-sd1 Acquired: 12/6/2018 20:40:32 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107100.**	**4138.8**	**4447.3**	**10419.**
Stddev	325.	3.2	2.8	9.
%RSD	.30303	.07833	.06365	.08992
#1	107360.	4142.5	4450.3	10427.
#2	106740.	4136.4	4444.6	10421.
#3	107200.	4137.4	4447.0	10409.

Zoom In Zoom Out

Sample Name: jc78837-2a Acquired: 12/6/2018 20:45:58 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0309**	**.0002**	**.0002**	**.0021**	**.0035**	**.0144**	**.0972**	**.0043**	**-.0001**
Stddev	.0005	.0001	.0002	.0000	.0002	.0002	.0001	.0002	.0003
%RSD	1.561	46.76	76.07	.0692	5.318	1.333	.1232	5.745	234.4
#1	.0315	.0002	.0000	.0021	.0033	.0145	.0971	.0044	-.0004
#2	.0305	.0001	.0004	.0021	.0036	.0146	.0971	.0046	-.0001
#3	.0308	.0001	.0003	.0021	.0035	.0142	.0973	.0041	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096**	**.0202**	**.0006**	**-.0014**	**.0044**	**.0002**	**.0011**	**3.640**	**2.411**
Stddev	.0001	.0004	.0012	.0005	.0007	.0011	.0007	.024	.006
%RSD	1.363	1.763	188.2	39.42	14.80	529.6	64.25	.6634	.2521
#1	.0095	.0199	.0019	-.0007	.0041	.0010	.0011	3.642	2.405
#2	.0095	.0206	.0003	-.0018	.0039	.0007	.0018	3.663	2.412
#3	.0097	.0201	-.0003	-.0016	.0051	-.0011	.0004	3.615	2.417

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.692**	**.9098**	**1.107**	**54.17**	**.1001**	**.0025**	**6.659**	**-.0002**	**.0042**
Stddev	.009	.0274	.028	.07	.0008	.0001	.075	.0003	.0001
%RSD	.2454	3.007	2.523	.1253	.7936	3.354	1.126	147.7	3.334
#1	3.695	.9077	1.079	54.10	.0997	.0025	6.617	-.0005	.0041
#2	3.682	.8835	1.134	54.18	.1011	.0026	6.745	.0000	.0041
#3	3.699	.9381	1.109	54.23	.0997	.0024	6.614	-.0001	.0043

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1295**	**.0018**	**.0035**	**4.541**	**-.0035**	**.0022**	**.2146**
Stddev	.0004	.0005	.0000	.064	.0009	.0009	.0020
%RSD	.2879	25.86	.7871	1.402	26.85	41.45	.9294
#1	.1291	.0023	.0035	4.513	-.0040	.0028	.2130
#2	.1296	.0016	.0036	4.614	-.0024	.0012	.2168
#3	.1298	.0014	.0035	4.496	-.0040	.0026	.2138

Zoom In Zoom Out

Sample Name: jc78837-2a Acquired: 12/6/2018 20:45:58 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106400.**	**4032.2**	**3964.5**	**9166.9**
Stddev	98.	9.6	36.1	87.7
%RSD	.09243	.23700	.91034	.95710
#1	106520.	4041.9	3984.5	9215.7
#2	106340.	4022.8	3922.9	9065.6
#3	106350.	4031.8	3986.2	9219.5

Zoom In Zoom Out

Sample Name: jc78837-3a Acquired: 12/6/2018 20:51:21 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0245**	**.0001**	**.0003**	**.0011**	**.0036**	**.0089**	**.0574**	**.0022**
Stddev	.0002	.0001	.0001	.0001	.0002	.0001	.0002	.0004
%RSD	.9628	77.28	41.71	6.908	4.261	1.582	.3936	16.19
#1	.0246	.0002	.0003	.0011	.0037	.0091	.0576	.0022
#2	.0242	.0002	.0001	.0012	.0037	.0088	.0572	.0026
#3	.0247	.0000	.0003	.0010	.0034	.0088	.0573	.0019

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0151**	**.0169**	**.0017**	F **-.0036**	**.0322**	**.0020**	**.0002**
Stddev	.0001	.0002	.0003	.0004	.0005	.0025	.0007	.0002
%RSD	701.7	1.175	1.923	25.03	14.91	7.753	35.91	139.8
#1	.0001	.0153	.0171	.0015	-.0032	.0332	.0012	.0004
#2	-.0001	.0152	.0166	.0015	-.0042	.0293	.0026	.0000
#3	-.0000	.0149	.0171	.0022	-.0035	.0340	.0022	.0000

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.375**	**2.415**	**3.306**	**.6570**	**.7935**	**70.39**	**.2610**	**.0024**
Stddev	.006	.014	.015	.0195	.0363	.15	.0043	.0000
%RSD	.1461	.5656	.4479	2.970	4.579	.2092	1.642	1.348
#1	4.373	2.428	3.320	.6785	.8342	70.36	.2637	.0024
#2	4.371	2.415	3.306	.6404	.7822	70.25	.2560	.0024
#3	4.383	2.401	3.291	.6520	.7642	70.54	.2632	.0024

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.931**	**.0003**	**.0026**	**.1773**	**.0041**	**.0049**	**5.376**	**-.0027**
Stddev	.104	.0009	.0001	.0014	.0015	.0002	.089	.0001
%RSD	1.755	293.9	3.096	.7921	36.95	3.081	1.657	4.757
#1	6.003	.0002	.0027	.1789	.0025	.0051	5.431	-.0028
#2	5.812	-.0006	.0025	.1762	.0055	.0048	5.273	-.0028
#3	5.979	.0013	.0027	.1767	.0044	.0048	5.423	-.0026

Zoom In Zoom Out

Sample Name: jc78837-3a Acquired: 12/6/2018 20:51:21 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0025**	**.4904**
Stddev	.0002	.0096
%RSD	9.871	1.952
#1	.0022	.4971
#2	.0027	.4794
#3	.0025	.4946

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105500.**	**4061.7**	**4042.7**	**9341.8**
Stddev	803.	11.8	58.3	121.3
%RSD	.76149	.29044	1.4420	1.2990
#1	104580.	4048.7	4006.5	9275.1
#2	106060.	4071.7	4110.0	9481.9
#3	105870.	4064.8	4011.8	9268.4

Zoom In Zoom Out

Sample Name: mp10966-mb1conf Acquired: 12/6/2018 20:56:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0000**	**.0002**	**.0001**	**.0001**	**-.0004**	**-.0000**	**.0002**	**-.0001**
Stddev	.0002	.0001	.0001	.0001	.0001	.0001	.0000	.0002	.0004
%RSD	72.82	427.4	39.27	85.84	68.72	33.72	100.3	110.8	333.0
#1	-.0001	-.0001	.0002	.0002	.0001	-.0003	-.0000	-.0000	-.0004
#2	-.0004	.0000	.0001	.0000	.0000	-.0005	-.0000	.0003	.0003
#3	-.0001	.0000	.0003	.0002	.0001	-.0004	-.0000	.0003	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0005**	**-.0006**	**-.0007**	**.0002**	**.0012**	**-.0000**	**.0076**	**.0003**
Stddev	.0001	.0000	.0006	.0005	.0007	.0015	.0003	.0054	.0026
%RSD	864.2	3.297	99.09	66.10	395.9	129.1	2316.	70.97	829.3
#1	-.0000	.0005	-.0001	-.0003	.0004	.0023	-.0003	.0134	-.0022
#2	-.0001	.0005	-.0005	-.0006	-.0006	-.0006	-.0000	.0065	.0030
#3	.0001	.0005	-.0013	-.0012	.0007	.0018	.0003	.0028	.0002

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0026**	**.0022**	**.0638**	**.0022**	**.0007**	**.0128**	**-.0001**	**.0000**
Stddev	.0043	.0033	.0258	.0061	.0000	.0003	.0005	.0005	.0002
%RSD	351.8	127.6	1191.	9.541	1.707	38.89	3.793	368.0	1332.
#1	-.0028	.0052	-.0245	.0706	.0022	.0007	.0123	.0002	.0002
#2	.0058	-.0011	.0040	.0619	.0022	.0009	.0133	-.0007	-.0001
#3	.0006	.0036	.0270	.0588	.0021	.0004	.0128	.0001	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0029**	**.0008**	**.0032**	**-.0025**	**-.0008**	**.0045**
Stddev	.0001	.0002	.0000	.0004	.0006	.0008	.0003
%RSD	829.7	6.892	4.555	13.54	25.58	104.6	6.767
#1	.0000	.0031	.0008	.0032	-.0024	-.0017	.0042
#2	.0002	.0030	.0008	.0028	-.0019	-.0002	.0048
#3	-.0001	.0027	.0008	.0037	-.0031	-.0004	.0044

Zoom In Zoom Out

Sample Name: mp10966-mb1conf Acquired: 12/6/2018 20:56:42 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107690.**	**4182.6**	**4167.3**	**9672.3**
Stddev	894.	6.9	11.8	20.6
%RSD	.82981	.16383	.28393	.21336
#1	106970.	4185.8	4156.4	9658.4
#2	108690.	4174.7	4165.6	9662.4
#3	107410.	4187.2	4179.9	9696.0

Zoom In Zoom Out

Sample Name: mp11118-mb1conf Acquired: 12/6/2018 21:02:13 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**-.0002**	**.0004**	**-.0001**	**-.0004**	**-.0000**	**.0006**	**-.0000**
Stddev	.0003	.0000	.0001	.0001	.0001	.0001	.0000	.0001	.0002
%RSD	176.7	30.47	45.93	36.54	70.38	15.59	15.23	16.83	1050.
#1	.0004	-.0000	-.0003	.0005	-.0001	-.0004	-.0000	.0007	.0002
#2	-.0002	-.0001	-.0002	.0003	-.0000	-.0005	-.0000	.0005	-.0002
#3	.0003	-.0001	-.0001	.0003	-.0001	-.0004	-.0000	.0005	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0004**	**.0021**	**.0028**	**.0009**	**-.0012**	**-.0019**	**.0052**	**-.0054**
Stddev	.0001	.0001	.0008	.0017	.0009	.0009	.0004	.0088	.0036
%RSD	38.09	19.81	39.32	60.51	103.4	81.73	19.07	169.3	66.25
#1	.0002	-.0003	.0015	.0025	.0005	-.0010	-.0015	-.0021	-.0078
#2	.0001	-.0003	.0019	.0013	.0019	-.0022	-.0018	.0027	-.0070
#3	.0002	-.0004	.0031	.0047	.0002	-.0003	-.0022	.0149	-.0013

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0025**	**.0023**	**-.0245**	**.0175**	**.0006**	**.0002**	**-.0066**	**-.0015**	**-.0000**
Stddev	.0027	.0025	.0375	.0026	.0003	.0003	.0002	.0008	.0002
%RSD	105.8	110.1	153.0	14.83	57.96	143.9	2.959	53.00	1999.
#1	-.0056	.0049	-.0038	.0146	.0009	-.0000	-.0068	-.0008	-.0002
#2	-.0009	.0020	-.0019	.0194	.0002	.0001	-.0066	-.0023	.0001
#3	-.0010	-.0001	-.0678	.0187	.0006	.0005	-.0064	-.0013	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0002**	**-.0001**	**.0013**	**.0021**	**-.0031**	**.0031**
Stddev	.0002	.0004	.0001	.0014	.0005	.0003	.0008
%RSD	62.03	250.2	112.1	104.6	21.17	9.124	25.52
#1	.0004	.0002	-.0000	.0029	.0026	-.0029	.0022
#2	.0001	-.0003	-.0003	.0008	.0021	-.0031	.0034
#3	.0002	.0006	-.0001	.0003	.0017	-.0035	.0036

Zoom In Zoom Out

Sample Name: mp11118-mb1conf Acquired: 12/6/2018 21:02:13 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110410.**	**4246.2**	**4164.9**	**9613.5**
Stddev	134.	12.2	4.3	16.3
%RSD	.12166	.28738	.10371	.16904
#1	110330.	4260.1	4161.7	9602.3
#2	110570.	4241.5	4169.8	9632.1
#3	110340.	4237.0	4163.2	9606.1

Zoom In Zoom Out

Sample Name: ccv 7 Acquired: 12/6/2018 21:07:46 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.097**	**2.033**	**2.033**	**2.039**	**2.048**	**2.030**	**2.067**	**2.055**	**.2506**
Stddev	.003	.001	.003	.003	.001	.004	.007	.002	.0003
%RSD	.1643	.0689	.1468	.1648	.0501	.1902	.3610	.0956	.1266
#1	2.098	2.033	2.034	2.043	2.048	2.034	2.075	2.057	.2507
#2	2.093	2.033	2.035	2.038	2.049	2.028	2.066	2.054	.2508
#3	2.099	2.031	2.029	2.036	2.047	2.027	2.060	2.053	.2502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.030**	**2.049**	**2.060**	**2.051**	**2.046**	**2.029**	**2.058**	**41.23**	**39.83**
Stddev	.001	.003	.006	.005	.005	.004	.003	.10	.03
%RSD	.0614	.1267	.3107	.2238	.2272	.1833	.1234	.2305	.0864
#1	2.031	2.051	2.064	2.047	2.051	2.029	2.057	41.31	39.82
#2	2.030	2.050	2.064	2.056	2.044	2.033	2.060	41.24	39.87
#3	2.029	2.046	2.053	2.050	2.043	2.026	2.055	41.12	39.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.24**	**37.88**	**42.61**	**42.58**	**2.061**	**2.057**	**5.251**	**2.040**	**2.087**
Stddev	.02	.05	.04	.09	.006	.002	.009	.004	.005
%RSD	.0465	.1403	.0865	.2025	.2698	.0780	.1807	.2063	.2298
#1	38.25	37.82	42.64	42.68	2.060	2.058	5.252	2.039	2.092
#2	38.22	37.92	42.57	42.53	2.067	2.059	5.259	2.045	2.083
#3	38.24	37.89	42.63	42.53	2.057	2.056	5.241	2.037	2.085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv 7 Acquired: 12/6/2018 21:07:46 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.055**	**2.031**	**2.093**	**2.061**	**1.999**	F **2.208**	**2.039**
Stddev	.001	.002	.006	.007	.004	.004	.003
%RSD	.0449	.1169	.2818	.3401	.2045	.1970	.1412
#1	2.056	2.031	2.100	2.059	1.998	2.213	2.040
#2	2.055	2.034	2.092	2.069	2.004	2.204	2.042
#3	2.054	2.029	2.088	2.055	1.996	2.208	2.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2.000	
Range						10.00%	

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104040.**	**4068.1**	**4032.5**	**9406.7**
Stddev	255.	10.0	7.8	13.0
%RSD	.24551	.24525	.19454	.13773
#1	103750.	4067.7	4031.2	9395.1
#2	104130.	4058.4	4025.4	9404.3
#3	104240.	4078.3	4040.9	9420.7

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 21:13:00 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0001**	**.0002**	**.0000**	**-.0004**	**.0000**	**.0003**	**-.0000**
Stddev	.0001	.0001	.0001	.0002	.0001	.0000	.0000	.0001	.0002
%RSD	766.1	917.3	152.5	110.7	800.1	13.14	59.18	21.32	1548.
#1	.0002	-.0001	.0001	.0003	-.0000	-.0003	.0001	.0003	-.0000
#2	-.0000	.0000	-.0001	-.0001	.0001	-.0004	.0000	.0002	.0002
#3	-.0001	.0001	.0002	.0004	-.0001	-.0004	.0000	.0003	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0002**	**.0006**	**.0005**	**.0007**	**-.0000**	**.0001**	**-.0050**	**-.0095**
Stddev	.0001	.0002	.0003	.0013	.0012	.0013	.0007	.0118	.0022
%RSD	55.51	114.1	50.47	262.1	182.9	2770.	527.5	235.1	22.92
#1	.0001	.0003	.0005	-.0010	-.0006	.0014	.0008	.0086	-.0108
#2	.0002	-.0000	.0009	.0014	.0008	-.0009	-.0005	-.0127	-.0108
#3	.0003	.0002	.0004	.0010	.0018	-.0006	.0001	-.0109	-.0070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**.0030**	**.0452**	**.0442**	**.0032**	F **.0035**	**.0008**	**-.0003**	**-.0000**
Stddev	.0012	.0266	.0253	.0120	.0003	.0006	.0006	.0000	.0000
%RSD	33.80	876.5	56.02	27.14	8.057	16.66	73.15	11.94	115.2
#1	.0046	.0336	.0309	.0575	.0035	.0039	.0015	-.0003	-.0000
#2	.0033	-.0146	.0303	.0343	.0030	.0036	.0007	-.0003	-.0000
#3	.0023	-.0099	.0744	.0406	.0033	.0028	.0003	-.0002	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 21:13:00 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0023**	**.0002**	**-.0001**	**-.0003**	**-.0000**	**.0019**
Stddev	.0003	.0006	.0001	.0016	.0010	.0004	.0001
%RSD	796.1	27.36	75.01	2170.	307.1	1082.	6.331
#1	.0001	.0019	.0000	.0010	.0000	.0004	.0018
#2	.0003	.0030	.0003	.0007	-.0014	-.0003	.0018
#3	-.0003	.0019	.0002	-.0020	.0004	-.0002	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107880.**	**4193.9**	**4092.7**	**9453.0**
Stddev	394.	10.8	4.9	7.6
%RSD	.36476	.25661	.11911	.08089
#1	108330.	4206.0	4093.0	9449.8
#2	107620.	4189.9	4097.4	9461.7
#3	107680.	4185.7	4087.6	9447.4

Zoom In Zoom Out

Sample Name: mp11118-b1conf Acquired: 12/6/2018 21:18:32 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.000**	**1.947**	**1.995**	**1.982**	**2.002**	**1.944**	**2.014**	**2.006**
Stddev	.012	.015	.007	.006	.002	.003	.010	.007
%RSD	.5968	.7440	.3612	.2803	.0901	.1290	.5125	.3348
#1	2.014	1.964	1.997	1.983	2.000	1.941	2.020	2.007
#2	1.994	1.940	1.987	1.977	2.004	1.946	2.002	1.999
#3	1.992	1.937	2.001	1.988	2.001	1.944	2.020	2.013

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2571**	**1.974**	**2.019**	**2.068**	**2.019**	**2.002**	**2.114**	**2.027**
Stddev	.0004	.003	.006	.008	.005	.003	.002	.012
%RSD	.1712	.1297	.2904	.3695	.2743	.1457	.0858	.5782
#1	.2566	1.972	2.022	2.068	2.022	2.004	2.114	2.030
#2	.2574	1.977	2.012	2.061	2.012	1.999	2.113	2.014
#3	.2572	1.973	2.023	2.076	2.021	2.005	2.116	2.037

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.27**	**24.30**	**23.27**	**22.94**	**26.23**	**26.07**	**2.034**	**1.958**
Stddev	.15	.11	.10	.18	.18	.21	.009	.009
%RSD	.6129	.4723	.4491	.7955	.6956	.7900	.4381	.4605
#1	25.43	24.42	23.38	23.14	26.45	26.31	2.036	1.956
#2	25.25	24.28	23.19	22.91	26.13	25.97	2.024	1.950
#3	25.12	24.19	23.22	22.77	26.13	25.94	2.041	1.968

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0259**	**2.011**	**1.993**	**2.002**	**1.870**	**2.016**	F **-.2197**	**-.0061**
Stddev	.0005	.005	.012	.002	.009	.003	.0024	.0009
%RSD	1.774	.2698	.6137	.1103	.4818	.1527	1.110	14.33
#1	.0256	2.013	2.007	1.999	1.868	2.013	-.2181	-.0068
#2	.0256	2.005	1.986	2.003	1.862	2.018	-.2185	-.0064
#3	.0264	2.015	1.985	2.003	1.880	2.018	-.2225	-.0051

Zoom In Zoom Out

Sample Name: mp11118-b1conf Acquired: 12/6/2018 21:18:32 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0015**	**2.100**
Stddev	.0008	.009
%RSD	53.22	.4232
#1	-.0008	2.097
#2	-.0014	2.092
#3	-.0023	2.109

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107020.**	**4207.2**	**4117.4**	**9604.3**
Stddev	200.	22.4	13.2	30.2
%RSD	.18710	.53183	.31995	.31488
#1	107010.	4181.5	4120.8	9621.3
#2	107220.	4218.2	4128.5	9622.2
#3	106820.	4222.0	4102.8	9569.4

Zoom In Zoom Out

Sample Name: mp11030-mb1conf Acquired: 12/6/2018 21:23:45 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0000**	**-.0003**	**.0004**	**-.0001**	**-.0001**	**-.0000**	**.0009**	**.0002**
Stddev	.0002	.0000	.0001	.0001	.0001	.0001	.0000	.0001	.0002
%RSD	127.0	56.50	47.86	34.91	103.9	107.8	21.56	13.38	110.3
#1	-.0002	.0000	-.0004	.0006	-.0002	-.0002	-.0000	.0011	.0004
#2	.0001	.0000	-.0002	.0004	-.0002	-.0001	-.0000	.0008	-.0000
#3	-.0004	.0000	-.0002	.0003	.0000	.0000	-.0000	.0009	.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0002**	**.0035**	**.0036**	**.0013**	**-.0009**	**-.0019**	**.0001**	**-.0121**
Stddev	.0001	.0002	.0004	.0009	.0003	.0005	.0007	.0082	.0015
%RSD	37.43	98.15	10.76	23.74	19.39	60.24	37.93	8200.	12.80
#1	.0001	-.0003	.0031	.0026	.0016	-.0003	-.0025	-.0087	-.0131
#2	.0002	.0000	.0038	.0040	.0011	-.0009	-.0020	.0076	-.0129
#3	.0001	-.0002	.0036	.0042	.0013	-.0014	-.0011	.0015	-.0103

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0104**	**.0116**	**.0273**	**.0032**	**.0084**	**-.0012**	**-.0008**	**.0001**
Stddev	.0021	.0076	.0148	.0070	.0001	.0009	.0015	.0002	.0002
%RSD	81.67	73.03	127.7	25.71	2.165	10.54	127.9	28.88	199.4
#1	.0011	.0119	.0236	.0353	.0033	.0093	-.0015	-.0010	.0002
#2	.0016	.0022	.0162	.0242	.0031	.0082	-.0025	-.0007	.0001
#3	.0049	.0172	-.0050	.0223	.0032	.0076	.0005	-.0006	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0077**	**.0002**	**.0005**	**.0024**	**-.0024**	**.0041**
Stddev	.0001	.0001	.0000	.0007	.0007	.0006	.0010
%RSD	30.81	1.344	27.55	140.4	28.04	23.93	24.38
#1	.0005	.0077	.0002	.0003	.0016	-.0029	.0053
#2	.0005	.0076	.0002	-.0001	.0026	-.0018	.0033
#3	.0003	.0078	.0002	.0012	.0029	-.0024	.0038

Zoom In Zoom Out

Sample Name: mp11030-mb1conf Acquired: 12/6/2018 21:23:45 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109330.**	**4311.2**	**4146.9**	**9588.0**
Stddev	309.	3.8	4.7	10.6
%RSD	.28300	.08741	.11359	.11054
#1	109080.	4314.0	4151.0	9595.0
#2	109240.	4312.6	4147.9	9593.2
#3	109670.	4306.9	4141.7	9575.8

Zoom In Zoom Out

Sample Name: mp11030-sd1conf Acquired: 12/6/2018 21:29:16 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0150**	**-.0002**	**.0007**	**.0002**	**.0025**	**.0051**	**.0118**	**.0015**	**-.0000**
Stddev	.0015	.0002	.0010	.0004	.0009	.0003	.0006	.0006	.0010
%RSD	10.01	71.35	150.4	206.0	37.12	4.933	4.767	38.61	25070.
#1	.0151	-.0004	.0003	.0005	.0016	.0048	.0113	.0010	.0010
#2	.0135	-.0003	.0018	.0004	.0026	.0052	.0118	.0021	-.0009
#3	.0165	-.0001	-.0001	-.0003	.0034	.0053	.0124	.0014	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**.3669**	**-.0014**	**-.0001**	**-.0018**	**.0020**	**-.0041**	**.0712**	**52.12**
Stddev	.0009	.0265	.0028	.0049	.0035	.0098	.0023	.0564	2.64
%RSD	34.59	7.227	206.8	3914.	189.3	502.3	56.28	79.19	5.070
#1	.0016	.3394	-.0005	.0055	-.0011	-.0071	-.0015	.0185	49.63
#2	.0032	.3691	-.0045	-.0037	-.0056	.0006	-.0050	.0644	51.84
#3	.0032	.3923	.0009	-.0022	.0012	.0124	-.0059	.1306	54.89

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0323**	**8.690**	**1.210**	**24.03**	**.1903**	**.0242**	**10.36**	**.0004**	**.1122**
Stddev	.0158	.439	.078	1.16	.0130	.0036	.72	.0022	.0059
%RSD	49.00	5.056	6.414	4.804	6.854	15.05	6.920	535.2	5.235
#1	.0141	8.412	1.122	22.88	.1761	.0282	9.619	-.0018	.1066
#2	.0402	8.462	1.241	24.04	.1932	.0229	10.43	.0025	.1118
#3	.0427	9.197	1.267	25.19	.2017	.0213	11.05	.0006	.1183

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.0328**	**.0031**	**8.156**	**.0003**	**-.0006**	**.0335**
Stddev	.0012	.0061	.0003	.605	.0028	.0066	.0015
%RSD	42.42	18.57	9.949	7.414	808.2	1083.	4.462
#1	.0031	.0396	.0035	7.527	-.0028	.0067	.0350
#2	.0040	.0278	.0031	8.209	.0028	-.0025	.0334
#3	.0016	.0310	.0029	8.733	.0010	-.0061	.0320

Zoom In Zoom Out

Sample Name: mp11030-sd1conf Acquired: 12/6/2018 21:29:16 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107140.**	**4110.7**	**4004.7**	**9257.8**
Stddev	661.	19.6	4.9	11.6
%RSD	.61714	.47663	.12193	.12499
#1	106420.	4090.9	4004.3	9258.0
#2	107280.	4130.0	4000.1	9246.2
#3	107720.	4111.2	4009.8	9269.3

Zoom In Zoom Out

Sample Name: jc78960-2conf Acquired: 12/6/2018 21:34:41 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6022**	**.0010**	**.0061**	**.4310**	**.0479**	**.2646**	**6.526**	**.0742**	**-.0031**
Stddev	.0470	.0008	.0010	.0227	.0007	.0062	.223	.0014	.0041
%RSD	7.805	75.09	16.61	5.258	1.539	2.351	3.419	1.930	132.3
#1	.5547	.0002	.0069	.4058	.0474	.2585	6.299	.0731	-.0078
#2	.6034	.0013	.0050	.4376	.0487	.2643	6.533	.0758	-.0007
#3	.6486	.0016	.0066	.4497	.0475	.2709	6.745	.0736	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0865**	**3.223**	**.0225**	**.0024**	**.5878**	**-.0032**	**.0022**	**6.125**	**129.3**
Stddev	.0039	.161	.0042	.0189	.0245	.0067	.0123	.530	9.1
%RSD	4.532	4.999	18.79	774.7	4.165	211.7	554.3	8.649	7.074
#1	.0825	3.048	.0204	.0012	.5703	.0045	-.0018	5.580	119.5
#2	.0866	3.255	.0197	-.0158	.5773	-.0066	.0161	6.156	130.9
#3	.0903	3.365	.0273	.0219	.6158	-.0075	-.0076	6.638	137.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.91**	**10.53**	**26.17**	**747.7**	**.1566**	**.0262**	**21.28**	**.0117**	**.7983**
Stddev	1.94	1.01	2.18	56.2	.0013	.0036	1.07	.0070	.0665
%RSD	9.276	9.547	8.332	7.520	.8377	13.61	5.046	59.93	8.334
#1	18.98	9.482	23.85	691.1	.1579	.0304	20.10	.0064	.7295
#2	20.90	10.63	26.50	748.5	.1553	.0243	21.54	.0091	.8032
#3	22.86	11.49	28.17	803.5	.1566	.0241	22.21	.0197	.8623

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1598**	**.0356**	**.0138**	**62.69**	**-.0012**	**.0325**	**4.922**
Stddev	.0060	.0072	.0013	3.33	.0087	.0107	.240
%RSD	3.749	20.18	9.723	5.305	708.8	33.05	4.869
#1	.1533	.0428	.0154	59.10	.0085	.0226	4.659
#2	.1610	.0284	.0133	63.30	-.0038	.0310	4.978
#3	.1651	.0355	.0129	65.66	-.0084	.0439	5.128

Zoom In Zoom Out

Sample Name: jc78960-2conf Acquired: 12/6/2018 21:34:41 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 10.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104290.**	**4014.5**	**4041.1**	**9292.7**
Stddev	1399.	3.2	.4	13.6
%RSD	1.3411	.08039	.00870	.14681
#1	102710.	4016.3	4041.1	9289.3
#2	104770.	4016.4	4040.8	9281.0
#3	105380.	4010.8	4041.5	9307.7

Zoom In Zoom Out

Sample Name: jc78969-1 1 Acquired: 12/6/2018 21:40:01 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0826**	**-.0001**	**.0005**	**-.0004**	**.0009**	**.0019**	**.2039**	**.0204**	**.0000**
Stddev	.0005	.0002	.0001	.0013	.0004	.0016	.0028	.0004	.0013
%RSD	.5909	204.5	14.36	298.6	43.42	85.71	1.382	1.958	68830.
#1	.0820	-.0002	.0005	-.0011	.0008	.0005	.2013	.0206	-.0010
#2	.0828	.0001	.0006	.0010	.0013	.0015	.2037	.0199	.0015
#3	.0829	-.0002	.0006	-.0012	.0005	.0037	.2069	.0207	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0030**	**.0109**	**.0055**	**.0012**	**-.0057**	**-.0017**	**.0439**	**126.3**
Stddev	.0009	.0008	.0007	.0070	.0053	.0019	.0029	.0611	1.9
%RSD	41.28	25.22	6.835	126.4	449.4	34.05	172.9	139.1	1.540
#1	.0013	.0024	.0100	-.0013	-.0021	-.0036	.0006	-.0255	124.7
#2	.0022	.0039	.0114	.0127	-.0016	-.0061	-.0050	.0679	125.8
#3	.0031	.0027	.0112	.0052	.0072	-.0073	-.0006	.0894	128.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2353**	**89.43**	**49.03**	**867.2**	**.0507**	**.0112**	**3.758**	**-.0029**	**8.872**
Stddev	.0141	1.39	.96	13.7	.0029	.0002	.074	.0015	.133
%RSD	6.008	1.552	1.950	1.584	5.809	1.756	1.958	51.43	1.497
#1	.2497	88.27	48.07	863.6	.0474	.0111	3.677	-.0040	8.745
#2	.2215	89.04	49.02	855.6	.0514	.0114	3.777	-.0034	8.861
#3	.2347	90.96	49.99	882.4	.0531	.0111	3.821	-.0012	9.010

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0091**	**.0026**	**242.6**	**.0031**	**.0728**	**.0718**
Stddev	.0013	.0030	.0002	4.5	.0025	.0009	.0030
%RSD	26.89	33.02	8.959	1.843	81.70	1.250	4.149
#1	.0051	.0093	.0028	237.6	.0061	.0723	.0695
#2	.0060	.0060	.0026	244.3	.0016	.0724	.0708
#3	.0034	.0120	.0023	246.0	.0016	.0739	.0752

Zoom In Zoom Out

Sample Name: jc78969-1 1 Acquired: 12/6/2018 21:40:01 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103160.**	**4120.6**	**4346.9**	**10030.**
Stddev	34.	15.3	3.8	6.
%RSD	.03252	.37018	.08719	.06391
#1	103150.	4113.3	4345.5	10028.
#2	103200.	4138.2	4351.2	10037.
#3	103140.	4110.4	4344.0	10024.

Zoom In Zoom Out

Sample Name: jc78989-1a Acquired: 12/6/2018 21:45:33 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1736**	**.0001**	**-.0005**	**.0002**	**.0030**	**.0006**	**.0088**	**.0022**	**.0010**
Stddev	.0040	.0001	.0002	.0002	.0005	.0005	.0001	.0002	.0001
%RSD	2.289	163.1	44.65	97.39	17.48	95.24	1.114	7.370	13.60
#1	.1694	.0000	-.0004	.0001	.0032	.0000	.0087	.0020	.0009
#2	.1741	-.0000	-.0003	.0005	.0024	.0005	.0087	.0023	.0011
#3	.1772	.0002	-.0007	.0001	.0034	.0011	.0089	.0022	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0088**	**.0005**	**.0093**	**.0071**	**-.0020**	**.0002**	**.0017**	**1.551**	F **411.1**
Stddev	.0005	.0008	.0001	.0022	.0009	.0006	.0019	.042	8.1
%RSD	5.554	163.5	.9446	31.28	43.34	260.7	111.3	2.676	1.975
#1	.0083	.0002	.0093	.0065	-.0030	.0002	.0012	1.504	403.3
#2	.0088	-.0001	.0093	.0096	-.0015	-.0004	.0001	1.566	410.6
#3	.0093	.0015	.0094	.0053	-.0016	.0009	.0037	1.583	419.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0129**	**4.846**	**24.41**	F **455.0**	**.0820**	**.0923**	**.4777**	**-.0030**	**4.644**
Stddev	.0155	.126	.40	5.4	.0018	.0019	.0078	.0014	.087
%RSD	120.2	2.607	1.630	1.195	2.187	2.096	1.637	45.63	1.881
#1	.0281	4.743	24.01	448.7	.0815	.0903	.4699	-.0041	4.564
#2	.0134	4.808	24.42	457.4	.0804	.0924	.4776	-.0015	4.630
#3	-.0029	4.987	24.80	458.8	.0840	.0942	.4855	-.0034	4.737

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0050**	**.0282**	**.0025**	**190.8**	**.0026**	**.0946**	**.0080**
Stddev	.0003	.0025	.0001	2.9	.0015	.0005	.0016
%RSD	5.357	8.963	3.812	1.527	57.28	.5234	19.99
#1	.0050	.0260	.0025	187.9	.0022	.0949	.0080
#2	.0053	.0277	.0026	190.9	.0013	.0941	.0064
#3	.0048	.0309	.0024	193.7	.0042	.0950	.0096

Zoom In Zoom Out

Sample Name: jc78989-1a Acquired: 12/6/2018 21:45:33 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101530.**	**4199.0**	**4230.4**	**9718.8**
Stddev	512.	7.9	7.8	17.2
%RSD	.50476	.18889	.18478	.17724
#1	101780.	4208.1	4234.1	9733.8
#2	101860.	4193.6	4235.7	9722.6
#3	100940.	4195.4	4221.4	9699.9

Zoom In Zoom Out

Sample Name: mp11064-mb1conf Acquired: 12/6/2018 21:51:06 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0041**	**.0041**	**.0047**	**.0039**	**.0038**	**.0044**	**.0049**	**.0002**
Stddev	.0003	.0001	.0001	.0002	.0003	.0001	.0000	.0002	.0001
%RSD	6.476	1.815	3.007	4.511	6.561	1.907	.6785	4.873	33.78
#1	.0040	.0042	.0040	.0045	.0040	.0037	.0044	.0049	.0002
#2	.0042	.0042	.0041	.0048	.0036	.0038	.0044	.0046	.0003
#3	.0037	.0040	.0042	.0049	.0042	.0039	.0044	.0051	.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0098**	**.0078**	**.0071**	**.0058**	**.0032**	**.0023**	**.0470**	**.0461**
Stddev	.0001	.0001	.0004	.0008	.0007	.0020	.0010	.0081	.0038
%RSD	3.431	1.281	5.463	10.66	12.04	62.99	41.69	17.25	8.279
#1	.0042	.0099	.0077	.0062	.0060	.0056	.0033	.0388	.0502
#2	.0041	.0099	.0082	.0077	.0064	.0022	.0023	.0472	.0427
#3	.0044	.0096	.0074	.0074	.0051	.0019	.0013	.0550	.0455

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0511**	**.0361**	**.0801**	**.1637**	**.0045**	**.0041**	**.0007**	**.0031**	**.0044**
Stddev	.0038	.0265	.0101	.0044	.0006	.0003	.0008	.0003	.0002
%RSD	7.398	73.44	12.57	2.711	12.53	6.359	108.9	11.23	4.176
#1	.0492	.0645	.0814	.1680	.0040	.0039	-.0000	.0035	.0046
#2	.0487	.0120	.0694	.1641	.0051	.0044	.0015	.0028	.0044
#3	.0555	.0319	.0894	.1591	.0045	.0040	.0006	.0030	.0042

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047**	**.0035**	**.0021**	**.0024**	**.0011**	**-.0020**	**.0088**
Stddev	.0001	.0015	.0001	.0020	.0007	.0003	.0007
%RSD	2.667	42.05	3.529	80.15	64.32	17.64	7.928
#1	.0049	.0052	.0020	.0024	.0009	-.0016	.0082
#2	.0046	.0029	.0021	.0044	.0006	-.0021	.0087
#3	.0047	.0025	.0022	.0005	.0020	-.0022	.0096

Zoom In Zoom Out

Sample Name: mp11064-mb1conf Acquired: 12/6/2018 21:51:06 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109350.**	**4251.7**	**4161.6**	**9613.1**
Stddev	703.	20.5	6.6	16.3
%RSD	.64316	.48256	.15740	.16979
#1	110170.	4241.3	4154.1	9595.1
#2	108970.	4275.4	4164.1	9617.3
#3	108920.	4238.5	4166.4	9627.0

Zoom In Zoom Out

Sample Name: mp11064-b1conf Acquired: 12/6/2018 21:56:36 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.097**	**2.036**	**2.081**	**2.056**	**2.061**	**2.012**	**2.087**	**2.080**
Stddev	.002	.003	.003	.004	.010	.004	.015	.005
%RSD	.1062	.1611	.1459	.2032	.4672	.1715	.7384	.2504
#1	2.099	2.039	2.085	2.060	2.066	2.009	2.084	2.085
#2	2.094	2.037	2.080	2.057	2.050	2.013	2.073	2.081
#3	2.097	2.033	2.079	2.052	2.068	2.016	2.103	2.074

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0788**	**2.029**	**2.097**	**2.149**	**2.097**	**2.072**	**2.220**	**2.113**
Stddev	.0003	.007	.009	.004	.003	.008	.007	.004
%RSD	.3205	.3257	.4425	.1663	.1252	.3988	.3347	.2037
#1	.0789	2.031	2.106	2.154	2.098	2.076	2.228	2.116
#2	.0786	2.022	2.098	2.148	2.098	2.077	2.218	2.108
#3	.0791	2.035	2.087	2.147	2.094	2.062	2.214	2.115

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.27**	**25.11**	**24.05**	**23.58**	**27.29**	**27.19**	**2.130**	**2.028**
Stddev	.03	.07	.06	.12	.04	.05	.005	.005
%RSD	.1206	.2885	.2444	.5257	.1399	.1666	.2399	.2602
#1	26.28	25.20	24.12	23.63	27.33	27.24	2.132	2.023
#2	26.28	25.08	24.02	23.67	27.30	27.16	2.124	2.027
#3	26.23	25.07	24.01	23.44	27.25	27.18	2.134	2.034

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0344**	**2.066**	**2.084**	**2.049**	**1.900**	**2.071**	F **-.2254**	**-.0069**
Stddev	.0009	.005	.003	.004	.004	.004	.0035	.0011
%RSD	2.761	.2260	.1295	.2127	.2102	.1867	1.542	15.19
#1	.0337	2.071	2.087	2.050	1.900	2.070	-.2253	-.0075
#2	.0339	2.066	2.081	2.045	1.897	2.068	-.2220	-.0057
#3	.0355	2.062	2.084	2.053	1.905	2.075	-.2290	-.0075

Zoom In Zoom Out

Sample Name: mp11064-b1conf Acquired: 12/6/2018 21:56:36 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0016**	**2.197**
Stddev	.0006	.013
%RSD	39.58	.5958
#1	-.0023	2.207
#2	-.0013	2.182
#3	-.0012	2.202

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106280.**	**4137.4**	**4028.5**	**9412.1**
Stddev	318.	15.9	4.0	4.3
%RSD	.29950	.38440	.09955	.04530
#1	106160.	4123.0	4028.4	9407.5
#2	106640.	4134.5	4032.6	9412.9
#3	106050.	4154.5	4024.6	9415.9

Zoom In Zoom Out

Sample Name: mp11064-s1 Acquired: 12/6/2018 22:01:50 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.397**	**1.382**	**2.093**	**2.159**	**1.746**	**1.692**	**5.627**	**2.274**	**.0578**
Stddev	.118	.112	.152	.148	.112	.107	.357	.158	.0042
%RSD	8.479	8.134	7.264	6.850	6.441	6.345	6.353	6.964	7.349
#1	1.275	1.267	1.939	2.007	1.635	1.585	5.274	2.113	.0532
#2	1.405	1.387	2.096	2.168	1.742	1.692	5.618	2.279	.0587
#3	1.511	1.491	2.243	2.302	1.860	1.799	5.988	2.430	.0616

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.721**	**2.342**	**2.089**	**2.107**	**2.120**	**2.073**	**2.113**	**32.46**	**75.15**
Stddev	.111	.154	.150	.135	.142	.134	.131	2.61	5.90
%RSD	6.462	6.591	7.170	6.409	6.722	6.467	6.203	8.040	7.855
#1	1.609	2.187	1.937	1.961	1.975	1.936	1.984	29.86	69.11
#2	1.722	2.342	2.094	2.132	2.125	2.079	2.110	32.45	75.43
#3	1.831	2.496	2.236	2.227	2.260	2.204	2.246	35.08	80.91

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.69**	**37.33**	**30.64**	**64.47**	**2.497**	**2.177**	**26.78**	**2.103**	**1.570**
Stddev	4.13	3.14	2.48	5.54	.152	.133	1.95	.136	.132
%RSD	7.996	8.405	8.095	8.589	6.074	6.098	7.284	6.443	8.396
#1	47.42	34.25	28.24	58.83	2.346	2.041	24.78	1.964	1.434
#2	51.97	37.23	30.49	64.69	2.497	2.183	26.89	2.110	1.580
#3	55.67	40.52	33.19	69.90	2.649	2.307	28.68	2.235	1.697

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.724**	**1.992**	**1.774**	**248.4**	**-.0059**	**.0861**	**2.148**
Stddev	.110	.126	.101	18.0	.0004	.0047	.151
%RSD	6.354	6.323	5.704	7.231	6.072	5.506	7.034
#1	1.614	1.868	1.674	230.1	-.0056	.0818	1.988
#2	1.724	1.987	1.772	249.1	-.0063	.0912	2.166
#3	1.833	2.120	1.877	266.0	-.0059	.0852	2.289

Zoom In Zoom Out

Sample Name: mp11064-s1 Acquired: 12/6/2018 22:01:50 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106070.**	**4078.1**	**4180.5**	**9706.5**
Stddev	267.	17.9	14.6	17.7
%RSD	.25178	.43914	.34952	.18202
#1	106070.	4057.6	4196.9	9724.7
#2	106340.	4090.6	4175.7	9705.4
#3	105800.	4086.2	4168.9	9689.4

Zoom In Zoom Out

Sample Name: mp11064-s2 Acquired: 12/6/2018 22:06:56 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.357**	**1.325**	**2.139**	**2.217**	**1.826**	**1.764**	**5.961**	**2.333**	**.0588**
Stddev	.173	.169	.139	.144	.097	.109	.338	.150	.0057
%RSD	12.76	12.77	6.516	6.478	5.287	6.199	5.678	6.444	9.631
#1	1.180	1.152	1.999	2.072	1.725	1.650	5.610	2.184	.0527
#2	1.364	1.333	2.139	2.218	1.837	1.773	5.987	2.332	.0596
#3	1.526	1.490	2.278	2.360	1.917	1.868	6.286	2.485	.0639

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.795**	**2.411**	**2.140**	**2.163**	**2.173**	**2.122**	**2.155**	**31.76**	**74.22**
Stddev	.101	.151	.141	.127	.134	.141	.141	4.35	9.44
%RSD	5.643	6.278	6.591	5.869	6.153	6.624	6.551	13.68	12.72
#1	1.691	2.260	1.998	2.035	2.038	1.978	2.011	27.28	64.55
#2	1.802	2.412	2.143	2.167	2.177	2.131	2.160	32.04	74.71
#3	1.893	2.563	2.280	2.288	2.305	2.258	2.293	35.96	83.41

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.35**	**36.64**	**29.65**	**62.72**	**2.563**	**2.179**	**28.04**	**2.142**	**1.534**
Stddev	6.54	4.74	3.29	7.47	.172	.137	1.88	.140	.194
%RSD	12.73	12.92	11.08	11.90	6.701	6.276	6.708	6.550	12.63
#1	44.64	31.83	26.23	55.07	2.391	2.040	26.15	1.999	1.336
#2	51.69	36.81	29.92	63.09	2.562	2.182	28.04	2.148	1.542
#3	57.70	41.30	32.79	69.99	2.735	2.314	29.91	2.280	1.723

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.804**	**2.043**	**1.817**	**262.1**	**-.0047**	**.0826**	**2.201**
Stddev	.102	.126	.106	17.3	.0056	.0094	.154
%RSD	5.639	6.160	5.824	6.590	118.2	11.35	6.976
#1	1.700	1.916	1.706	244.8	.0017	.0722	2.041
#2	1.810	2.046	1.827	262.2	-.0077	.0855	2.213
#3	1.903	2.168	1.917	279.3	-.0082	.0903	2.348

Zoom In Zoom Out

Sample Name: mp11064-s2 Acquired: 12/6/2018 22:06:56 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106530.**	**4170.4**	**4173.8**	**9663.1**
Stddev	447.	24.1	12.7	39.5
%RSD	.41937	.57715	.30439	.40872
#1	106040.	4166.3	4161.7	9631.4
#2	106640.	4148.6	4172.7	9650.7
#3	106910.	4196.2	4187.1	9707.4

Zoom In Zoom Out

Sample Name: ccv 7 Acquired: 12/6/2018 22:12:02 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.109**	**2.013**	**1.979**	**2.010**	**2.029**	**2.010**	**2.051**	**2.012**	**.2475**
Stddev	.003	.003	.009	.007	.017	.020	.021	.008	.0022
%RSD	.1246	.1427	.4274	.3308	.8196	.9819	1.048	.3821	.8965
#1	2.110	2.010	1.984	2.016	2.016	2.001	2.042	2.020	.2464
#2	2.106	2.014	1.969	2.003	2.024	1.996	2.036	2.005	.2461
#3	2.110	2.015	1.984	2.011	2.048	2.033	2.076	2.012	.2501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.012**	**1.964**	**1.945**	**2.058**	**2.023**	**1.905**	**2.002**	**41.08**	**39.68**
Stddev	.017	.009	.008	.001	.007	.007	.010	.13	.06
%RSD	.8454	.4498	.4004	.0504	.3364	.3889	.4911	.3147	.1400
#1	2.001	1.973	1.951	2.059	2.030	1.910	2.005	40.97	39.66
#2	2.002	1.956	1.936	2.057	2.017	1.897	1.990	41.05	39.63
#3	2.031	1.964	1.947	2.059	2.021	1.909	2.009	41.22	39.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.05**	**37.71**	**42.81**	**42.55**	**1.960**	**2.048**	**5.083**	**2.011**	**2.094**
Stddev	.06	.12	.04	.06	.007	.008	.021	.010	.003
%RSD	.1472	.3190	.0967	.1325	.3472	.3906	.4237	.5165	.1361
#1	37.99	37.59	42.82	42.49	1.959	2.054	5.094	2.021	2.092
#2	38.04	37.70	42.77	42.57	1.954	2.039	5.059	2.000	2.092
#3	38.10	37.83	42.85	42.60	1.967	2.051	5.097	2.011	2.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv 7 Acquired: 12/6/2018 22:12:02 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.037**	**2.023**	**2.088**	**1.891**	**1.983**	F **2.207**	**1.912**
Stddev	.017	.007	.014	.005	.009	.002	.006
%RSD	.8298	.3257	.6770	.2900	.4558	.1026	.3100
#1	2.027	2.027	2.082	1.895	1.986	2.204	1.917
#2	2.027	2.016	2.077	1.884	1.973	2.208	1.905
#3	2.056	2.027	2.104	1.892	1.991	2.208	1.914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2.000	
Range						10.00%	

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105260.**	**4108.6**	**4290.3**	**10007.**
Stddev	911.	3.7	14.4	25.
%RSD	.86571	.08972	.33645	.25461
#1	105850.	4112.9	4284.7	9990.5
#2	105720.	4106.4	4306.7	10036.
#3	104210.	4106.6	4279.6	9993.7

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 22:17:15 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0000**	**.0002**	**-.0000**	**.0001**	**-.0006**	**.0000**	**.0003**	**-.0004**
Stddev	.0003	.0000	.0001	.0002	.0001	.0003	.0000	.0002	.0002
%RSD	420.2	123.3	30.66	3092.	170.1	44.86	14.27	56.35	52.29
#1	-.0001	.0000	.0003	.0003	.0003	-.0003	.0000	.0005	-.0006
#2	-.0003	-.0000	.0001	-.0002	-.0000	-.0006	.0000	.0001	-.0003
#3	.0002	-.0001	.0002	-.0001	.0000	-.0008	.0000	.0004	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0001**	**.0008**	**.0017**	**.0007**	**.0006**	**-.0001**	**.0026**	**-.0047**
Stddev	.0001	.0001	.0006	.0016	.0007	.0012	.0009	.0087	.0019
%RSD	37.54	208.6	71.70	93.43	99.25	205.7	1265.	329.4	41.05
#1	.0001	.0002	.0007	.0010	.0000	.0011	.0009	.0105	-.0068
#2	.0003	.0001	.0014	.0035	.0007	.0015	-.0009	.0041	-.0030
#3	.0003	-.0001	.0003	.0006	.0013	-.0008	-.0003	-.0067	-.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**-.0066**	**.0433**	**.0496**	**.0035**	F **.0040**	**.0008**	**-.0003**	**.0001**
Stddev	.0017	.0325	.0127	.0024	.0004	.0002	.0004	.0003	.0001
%RSD	90.80	491.9	29.22	4.760	10.62	4.756	50.25	103.2	105.5
#1	.0006	-.0281	.0487	.0505	.0038	.0040	.0006	-.0002	.0001
#2	.0011	.0308	.0524	.0514	.0036	.0041	.0005	-.0007	.0002
#3	.0037	-.0225	.0289	.0469	.0031	.0038	.0013	-.0000	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 22:17:15 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0047**	**.0001**	**-.0012**	**-.0001**	**-.0000**	**.0021**
Stddev	.0002	.0011	.0000	.0013	.0009	.0007	.0004
%RSD	150.4	23.71	28.74	103.9	1385.	2277.	19.04
#1	-.0001	.0053	.0001	-.0021	-.0010	.0004	.0019
#2	-.0003	.0053	.0002	.0002	.0009	.0004	.0025
#3	.0000	.0034	.0002	-.0019	-.0001	-.0009	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107300.**	**4296.6**	**4114.2**	**9503.8**
Stddev	1239.	8.6	25.1	50.8
%RSD	1.1545	.20116	.60946	.53410
#1	105990.	4302.3	4137.1	9550.6
#2	107470.	4300.8	4087.4	9449.9
#3	108450.	4286.7	4118.1	9510.9

Zoom In Zoom Out

Sample Name: jc79015-1 1 Acquired: 12/6/2018 22:22:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0120**	**.0040**	**.0013**	**.0521**	**.0077**	**.0257**	**4.477**	**.1423**	**-.0063**
Stddev	.0029	.0010	.0006	.0028	.0006	.0030	.211	.0052	.0012
%RSD	23.83	24.04	44.23	5.465	7.605	11.58	4.715	3.668	18.51
#1	.0087	.0030	.0015	.0500	.0070	.0229	4.242	.1374	-.0077
#2	.0141	.0041	.0006	.0509	.0082	.0254	4.538	.1418	-.0059
#3	.0132	.0049	.0017	.0553	.0079	.0288	4.650	.1478	-.0054

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109**	**.2544**	**.0058**	**.0175**	**-.0048**	**-.0026**	**.0029**	**16.52**	**63.67**
Stddev	.0005	.0119	.0033	.0101	.0032	.0085	.0015	2.46	8.35
%RSD	4.832	4.676	56.31	57.52	66.70	321.8	52.13	14.91	13.12
#1	.0104	.2426	.0079	.0067	-.0036	-.0071	.0020	13.97	55.01
#2	.0115	.2543	.0020	.0192	-.0024	-.0079	.0020	16.71	64.32
#3	.0109	.2664	.0075	.0266	-.0084	.0071	.0047	18.88	71.67

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.35**	**23.41**	**13.77**	**49.86**	**.4223**	**.0071**	**28.47**	**-.0066**	**.1976**
Stddev	5.60	3.19	1.51	6.33	.0222	.0016	1.44	.0010	.0256
%RSD	14.23	13.65	10.97	12.70	5.249	22.21	5.068	15.03	12.95
#1	33.59	20.11	12.22	43.44	.4009	.0089	27.05	-.0055	.1707
#2	39.70	23.62	13.84	50.06	.4210	.0059	28.41	-.0067	.2003
#3	44.77	26.49	15.24	56.09	.4452	.0065	29.94	-.0074	.2217

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0155**	**.0004**	**254.5**	**.0000**	**.0969**	**.0540**
Stddev	.0013	.0022	.0002	12.9	.0049	.0132	.0023
%RSD	39.88	13.87	48.30	5.072	10850.	13.66	4.186
#1	.0047	.0180	.0006	241.9	.0044	.0833	.0514
#2	.0026	.0148	.0002	253.9	-.0052	.0977	.0558
#3	.0025	.0139	.0004	267.7	.0009	.1097	.0547

Zoom In Zoom Out

Sample Name: jc79015-1 1 Acquired: 12/6/2018 22:22:48 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107180.**	**4120.6**	**4470.8**	**10426.**
Stddev	766.	8.6	12.4	34.
%RSD	.71445	.20911	.27703	.32984
#1	107070.	4127.0	4456.5	10386.
#2	106480.	4123.9	4478.8	10442.
#3	108000.	4110.8	4477.0	10450.

Zoom In Zoom Out

Sample Name: mp11064-sd1 Acquired: 12/6/2018 22:28:10 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0223**	**.0073**	**.0057**	**.0585**	**.0039**	**.0537**	**6.100**	**.1685**	**-.0061**
Stddev	.0094	.0021	.0060	.0046	.0013	.0061	.046	.0019	.0028
%RSD	41.95	29.13	105.4	7.855	33.88	11.32	.7588	1.154	46.38
#1	.0126	.0082	-.0012	.0611	.0055	.0607	6.147	.1675	-.0094
#2	.0231	.0088	.0087	.0532	.0031	.0499	6.098	.1672	-.0048
#3	.0313	.0049	.0096	.0613	.0032	.0504	6.054	.1707	-.0042

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0175**	**.3564**	**.0158**	**.0038**	**.0119**	**-.0194**	**.0019**	**28.82**	**116.0**
Stddev	.0034	.0017	.0318	.0254	.0142	.0237	.0317	.50	.5
%RSD	19.24	.4791	201.2	667.0	120.0	122.1	1635.	1.731	.4271
#1	.0194	.3548	.0480	.0217	.0019	-.0448	.0385	29.25	116.2
#2	.0136	.3582	-.0156	.0150	.0056	-.0155	-.0147	28.27	115.4
#3	.0195	.3561	.0150	-.0253	.0282	.0021	-.0179	28.93	116.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**70.19**	**41.46**	**25.18**	**90.38**	**.5260**	**.0300**	**33.67**	**-.0068**	**.3796**
Stddev	.17	.79	.59	.07	.0138	.0053	.04	.0233	.0028
%RSD	.2357	1.914	2.340	.0764	2.619	17.65	.1056	342.9	.7397
#1	70.32	41.25	24.65	90.31	.5160	.0290	33.63	.0100	.3805
#2	70.24	40.80	25.08	90.39	.5203	.0357	33.68	.0030	.3765
#3	70.00	42.34	25.81	90.45	.5417	.0252	33.70	-.0334	.3819

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0655**	**.0042**	**311.6**	**-.0057**	**.1481**	**.1181**
Stddev	.0052	.0072	.0014	.2	.0014	.0288	.0193
%RSD	381.7	11.04	33.21	.0550	23.84	19.44	16.32
#1	-.0042	.0702	.0043	311.8	-.0043	.1175	.1397
#2	.0062	.0692	.0027	311.4	-.0060	.1746	.1026
#3	.0021	.0572	.0055	311.6	-.0070	.1522	.1120

Zoom In Zoom Out

Sample Name: mp11064-sd1 Acquired: 12/6/2018 22:28:10 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106720.**	**4217.0**	**4211.5**	**9746.2**
Stddev	760.	16.0	3.0	8.1
%RSD	.71176	.37975	.07185	.08348
#1	106020.	4211.0	4208.0	9737.9
#2	106610.	4235.1	4213.3	9754.2
#3	107530.	4204.8	4213.2	9746.4

Zoom In Zoom Out

Sample Name: mp11070-mb1 7 Acquired: 12/6/2018 22:33:36 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**.0002**	**.0001**	**.0011**	**.0004**	**.0002**	**.0007**	**-.0003**
Stddev	.0004	.0001	.0002	.0002	.0000	.0001	.0000	.0003	.0002
%RSD	185.4	432.4	65.52	162.9	1.545	40.79	19.03	40.26	75.70
#1	-.0003	.0000	.0001	.0001	.0011	.0004	.0003	.0010	-.0006
#2	.0005	.0001	.0003	-.0001	.0011	.0005	.0002	.0007	-.0003
#3	.0004	-.0001	.0004	.0003	.0011	.0002	.0003	.0005	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0034**	**-.0009**	**-.0018**	**.0004**	**.0015**	**.0007**	**.0132**	**.0700**
Stddev	.0001	.0002	.0007	.0009	.0006	.0011	.0002	.0068	.0022
%RSD	56.35	5.392	79.29	52.29	140.0	70.75	32.92	52.00	3.172
#1	.0002	.0033	-.0002	-.0009	.0011	.0024	.0007	.0149	.0722
#2	.0003	.0036	-.0010	-.0027	.0002	.0019	.0004	.0190	.0678
#3	.0001	.0033	-.0016	-.0017	-.0000	.0003	.0008	.0056	.0701

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0199**	**.0136**	**.0213**	**.0783**	**.0023**	**.0013**	**.0086**	**.0189**	**.0002**
Stddev	.0010	.0247	.0026	.0040	.0007	.0001	.0008	.0006	.0001
%RSD	5.137	181.9	11.97	5.170	28.85	3.936	8.947	3.069	24.90
#1	.0187	.0195	.0221	.0777	.0029	.0014	.0093	.0191	.0002
#2	.0205	-.0135	.0234	.0746	.0023	.0013	.0078	.0183	.0003
#3	.0204	.0349	.0185	.0826	.0016	.0013	.0088	.0194	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0026**	**.0006**	**.0119**	**-.0011**	**-.0019**	**.0223**
Stddev	.0002	.0008	.0000	.0009	.0009	.0009	.0005
%RSD	32.19	31.20	1.370	7.704	80.66	46.25	2.331
#1	.0007	.0027	.0006	.0109	-.0001	-.0020	.0229
#2	.0007	.0034	.0006	.0119	-.0020	-.0027	.0220
#3	.0004	.0018	.0006	.0128	-.0013	-.0010	.0221

Zoom In Zoom Out

Sample Name: mp11070-mb1 7 Acquired: 12/6/2018 22:33:36 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107960.**	**4104.7**	**4435.6**	**10412.**
Stddev	318.	5.5	2.0	10.
%RSD	.29420	.13514	.04469	.09528
#1	107980.	4098.4	4434.3	10414.
#2	107640.	4106.8	4434.6	10401.
#3	108270.	4108.9	4437.9	10421.

Zoom In Zoom Out

Sample Name: mp11070-b1 Acquired: 12/6/2018 22:39:06 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.114**	**2.035**	**1.949**	**1.996**	**2.043**	**2.002**	**2.060**	**1.995**
Stddev	.019	.021	.016	.013	.010	.007	.012	.014
%RSD	.8795	1.030	.8008	.6452	.4914	.3332	.5950	.6761
#1	2.103	2.023	1.931	1.982	2.032	1.994	2.049	1.980
#2	2.102	2.024	1.958	2.004	2.044	2.004	2.057	2.004
#3	2.135	2.060	1.958	2.004	2.052	2.007	2.073	2.002

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2448**	**2.013**	**1.952**	**1.902**	**2.031**	**1.997**	**1.839**	**1.965**
Stddev	.0013	.009	.012	.018	.019	.015	.017	.018
%RSD	.5369	.4574	.5940	.9511	.9271	.7448	.8960	.9323
#1	.2435	2.003	1.939	1.881	2.009	1.980	1.820	1.944
#2	.2449	2.015	1.962	1.911	2.042	2.004	1.849	1.975
#3	.2461	2.021	1.955	1.913	2.041	2.007	1.847	1.976

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.02**	**25.36**	**24.22**	**23.58**	**26.91**	**26.93**	**1.875**	**2.046**
Stddev	.26	.32	.28	.27	.29	.26	.017	.015
%RSD	1.012	1.276	1.162	1.138	1.094	.9694	.8902	.7512
#1	25.86	25.19	24.04	23.46	26.71	26.79	1.856	2.029
#2	25.87	25.16	24.07	23.39	26.77	26.77	1.883	2.056
#3	26.32	25.73	24.54	23.88	27.25	27.23	1.886	2.055

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1172**	**2.017**	**2.099**	**2.043**	**1.989**	**2.061**	F **-.2207**	**-.0099**
Stddev	.0015	.017	.018	.010	.019	.009	.0023	.0009
%RSD	1.315	.8622	.8731	.4878	.9539	.4388	1.034	9.293
#1	.1155	1.997	2.089	2.033	1.968	2.051	-.2181	-.0110
#2	.1185	2.029	2.087	2.044	2.002	2.062	-.2213	-.0094
#3	.1176	2.024	2.120	2.053	1.998	2.069	-.2225	-.0094

Zoom In Zoom Out

Sample Name: mp11070-b1 Acquired: 12/6/2018 22:39:06 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0011**	**1.911**
Stddev	.0008	.023
%RSD	73.47	1.204
#1	-.0019	1.885
#2	-.0003	1.921
#3	-.0010	1.928

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106150.**	**4075.9**	**4343.2**	**10180.**
Stddev	421.	52.8	32.2	68.
%RSD	.39696	1.2961	.74056	.66418
#1	106590.	4104.8	4380.3	10258.
#2	106130.	4107.9	4325.9	10146.
#3	105750.	4014.9	4323.4	10137.

Zoom In Zoom Out

Sample Name: mp11070-s1 Acquired: 12/6/2018 22:44:19 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.361**	**1.928**	**1.931**	**1.944**	**3.036**	F **11.89**	**3.430**	**2.107**	**.2194**
Stddev	.004	.003	.007	.008	.040	.15	.040	.005	.0033
%RSD	.0796	.1322	.3869	.4111	1.332	1.264	1.171	.2308	1.503
#1	4.360	1.928	1.923	1.935	3.017	11.83	3.410	2.102	.2187
#2	4.365	1.930	1.938	1.949	3.008	11.77	3.404	2.110	.2165
#3	4.358	1.925	1.933	1.949	3.082	12.06	3.476	2.110	.2230

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.106**	**5.029**	**2.004**	**1.901**	F **16.37**	**1.902**	**1.518**	**96.46**	**68.72**
Stddev	.029	.012	.012	.014	.05	.006	.008	.09	.18
%RSD	1.369	.2436	.6173	.7083	.2859	.3029	.5516	.0956	.2626
#1	2.093	5.018	1.990	1.885	16.31	1.898	1.509	96.40	68.86
#2	2.087	5.042	2.012	1.907	16.40	1.909	1.525	96.57	68.52
#3	2.139	5.026	2.011	1.910	16.38	1.900	1.520	96.42	68.78

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**144.0**	**30.70**	**40.86**	**27.59**	**1.877**	**1.923**	**4.444**	**2.278**	**2.739**
Stddev	.2	.10	.03	.03	.008	.009	.026	.006	.002
%RSD	.1387	.3361	.0768	.1060	.4283	.4631	.5926	.2760	.0539
#1	144.2	30.82	40.90	27.58	1.868	1.913	4.415	2.270	2.738
#2	143.8	30.61	40.84	27.62	1.884	1.930	4.465	2.282	2.741
#3	143.9	30.68	40.85	27.56	1.879	1.924	4.454	2.280	2.738

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.940**	**1.592**	**1.672**	**4.025**	**.0102**	**.1060**	F **9.654**
Stddev	.041	.007	.023	.015	.0009	.0007	.040
%RSD	1.398	.4697	1.366	.3653	8.684	.6574	.4154
#1	2.921	1.584	1.662	4.009	.0093	.1057	9.609
#2	2.912	1.599	1.656	4.038	.0102	.1068	9.686
#3	2.988	1.593	1.698	4.029	.0111	.1056	9.668

Zoom In Zoom Out

Sample Name: mp11070-s1 Acquired: 12/6/2018 22:44:19 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105980.**	**4093.3**	**4089.1**	**9563.8**
Stddev	1381.	8.7	17.3	29.0
%RSD	1.3029	.21164	.42226	.30357
#1	106620.	4084.0	4107.7	9596.4
#2	106930.	4101.1	4073.6	9540.6
#3	104400.	4095.0	4086.0	9554.5

Zoom In Zoom Out

Sample Name: mp11070-s2 Acquired: 12/6/2018 22:49:37 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.425**	**1.930**	**1.889**	**1.916**	**3.002**	F **8.954**	**3.187**	**2.046**	**.2163**
Stddev	.011	.004	.002	.004	.001	.010	.009	.005	.0009
%RSD	.2417	.2008	.1144	.2308	.0268	.1084	.2700	.2613	.4110
#1	4.419	1.932	1.890	1.919	3.002	8.943	3.191	2.050	.2153
#2	4.418	1.926	1.890	1.919	3.002	8.962	3.178	2.049	.2164
#3	4.437	1.933	1.886	1.911	3.003	8.956	3.194	2.040	.2171

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.079**	**4.743**	**1.898**	**1.912**	F **20.14**	**1.823**	**1.483**	**95.77**	**68.02**
Stddev	.005	.018	.004	.003	.06	.003	.001	.14	.18
%RSD	.2500	.3681	.2177	.1335	.2785	.1880	.0647	.1413	.2594
#1	2.073	4.757	1.900	1.915	20.19	1.821	1.483	95.71	68.18
#2	2.083	4.750	1.902	1.912	20.15	1.827	1.482	95.67	68.04
#3	2.082	4.724	1.894	1.910	20.08	1.822	1.483	95.92	67.83

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**119.7**	**30.87**	**40.96**	**27.53**	**1.792**	**1.914**	**3.995**	**2.284**	**2.689**
Stddev	.2	.22	.06	.06	.004	.003	.014	.006	.009
%RSD	.1328	.7081	.1409	.2253	.2068	.1659	.3444	.2623	.3167
#1	119.9	31.06	40.96	27.51	1.794	1.915	4.008	2.289	2.687
#2	119.6	30.91	40.91	27.47	1.795	1.916	3.996	2.286	2.681
#3	119.6	30.63	41.02	27.60	1.788	1.910	3.981	2.277	2.698

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.822**	**1.616**	**1.665**	**3.996**	**.0105**	**.1104**	F **8.546**
Stddev	.009	.008	.006	.012	.0007	.0006	.015
%RSD	.3049	.4814	.3656	.2944	7.161	.5218	.1780
#1	2.813	1.623	1.658	4.003	.0106	.1098	8.556
#2	2.830	1.618	1.670	4.002	.0111	.1109	8.555
#3	2.824	1.608	1.667	3.982	.0097	.1106	8.529

Zoom In Zoom Out

Sample Name: mp11070-s2 Acquired: 12/6/2018 22:49:37 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107180.**	**4132.0**	**4278.6**	**9996.5**
Stddev	114.	17.9	5.4	17.2
%RSD	.10620	.43382	.12581	.17163
#1	107310.	4112.3	4276.8	9985.8
#2	107130.	4136.3	4274.4	9987.4
#3	107100.	4147.3	4284.7	10016.

Zoom In Zoom Out

Sample Name: jc78941-1 Acquired: 12/6/2018 22:54:56 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.035**	**.0043**	**.0163**	**.0381**	**1.044**	**7.332**	**1.318**	**.1662**
Stddev	.006	.0000	.0002	.0001	.007	.078	.007	.0012
%RSD	.2878	.3629	.9569	.2143	.6753	1.063	.5127	.7241
#1	2.041	.0043	.0164	.0382	1.046	7.381	1.320	.1654
#2	2.030	.0043	.0165	.0380	1.037	7.242	1.310	.1675
#3	2.033	.0043	.0162	.0381	1.050	7.372	1.323	.1655

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0151**	**.2110**	**3.147**	**.0690**	**-.0020**	F **15.50**	**.0124**	**.0379**
Stddev	.0002	.0014	.037	.0019	.0007	.16	.0011	.0006
%RSD	1.180	.6816	1.192	2.717	38.30	1.014	9.290	1.496
#1	-.0151	.2112	3.141	.0670	-.0025	15.45	.0127	.0375
#2	-.0152	.2095	3.188	.0707	-.0022	15.68	.0111	.0376
#3	-.0149	.2124	3.114	.0692	-.0011	15.38	.0133	.0385

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**44.52**	**42.10**	**130.9**	**8.576**	**11.61**	**1.016**	**.0770**	**.0260**
Stddev	.16	.22	.7	.061	.05	.005	.0011	.0006
%RSD	.3621	.5120	.5141	.7064	.4708	.4648	1.434	2.426
#1	44.71	42.35	131.7	8.634	11.66	1.016	.0782	.0266
#2	44.43	41.95	130.4	8.513	11.55	1.020	.0768	.0260
#3	44.43	42.01	130.6	8.582	11.62	1.011	.0760	.0254

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.197**	**.4970**	**.5905**	**.9123**	**.0096**	**.0287**	**4.538**	**.0191**
Stddev	.028	.0059	.0017	.0052	.0005	.0017	.050	.0008
%RSD	.8694	1.179	.2957	.5722	5.746	5.799	1.091	4.090
#1	3.193	.4967	.5924	.9123	.0090	.0306	4.542	.0182
#2	3.227	.5030	.5892	.9071	.0101	.0282	4.586	.0194
#3	3.172	.4913	.5898	.9176	.0095	.0275	4.487	.0197

Zoom In Zoom Out

Sample Name: jc78941-1 Acquired: 12/6/2018 22:54:56 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0806**	**7.040**
Stddev	.0012	.078
%RSD	1.427	1.110
#1	.0819	7.032
#2	.0797	7.122
#3	.0802	6.967

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109330.**	**4190.5**	**4011.3**	**9399.8**
Stddev	807.	26.4	28.6	64.1
%RSD	.73809	.63090	.71354	.68221
#1	109230.	4160.0	4011.4	9416.8
#2	110180.	4207.4	3982.6	9328.9
#3	108580.	4204.1	4039.8	9453.7

Zoom In Zoom Out

Sample Name: mp11070-sd1 Acquired: 12/6/2018 23:00:17 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.024**	**.0043**	**.0161**	**.0372**	**1.096**	**7.400**	**1.388**	**.1665**	**-.0152**
Stddev	.007	.0001	.0006	.0005	.008	.059	.009	.0013	.0004
%RSD	.3394	1.748	3.537	1.431	.7099	.7982	.6249	.7870	2.749
#1	2.029	.0043	.0154	.0375	1.101	7.447	1.394	.1678	-.0151
#2	2.016	.0043	.0162	.0366	1.100	7.420	1.391	.1652	-.0148
#3	2.026	.0044	.0165	.0376	1.087	7.334	1.378	.1665	-.0156

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2190**	**3.069**	**.0641**	**.0002**	**15.25**	**.0112**	**.0322**	**45.64**	**43.66**
Stddev	.0005	.005	.0036	.0027	.01	.0006	.0008	.21	.03
%RSD	.2375	.1619	5.579	1195.	.0939	5.618	2.475	.4649	.0744
#1	.2192	3.075	.0652	.0033	15.27	.0116	.0326	45.85	43.70
#2	.2194	3.066	.0601	-.0009	15.24	.0116	.0313	45.43	43.66
#3	.2184	3.066	.0670	-.0017	15.25	.0105	.0328	45.65	43.64

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**135.2**	**8.779**	**11.51**	**1.091**	**.0804**	**.0297**	**3.115**	**.4921**	**.6022**
Stddev	.3	.307	.20	.030	.0009	.0010	.011	.0044	.0026
%RSD	.2502	3.494	1.716	2.765	1.168	3.379	.3558	.8877	.4248
#1	135.5	9.118	11.74	1.109	.0815	.0299	3.124	.4963	.6013
#2	134.8	8.520	11.44	1.109	.0800	.0286	3.103	.4924	.6051
#3	135.1	8.700	11.36	1.057	.0798	.0306	3.119	.4876	.6002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9524**	**.0180**	**.0218**	**3.993**	**.0210**	**.0791**	**6.602**
Stddev	.0019	.0020	.0003	.010	.0016	.0067	.020
%RSD	.1982	10.92	1.460	.2432	7.785	8.418	.3018
#1	.9546	.0167	.0220	3.996	.0229	.0735	6.624
#2	.9512	.0171	.0219	3.982	.0202	.0865	6.588
#3	.9513	.0203	.0214	4.001	.0199	.0774	6.592

Zoom In Zoom Out

Sample Name: mp11070-sd1 Acquired: 12/6/2018 23:00:17 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109030.**	**4080.9**	**4463.9**	**10453.**
Stddev	790.	4.8	7.3	13.
%RSD	.72454	.11747	.16395	.12517
#1	108530.	4076.9	4455.8	10439.
#2	108610.	4086.2	4470.0	10465.
#3	109940.	4079.4	4466.0	10455.

Zoom In Zoom Out

Sample Name: jc78619-2 Acquired: 12/6/2018 23:05:34 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4165**	**.0001**	**.0008**	**.0029**	**.0141**	**.0661**	**.0856**	**.0085**	**.0016**
Stddev	.0008	.0000	.0001	.0000	.0003	.0005	.0003	.0003	.0002
%RSD	.1989	2.699	12.23	.8851	2.469	.7073	.3512	3.541	11.83
#1	.4170	.0001	.0008	.0029	.0145	.0658	.0857	.0087	.0017
#2	.4155	.0001	.0009	.0029	.0138	.0667	.0859	.0087	.0016
#3	.4168	.0001	.0007	.0029	.0140	.0660	.0853	.0082	.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**3.133**	**.0003**	**-.0008**	**.0466**	**.0020**	**.0050**	**3.370**	**9.868**
Stddev	.0002	.006	.0012	.0006	.0006	.0007	.0008	.004	.033
%RSD	2.509	.1787	431.3	72.73	1.292	37.57	15.97	.1296	.3371
#1	.0062	3.130	.0007	-.0001	.0471	.0019	.0043	3.373	9.905
#2	.0059	3.140	.0013	-.0011	.0459	.0027	.0059	3.365	9.841
#3	.0060	3.130	-.0011	-.0013	.0467	.0013	.0050	3.372	9.859

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.340**	**.9153**	**1.132**	**.2936**	**.0305**	**.0108**	**2.844**	**.0295**	**.0179**
Stddev	.012	.0445	.032	.0078	.0004	.0003	.009	.0006	.0002
%RSD	.2717	4.864	2.812	2.654	1.251	2.982	.3126	2.183	1.183
#1	4.353	.9463	1.163	.2994	.0306	.0104	2.850	.0301	.0181
#2	4.337	.8643	1.134	.2967	.0308	.0108	2.849	.0289	.0178
#3	4.330	.9352	1.099	.2848	.0301	.0111	2.834	.0293	.0177

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0372**	**.0007**	**.0052**	**9.845**	**-.0012**	**.0045**	**2.102**
Stddev	.0004	.0002	.0001	.016	.0009	.0001	.001
%RSD	1.170	32.16	1.889	.1656	73.99	2.579	.0593
#1	.0370	.0010	.0053	9.849	-.0003	.0044	2.102
#2	.0368	.0006	.0052	9.858	-.0012	.0045	2.101
#3	.0377	.0006	.0051	9.827	-.0021	.0046	2.103

Zoom In / Zoom Out

Sample Name: jc78619-2 Acquired: 12/6/2018 23:05:34 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106640.**	**4090.1**	**4413.7**	**10371.**
Stddev	633.	13.6	10.0	31.
%RSD	.59340	.33349	.22711	.30361
#1	106640.	4075.0	4416.3	10385.
#2	106000.	4093.8	4402.6	10335.
#3	107270.	4101.6	4422.1	10392.

Zoom In / Zoom Out

Sample Name: jc78982-1 Acquired: 12/6/2018 23:10:56 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3333**	**.0027**	**.0006**	**.0454**	**.0695**	**.5489**	**4.805**	**.1980**	**.0048**
Stddev	.0011	.0000	.0001	.0002	.0004	.0030	.007	.0007	.0004
%RSD	.3327	1.276	16.15	.4524	.6106	.5550	.1497	.3395	7.359
#1	.3330	.0026	.0006	.0456	.0700	.5518	4.809	.1982	.0044
#2	.3345	.0027	.0007	.0452	.0692	.5490	4.810	.1986	.0048
#3	.3324	.0027	.0005	.0454	.0694	.5457	4.797	.1973	.0051

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0969**	**.3832**	**.0360**	**.0066**	**.1070**	**.0054**	**.0077**	**48.93**	F **1474.**
Stddev	.0007	.0009	.0005	.0014	.0020	.0005	.0005	.03	9.
%RSD	.6746	.2372	1.301	21.30	1.823	10.23	6.129	.0703	.6125
#1	.0977	.3835	.0355	.0075	.1079	.0053	.0082	48.89	1466.
#2	.0966	.3839	.0364	.0073	.1083	.0059	.0078	48.96	1472.
#3	.0965	.3821	.0362	.0050	.1047	.0048	.0072	48.93	1484.

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**92.37**	**85.61**	**16.07**	**1.102**	**.1044**	**.0059**	**11.47**	**.0318**	**1.261**
Stddev	.39	.17	.02	.011	.0016	.0002	.02	.0003	.001
%RSD	.4221	.2001	.1429	1.037	1.565	3.238	.2174	.8924	.0525
#1	91.93	85.43	16.05	1.102	.1031	.0057	11.49	.0315	1.261
#2	92.48	85.64	16.09	1.113	.1062	.0061	11.48	.0318	1.262
#3	92.69	85.77	16.09	1.090	.1038	.0059	11.44	.0320	1.261

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3892**	**.0055**	**.0257**	**5.488**	**.0013**	**.1342**	**3.096**
Stddev	.0012	.0007	.0004	.087	.0014	.0005	.007
%RSD	.3014	13.47	1.434	1.595	111.3	.3926	.2150
#1	.3903	.0063	.0261	5.525	.0029	.1345	3.102
#2	.3892	.0054	.0255	5.551	.0005	.1345	3.097
#3	.3880	.0048	.0254	5.388	.0004	.1336	3.089

Zoom In / Zoom Out

Sample Name: jc78982-1 Acquired: 12/6/2018 23:10:56 Type: Unk
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99230.**	**4059.7**	**3773.8**	**8529.6**
Stddev	330.	8.0	7.4	13.7
%RSD	.33239	.19591	.19536	.16108
#1	98853.	4067.4	3769.3	8521.9
#2	99466.	4060.2	3769.7	8521.5
#3	99371.	4051.5	3782.3	8545.5

Zoom In / Zoom Out

Sample Name: ccv Acquired: 12/6/2018 23:16:28 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.115**	**2.033**	**1.974**	**1.998**	**2.030**	**2.030**	**2.051**	**2.000**	**.2490**
Stddev	.003	.002	.002	.003	.021	.022	.022	.002	.0021
%RSD	.1166	.0778	.1166	.1672	1.016	1.088	1.057	.0776	.8534
#1	2.114	2.031	1.973	1.994	2.051	2.053	2.073	1.999	.2511
#2	2.113	2.034	1.977	2.000	2.030	2.029	2.050	2.002	.2490
#3	2.118	2.033	1.972	1.999	2.010	2.009	2.030	1.999	.2469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.017**	**1.942**	**1.945**	**2.043**	**2.007**	**1.909**	**2.005**	**41.30**	**39.46**
Stddev	.020	.003	.003	.001	.005	.003	.005	.05	.11
%RSD	.9781	.1588	.1359	.0631	.2664	.1789	.2415	.1101	.2816
#1	2.036	1.946	1.943	2.042	2.005	1.906	2.006	41.26	39.57
#2	2.018	1.941	1.948	2.044	2.012	1.913	2.010	41.28	39.35
#3	1.997	1.941	1.944	2.044	2.002	1.908	2.000	41.35	39.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.63**	**37.67**	**43.28**	**43.16**	**1.954**	**2.042**	**5.095**	**2.002**	**2.093**
Stddev	.09	.23	.09	.03	.005	.004	.011	.003	.001
%RSD	.2330	.5986	.2149	.0598	.2666	.1846	.2238	.1263	.0592
#1	37.57	37.83	43.37	43.13	1.952	2.040	5.087	2.001	2.092
#2	37.58	37.41	43.18	43.16	1.959	2.046	5.108	2.005	2.093
#3	37.73	37.77	43.29	43.18	1.949	2.040	5.089	2.000	2.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/6/2018 23:16:28 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.044**	**2.008**	**2.084**	**1.894**	**1.994**	F **2.257**	**1.913**
Stddev	.020	.001	.020	.002	.007	.003	.005
%RSD	.9818	.0574	.9624	.1041	.3759	.1215	.2485
#1	2.065	2.007	2.104	1.896	1.989	2.254	1.914
#2	2.043	2.009	2.082	1.895	2.002	2.258	1.918
#3	2.024	2.007	2.064	1.892	1.990	2.259	1.908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						2.000	
Range						10.00%	

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105320.**	**4037.9**	**4299.3**	**10048.**
Stddev	987.	9.2	7.2	11.
%RSD	.93694	.22712	.16653	.11419
#1	104330.	4028.0	4304.6	10061.
#2	105330.	4046.1	4291.1	10039.
#3	106310.	4039.6	4302.1	10044.

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 23:21:41 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0000**	**.0002**	**.0003**	**-.0001**	**-.0000**	**.0000**	**.0004**	**-.0001**
Stddev	.0002	.0000	.0002	.0002	.0002	.0002	.0000	.0002	.0002
%RSD	69.51	217.8	87.39	58.17	182.8	4167.	36.69	57.08	136.6
#1	.0001	-.0000	.0004	.0005	-.0003	-.0002	.0000	.0005	-.0001
#2	.0004	.0000	.0000	.0004	-.0003	.0002	.0000	.0001	.0000
#3	.0006	.0000	.0002	.0001	.0001	.0000	.0000	.0004	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0006**	**.0003**	**.0007**	**-.0006**	**-.0006**	**.0100**	**-.0033**
Stddev	.0003	.0001	.0009	.0012	.0008	.0016	.0007	.0163	.0008
%RSD	244.7	50.12	159.4	475.9	121.1	254.4	113.9	162.8	23.36
#1	-.0001	.0001	.0016	.0013	-.0002	-.0009	-.0005	.0033	-.0041
#2	.0005	.0001	.0002	.0005	.0012	-.0022	-.0013	-.0019	-.0025
#3	-.0000	.0000	-.0001	-.0010	.0010	.0011	.0000	.0286	-.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.0079**	**.0930**	**.0399**	**.0033**	F **.0035**	**.0016**	**-.0009**	**.0001**
Stddev	.0026	.0138	.0210	.0036	.0004	.0005	.0008	.0004	.0001
%RSD	90.57	174.8	22.58	8.944	12.52	13.48	50.01	42.00	84.97
#1	.0017	-.0068	.1013	.0434	.0038	.0039	.0010	-.0011	.0000
#2	.0011	.0207	.0691	.0401	.0030	.0037	.0025	-.0012	.0001
#3	.0059	.0098	.1086	.0363	.0032	.0030	.0014	-.0005	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/6/2018 23:21:41 Type: QC
Method: SGS NO VALVE3(v72) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0034**	**.0003**	**-.0001**	**.0002**	**-.0001**	**.0016**
Stddev	.0002	.0012	.0001	.0002	.0007	.0001	.0003
%RSD	113.6	36.07	34.99	170.2	399.2	64.64	20.22
#1	-.0000	.0048	.0003	-.0003	.0008	-.0002	.0016
#2	.0004	.0027	.0002	.0001	-.0006	-.0001	.0013
#3	.0001	.0027	.0003	-.0003	.0004	-.0001	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107250.**	**4202.0**	**4115.6**	**9493.6**
Stddev	2446.	14.6	5.4	12.9
%RSD	2.2809	.34779	.13040	.13621
#1	108960.	4187.3	4116.5	9490.8
#2	108350.	4216.6	4109.8	9482.4
#3	104450.	4202.0	4120.4	9507.7

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	☒	2	Al	0.000000	0.000000	No
			Zr	0.001000	0.000000	No
Be 313.042 {108}	☒	11	V	0.000370	0.000000	No
			Mo	-0.000040	0.000000	No
			Ti	-0.000320	0.000000	No
			Mn	0.000016	0.000000	No
			Ba	-0.000013	0.000000	No
			Zn	0.000010	0.000000	No
			Sb	-0.000021	0.000000	No
			Ag	0.000060	0.000000	No
			Sn	0.000010	0.000000	No
			Fe	0.000000	0.000000	No
			K	0.000000	0.000000	No
Cd 228.802 {448}	☒	13	As	0.020100	0.000000	No
			Ni	-0.000040	0.000000	No
			Fe	0.000003	0.000000	No
			Ba	0.000100	0.000000	No
			Co	-0.002040	0.000000	No
			Al	0.000000	0.000000	No
			Mg	0.000000	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	-0.000014	0.000000	No
			Ti	0.000051	0.000000	No
			Cu	0.000009	0.000000	No
			Sr	-0.000050	0.000000	No
			W	-0.001172	0.000000	No
Co 228.616 {448}	☒	5	Fe	-0.000001	0.000000	No
			Ca	0.000000	0.000000	No
			Mg	0.000001	0.000000	No
			Ti	0.002055	0.000000	No
			Mo	-0.001442	0.000000	No
Cr 267.716 {126}	☒	8	Mn	0.000043	0.000000	No
			Mo	-0.000053	0.000000	No
			Co	0.000007	0.000000	No
			Al	0.000000	0.000000	No
			Sn	0.000130	0.000000	No
			Ti	0.000042	0.000000	No
			Ca	0.000000	0.000000	No
			Fe	-0.000002	0.000000	No
Cu 324.754 {104}2	☒	12	Cr	0.000055	0.000000	No
			Mo	0.000350	0.000000	No
			Ti	-0.000112	0.000000	No
			Mn	0.000026	0.000000	No
			Co	-0.000657	0.000000	No
			Zn	0.000037	0.000000	No
			Fe	-0.000096	0.000000	No
			Zr	-0.000397	0.000000	No
			V	-0.000274	0.000000	No
			Al	0.000010	0.000000	No
			Ni	0.000032	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	2	Fe	-0.000088	0.000000	No
			Mo	0.000011	0.000000	No
Ni 231.604 {446}	☒	7	Cr	-0.000028	0.000000	No
			Mo	-0.000041	0.000000	No
			Fe	0.000021	0.000000	No
			Zn	0.000017	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Co	-0.000023	0.000000	No
			Ti	0.000102	0.000000	No
			W	0.005000	0.000000	No
Ag 328.068 {103}	☒	17	Mn	0.000296	0.000000	No
			Mo	0.000075	0.000000	No
			Ti	-0.000974	0.000000	No
			V	-0.000240	0.000000	No
			Zr	0.004000	0.000000	No
			Sb	-0.000013	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	-0.000002	0.000000	No
			Fe	-0.000315	0.000000	No
			Al	0.000001	0.000000	No
			Zn	0.000002	0.000000	No
			Ba	-0.000087	0.000000	No
			Ni	-0.000021	0.000000	No
			Cr	0.000022	0.000000	No
			As	0.000081	0.000000	No
			Pb	0.001400	0.000000	No
			Cu	0.000800	0.000000	No
V 292.402 {115}	☒	6	Fe	0.000030	0.000000	No
			Ti	0.000544	0.000000	No
			Mo	-0.011900	0.000000	No
			Co	-0.000106	0.000000	No
			Cr	-0.001810	0.000000	No
			Mn	-0.000593	0.000000	No
Zn 206.200 {464}	☒	13	Cr	-0.000600	0.000000	No
			Mo	-0.000376	0.000000	No
			Fe	0.000016	0.000000	No
			Co	0.000122	0.000000	No
			Ni	0.000058	0.000000	No
			Se	0.000141	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	0.000131	0.000000	No
			Sn	0.000068	0.000000	No
			V	-0.000012	0.000000	No
			Al	0.000001	0.000000	No
			Si	0.000173	0.000000	No
			Zr	0.000269	0.000000	No
As 189.042 {478}	☒	22	Al	0.000003	0.000000	No
			Fe	-0.000086	0.000000	No
			Ca	-0.000003	0.000000	No
			Mn	-0.000048	0.000000	No
			Mo	0.001570	0.000000	No
			Cr	0.000244	0.000000	No
			Co	-0.000100	0.000000	No
			Si	0.000021	0.000000	No
			Cu	0.000120	0.000000	No
			Mg	-0.000001	0.000000	No
			Cd	-0.000103	0.000000	No
			Sn	-0.000124	0.000000	No
			Zn	-0.000045	0.000000	No
			Zr	-0.000545	0.000000	No
			Sb	0.000022	0.000000	No
			Ti	-0.000098	0.000000	No
			Ni	-0.000069	0.000000	No
			W	0.020000	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			S	-0.000002	0.000000	No
			Ba	0.000069	0.000000	No
			Sr	0.000000	0.000000	No
			V	0.000013	0.000000	No
Tl 190.856 {477}	☒	29	Cr	0.000272	0.000000	No
			Mo	-0.006310	0.000000	No
			Al	-0.000003	0.000000	No
			V	-0.032500	0.000000	No
			Mn	0.001200	0.000000	No
			Si	-0.000021	0.000000	No
			Ca	-0.000007	0.000000	No
			Ti	-0.001100	0.000000	No
			Cu	0.000040	0.000000	No
			Co	0.002910	0.000000	No
			Sr	-0.000233	0.000000	No
			Zn	0.000050	0.000000	No
			Pb	0.000153	0.000000	No
			Mg	0.000005	0.000000	No
			Ba	-0.000014	0.000000	No
			W	0.000000	0.000000	No
			B	-0.000796	0.000000	No
			Ni	-0.000036	0.000000	No
			Sn	-0.000199	0.000000	No
			Fe	-0.000089	0.000000	No
			Li	-0.000078	0.000000	No
			S	-0.000010	0.000000	No
			As	0.000056	0.000000	No
			Bi	0.000164	0.000000	No
			Na	0.000007	0.000000	No
			P	-0.000170	0.000000	No
			Cd	0.000117	0.000000	No
			Sb	0.000034	0.000000	No
			K	0.000000	0.000000	No
Pb 220.353 {453}	☒	20	Al	-0.000095	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000250	0.000000	No
			Zn	0.000027	0.000000	No
			Mo	-0.001820	0.000000	No
			Ni	0.000210	0.000000	No
			Cu	0.000273	0.000000	No
			V	-0.000152	0.000000	No
			Co	0.000007	0.000000	No
			Ti	0.000028	0.000000	No
			Si	0.000203	0.000000	No
			Mg	0.000001	0.000000	No
			Sb	-0.000096	0.000000	No
			Cr	-0.000069	0.000000	No
			Sn	0.000016	0.000000	No
			Fe	0.000048	0.000000	No
			W	0.000000	0.000000	No
			Sr	-0.000036	0.000000	No
			Zr	-0.000049	0.000000	No
			S	0.000010	0.000000	No
Se 196.090 {472}	☒	17	Al	-0.000007	0.000000	No
			Ca	-0.000007	0.000000	No
			Mn	0.000469	0.000000	No
			Mo	0.000086	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Co	-0.000041	0.000000	No
			Cu	-0.000107	0.000000	No
			Mg	0.000000	0.000000	No
			Ti	0.000035	0.000000	No
			Zn	-0.000077	0.000000	No
			Fe	-0.000128	0.000000	No
			Si	0.000068	0.000000	No
			B	-0.000043	0.000000	No
			Ba	0.000050	0.000000	No
			S	-0.000008	0.000000	No
			Zr	-0.000267	0.000000	No
			V	0.000150	0.000000	No
			W	0.000000	0.000000	No
Sb 206.833 {463}	☒	17	Fe	-0.000005	0.000000	No
			Al	-0.000033	0.000000	No
			Ca	-0.000004	0.000000	No
			Ni	-0.000525	0.000000	No
			Cr	0.012600	0.000000	No
			V	-0.002141	0.000000	No
			Zn	-0.000104	0.000000	No
			Mo	0.000436	0.000000	No
			Ti	0.000252	0.000000	No
			Sn	-0.011850	0.000000	No
			Mn	-0.000040	0.000000	No
			Co	-0.000121	0.000000	No
			Se	-0.000252	0.000000	No
			Zr	-0.000300	0.000000	No
			W	0.000000	0.000000	No
			Mg	-0.000001	0.000000	No
			S	0.000003	0.000000	No
Al 396.152 { 85}	☒	7	Ca	0.000115	0.000000	No
			Mo	0.035605	0.000000	No
			Ti	0.000037	0.000000	No
			Si	0.001149	0.000000	No
			Co	-0.000115	0.000000	No
			Li	-0.001000	0.000000	No
			Ba	0.000725	0.000000	No
Ca 317.933 {106}	☒	5	Al	0.000043	0.000000	No
			Fe	0.000240	0.000000	No
			Mg	0.000071	0.000000	No
			Ti	-0.000042	0.000000	No
			Co	0.001850	0.000000	No
Fe 259.940 {130}	☒	11	Cr	0.000237	0.000000	No
			Zn	0.000466	0.000000	No
			Al	0.000022	0.000000	No
			Co	0.000318	0.000000	No
			Cd	0.000700	0.000000	No
			Sn	-0.000019	0.000000	No
			Ti	-0.000710	0.000000	No
			Si	0.000053	0.000000	No
			Ca	0.000012	0.000000	No
			Ba	0.000400	0.000000	No
			Mn	-0.001193	0.000000	No
Mg 279.079 {121}	☒	3	Mo	-0.023994	0.000000	No
			Pb	-0.000017	0.000000	No
			Fe	-0.000081	0.000000	No
K 766.490 { 44}	☒	None				

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Na 589.592 { 57}	☒	1	Al	0.000039	0.000000	No
B 208.959 {462}	☒	1	Mo	0.024529	0.000000	No
Mo 202.030 {467}	☒	6	Ti	0.000050	0.000000	No
			Mg	-0.000005	0.000000	No
			Ca	0.000000	0.000000	No
			Fe	-0.000006	0.000000	No
			V	-0.000100	0.000000	No
			W	-0.004000	0.000000	No
Si 212.412 {459}	☒	11	Mn	0.000981	0.000000	No
			Fe	0.000021	0.000000	No
			Ca	0.000008	0.000000	No
			Ni	0.000391	0.000000	No
			Cd	0.001794	0.000000	No
			Cr	0.000438	0.000000	No
			Mo	0.027334	0.000000	No
			Ti	0.002984	0.000000	No
			Ba	0.000825	0.000000	No
			Sn	-0.000172	0.000000	No
			V	0.004407	0.000000	No
Sn 189.989 {478}	☒	3	Ti	-0.003009	0.000000	No
			Fe	0.000017	0.000000	No
			Mo	0.000058	0.000000	No
Sr 407.771 { 83}	☒	2	Ca	0.000033	0.000000	No
			Zr	-0.019750	0.000000	No
Ti 334.904 {101}	☒	5	Cr	0.000072	0.000000	No
			Mo	0.001251	0.000000	No
			Zr	0.000002	0.000000	No
			W	0.000004	0.000000	No
			V	0.000064	0.000000	No
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Y 224.306 {451}*	☒	None				
In 230.606 {446}*	☒	None				
W 207.911 {462}	☒	3	V	0.000064	0.000000	No
			Zn	0.010800	0.000000	No
			Fe	0.000002	0.000000	No
Zr 339.198 { 99}	☒	14	Fe	-0.000047	0.000000	No
			Si	0.000079	0.000000	No
			Ba	-0.000049	0.000000	No
			Sn	0.000051	0.000000	No
			Sb	-0.000067	0.000000	No
			V	0.000030	0.000000	No
			W	0.000000	0.000000	No
			Ti	0.000007	0.000000	No
			Al	0.000001	0.000000	No
			Ca	-0.000001	0.000000	No
			Li	-0.000500	0.000000	No
			Bi	-0.000230	0.000000	No
			Mn	0.000059	0.000000	No
			Mo	0.000516	0.000000	No
S 182.034 {485}	☒	10	Ca	0.000084	0.000000	No
			Mo	-0.000365	0.000000	No
			Al	-0.000013	0.000000	No
			Fe	0.000121	0.000000	No
			Mn	0.002976	0.000000	No
			W	0.077182	0.000000	No
			Mg	0.000055	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Cr	0.000119	0.000000	No
				V	0.003667	0.000000	No
				B	0.007003	0.000000	No
	Bi 223.061 {451}	☒	6	Fe	0.000020	0.000000	No
				Ti	-0.000314	0.000000	No
				Co	-0.000632	0.000000	No
				Cr	0.001564	0.000000	No
				Cu	-0.002052	0.000000	No
				V	-0.000889	0.000000	No
	Li 670.784 { 50}	☒	2	Ca	0.000009	0.000000	No
				W	0.000000	0.000000	No
	P 177.495 {490}	☒	2	Mn	-0.004050	0.000000	No
				Cu	0.007356	0.000000	No

Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 12/7/2018 12:00:26 Type: Cal
Method: SGS NO VALVE3(v77) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0085**	**.0004**	**.0006**	**-.0001**	**-.0000**	**.0083**	**.0000**	**-.0006**	**-.0013**
Stddev	.0005	.0004	.0001	.0001	.0000	.0001	.0000	.0001	.0000
%RSD	6.377	96.57	23.47	87.41	156.4	.8247	18.58	19.49	3.218
#1	.0088	-.0000	.0007	-.0001	-.0000	.0083	.0000	-.0006	-.0013
#2	.0089	.0007	.0004	-.0002	-.0001	.0082	.0000	-.0005	-.0014
#3	.0079	.0005	.0006	-.0000	.0000	.0082	.0000	-.0007	-.0013

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**.0004**	**-.0009**	**-.0004**	**-.0006**	**.0006**	**-.0000**	**-.0015**	**.0052**
Stddev	.0000	.0000	.0000	.0000	.0002	.0002	.0001	.0004	.0003
%RSD	53.88	7.598	5.298	1.071	39.67	26.36	60040.	26.52	6.102
#1	.0001	.0004	-.0008	-.0004	-.0009	.0006	-.0000	-.0016	.0048
#2	.0000	.0003	-.0009	-.0004	-.0004	.0004	.0001	-.0018	.0053
#3	.0000	.0004	-.0009	-.0004	-.0006	.0008	-.0001	-.0010	.0054

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0004**	**-.0001**	**.0176**	**-.0214**	**.0002**	**.0004**	**.0044**	**.0001**	**-.0013**
Stddev	.0003	.0001	.0018	.0012	.0001	.0001	.0000	.0000	.0003
%RSD	72.07	58.27	10.40	5.795	74.36	14.16	.7701	25.07	21.49
#1	.0002	-.0001	.0185	-.0227	.0001	.0005	.0044	.0002	-.0015
#2	.0006	-.0001	.0155	-.0202	.0001	.0004	.0044	.0001	-.0015
#3	.0002	-.0000	.0188	-.0213	.0003	.0004	.0044	.0001	-.0010

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0004**	**.0020**	**-.0005**	**-.0009**	**-.0006**	**.0238**	**-.0068**
Stddev	.0000	.0001	.0000	.0001	.0000	.0023	.0000
%RSD	5.219	5.608	7.666	14.02	3.126	9.812	.6850
#1	-.0004	.0021	-.0005	-.0010	-.0006	.0213	-.0068
#2	-.0004	.0020	-.0006	-.0008	-.0006	.0241	-.0068
#3	-.0004	.0019	-.0005	-.0008	-.0006	.0260	-.0069

◀ Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 12/7/2018 12:00:26 Type: Cal
Method: SGS NO VALVE3(v77) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109540.**	**3936.6**	**4577.0**	**9179.8**
Stddev	979.	42.9	34.6	58.0
%RSD	.89360	1.0910	.75682	.63208
#1	108450.	3986.0	4593.0	9216.0
#2	110330.	3907.8	4600.8	9210.4
#3	109840.	3916.0	4537.3	9112.8

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 12/7/2018 12:05:56 Type: Cal
Method: SGS NO VALVE3(v77) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.72**	**15.31**	**4.506**	**1.970**	**.6759**	**1.602**	**1.679**	**1.558**	**.1146**
Stddev	.02	.03	.004	.002	.0013	.002	.007	.001	.0002
%RSD	.1231	.1806	.0961	.0867	.1964	.1335	.3914	.0418	.2159
#1	14.70	15.30	4.507	1.968	.6747	1.604	1.684	1.557	.1143
#2	14.71	15.29	4.510	1.971	.6773	1.603	1.681	1.558	.1147
#3	14.74	15.34	4.502	1.969	.6757	1.600	1.671	1.558	.1147

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.027**	**3.984**	**.6005**	**.1842**	**.5277**	**.4355**	**.6993**	**4.339**	**6.013**
Stddev	.001	.009	.0006	.0003	.0008	.0010	.0005	.005	.009
%RSD	.1103	.2175	.1033	.1439	.1427	.2211	.0653	.1231	.1491
#1	1.025	3.982	.6004	.1844	.5268	.4354	.6989	4.333	6.013
#2	1.028	3.993	.6011	.1842	.5281	.4365	.6993	4.341	6.005
#3	1.026	3.976	.5999	.1839	.5281	.4346	.6998	4.344	6.023

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.296**	**.5995**	**9.663**	**26.80**	**1.094**	**2.881**	**2.496**	**.6321**	**9.549**
Stddev	.005	.0012	.020	.03	.001	.001	.001	.0008	.015
%RSD	.1682	.2063	.2018	.1088	.0588	.0237	.0529	.1231	.1550
#1	3.297	.6004	9.647	26.80	1.094	2.881	2.497	.6327	9.537
#2	3.290	.5981	9.658	26.77	1.095	2.882	2.497	.6324	9.543
#3	3.300	.6000	9.685	26.83	1.094	2.880	2.495	.6312	9.565

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.124**	**1.505**	**2.409**	**.4224**	**1.013**	**15.69**	**.7998**
Stddev	.001	.001	.011	.0003	.002	.03	.0006
%RSD	.1185	.0576	.4745	.0709	.1615	.2111	.0799
#1	1.123	1.504	2.398	.4223	1.011	15.65	.7998
#2	1.126	1.505	2.421	.4227	1.014	15.69	.8004
#3	1.124	1.505	2.409	.4221	1.014	15.72	.7991

◀ Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 12/7/2018 12:05:56 Type: Cal
Method: SGS NO VALVE3(v77) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102740.**	**3805.0**	**4341.0**	**8876.2**
Stddev	154.	12.2	1.3	4.7
%RSD	.15025	.32128	.02902	.05243
#1	102700.	3808.3	4341.0	8881.2
#2	102600.	3815.2	4339.8	8875.5
#3	102910.	3791.4	4342.3	8871.9

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 12/7/2018 12:11:15 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.973**	**1.996**	**1.927**	**1.969**	**2.031**	**1.977**	**2.049**	**1.981**	**.2484**
Stddev	.007	.007	.002	.003	.007	.008	.011	.001	.0007
%RSD	.3712	.3332	.0944	.1548	.3473	.3927	.5364	.0695	.2891
#1	1.967	1.989	1.925	1.972	2.036	1.977	2.044	1.981	.2489
#2	1.972	1.998	1.928	1.966	2.033	1.985	2.062	1.979	.2487
#3	1.982	2.002	1.928	1.968	2.023	1.969	2.042	1.982	.2476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.014**	**1.945**	**1.876**	**2.015**	**1.991**	**1.843**	**1.932**	**38.92**	**39.69**
Stddev	.007	.004	.004	.011	.006	.003	.004	.17	.10
%RSD	.3640	.2094	.1862	.5639	.2915	.1498	.1846	.4313	.2496
#1	2.017	1.950	1.879	2.028	1.998	1.840	1.928	38.73	39.58
#2	2.020	1.945	1.876	2.007	1.989	1.845	1.934	38.97	39.76
#3	2.006	1.941	1.872	2.009	1.986	1.845	1.933	39.06	39.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.59**	**38.95**	**38.72**	**38.80**	**1.883**	**2.007**	**4.951**	**1.995**	**1.992**
Stddev	.17	.17	.15	.13	.004	.001	.007	.002	.006
%RSD	.4414	.4491	.3929	.3272	.1846	.0707	.1355	.0994	.3179
#1	39.41	38.87	38.57	38.66	1.879	2.006	4.944	1.993	1.987
#2	39.61	39.15	38.71	38.84	1.884	2.007	4.956	1.996	1.990
#3	39.75	38.84	38.87	38.91	1.886	2.009	4.955	1.996	1.999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccvconf Acquired: 12/7/2018 12:11:15 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.026**	**1.974**	**2.029**	**1.808**	**1.930**	**1.978**	**1.856**
Stddev	.007	.003	.007	.002	.001	.007	.001
%RSD	.3656	.1274	.3390	.1055	.0620	.3774	.0606
#1	2.029	1.972	2.032	1.807	1.929	1.971	1.857
#2	2.032	1.973	2.034	1.807	1.931	1.978	1.855
#3	2.018	1.976	2.021	1.810	1.931	1.986	1.855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104320.**	**3890.0**	**4713.5**	**9573.6**
Stddev	355.	12.7	4.2	2.6
%RSD	.33995	.32654	.08881	.02707
#1	104200.	3904.6	4717.9	9570.8
#2	104050.	3883.2	4709.6	9575.8
#3	104720.	3882.0	4713.1	9574.2

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 12/7/2018 12:16:28 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0000**	**.0001**	**-.0001**	**.0002**	**-.0000**	**.0000**	**.0001**	**-.0005**
Stddev	.0003	.0000	.0001	.0002	.0002	.0001	.0000	.0003	.0002
%RSD	1844.	648.8	84.68	149.3	82.31	425.7	157.5	206.6	50.34
#1	-.0001	.0000	.0003	.0000	.0003	-.0001	-.0000	.0003	-.0006
#2	-.0003	-.0000	.0001	-.0001	.0000	-.0001	.0000	-.0002	-.0002
#3	.0003	-.0000	.0000	-.0003	.0003	.0001	.0001	.0003	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**.0009**	**.0016**	**.0016**	**-.0011**	**.0001**	**.0143**	**.0024**
Stddev	.0001	.0001	.0008	.0004	.0001	.0012	.0010	.0164	.0049
%RSD	54.72	435.6	92.44	23.68	8.766	107.0	1319.	114.8	206.0
#1	.0001	.0001	.0005	.0020	.0017	-.0025	-.0011	.0120	-.0012
#2	.0002	-.0001	.0018	.0013	.0016	-.0002	.0006	-.0009	.0079
#3	.0004	.0000	.0004	.0014	.0014	-.0007	.0007	.0317	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0050**	**.0878**	**.0175**	**.0036**	F **.0054**	**.0020**	**.0001**	**.0002**
Stddev	.0033	.0219	.0060	.0057	.0004	.0003	.0006	.0001	.0001
%RSD	437.4	441.3	6.817	32.41	9.778	5.865	29.43	91.55	37.39
#1	.0045	.0120	.0820	.0178	.0040	.0058	.0025	.0003	.0002
#2	-.0005	-.0297	.0874	.0230	.0034	.0055	.0019	.0000	.0001
#3	-.0017	.0028	.0940	.0116	.0034	.0051	.0014	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccbconf Acquired: 12/7/2018 12:16:28 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0036**	**.0002**	**.0005**	**.0000**	**.0034**	**.0013**
Stddev	.0002	.0000	.0001	.0007	.0009	.0005	.0003
%RSD	205.8	.4990	29.83	157.4	5322.	14.89	20.10
#1	.0001	.0037	.0002	.0003	.0010	.0039	.0015
#2	.0002	.0036	.0002	.0013	-.0002	.0034	.0010
#3	-.0001	.0036	.0003	-.0002	-.0008	.0029	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108830.**	**4007.2**	**4586.0**	**9246.4**
Stddev	171.	15.6	1.4	4.4
%RSD	.15702	.38878	.03047	.04801
#1	109000.	4023.5	4584.5	9244.4
#2	108830.	3992.5	4587.3	9251.5
#3	108660.	4005.5	4586.2	9243.3

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 12/7/2018 12:22:02 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.988**	**2.002**	**2.002**	**2.020**	**2.026**	**1.981**	**2.047**	**2.053**	**.2481**
Stddev	.000	.005	.001	.002	.007	.009	.005	.003	.0013
%RSD	.0207	.2322	.0243	.0997	.3352	.4485	.2238	.1358	.5405
#1	1.988	1.998	2.002	2.022	2.019	1.976	2.043	2.050	.2475
#2	1.988	2.000	2.001	2.020	2.026	1.991	2.052	2.056	.2497
#3	1.987	2.007	2.002	2.018	2.033	1.976	2.046	2.052	.2473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.014**	**2.064**	**2.025**	**2.025**	**2.033**	**1.999**	**1.982**	**38.75**	**39.42**
Stddev	.006	.004	.005	.001	.005	.002	.004	.03	.12
%RSD	.3082	.2029	.2484	.0687	.2630	.1012	.1848	.0774	.3165
#1	2.007	2.061	2.031	2.024	2.037	2.001	1.986	38.75	39.28
#2	2.017	2.069	2.022	2.026	2.034	1.997	1.981	38.73	39.43
#3	2.018	2.063	2.022	2.025	2.027	1.999	1.979	38.79	39.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.44**	**38.81**	**38.48**	**38.64**	**2.012**	**2.003**	**5.183**	**2.027**	**2.002**
Stddev	.08	.13	.08	.03	.002	.002	.006	.002	.001
%RSD	.2072	.3309	.2142	.0833	.0744	.1011	.1134	.1099	.0260
#1	39.38	38.68	38.40	38.66	2.010	2.002	5.189	2.027	2.002
#2	39.54	38.94	38.46	38.60	2.013	2.003	5.178	2.029	2.001
#3	39.40	38.81	38.56	38.66	2.013	2.006	5.181	2.025	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: icv 1 Acquired: 12/7/2018 12:22:02 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.009**	**1.992**	**2.016**	**1.983**	**1.924**	**1.938**	**2.020**
Stddev	.005	.002	.004	.002	.001	.002	.004
%RSD	.2491	.0977	.2238	.1207	.0674	.1253	.1776
#1	2.004	1.990	2.011	1.986	1.924	1.939	2.017
#2	2.011	1.994	2.020	1.981	1.922	1.935	2.024
#3	2.013	1.992	2.017	1.984	1.924	1.940	2.018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104520.**	**3882.8**	**4370.2**	**8849.5**
Stddev	313.	22.5	5.2	3.2
%RSD	.29954	.58075	.11981	.03580
#1	104870.	3902.2	4368.4	8846.3
#2	104270.	3888.2	4376.0	8852.6
#3	104420.	3858.0	4366.0	8849.8

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 12/7/2018 12:27:15 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0000**	**.0001**	**-.0002**	**.0002**	**.0003**	**.0001**	**.0002**	**-.0003**
Stddev	.0001	.0000	.0001	.0002	.0002	.0001	.0000	.0003	.0001
%RSD	30.34	259.9	51.76	66.92	79.88	38.62	17.78	204.1	42.38
#1	-.0003	.0001	.0001	-.0001	.0002	.0004	.0001	.0005	-.0003
#2	-.0002	.0000	.0002	-.0004	.0001	.0002	.0001	-.0002	-.0005
#3	-.0002	-.0000	.0001	-.0003	.0005	.0004	.0001	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0000**	**.0004**	**.0007**	**.0008**	**.0001**	**.0004**	**.0035**	**.0046**
Stddev	.0001	.0001	.0007	.0009	.0005	.0011	.0012	.0133	.0062
%RSD	52.37	1832.	164.8	126.2	64.41	1012.	295.4	381.7	135.0
#1	.0003	-.0001	.0000	-.0003	.0014	.0014	-.0007	-.0077	-.0026
#2	.0004	-.0000	.0013	.0010	.0006	-.0004	.0018	.0182	.0086
#3	.0001	.0002	.0000	.0015	.0004	-.0007	.0002	-.0000	.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0035**	**.0830**	**.0227**	**.0032**	F **.0044**	**.0025**	**.0004**	**-.0000**
Stddev	.0078	.0230	.0186	.0038	.0007	.0005	.0005	.0003	.0001
%RSD	911.5	661.2	22.37	16.60	22.74	11.09	18.64	79.94	2096.
#1	.0006	.0112	.0618	.0188	.0039	.0049	.0023	.0007	.0001
#2	.0061	.0216	.0961	.0228	.0033	.0044	.0022	.0001	-.0000
#3	-.0093	-.0224	.0911	.0264	.0025	.0039	.0031	.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: icb 7 Acquired: 12/7/2018 12:27:15 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0021**	**.0003**	**-.0001**	**-.0005**	**.0034**	**.0008**
Stddev	.0000	.0005	.0001	.0007	.0014	.0004	.0007
%RSD	5.083	24.38	28.91	663.4	266.7	11.16	81.36
#1	.0004	.0026	.0002	-.0004	-.0021	.0038	.0009
#2	.0004	.0016	.0002	.0007	.0004	.0035	.0001
#3	.0004	.0021	.0004	-.0006	.0001	.0030	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107970.**	**3923.5**	**4493.7**	**9036.1**
Stddev	265.	20.6	9.7	19.7
%RSD	.24519	.52615	.21516	.21853
#1	107830.	3946.7	4492.9	9038.4
#2	108270.	3907.0	4484.4	9015.4
#3	107800.	3916.9	4503.7	9054.7

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 12/7/2018 12:34:05 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.986**	**2.029**	**1.954**	**1.993**	**2.055**	**1.978**	**2.076**	**2.009**	**.2508**
Stddev	.005	.004	.003	.002	.007	.010	.015	.002	.0009
%RSD	.2311	.2092	.1277	.0986	.3343	.5192	.7396	.0990	.3762
#1	1.983	2.028	1.952	1.991	2.054	1.989	2.069	2.007	.2511
#2	1.981	2.024	1.957	1.993	2.062	1.985	2.099	2.012	.2519
#3	1.991	2.030	1.956	1.995	2.056	1.966	2.065	2.009	.2507
#4	1.988	2.035	1.953	1.995	2.046	1.975	2.071	2.009	.2496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.031**	**1.979**	**1.915**	**2.036**	**2.016**	**1.884**	**1.964**	**39.51**	**40.07**
Stddev	.007	.003	.001	.004	.001	.001	.003	.05	.12
%RSD	.3675	.1290	.0538	.1770	.0444	.0662	.1648	.1319	.3026
#1	2.033	1.978	1.915	2.032	2.017	1.883	1.965	39.54	39.90
#2	2.040	1.982	1.915	2.034	2.015	1.884	1.967	39.43	40.05
#3	2.029	1.976	1.913	2.040	2.017	1.884	1.964	39.54	40.17
#4	2.023	1.979	1.915	2.037	2.015	1.886	1.959	39.52	40.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 12/7/2018 12:34:05 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**40.11**	**39.45**	**39.20**	**39.48**	**1.912**	**2.025**	**5.017**	**2.021**	**2.003**
Stddev	.04	.19	.08	.04	.001	.003	.006	.001	.003
%RSD	.1064	.4788	.1947	.1112	.0493	.1484	.1219	.0408	.1677
#1	40.15	39.19	39.17	39.47	1.912	2.021	5.010	2.021	2.001
#2	40.08	39.62	39.11	39.42	1.912	2.026	5.024	2.022	1.998
#3	40.15	39.44	39.24	39.52	1.913	2.027	5.021	2.022	2.005
#4	40.07	39.54	39.28	39.50	1.911	2.026	5.015	2.020	2.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.045**	**1.992**	**2.044**	**1.847**	**1.949**	**2.014**	**1.899**
Stddev	.007	.002	.007	.003	.005	.005	.002
%RSD	.3591	.1143	.3473	.1516	.2641	.2281	.1284
#1	2.051	1.989	2.051	1.845	1.944	2.014	1.898
#2	2.052	1.991	2.050	1.848	1.949	2.007	1.901
#3	2.042	1.993	2.039	1.846	1.956	2.016	1.902
#4	2.036	1.994	2.037	1.851	1.945	2.018	1.897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: iccv 1 Acquired: 12/7/2018 12:34:05 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105560.**	**3830.9**	**4655.1**	**9453.1**
Stddev	635.	10.8	3.1	8.8
%RSD	.60156	.28087	.06717	.09274
#1	104680.	3841.3	4658.7	9464.1
#2	105490.	3834.5	4652.5	9453.5
#3	106050.	3832.0	4652.4	9442.8
#4	106000.	3815.9	4656.6	9451.8

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 12:41:11 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0001**	**.0002**	**-.0002**	**.0001**	**.0003**	**.0001**	**.0003**	**-.0003**
Stddev	.0002	.0000	.0001	.0001	.0000	.0001	.0000	.0002	.0001
%RSD	64.91	64.27	46.88	59.28	24.78	50.71	62.16	82.38	43.12
#1	-.0003	.0000	.0003	-.0002	.0001	.0002	.0000	.0001	-.0002
#2	-.0004	.0001	.0001	-.0001	.0001	.0002	.0001	.0002	-.0002
#3	-.0001	.0001	.0001	-.0002	.0002	.0004	.0001	.0005	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0002**	**.0003**	**-.0003**	**.0007**	**-.0010**	**.0006**	**.0158**	**-.0016**
Stddev	.0001	.0000	.0001	.0020	.0007	.0008	.0010	.0146	.0030
%RSD	31.34	13.65	31.31	715.9	108.3	78.56	165.7	92.30	182.7
#1	.0002	.0002	.0003	-.0012	.0011	-.0001	.0016	.0071	-.0051
#2	.0003	.0002	.0002	.0020	.0010	-.0013	-.0004	.0076	.0007
#3	.0005	.0003	.0004	-.0016	-.0002	-.0017	.0006	.0327	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0030**	**.0224**	**.0965**	**.0155**	**.0034**	F **.0038**	**.0028**	**.0002**	**.0001**
Stddev	.0049	.0266	.0204	.0009	.0007	.0006	.0008	.0004	.0001
%RSD	161.7	118.8	21.12	5.756	20.63	14.62	27.93	194.4	92.74
#1	-.0022	.0187	.1201	.0162	.0041	.0044	.0029	-.0002	.0000
#2	-.0082	.0506	.0845	.0157	.0033	.0037	.0020	.0002	.0002
#3	.0014	-.0022	.0850	.0145	.0027	.0033	.0036	.0007	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 12:41:11 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0026**	**.0002**	**.0004**	**.0005**	**.0026**	**.0009**
Stddev	.0002	.0006	.0000	.0013	.0007	.0007	.0002
%RSD	100.5	23.99	9.280	331.2	152.3	25.12	18.23
#1	.0002	.0023	.0002	.0019	.0012	.0034	.0007
#2	.0000	.0022	.0002	-.0000	.0003	.0022	.0010
#3	.0005	.0033	.0002	-.0006	-.0002	.0023	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108320.**	**3975.2**	**4493.6**	**9020.8**
Stddev	371.	10.8	6.9	4.9
%RSD	.34234	.27161	.15275	.05434
#1	108740.	3970.9	4491.0	9021.7
#2	108020.	3987.5	4501.4	9025.2
#3	108220.	3967.2	4488.5	9015.5

Zoom In Zoom Out

Sample Name: crid 7 Acquired: 12/7/2018 12:46:08 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0012**	**.0009**	**.0031**	**.0023**	F **.0000**	**.0034**	**.0044**
Stddev	.0002	.0000	.0001	.0003	.0002	.0004	.0001	.0003
%RSD	4.509	1.905	16.20	8.695	8.909	773.5	1.694	6.435
#1	.0040	.0011	.0009	.0033	.0024	.0005	.0035	.0047
#2	.0044	.0012	.0010	.0028	.0021	-.0002	.0034	.0041
#3	.0041	.0011	.0007	.0032	.0025	-.0002	.0034	.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-20.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0001**	**.0025**	**.0111**	**.0031**	F **.0039**	F **.0009**	**.0063**	F **-.0003**
Stddev	.0002	.0002	.0002	.0010	.0010	.0008	.0012	.0011
%RSD	379.3	6.799	1.931	31.13	25.99	82.95	18.45	339.1
#1	-.0002	.0026	.0113	.0020	.0050	.0000	.0061	.0006
#2	-.0000	.0023	.0110	.0037	.0035	.0014	.0075	-.0001
#3	.0001	.0025	.0109	.0037	.0031	.0013	.0052	-.0015
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value	.0020				.0020	.0025		.0030
Range	-20.00%				20.00%	-20.00%		-20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1168**	**1.089**	**.0005**	**.0965**	**2.061**	**1.031**	**.0021**	**.0017**
Stddev	.0091	.010	.0079	.0476	.030	.009	.0001	.0002
%RSD	7.804	.9010	1670.	49.37	1.456	.8422	6.819	9.504
#1	.1228	1.078	-.0083	.0656	2.092	1.040	.0020	.0018
#2	.1063	1.095	.0070	.0725	2.032	1.022	.0022	.0015
#3	.1213	1.095	.0027	.1513	2.059	1.032	.0020	.0016
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Zoom In Zoom Out

Sample Name: crid 7 Acquired: 12/7/2018 12:46:08 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0008**	**-.0001**	**.0000**	**.0009**	**.0001**	**.0021**	**-.0001**
Stddev	.0007	.0005	.0002	.0001	.0006	.0000	.0010	.0003
%RSD	57.52	65.77	162.7	186.7	59.61	33.46	47.86	460.4
#1	-.0005	.0006	.0000	.0001	.0012	.0001	.0031	-.0000
#2	-.0020	.0004	-.0000	.0001	.0013	.0002	.0011	.0002
#3	-.0014	.0014	-.0003	-.0000	.0003	.0001	.0020	-.0004
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0024**	**.0008**
Stddev	.0004	.0004
%RSD	18.28	46.02
#1	.0020	.0008
#2	.0022	.0004
#3	.0028	.0011
Check ?	None	None
Value		
Range		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108330.**	**3904.6**	**4565.0**	**9210.9**
Stddev	1342.	6.5	7.5	9.5
%RSD	1.2387	.16524	.16382	.10323
#1	106840.	3905.4	4571.5	9220.6
#2	109430.	3897.8	4566.7	9210.5
#3	108730.	3910.6	4556.8	9201.6

Zoom In Zoom Out

Sample Name: cri Acquired: 12/7/2018 12:51:40 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1934**	**.0020**	**.0030**	**.0501**	**.0104**	**.0101**	**.0161**	**.0101**	**.0048**
Stddev	.0001	.0001	.0001	.0003	.0002	.0003	.0001	.0000	.0002
%RSD	.0377	4.084	3.638	.5653	2.100	3.057	.7109	.2584	3.989
#1	.1934	.0021	.0031	.0500	.0104	.0104	.0162	.0100	.0050
#2	.1935	.0019	.0029	.0499	.0102	.0098	.0160	.0101	.0047
#3	.1935	.0021	.0030	.0504	.0106	.0100	.0161	.0101	.0047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0516**	**.0206**	**.0085**	**.0112**	F **.0041**	**.0089**	**.0058**	**.2118**	**5.056**
Stddev	.0004	.0000	.0013	.0020	.0004	.0017	.0007	.0091	.018
%RSD	.7961	.1040	15.36	17.69	9.824	18.69	11.61	4.304	.3604
#1	.0519	.0206	.0070	.0120	.0045	.0094	.0063	.2018	5.036
#2	.0511	.0206	.0092	.0089	.0042	.0103	.0061	.2137	5.071
#3	.0517	.0205	.0093	.0126	.0037	.0071	.0050	.2197	5.061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					.0030				
Range					20.00%				

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1004**	**4.930**	**4.697**	**4.759**	**.0968**	**.0217**	**.2004**	**.0100**	**.0101**
Stddev	.0051	.071	.017	.007	.0004	.0003	.0006	.0001	.0002
%RSD	5.087	1.434	.3658	.1464	.3902	1.192	.3101	1.277	1.873
#1	.0972	4.851	4.689	4.767	.0966	.0218	.2004	.0101	.0101
#2	.0977	4.949	4.685	4.755	.0972	.0219	.2010	.0101	.0099
#3	.1063	4.989	4.717	4.755	.0965	.0214	.1997	.0099	.0103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: cri Acquired: 12/7/2018 12:51:40 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104**	**.0514**	F **.0182**	**.0499**	**.0192**	**.0514**	**.0496**
Stddev	.0003	.0013	.0006	.0017	.0006	.0002	.0001
%RSD	2.526	2.620	3.173	3.324	3.370	.4526	.2738
#1	.0102	.0509	.0188	.0518	.0196	.0514	.0496
#2	.0104	.0529	.0179	.0488	.0195	.0512	.0498
#3	.0107	.0503	.0177	.0491	.0184	.0517	.0495
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0100				
Range			20.00%				

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106890.**	**3890.0**	**4626.2**	**9378.4**
Stddev	681.	2.4	3.7	9.4
%RSD	.63727	.06277	.08001	.10021
#1	106270.	3889.9	4624.1	9368.2
#2	107620.	3887.7	4624.0	9386.7
#3	106780.	3892.6	4630.5	9380.2

Zoom In Zoom Out

Sample Name: icsa Acquired: 12/7/2018 12:57:07 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0001**	**.0002**	**-.0005**	**.0002**	**-.0045**	**.0053**	**-.0013**	**.0040**
Stddev	.0001	.0000	.0002	.0001	.0002	.0003	.0001	.0001	.0009
%RSD	4.641	21.81	103.6	20.62	93.42	7.082	2.528	7.750	21.54
#1	.0017	.0001	.0005	-.0005	.0000	-.0047	.0051	-.0014	.0032
#2	.0015	.0001	.0001	-.0007	.0004	-.0046	.0054	-.0014	.0049
#3	.0015	.0002	.0001	-.0005	.0002	-.0041	.0054	-.0012	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0015**	**.0008**	**.0024**	**.0016**	**-.0011**	**-.0006**	**.0036**	**526.8**	**406.8**
Stddev	.0000	.0002	.0004	.0022	.0027	.0017	.0020	1.7	.7
%RSD	2.002	27.01	17.28	137.6	244.6	295.5	56.16	.3256	.1716
#1	-.0016	.0010	.0020	.0033	-.0009	-.0022	.0059	525.0	406.3
#2	-.0015	.0006	.0024	-.0008	.0015	.0012	.0021	526.9	406.4
#3	-.0015	.0009	.0028	.0022	-.0039	-.0007	.0028	528.4	407.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**208.4**	**536.4**	**.0477**	**.0378**	**.0005**	**.0042**	**-.0085**	**-.0042**	**-.0066**
Stddev	.5	.2	.0126	.0070	.0003	.0002	.0008	.0003	.0002
%RSD	.2629	.0345	26.43	18.51	49.55	5.403	9.415	8.132	2.333
#1	207.9	536.5	.0408	.0344	.0003	.0040	-.0075	-.0042	-.0067
#2	208.5	536.2	.0401	.0458	.0005	.0045	-.0090	-.0045	-.0064
#3	209.0	536.5	.0623	.0331	.0008	.0041	-.0089	-.0038	-.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: icsa Acquired: 12/7/2018 12:57:07 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**.0116**	**-.0072**	**-.0161**	**.0089**	**.0055**	**.0183**
Stddev	.0001	.0006	.0003	.0016	.0005	.0008	.0017
%RSD	4.577	5.407	3.560	9.812	6.189	14.20	9.188
#1	.0033	.0115	-.0075	-.0164	.0094	.0054	.0163
#2	.0032	.0122	-.0070	-.0144	.0088	.0063	.0193
#3	.0031	.0110	-.0073	-.0175	.0083	.0047	.0192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97887.**	**3599.0**	**4420.4**	**9043.0**
Stddev	770.	3.0	7.9	7.7
%RSD	.78674	.08336	.17794	.08492
#1	97231.	3596.5	4428.6	9045.4
#2	98735.	3602.3	4412.9	9049.3
#3	97695.	3598.1	4419.8	9034.5

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/7/2018 13:02:21 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5281**	**.4948**	**1.010**	**.4734**	**.4820**	**.5310**	**.5061**	**.9496**	**1.048**
Stddev	.0004	.0020	.001	.0008	.0028	.0012	.0017	.0022	.002
%RSD	.0664	.4052	.0718	.1616	.5822	.2294	.3364	.2310	.1971
#1	.5279	.4927	1.010	.4726	.4850	.5324	.5080	.9477	1.050
#2	.5285	.4967	1.011	.4736	.4795	.5307	.5048	.9490	1.047
#3	.5280	.4949	1.010	.4740	.4814	.5300	.5055	.9520	1.047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4895**	**.9232**	**1.022**	**1.017**	**.9685**	**.9961**	**1.060**	**512.1**	**391.5**
Stddev	.0016	.0023	.002	.002	.0023	.0035	.001	.7	.9
%RSD	.3269	.2543	.1492	.1993	.2323	.3534	.1362	.1274	.2395
#1	.4913	.9205	1.021	1.018	.9661	.9925	1.059	511.5	390.4
#2	.4882	.9246	1.024	1.015	.9689	.9996	1.061	512.8	392.3
#3	.4891	.9246	1.021	1.018	.9706	.9961	1.059	512.2	391.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**200.3**	**506.9**	**.0160**	**.0427**	**.4859**	**.4962**	**.5091**	**.4761**	**.5742**
Stddev	.6	2.1	.0042	.0083	.0012	.0008	.0009	.0014	.0005
%RSD	.3021	.4081	26.01	19.31	.2387	.1543	.1686	.2848	.0865
#1	199.7	504.6	.0113	.0333	.4865	.4971	.5094	.4763	.5746
#2	200.9	508.7	.0191	.0482	.4846	.4956	.5099	.4774	.5736
#3	200.4	507.3	.0177	.0468	.4867	.4959	.5082	.4747	.5744
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/7/2018 13:02:21 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5003**	**.4931**	**.4750**	**.4387**	**.5512**	**.5198**	**.4996**
Stddev	.0012	.0016	.0026	.0038	.0036	.0013	.0029
%RSD	.2469	.3227	.5550	.8754	.6581	.2557	.5777
#1	.5016	.4919	.4727	.4427	.5539	.5194	.5009
#2	.4992	.4925	.4743	.4350	.5527	.5212	.4963
#3	.5000	.4949	.4779	.4385	.5471	.5186	.5017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**97621.**	**3688.0**	**4335.4**	**8913.5**
Stddev	424.	15.1	7.8	9.0
%RSD	.43451	.40835	.17900	.10043
#1	97148.	3705.3	4328.5	8903.2
#2	97968.	3678.6	4333.9	8918.0
#3	97745.	3679.9	4343.8	8919.4

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 12/7/2018 13:07:24 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.025**	**7.962**	**7.783**	**8.162**	**8.345**	**7.833**	**8.056**	**8.177**	**.6183**
Stddev	.024	.013	.007	.008	.016	.034	.006	.013	.0013
%RSD	.2926	.1615	.0903	.1013	.1954	.4334	.0759	.1557	.2073
#1	8.020	7.962	7.789	8.164	8.363	7.871	8.058	8.181	.6197
#2	8.005	7.950	7.784	8.170	8.342	7.824	8.049	8.186	.6175
#3	8.051	7.975	7.775	8.153	8.330	7.805	8.060	8.162	.6176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.161**	**8.288**	**8.072**	**8.042**	**8.122**	**7.874**	**7.937**	**.1042**	**.0242**
Stddev	.022	.017	.006	.008	.009	.012	.019	.0072	.0106
%RSD	.2752	.2049	.0790	.1028	.1075	.1480	.2372	6.929	43.54
#1	8.187	8.289	8.079	8.047	8.128	7.888	7.956	.1125	.0121
#2	8.146	8.305	8.069	8.047	8.126	7.868	7.919	.1005	.0298
#3	8.150	8.271	8.068	8.033	8.112	7.867	7.937	.0995	.0309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0082**	**-.0649**	**.0436**	**.0274**	**7.837**	**8.050**	**25.61**	**8.153**	**7.938**
Stddev	.0016	.0088	.0053	.0074	.012	.006	.03	.007	.013
%RSD	19.30	13.62	12.11	27.12	.1564	.0798	.1101	.0819	.1689
#1	-.0100	-.0616	.0482	.0212	7.851	8.057	25.64	8.154	7.940
#2	-.0074	-.0749	.0379	.0252	7.829	8.044	25.59	8.159	7.923
#3	-.0071	-.0581	.0447	.0356	7.831	8.051	25.60	8.146	7.950
Check ?	None	None	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd 7 Acquired: 12/7/2018 13:07:24 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.175**	**8.296**	**8.018**	**102.0**	**7.564**	**7.615**	**7.860**
Stddev	.020	.004	.020	.2	.018	.018	.008
%RSD	.2472	.0490	.2492	.1574	.2333	.2410	.1061
#1	8.189	8.293	8.040	102.2	7.581	7.616	7.867
#2	8.184	8.301	8.014	102.0	7.546	7.596	7.861
#3	8.152	8.295	8.000	101.9	7.565	7.632	7.851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106250.**	**3934.4**	**4466.6**	**9293.4**
Stddev	310.	10.5	10.0	21.1
%RSD	.29185	.26726	.22347	.22705
#1	105920.	3940.9	4455.1	9270.6
#2	106310.	3940.0	4471.7	9297.2
#3	106530.	3922.3	4473.0	9312.3

Zoom In Zoom Out

Sample Name: hstd Acquired: 12/7/2018 13:13:13 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0018**	**.0019**	**.0016**	**.0019**	**.0005**	**.0062**	**.0009**	**.0022**
Stddev	.0002	.0001	.0001	.0003	.0000	.0004	.0006	.0002	.0023
%RSD	8.518	3.010	6.075	18.54	.3802	90.27	9.399	25.92	102.4
#1	.0018	.0018	.0018	.0013	.0019	.0007	.0064	.0009	.0034
#2	.0022	.0017	.0020	.0018	.0019	-.0000	.0055	.0007	-.0004
#3	.0020	.0017	.0019	.0019	.0019	.0007	.0066	.0011	.0036
Check ?	None	None	None	None	None	None	None	None	None
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0154**	**.0026**	**.0014**	**-.0018**	**-.0024**	**-.0004**	**304.0**	**199.4**
Stddev	.0003	.0005	.0011	.0034	.0018	.0003	.0042	10.6	6.8
%RSD	226.0	3.112	41.53	237.0	95.24	13.12	1116.	3.485	3.427
#1	-.0000	.0156	.0025	.0002	-.0027	-.0023	.0039	307.8	202.1
#2	.0001	.0157	.0037	-.0011	-.0030	-.0028	-.0005	292.1	191.6
#3	-.0005	.0148	.0015	.0053	.0002	-.0022	-.0044	312.3	204.5
Check ?	None	None	None	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**190.6**	**301.8**	**203.2**	**200.8**	**.0076**	**.0229**	**.0101**	**-.0030**	**-.0012**
Stddev	6.7	11.1	6.7	7.6	.0005	.0029	.0006	.0008	.0002
%RSD	3.506	3.666	3.296	3.784	6.822	12.55	5.668	25.59	15.84
#1	193.2	306.3	205.9	201.8	.0074	.0261	.0102	-.0031	-.0012
#2	183.0	289.2	195.6	192.7	.0072	.0221	.0106	-.0037	-.0010
#3	195.6	309.8	208.1	207.8	.0082	.0205	.0095	-.0022	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	None
Value									
Range									

Zoom In Zoom Out

Sample Name: hstd Acquired: 12/7/2018 13:13:13 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**.0159**	**-.0066**	**-.0070**	**.0095**	**.0201**	**.0100**
Stddev	.0004	.0015	.0003	.0032	.0009	.0010	.0008
%RSD	14.10	9.355	5.265	46.12	9.091	5.093	7.557
#1	.0023	.0176	-.0063	-.0090	.0087	.0200	.0103
#2	.0031	.0147	-.0070	-.0033	.0104	.0191	.0091
#3	.0028	.0155	-.0065	-.0087	.0094	.0212	.0106
Check ?	None	None	None	None	None	None	None
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99435.**	**3737.0**	**4188.1**	**8554.1**
Stddev	152.	117.0	22.1	36.6
%RSD	.15313	3.1313	.52697	.42751
#1	99430.	3684.8	4213.2	8594.9
#2	99590.	3871.1	4179.3	8543.3
#3	99286.	3655.2	4171.8	8524.2

Zoom In Zoom Out

Sample Name: feconf Acquired: 12/7/2018 13:18:40 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0000**	**-.0001**	**.0000**	**.0008**	**-.0022**	**.0039**	**-.0005**	**.0016**
Stddev	.0003	.0000	.0000	.0002	.0000	.0002	.0001	.0005	.0004
%RSD	59.48	449.4	19.39	12540.	5.692	9.306	1.292	99.42	24.59
#1	.0004	-.0000	-.0001	.0002	.0008	-.0022	.0039	-.0007	.0011
#2	.0003	.0001	-.0002	.0001	.0008	-.0024	.0039	.0001	.0018
#3	.0008	-.0000	-.0001	-.0002	.0007	-.0020	.0040	-.0008	.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**-.0025**	**-.0002**	**-.0018**	**-.0001**	**-.0003**	**-.0006**	**.0111**	**-.0340**
Stddev	.0002	.0001	.0003	.0019	.0004	.0005	.0005	.0115	.0030
%RSD	19.29	2.266	161.6	107.9	285.8	156.6	76.02	104.0	8.717
#1	-.0009	-.0026	-.0003	.0001	-.0004	-.0006	-.0006	.0068	-.0311
#2	-.0013	-.0025	-.0004	-.0037	.0003	.0002	-.0012	.0023	-.0338
#3	-.0014	-.0025	.0002	-.0017	-.0003	-.0006	-.0002	.0241	-.0370

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **204.4**	**.0233**	**.2317**	**.0706**	**.0018**	**.0056**	**-.0020**	**-.0015**	**-.0003**
Stddev	.1	.0220	.0166	.0085	.0005	.0006	.0004	.0005	.0001
%RSD	.0524	94.63	7.176	12.04	30.14	11.23	21.17	32.39	25.83
#1	204.5	.0204	.2345	.0791	.0021	.0062	-.0016	-.0021	-.0003
#2	204.5	.0467	.2467	.0621	.0020	.0056	-.0025	-.0013	-.0003
#3	204.3	.0029	.2138	.0706	.0012	.0049	-.0019	-.0012	-.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0034**	**-.0064**	**-.0211**	**.0137**	**.0066**	**.0022**
Stddev	.0002	.0001	.0002	.0015	.0007	.0001	.0004
%RSD	186.3	2.327	3.219	7.352	5.056	1.869	17.99
#1	.0002	.0035	-.0066	-.0201	.0143	.0065	.0019
#2	-.0001	.0033	-.0063	-.0228	.0130	.0068	.0021
#3	.0003	.0034	-.0062	-.0202	.0140	.0066	.0026

Zoom In Zoom Out

Sample Name: feconf Acquired: 12/7/2018 13:18:40 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108420.**	**3895.7**	**4483.2**	**9257.5**
Stddev	622.	9.6	41.8	75.1
%RSD	.57367	.24543	.93292	.81115
#1	108030.	3892.4	4531.4	9344.2
#2	108090.	3888.2	4457.7	9214.9
#3	109140.	3906.4	4460.4	9213.4

Zoom In Zoom Out

Sample Name: crconf Acquired: 12/7/2018 13:24:10 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**-.0000**	**-.0020**	F **10.45**	**-.0008**	**-.0011**	**.0008**	**-.0001**
Stddev	.0003	.0001	.0001	.0004	.02	.0001	.0000	.0001	.0002
%RSD	605.1	11870.	1510.	17.46	.2232	9.179	1.314	7.470	256.9
#1	-.0003	-.0001	-.0001	-.0017	10.48	-.0009	-.0011	.0008	-.0001
#2	.0002	.0000	.0000	-.0024	10.43	-.0007	-.0011	.0008	-.0003
#3	.0003	.0000	.0001	-.0019	10.46	-.0009	-.0011	.0009	.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0128**	**-.0033**	**.0027**	**.0030**	**.0013**	**-.0010**	**.0016**	**.0034**	**.0119**
Stddev	.0002	.0001	.0006	.0009	.0013	.0002	.0011	.0034	.0057
%RSD	1.209	1.748	22.17	29.58	105.4	19.71	71.35	99.36	47.72
#1	-.0126	-.0032	.0021	.0031	.0010	-.0011	.0020	.0021	.0131
#2	-.0129	-.0033	.0028	.0037	.0027	-.0008	.0003	.0073	.0058
#3	-.0129	-.0033	.0032	.0020	.0001	-.0012	.0025	.0009	.0170

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078**	**-.0039**	**.1027**	**.0167**	**.0025**	**.0043**	**-.0040**	**-.0005**	**-.0000**
Stddev	.0066	.0189	.0196	.0024	.0004	.0004	.0002	.0004	.0002
%RSD	85.10	485.1	19.09	14.12	16.28	10.39	3.878	86.95	680.9
#1	.0137	-.0242	.1200	.0175	.0029	.0047	-.0039	-.0002	-.0002
#2	.0006	.0131	.0814	.0185	.0024	.0044	-.0040	-.0003	.0001
#3	.0090	-.0006	.1066	.0140	.0021	.0038	-.0042	-.0009	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0010**	**-.0084**	**.0029**	**-.0036**	**.0030**	**.0000**
Stddev	.0004	.0006	.0001	.0017	.0013	.0005	.0002
%RSD	26.42	59.00	.7219	58.59	36.80	15.63	440.7
#1	.0015	.0013	-.0083	.0010	-.0052	.0035	-.0002
#2	.0009	.0014	-.0085	.0044	-.0027	.0027	.0001
#3	.0016	.0003	-.0084	.0032	-.0030	.0027	.0002

Zoom In Zoom Out

Sample Name: crconf Acquired: 12/7/2018 13:24:10 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108860.**	**3859.1**	**4787.9**	**9962.6**
Stddev	111.	27.0	.9	9.9
%RSD	.10202	.69976	.01782	.09980
#1	108730.	3877.5	4788.3	9961.7
#2	108920.	3828.1	4786.9	9953.1
#3	108930.	3871.7	4788.4	9973.0

Zoom In Zoom Out

Sample Name: cri Acquired: 12/7/2018 13:29:41 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1946**	**.0019**	**.0030**	**.0507**	**.0104**	**.0090**	**.0158**	**.0103**	**.0050**
Stddev	.0002	.0001	.0001	.0004	.0002	.0002	.0001	.0000	.0002
%RSD	.1277	3.558	3.204	.8358	1.542	1.766	.7436	.3719	3.064
#1	.1948	.0020	.0030	.0511	.0103	.0091	.0159	.0103	.0048
#2	.1947	.0018	.0032	.0506	.0103	.0088	.0157	.0103	.0051
#3	.1944	.0020	.0030	.0503	.0106	.0091	.0159	.0104	.0049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0511**	**.0211**	**.0079**	**.0088**	**.0035**	**.0114**	**.0061**	**.2039**	**5.067**
Stddev	.0005	.0001	.0010	.0009	.0004	.0009	.0005	.0150	.018
%RSD	.9081	.4480	12.29	10.21	12.57	8.266	8.703	7.356	.3477
#1	.0516	.0211	.0068	.0086	.0030	.0113	.0056	.2187	5.048
#2	.0507	.0212	.0083	.0097	.0037	.0124	.0059	.2044	5.071
#3	.0511	.0210	.0086	.0080	.0039	.0105	.0066	.1887	5.083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1027**	**4.983**	**4.792**	**4.738**	**.1016**	**.0230**	**.2057**	**.0104**	**.0100**
Stddev	.0023	.060	.032	.018	.0003	.0005	.0005	.0008	.0001
%RSD	2.235	1.199	.6591	.3704	.3401	2.039	.2277	7.917	.5192
#1	.1001	4.932	4.827	4.734	.1020	.0232	.2060	.0094	.0099
#2	.1044	5.049	4.766	4.723	.1015	.0234	.2059	.0108	.0100
#3	.1037	4.969	4.783	4.758	.1013	.0225	.2051	.0109	.0100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: cri Acquired: 12/7/2018 13:29:41 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0105**	**.0509**	F **.0128**	**.0528**	**.0188**	**.0523**	**.0503**
Stddev	.0002	.0007	.0002	.0012	.0005	.0006	.0002
%RSD	1.864	1.471	1.551	2.204	2.701	1.224	.3298
#1	.0107	.0510	.0130	.0541	.0191	.0525	.0505
#2	.0105	.0515	.0127	.0519	.0182	.0528	.0501
#3	.0104	.0501	.0127	.0525	.0191	.0516	.0502
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0100				
Range			20.00%				

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108180.**	**3818.2**	**4441.8**	**8949.9**
Stddev	486.	6.7	3.8	10.3
%RSD	.44960	.17562	.08465	.11494
#1	107780.	3810.8	4445.6	8939.6
#2	108720.	3820.2	4438.1	8950.0
#3	108020.	3823.7	4441.5	8960.1

Zoom In Zoom Out

Sample Name: asconf Acquired: 12/7/2018 13:35:10 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0000**	**-.0010**	**-.0004**	**.0001**	**.0008**	**.0000**	**-.0001**	**-.0006**
Stddev	.0004	.0000	.0001	.0002	.0002	.0003	.0000	.0001	.0001
%RSD	170.9	255.9	12.75	56.21	189.3	40.71	129.8	141.8	8.863
#1	-.0006	.0000	-.0009	-.0002	-.0000	.0008	.0000	.0000	-.0007
#2	-.0002	-.0000	-.0009	-.0004	.0000	.0005	.0000	-.0002	-.0006
#3	.0002	-.0001	-.0011	-.0006	.0003	.0011	.0000	-.0001	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**5.459**	**-.0002**	**.0006**	**.0010**	**.0012**	**.0092**	**.0052**
Stddev	.0002	.0001	.014	.0012	.0004	.0014	.0013	.0166	.0010
%RSD	277.8	82.08	.2559	601.0	64.39	148.5	108.1	180.8	19.97
#1	.0004	.0000	5.463	-.0016	.0005	-.0003	.0017	.0099	.0040
#2	-.0000	.0001	5.471	.0006	.0003	.0025	.0023	-.0078	.0060
#3	-.0001	.0002	5.443	.0003	.0011	.0006	-.0003	.0254	.0056

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0053**	**-.0209**	**.0455**	**.0011**	**.0023**	**.0012**	**-.0002**	**.0001**	**-.0000**
Stddev	.0044	.0439	.0053	.0032	.0004	.0001	.0002	.0003	.0001
%RSD	81.81	209.9	11.56	296.2	16.62	5.756	109.7	343.6	196.2
#1	.0093	.0295	.0487	-.0005	.0023	.0013	.0000	-.0003	.0000
#2	.0061	-.0510	.0484	.0047	.0027	.0012	-.0003	.0002	-.0000
#3	.0006	-.0413	.0394	-.0010	.0019	.0011	-.0003	.0004	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0002**	**-.0000**	**.0000**	**-.0010**	**.0011**	**-.0001**
Stddev	.0001	.0006	.0001	.0019	.0008	.0007	.0002
%RSD	29.53	291.7	612.7	16930.	76.91	57.57	179.4
#1	.0003	.0003	-.0001	-.0020	-.0006	.0005	-.0000
#2	.0005	-.0009	-.0001	.0019	-.0005	.0010	.0000
#3	.0004	-.0000	.0001	.0001	-.0019	.0018	-.0004

Zoom In Zoom Out

Sample Name: asconf Acquired: 12/7/2018 13:35:10 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107930.**	**3829.2**	**4359.7**	**8752.3**
Stddev	1026.	13.1	9.0	14.0
%RSD	.95066	.34331	.20738	.15963
#1	107460.	3841.1	4365.7	8761.4
#2	109110.	3831.5	4349.3	8736.2
#3	107240.	3815.1	4364.1	8759.3

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/7/2018 13:40:40 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.008**	**2.021**	**1.968**	**2.001**	**2.069**	**1.985**	**2.065**	**2.008**	**.2553**
Stddev	.005	.003	.002	.004	.008	.020	.011	.004	.0022
%RSD	.2406	.1516	.0805	.2137	.3714	1.010	.5099	.2053	.8741
#1	2.003	2.019	1.970	1.999	2.071	1.974	2.075	2.006	.2554
#2	2.013	2.024	1.967	2.006	2.075	2.008	2.066	2.013	.2575
#3	2.008	2.018	1.968	1.999	2.060	1.972	2.054	2.006	.2530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.042**	**1.983**	**1.934**	**2.045**	**2.021**	**1.883**	**1.981**	**39.42**	**40.20**
Stddev	.012	.004	.002	.006	.004	.004	.004	.20	.14
%RSD	.5856	.2077	.0888	.3109	.1857	.1913	.2070	.5145	.3414
#1	2.042	1.978	1.932	2.042	2.017	1.887	1.986	39.29	40.19
#2	2.055	1.987	1.934	2.041	2.023	1.880	1.980	39.66	40.34
#3	2.031	1.983	1.935	2.052	2.024	1.882	1.978	39.32	40.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.63**	**39.83**	**39.89**	**39.42**	**1.923**	**2.044**	**5.055**	**2.025**	**2.011**
Stddev	.11	.22	.14	.16	.004	.003	.009	.005	.005
%RSD	.2684	.5408	.3614	.4044	.2082	.1332	.1722	.2410	.2511
#1	39.58	39.78	39.72	39.31	1.928	2.046	5.061	2.030	2.006
#2	39.75	40.06	40.00	39.61	1.921	2.044	5.045	2.024	2.016
#3	39.55	39.64	39.93	39.36	1.921	2.041	5.059	2.021	2.011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/7/2018 13:40:40 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.070**	**2.002**	**2.036**	**1.851**	**1.958**	**2.033**	**1.899**
Stddev	.013	.001	.013	.005	.004	.006	.002
%RSD	.6241	.0450	.6118	.2934	.2029	.2753	.1261
#1	2.070	2.003	2.031	1.857	1.963	2.028	1.901
#2	2.083	2.002	2.051	1.849	1.955	2.039	1.897
#3	2.057	2.003	2.028	1.847	1.957	2.032	1.901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104340.**	**3782.7**	**4651.1**	**9486.0**
Stddev	545.	17.1	5.9	7.7
%RSD	.52213	.45131	.12641	.08103
#1	104390.	3787.1	4646.8	9494.8
#2	103770.	3763.8	4657.8	9482.5
#3	104860.	3797.1	4648.7	9480.6

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 13:45:53 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0001**	**.0001**	**-.0003**	**.0001**	**-.0008**	**.0001**	**.0001**	**-.0001**
Stddev	.0001	.0000	.0001	.0002	.0001	.0002	.0000	.0000	.0002
%RSD	34.52	51.63	63.36	69.06	116.7	25.26	33.49	38.92	167.3
#1	-.0001	.0000	.0002	-.0003	.0002	-.0009	.0000	.0000	-.0004
#2	-.0002	.0001	.0000	-.0001	-.0000	-.0008	.0001	.0001	-.0001
#3	-.0001	.0001	.0001	-.0004	.0002	-.0006	.0001	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**-.0005**	F **.0026**	**.0011**	**-.0005**	**.0013**	**.0040**	**.0105**
Stddev	.0001	.0001	.0005	.0025	.0007	.0009	.0004	.0041	.0045
%RSD	97.02	81.76	87.54	97.85	58.00	197.5	29.99	102.4	42.82
#1	.0002	.0000	-.0010	.0052	.0017	.0006	.0011	.0087	.0145
#2	-.0000	.0002	-.0004	.0001	.0004	-.0007	.0018	.0016	.0056
#3	.0002	.0002	-.0001	.0024	.0013	-.0013	.0011	.0017	.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0020					
Low Limit				-.0020					

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066**	**-.0066**	**.0631**	**.0075**	**.0031**	F **.0043**	**.0025**	**.0001**	**.0002**
Stddev	.0071	.0099	.0223	.0061	.0003	.0006	.0003	.0008	.0000
%RSD	108.3	150.5	35.37	80.73	11.09	13.09	12.83	551.5	5.825
#1	.0002	.0011	.0415	.0103	.0027	.0049	.0023	.0009	.0002
#2	.0143	-.0177	.0861	.0006	.0030	.0041	.0029	-.0007	.0002
#3	.0052	-.0031	.0618	.0117	.0034	.0039	.0024	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 13:45:53 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0028**	**.0003**	**.0008**	**.0004**	**.0030**	**.0005**
Stddev	.0001	.0004	.0001	.0007	.0005	.0005	.0003
%RSD	18.48	14.41	20.62	89.04	156.3	17.77	59.74
#1	.0004	.0031	.0003	.0006	.0010	.0025	.0009
#2	.0004	.0028	.0003	.0016	.0002	.0035	.0003
#3	.0003	.0023	.0004	.0002	-.0001	.0029	.0004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109690.**	**3948.3**	**4482.7**	**9040.2**
Stddev	357.	15.1	2.1	12.5
%RSD	.32575	.38218	.04611	.13790
#1	109980.	3963.0	4482.4	9052.8
#2	109290.	3932.9	4484.9	9039.9
#3	109810.	3949.0	4480.8	9027.9

Zoom In Zoom Out

Sample Name: mp11083-mb1 7 Acquired: 12/7/2018 13:51:24 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0001**	**.0000**	**-.0004**	**.0001**	**.0000**	**-.0000**	**-.0001**	**-.0001**
Stddev	.0002	.0001	.0001	.0001	.0001	.0002	.0000	.0002	.0002
%RSD	70.23	86.29	336.4	30.31	60.48	762.4	612.1	190.3	174.8
#1	-.0004	.0000	.0002	-.0004	.0001	.0003	-.0000	-.0003	-.0003
#2	-.0005	.0001	.0000	-.0005	.0001	-.0001	.0000	.0000	.0000
#3	-.0001	.0000	-.0001	-.0003	.0002	-.0001	-.0000	-.0000	-.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0001**	**.0002**	**.0006**	**.0013**	**.0001**	**.0007**	**.0112**	**.0039**
Stddev	.0001	.0002	.0004	.0007	.0004	.0019	.0020	.0094	.0066
%RSD	96.11	179.0	157.1	119.6	28.51	2815.	278.6	84.01	171.2
#1	.0001	-.0001	.0002	.0002	.0009	.0010	.0003	.0189	-.0016
#2	.0002	-.0003	-.0001	.0002	.0013	.0013	-.0010	.0141	.0020
#3	.0000	.0001	.0007	.0014	.0017	-.0021	.0030	.0007	.0112

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0021**	**.0061**	**.0711**	**.0163**	**.0020**	**.0015**	**.0030**	**-.0002**	**.0001**
Stddev	.0045	.0180	.0199	.0058	.0001	.0003	.0001	.0000	.0001
%RSD	213.9	293.1	28.00	35.85	6.316	19.17	3.219	23.77	127.6
#1	.0030	-.0138	.0487	.0208	.0020	.0016	.0029	-.0002	.0002
#2	-.0038	.0111	.0776	.0183	.0020	.0016	.0031	-.0002	.0000
#3	-.0054	.0211	.0869	.0097	.0018	.0011	.0031	-.0003	.0000

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0004**	**.0012**	**-.0007**	**.0016**	**.0023**
Stddev	.0001	.0013	.0001	.0015	.0002	.0004	.0008
%RSD	56.84	1530.	29.50	124.9	23.98	24.04	36.16
#1	.0003	.0002	.0005	.0030	-.0005	.0020	.0020
#2	.0004	-.0012	.0004	.0006	-.0009	.0014	.0016
#3	.0001	.0013	.0003	.0001	-.0007	.0014	.0032

Zoom In Zoom Out

Sample Name: mp11083-mb1 7 Acquired: 12/7/2018 13:51:24 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107790.**	**3837.5**	**4529.8**	**9191.1**
Stddev	341.	9.8	7.0	6.8
%RSD	.31673	.25618	.15461	.07388
#1	107400.	3848.5	4526.1	9184.1
#2	108050.	3829.7	4537.9	9197.7
#3	107910.	3834.4	4525.4	9191.5

Zoom In Zoom Out

Sample Name: mp11083-b1 Acquired: 12/7/2018 13:56:54 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.015**	**2.050**	**1.964**	**2.006**	**2.064**	**2.020**	**2.110**	**2.032**
Stddev	.005	.003	.004	.002	.005	.005	.004	.003
%RSD	.2749	.1658	.2016	.1128	.2429	.2465	.2118	.1428
#1	2.009	2.046	1.966	2.007	2.060	2.014	2.105	2.031
#2	2.019	2.053	1.967	2.003	2.061	2.021	2.112	2.029
#3	2.017	2.051	1.959	2.007	2.069	2.024	2.113	2.035

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2485**	**2.053**	**1.992**	**1.910**	**2.044**	**2.019**	**1.876**	**1.956**
Stddev	.0007	.006	.008	.006	.007	.004	.007	.006
%RSD	.2855	.2825	.3947	.2912	.3421	.2021	.3841	.3189
#1	.2477	2.049	1.993	1.914	2.046	2.015	1.881	1.958
#2	.2487	2.051	1.984	1.912	2.037	2.019	1.879	1.961
#3	.2491	2.060	1.999	1.903	2.050	2.023	1.868	1.949

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.13**	**25.54**	**25.41**	**24.77**	**25.17**	**25.09**	**1.916**	**2.045**
Stddev	.07	.03	.02	.04	.07	.06	.004	.004
%RSD	.2931	.1349	.0978	.1715	.2932	.2410	.2277	.1938
#1	25.08	25.51	25.42	24.79	25.08	25.02	1.918	2.045
#2	25.22	25.58	25.43	24.79	25.22	25.13	1.919	2.049
#3	25.10	25.53	25.38	24.72	25.21	25.12	1.911	2.041

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0362**	**2.039**	**2.031**	**2.056**	**1.919**	**2.038**	F **-.2085**	**-.0096**
Stddev	.0005	.001	.004	.005	.008	.005	.0019	.0005
%RSD	1.428	.0572	.1722	.2393	.4297	.2486	.8895	5.025
#1	.0357	2.040	2.028	2.052	1.927	2.033	-.2071	-.0099
#2	.0361	2.038	2.034	2.054	1.918	2.037	-.2106	-.0098
#3	.0368	2.039	2.033	2.061	1.911	2.043	-.2077	-.0090

Zoom In Zoom Out

Sample Name: mp11083-b1 Acquired: 12/7/2018 13:56:54 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0026**	**1.935**
Stddev	.0008	.011
%RSD	31.64	.5735
#1	.0034	1.932
#2	.0026	1.947
#3	.0018	1.926

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104560.**	**3816.6**	**4651.6**	**9500.8**
Stddev	414.	6.6	45.2	72.2
%RSD	.39558	.17346	.97262	.76044
#1	104870.	3817.5	4627.7	9459.3
#2	104710.	3809.6	4623.3	9458.8
#3	104090.	3822.7	4703.8	9584.2

Zoom In Zoom Out

Sample Name: mp11083-s1 Acquired: 12/7/2018 14:02:05 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.217**	**2.028**	**1.983**	**1.977**	**2.025**	**2.040**	**2.097**	**2.008**	**.2544**
Stddev	.005	.000	.002	.004	.015	.007	.013	.004	.0017
%RSD	.2188	.0107	.0881	.1956	.7166	.3476	.6314	.1760	.6732
#1	2.222	2.028	1.985	1.975	2.010	2.037	2.082	2.006	.2530
#2	2.217	2.028	1.981	1.981	2.026	2.034	2.102	2.012	.2538
#3	2.212	2.028	1.983	1.974	2.038	2.048	2.107	2.005	.2563

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.034**	**2.436**	**1.940**	**2.017**	**2.000**	**1.896**	**1.996**	**25.37**	**131.2**
Stddev	.012	.007	.003	.005	.005	.002	.004	.03	.3
%RSD	.5898	.2959	.1354	.2292	.2755	.1162	.1804	.1052	.2433
#1	2.024	2.441	1.937	2.013	2.001	1.894	1.996	25.35	130.8
#2	2.031	2.439	1.941	2.022	2.004	1.897	1.992	25.36	131.4
#3	2.047	2.428	1.943	2.016	1.993	1.898	1.999	25.40	131.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.39**	**51.87**	**35.48**	**34.04**	**2.100**	**2.051**	**16.62**	**2.032**	**2.722**
Stddev	.07	.29	.03	.04	.003	.002	.03	.003	.005
%RSD	.2951	.5545	.0741	.1212	.1639	.0846	.1689	.1519	.1832
#1	25.31	51.59	35.51	34.06	2.099	2.050	16.62	2.033	2.726
#2	25.43	52.16	35.46	34.06	2.097	2.050	16.59	2.035	2.722
#3	25.44	51.87	35.47	33.99	2.104	2.053	16.65	2.029	2.716

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.052**	**1.976**	**2.047**	**11.13**	**-.0108**	**.0275**	**2.002**
Stddev	.011	.003	.010	.00	.0007	.0006	.006
%RSD	.5248	.1537	.4674	.0343	6.042	2.003	.3109
#1	2.042	1.974	2.041	11.12	-.0108	.0269	2.008
#2	2.050	1.975	2.041	11.13	-.0114	.0276	2.002
#3	2.063	1.980	2.058	11.13	-.0101	.0280	1.995

Zoom In Zoom Out

Sample Name: mp11083-s1 Acquired: 12/7/2018 14:02:05 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102600.**	**3796.4**	**4495.6**	**9171.3**
Stddev	622.	9.9	3.3	8.9
%RSD	.60582	.26114	.07447	.09704
#1	103200.	3807.3	4493.2	9174.2
#2	102650.	3788.0	4499.4	9161.3
#3	101960.	3793.8	4494.3	9178.3

Zoom In Zoom Out

Sample Name: mp11083-s2 Acquired: 12/7/2018 14:07:14 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.198**	**2.012**	**1.962**	**1.963**	**2.010**	**2.036**	**2.091**	**1.999**	**.2521**
Stddev	.005	.004	.002	.001	.009	.008	.011	.004	.0006
%RSD	.2180	.1966	.1065	.0504	.4423	.4115	.5452	.1964	.2418
#1	2.204	2.008	1.962	1.964	2.019	2.041	2.089	2.002	.2527
#2	2.195	2.013	1.961	1.962	2.001	2.027	2.081	1.995	.2515
#3	2.196	2.016	1.965	1.963	2.011	2.042	2.103	2.001	.2522

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.023**	**2.422**	**1.914**	**2.009**	**1.989**	**1.876**	**1.966**	**25.12**	**130.8**
Stddev	.007	.008	.003	.003	.005	.003	.005	.01	.4
%RSD	.3713	.3443	.1506	.1690	.2570	.1468	.2627	.0540	.2752
#1	2.030	2.430	1.912	2.013	1.993	1.874	1.967	25.13	130.4
#2	2.015	2.413	1.913	2.006	1.984	1.875	1.960	25.11	131.1
#3	2.025	2.424	1.917	2.008	1.991	1.879	1.970	25.13	130.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.22**	**51.39**	**35.14**	**33.75**	**2.082**	**2.031**	**16.57**	**2.017**	**2.703**
Stddev	.04	.24	.02	.04	.002	.004	.01	.006	.003
%RSD	.1662	.4658	.0705	.1169	.0986	.1955	.0794	.2790	.1108
#1	25.17	51.12	35.16	33.79	2.081	2.030	16.57	2.022	2.707
#2	25.23	51.59	35.11	33.71	2.080	2.027	16.56	2.011	2.702
#3	25.25	51.45	35.15	33.75	2.084	2.035	16.59	2.019	2.701

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.029**	**1.961**	**2.035**	**11.05**	**-.0108**	**.0264**	**1.982**
Stddev	.007	.005	.007	.01	.0013	.0003	.007
%RSD	.3553	.2662	.3404	.0779	12.28	1.006	.3435
#1	2.034	1.966	2.039	11.05	-.0114	.0263	1.989
#2	2.021	1.956	2.027	11.05	-.0117	.0263	1.975
#3	2.032	1.960	2.038	11.06	-.0093	.0267	1.982

Zoom In Zoom Out

Sample Name: mp11083-s2 Acquired: 12/7/2018 14:07:14 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102500.**	**3804.5**	**4512.7**	**9176.3**
Stddev	506.	23.2	5.1	8.1
%RSD	.49399	.60998	.11243	.08858
#1	102000.	3831.1	4512.0	9172.6
#2	103010.	3788.5	4518.2	9185.6
#3	102490.	3793.9	4508.1	9170.7

Zoom In Zoom Out

Sample Name: jc78687-7 Acquired: 12/7/2018 14:12:23 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1790**	**.0001**	**.0018**	**-.0007**	**.0016**	**.0056**	**.0463**	**.0037**	**-.0002**
Stddev	.0010	.0000	.0001	.0004	.0000	.0002	.0001	.0001	.0001
%RSD	.5329	49.90	6.288	65.31	2.512	3.509	.1813	3.414	74.77
#1	.1800	.0001	.0019	-.0005	.0016	.0057	.0462	.0037	-.0001
#2	.1787	.0000	.0017	-.0012	.0016	.0054	.0463	.0036	-.0003
#3	.1782	.0001	.0018	-.0004	.0016	.0057	.0464	.0039	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.5194**	**.0004**	**.0007**	**-.0003**	**.0024**	**.0033**	**.0591**	**104.2**
Stddev	.0001	.0007	.0018	.0015	.0009	.0005	.0004	.0027	.2
%RSD	7.215	.1288	461.2	200.9	318.0	22.48	11.07	4.588	.2174
#1	.0018	.5198	.0023	.0013	-.0008	.0018	.0037	.0612	104.4
#2	.0016	.5186	.0000	-.0009	.0008	.0027	.0030	.0560	104.1
#3	.0016	.5197	-.0012	.0018	-.0008	.0028	.0032	.0600	104.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1161**	**27.08**	**9.424**	**8.272**	**.1705**	**.0065**	**16.35**	**-.0010**	**.6667**
Stddev	.0040	.04	.048	.027	.0006	.0005	.01	.0004	.0023
%RSD	3.460	.1410	.5064	.3295	.3569	7.771	.0677	36.76	.3448
#1	.1205	27.05	9.467	8.301	.1712	.0071	16.35	-.0012	.6693
#2	.1149	27.07	9.373	8.247	.1703	.0064	16.36	-.0006	.6659
#3	.1128	27.12	9.432	8.267	.1700	.0061	16.33	-.0012	.6650

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044**	**.0103**	**.0009**	**11.70**	**-.0030**	**.0258**	**.0804**
Stddev	.0002	.0014	.0001	.01	.0007	.0007	.0006
%RSD	5.549	13.33	6.397	.0462	24.43	2.634	.8007
#1	.0044	.0095	.0010	11.70	-.0037	.0266	.0804
#2	.0042	.0095	.0009	11.69	-.0030	.0253	.0797
#3	.0047	.0119	.0009	11.70	-.0022	.0256	.0810

Zoom In Zoom Out

Sample Name: jc78687-7 Acquired: 12/7/2018 14:12:23 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103330.**	**3739.1**	**4285.7**	**8656.6**
Stddev	202.	4.8	2.0	7.5
%RSD	.19559	.12893	.04730	.08657
#1	103460.	3733.6	4284.7	8652.6
#2	103440.	3742.0	4288.0	8665.2
#3	103100.	3741.8	4284.4	8651.9

Zoom In Zoom Out

Sample Name: mp11083-sd1 Acquired: 12/7/2018 14:17:45 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1689**	**.0003**	**.0005**	**-.0015**	**.0020**	**.0085**	**.0459**	**.0038**	**-.0028**
Stddev	.0012	.0004	.0004	.0019	.0008	.0017	.0002	.0021	.0008
%RSD	.7019	147.8	80.75	129.7	38.84	19.41	.5310	55.06	28.62
#1	.1695	-.0002	.0006	.0007	.0013	.0067	.0458	.0054	-.0027
#2	.1697	.0005	.0007	-.0025	.0028	.0091	.0462	.0014	-.0020
#3	.1675	.0006	.0000	-.0028	.0018	.0099	.0457	.0046	-.0036

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.5226**	**.0016**	**.0078**	**.0005**	**-.0005**	**.0041**	**.2344**	**101.0**
Stddev	.0008	.0037	.0042	.0124	.0006	.0069	.0038	.0329	.1
%RSD	38.97	.7149	258.0	159.7	111.6	1385.	91.94	14.06	.1345
#1	.0019	.5198	-.0027	.0181	-.0002	.0048	.0001	.2720	101.0
#2	.0013	.5212	.0018	.0113	.0008	.0020	.0047	.2205	101.1
#3	.0029	.5268	.0057	-.0060	.0010	-.0083	.0076	.2107	100.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1194**	**26.12**	**9.129**	**7.860**	**.1732**	**.0102**	**15.50**	**.0014**	**.6505**
Stddev	.0192	.15	.253	.061	.0028	.0008	.06	.0014	.0029
%RSD	16.05	.5582	2.768	.7804	1.612	7.800	.3564	99.96	.4441
#1	.1414	26.09	9.419	7.929	.1706	.0104	15.55	.0002	.6526
#2	.1058	25.99	8.953	7.814	.1729	.0108	15.50	.0030	.6472
#3	.1111	26.28	9.015	7.836	.1761	.0093	15.44	.0011	.6516

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063**	**.0186**	**.0015**	**11.59**	**-.0034**	**.0316**	**.0844**
Stddev	.0003	.0035	.0006	.04	.0043	.0022	.0025
%RSD	5.514	18.62	40.04	.3319	126.3	6.827	2.956
#1	.0061	.0166	.0021	11.59	-.0080	.0320	.0815
#2	.0067	.0226	.0015	11.54	.0006	.0336	.0860
#3	.0061	.0166	.0009	11.62	-.0029	.0293	.0857

Zoom In Zoom Out

Sample Name: mp11083-sd1 Acquired: 12/7/2018 14:17:45 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106310.**	**3812.7**	**4448.9**	**8958.1**
Stddev	296.	6.8	49.3	87.0
%RSD	.27805	.17877	1.1091	.97141
#1	106580.	3806.5	4402.4	8878.4
#2	106340.	3811.5	4443.6	8945.0
#3	105990.	3820.0	4500.7	9051.0

Zoom In Zoom Out

Sample Name: jc78976-1 Acquired: 12/7/2018 14:23:07 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: geqc

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3965**	**.0002**	**.0003**	**.0078**	**.0247**	**.0404**	**1.640**	**.0220**	**.0002**
Stddev	.0016	.0001	.0001	.0003	.0002	.0003	.003	.0003	.0002
%RSD	.3923	22.25	33.83	3.854	1.001	.8621	.2076	1.204	90.79
#1	.3952	.0003	.0004	.0078	.0248	.0402	1.639	.0223	.0002
#2	.3960	.0002	.0002	.0081	.0244	.0403	1.637	.0220	.0000
#3	.3982	.0002	.0004	.0075	.0249	.0408	1.643	.0217	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0186**	**.3337**	**.0081**	**-.0003**	**.0212**	**.0004**	**.0028**	**6.698**	**166.7**
Stddev	.0001	.0016	.0010	.0012	.0011	.0013	.0011	.025	.7
%RSD	.4872	.4846	12.48	445.4	5.326	300.0	39.92	.3791	.4445
#1	.0185	.3341	.0078	-.0008	.0208	.0008	.0030	6.707	165.9
#2	.0187	.3320	.0092	.0011	.0203	.0015	.0038	6.669	167.3
#3	.0186	.3351	.0073	-.0011	.0225	-.0010	.0016	6.716	167.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.06**	**83.45**	**49.64**	F **297.7**	**.1520**	**.0276**	**16.69**	**.0049**	**.6589**
Stddev	.04	.34	.17	1.2	.0013	.0003	.03	.0003	.0018
%RSD	.2929	.4115	.3386	.4099	.8455	1.236	.1701	6.055	.2705
#1	13.02	83.09	49.52	297.1	.1512	.0279	16.70	.0046	.6576
#2	13.10	83.77	49.57	299.1	.1535	.0272	16.72	.0050	.6582
#3	13.05	83.48	49.83	296.8	.1514	.0277	16.66	.0052	.6609

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1493**	**.0053**	**.0054**	**22.58**	**-.0021**	**.0208**	**.2921**
Stddev	.0012	.0008	.0001	.05	.0004	.0004	.0025
%RSD	.7956	15.43	1.080	.2274	17.73	2.085	.8633
#1	.1488	.0057	.0054	22.62	-.0025	.0204	.2894
#2	.1485	.0059	.0053	22.60	-.0018	.0209	.2944
#3	.1507	.0044	.0054	22.52	-.0021	.0212	.2924

Zoom In Zoom Out

Sample Name: jc78976-1 Acquired: 12/7/2018 14:23:07 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: geqc

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99553.**	**3799.4**	**4332.7**	**8711.8**
Stddev	330.	15.6	4.9	6.3
%RSD	.33193	.41118	.11283	.07288
#1	99682.	3816.9	4334.5	8712.5
#2	99800.	3786.8	4327.2	8705.1
#3	99178.	3794.4	4336.4	8717.8

Zoom In Zoom Out

Sample Name: jc78976-1f Acquired: 12/7/2018 14:28:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3925**	**.0000**	**-.0000**	**.0023**	**.0012**	**.0025**	**1.434**	**.0109**	**-.0004**
Stddev	.0005	.0001	.0001	.0003	.0001	.0002	.008	.0001	.0000
%RSD	.1399	153.6	162.0	12.16	12.26	9.062	.5324	.8026	3.700
#1	.3926	-.0000	-.0001	.0026	.0013	.0027	1.443	.0111	-.0004
#2	.3931	.0001	-.0000	.0021	.0011	.0023	1.430	.0109	-.0004
#3	.3920	.0000	.0000	.0022	.0011	.0025	1.430	.0109	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0574**	**.0024**	**-.0008**	**.0004**	**.0013**	**.0022**	**.0396**	**158.6**
Stddev	.0004	.0003	.0006	.0023	.0004	.0002	.0010	.0139	.6
%RSD	19.63	.5909	24.17	304.1	106.1	13.23	47.12	35.12	.3982
#1	.0018	.0571	.0031	-.0021	.0003	.0013	.0016	.0276	158.2
#2	.0021	.0573	.0020	-.0020	.0000	.0014	.0015	.0364	158.3
#3	.0026	.0578	.0021	.0019	.0009	.0011	.0034	.0549	159.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5610**	**88.12**	**57.21**	F **354.5**	**.1786**	**.0248**	**7.226**	**-.0005**	**.7428**
Stddev	.0097	.63	.04	1.2	.0002	.0001	.042	.0007	.0007
%RSD	1.721	.7141	.0621	.3364	.1151	.3481	.5873	135.3	.1004
#1	.5687	88.51	57.25	354.9	.1788	.0248	7.256	.0002	.7419
#2	.5502	87.40	57.18	353.1	.1787	.0248	7.245	-.0006	.7432
#3	.5640	88.46	57.20	355.4	.1784	.0247	7.178	-.0013	.7432

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**.0027**	**.0019**	**26.88**	**-.0025**	**.0199**	**.0143**
Stddev	.0003	.0016	.0001	.08	.0019	.0009	.0017
%RSD	8.796	59.59	6.867	.2988	75.02	4.477	11.65
#1	.0031	.0013	.0019	26.94	-.0006	.0190	.0146
#2	.0037	.0045	.0018	26.92	-.0025	.0201	.0158
#3	.0033	.0024	.0021	26.79	-.0044	.0207	.0125

Zoom In Zoom Out

Sample Name: jc78976-1f Acquired: 12/7/2018 14:28:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98206.**	**3757.9**	**4103.3**	**8253.6**
Stddev	406.	18.4	46.1	67.5
%RSD	.41372	.49089	1.1242	.81816
#1	97737.	3763.8	4070.9	8203.1
#2	98436.	3772.6	4082.9	8227.4
#3	98445.	3737.2	4156.1	8330.3

Zoom In Zoom Out

Sample Name: jc79015-1 1 Acquired: 12/7/2018 14:34:03 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0162**	**.0058**	**.0004**	**.0443**	**.0075**	**.0271**	**4.326**	**.1246**
Stddev	.0003	.0000	.0002	.0002	.0001	.0000	.002	.0007
%RSD	1.602	.7839	47.04	.5439	1.425	.1833	.0565	.5879
#1	.0161	.0059	.0005	.0441	.0075	.0271	4.328	.1255
#2	.0165	.0058	.0005	.0442	.0074	.0270	4.323	.1242
#3	.0160	.0058	.0002	.0445	.0076	.0270	4.325	.1243

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0095**	**.2235**	**.0049**	**.0077**	F **-.0043**	**-.0039**	**-.0047**
Stddev	.0001	.0001	.0008	.0001	.0022	.0010	.0021	.0007
%RSD	14.99	.7810	.3515	2.228	28.81	23.96	52.89	14.52
#1	-.0009	.0094	.2243	.0049	.0077	-.0054	-.0057	-.0042
#2	-.0008	.0094	.2234	.0050	.0100	-.0036	-.0016	-.0055
#3	-.0007	.0095	.2228	.0047	.0055	-.0037	-.0044	-.0043

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.02**	**84.26**	**53.44**	**32.78**	**18.64**	**66.00**	**.3741**	**.0005**
Stddev	.03	.29	.03	.13	.03	.16	.0032	.0002
%RSD	.1347	.3426	.0526	.3971	.1557	.2350	.8663	32.90
#1	21.04	84.59	53.45	32.92	18.65	66.17	.3714	.0007
#2	20.99	84.11	53.47	32.74	18.61	65.86	.3777	.0005
#3	21.02	84.08	53.41	32.67	18.66	65.96	.3731	.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **26.07**	**-.0021**	**.2553**	**.0020**	**.0009**	**-.0029**	F **231.5**	**.0024**
Stddev	.07	.0003	.0012	.0001	.0005	.0001	.1	.0001
%RSD	.2692	14.43	.4557	4.824	55.16	2.698	.0428	4.706
#1	25.99	-.0023	.2565	.0020	.0003	-.0030	231.4	.0025
#2	26.11	-.0022	.2541	.0020	.0013	-.0029	231.6	.0023
#3	26.11	-.0018	.2552	.0022	.0011	-.0030	231.6	.0025

Zoom In Zoom Out

Sample Name: jc79015-1 1 Acquired: 12/7/2018 14:34:03 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.1249**	**.0431**
Stddev	.0006	.0001
%RSD	.5144	.1849
#1	.1243	.0432
#2	.1256	.0432
#3	.1249	.0430

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105550.**	**3836.2**	**4400.0**	**8856.9**
Stddev	114.	9.9	6.7	11.6
%RSD	.10778	.25841	.15306	.13102
#1	105440.	3828.2	4406.1	8847.1
#2	105660.	3833.2	4401.0	8869.7
#3	105560.	3847.3	4392.8	8853.8

Zoom In Zoom Out

Sample Name: ccv 7 Acquired: 12/7/2018 14:39:30 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.995**	**2.001**	**1.944**	**1.971**	**2.013**	**1.994**	**2.040**	**2.002**	**.2487**
Stddev	.004	.003	.001	.002	.007	.012	.004	.003	.0014
%RSD	.2155	.1621	.0326	.1223	.3330	.6231	.2215	.1578	.5497
#1	1.999	2.003	1.944	1.973	2.015	2.008	2.036	2.006	.2503
#2	1.991	2.003	1.944	1.968	2.005	1.986	2.040	2.000	.2478
#3	1.996	1.998	1.943	1.971	2.018	1.987	2.045	2.001	.2481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.011**	**1.944**	**1.907**	**2.002**	**1.985**	**1.881**	**1.949**	**38.82**	**39.16**
Stddev	.007	.003	.004	.003	.006	.004	.003	.08	.05
%RSD	.3589	.1478	.1875	.1236	.2956	.2070	.1594	.2099	.1235
#1	2.017	1.947	1.905	1.999	1.991	1.883	1.950	38.91	39.21
#2	2.003	1.941	1.906	2.004	1.979	1.883	1.952	38.80	39.15
#3	2.013	1.946	1.911	2.002	1.986	1.876	1.946	38.75	39.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.72**	**38.66**	**39.31**	**38.84**	**1.923**	**2.014**	**5.041**	**2.011**	**2.008**
Stddev	.10	.06	.08	.06	.002	.001	.005	.001	.003
%RSD	.2709	.1646	.2047	.1516	.0803	.0392	.1044	.0526	.1287
#1	38.75	38.73	39.41	38.87	1.924	2.014	5.044	2.010	2.010
#2	38.81	38.64	39.28	38.87	1.924	2.014	5.044	2.010	2.005
#3	38.61	38.60	39.26	38.77	1.921	2.013	5.035	2.012	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv 7 Acquired: 12/7/2018 14:39:30 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.014**	**1.981**	**2.029**	**1.865**	**1.954**	**2.019**	**1.902**
Stddev	.007	.001	.009	.008	.003	.002	.001
%RSD	.3253	.0243	.4308	.4318	.1376	.1111	.0563
#1	2.020	1.982	2.038	1.874	1.953	2.022	1.901
#2	2.007	1.981	2.021	1.862	1.956	2.018	1.903
#3	2.014	1.981	2.027	1.859	1.951	2.018	1.903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104060.**	**3821.9**	**4576.8**	**9306.4**
Stddev	298.	11.1	1.6	1.7
%RSD	.28664	.29151	.03530	.01854
#1	103780.	3819.2	4577.4	9304.8
#2	104370.	3812.4	4575.0	9306.3
#3	104030.	3834.2	4578.1	9308.2

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 14:44:42 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**.0002**	**-.0001**	**.0001**	**.0002**	**.0001**	**-.0002**	**-.0006**
Stddev	.0003	.0001	.0000	.0001	.0000	.0001	.0000	.0002	.0005
%RSD	188.6	232.1	30.07	85.09	3.698	29.65	26.22	110.7	79.38
#1	.0003	.0001	.0001	-.0002	.0001	.0001	.0001	.0000	-.0002
#2	.0003	.0001	.0002	-.0000	.0001	.0002	.0001	-.0003	-.0011
#3	-.0002	-.0001	.0001	-.0002	.0002	.0002	.0000	-.0002	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	**.0005**	**.0000**	**.0014**	**.0011**	**.0007**	**.0101**	**-.0004**
Stddev	.0001	.0000	.0002	.0009	.0003	.0001	.0011	.0081	.0029
%RSD	460.5	40.02	50.45	5482.	24.31	6.927	159.6	79.60	715.3
#1	.0000	.0001	.0007	.0003	.0018	.0011	-.0004	.0017	-.0021
#2	-.0001	.0001	.0002	.0007	.0015	.0012	.0018	.0177	-.0021
#3	.0001	.0001	.0005	-.0010	.0011	.0010	.0007	.0109	.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0247**	**.0994**	**.0711**	**.0032**	**F .0039**	**.0036**	**-.0003**	**.0001**
Stddev	.0033	.0280	.0077	.0021	.0003	.0005	.0009	.0001	.0002
%RSD	9658.	113.4	7.727	2.931	9.278	13.96	23.92	47.19	142.3
#1	.0038	-.0355	.0987	.0728	.0032	.0044	.0026	-.0004	-.0000
#2	-.0017	.0071	.0921	.0718	.0035	.0040	.0039	-.0003	.0001
#3	-.0020	-.0457	.1074	.0688	.0029	.0033	.0043	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 14:44:42 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0034**	**.0003**	**.0039**	**-.0016**	**.0023**	**.0016**
Stddev	.0003	.0004	.0001	.0012	.0005	.0005	.0007
%RSD	103.6	12.54	23.90	31.66	30.91	20.72	43.50
#1	.0003	.0038	.0003	.0048	-.0018	.0019	.0019
#2	.0005	.0030	.0002	.0045	-.0020	.0028	.0008
#3	-.0000	.0034	.0004	.0025	-.0011	.0022	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106780.**	**3864.4**	**4461.7**	**8950.0**
Stddev	396.	12.1	4.2	14.4
%RSD	.37054	.31429	.09522	.16096
#1	106750.	3873.2	4459.8	8965.9
#2	106390.	3869.5	4466.6	8946.3
#3	107180.	3850.6	4458.7	8937.8

Zoom In Zoom Out

Sample Name: jc78976-1 7 Acquired: 12/7/2018 14:50:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3987**	**.0003**	**.0004**	**.0079**	**.0270**	**.0435**	**1.768**	**.0225**	**-.0026**
Stddev	.0034	.0003	.0012	.0005	.0006	.0010	.010	.0005	.0006
%RSD	.8566	109.0	338.3	6.627	2.387	2.279	.5754	2.288	23.36
#1	.3999	.0002	-.0009	.0074	.0278	.0440	1.774	.0231	-.0026
#2	.3948	.0000	.0004	.0085	.0268	.0441	1.773	.0221	-.0020
#3	.4013	.0006	.0016	.0079	.0266	.0423	1.756	.0224	-.0032

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0207**	**.3832**	**.0069**	**.0017**	**.0261**	**-.0054**	**.0063**	**6.983**	**179.6**
Stddev	.0007	.0043	.0046	.0033	.0043	.0058	.0014	.024	.8
%RSD	3.450	1.125	66.56	197.3	16.68	107.9	21.70	.3402	.4328
#1	.0200	.3861	.0019	-.0001	.0264	-.0121	.0048	7.010	178.8
#2	.0214	.3853	.0077	.0055	.0215	-.0015	.0067	6.969	180.4
#3	.0207	.3783	.0110	-.0004	.0302	-.0026	.0074	6.969	179.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.94**	**89.51**	**48.81**	**314.1**	**.1649**	**.0346**	**17.01**	**.0009**	**.6847**
Stddev	.10	.65	.12	.9	.0010	.0010	.08	.0040	.0043
%RSD	.6950	.7279	.2381	.2888	.5886	2.909	.4693	458.9	.6346
#1	13.86	88.80	48.82	315.0	.1639	.0341	17.10	.0053	.6805
#2	14.05	90.08	48.69	314.1	.1658	.0339	16.96	-.0004	.6892
#3	13.92	89.63	48.92	313.2	.1651	.0357	16.96	-.0023	.6844

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1662**	**.0143**	**.0054**	**24.23**	**-.0048**	**.0300**	**.3123**
Stddev	.0034	.0024	.0005	.11	.0020	.0025	.0012
%RSD	2.028	16.87	8.513	.4389	40.89	8.200	.3927
#1	.1626	.0115	.0059	24.29	-.0062	.0297	.3113
#2	.1667	.0156	.0052	24.28	-.0026	.0276	.3137
#3	.1693	.0158	.0050	24.10	-.0057	.0325	.3120

Zoom In / Zoom Out

Sample Name: jc78976-1 7 Acquired: 12/7/2018 14:50:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104960.**	**3693.3**	**4414.0**	**8836.0**
Stddev	648.	12.0	33.5	65.4
%RSD	.61771	.32622	.75937	.73983
#1	104700.	3707.1	4430.2	8871.7
#2	104480.	3685.0	4436.3	8875.7
#3	105700.	3687.8	4375.5	8760.5

Zoom In / Zoom Out

Sample Name: jc78976-1f Acquired: 12/7/2018 14:55:39 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3977**	**.0001**	**.0002**	**.0011**	**.0021**	**.0065**	**1.520**	**.0122**	**-.0022**
Stddev	.0020	.0003	.0011	.0010	.0013	.0009	.003	.0004	.0011
%RSD	.4912	476.5	568.5	89.59	59.81	14.37	.2018	3.196	49.63
#1	.3999	.0005	.0014	.0000	.0034	.0072	1.523	.0117	-.0024
#2	.3966	-.0001	-.0002	.0013	.0009	.0069	1.519	.0123	-.0031
#3	.3965	-.0002	-.0007	.0020	.0019	.0054	1.517	.0125	-.0010

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.0718**	**.0017**	**.0086**	**.0016**	**-.0018**	**-.0004**	**.0406**	**166.9**
Stddev	.0003	.0002	.0029	.0027	.0029	.0034	.0022	.1356	1.0
%RSD	8.591	.2376	176.4	31.79	177.1	191.8	615.8	333.6	.5718
#1	.0027	.0717	-.0006	.0096	-.0016	-.0050	-.0018	.0443	166.1
#2	.0029	.0720	.0006	.0107	.0040	-.0021	-.0015	-.0967	166.7
#3	.0032	.0718	.0049	.0055	.0024	.0018	.0022	.1743	168.0

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5914**	**90.34**	**55.94**	**373.6**	**.1764**	**.0279**	**7.157**	**-.0020**	**.7759**
Stddev	.0078	.85	.10	.8	.0012	.0003	.028	.0029	.0008
%RSD	1.321	.9397	.1740	.2140	.6621	.9448	.3929	148.8	.1069
#1	.5979	89.57	55.83	373.2	.1755	.0279	7.158	-.0014	.7767
#2	.5827	90.20	56.00	373.0	.1760	.0276	7.129	.0006	.7751
#3	.5935	91.25	55.99	374.5	.1777	.0281	7.185	-.0052	.7758

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**.0048**	**.0024**	**25.30**	**-.0051**	**.0159**	**.0255**
Stddev	.0006	.0009	.0002	.05	.0041	.0033	.0037
%RSD	11.84	18.04	7.012	.1841	80.61	20.68	14.44
#1	.0049	.0038	.0025	25.28	-.0052	.0145	.0233
#2	.0062	.0054	.0024	25.27	-.0092	.0135	.0298
#3	.0055	.0053	.0022	25.35	-.0009	.0196	.0234

Zoom In / Zoom Out

Sample Name: jc78976-1f Acquired: 12/7/2018 14:55:39 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103530.**	**3795.4**	**4486.6**	**9032.8**
Stddev	275.	30.3	6.6	4.2
%RSD	.26520	.79771	.14714	.04618
#1	103210.	3823.2	4490.4	9037.1
#2	103710.	3800.0	4490.4	9032.7
#3	103660.	3763.2	4478.9	9028.7

Zoom In / Zoom Out

Sample Name: crid Acquired: 12/7/2018 15:01:05 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0010**	**.0011**	**.0031**	**.0024**	F **-.0002**	**.0035**	**.0047**
Stddev	.0001	.0001	.0001	.0001	.0002	.0002	.0000	.0003
%RSD	3.231	6.500	9.317	4.384	7.201	83.19	.7938	6.144
#1	.0041	.0011	.0011	.0031	.0026	-.0000	.0035	.0044
#2	.0044	.0010	.0009	.0030	.0022	-.0004	.0035	.0048
#3	.0044	.0011	.0011	.0032	.0024	-.0003	.0035	.0050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-20.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0007**	**.0022**	**.0114**	**.0030**	F **.0030**	F **.0009**	**.0057**	F **-.0003**
Stddev	.0001	.0001	.0001	.0004	.0003	.0016	.0005	.0013
%RSD	19.66	3.890	.7090	13.67	8.664	183.4	9.447	397.6
#1	-.0006	.0023	.0113	.0034	.0030	.0009	.0057	-.0018
#2	-.0009	.0022	.0114	.0026	.0033	.0024	.0051	.0000
#3	-.0007	.0022	.0114	.0031	.0028	-.0007	.0062	.0008
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value	.0020				.0020	.0025		.0030
Range	-20.00%				20.00%	-20.00%		-20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1282**	**1.087**	**.0025**	**.0970**	**2.065**	**1.075**	**.0013**	**.0006**
Stddev	.0107	.006	.0054	.0268	.042	.010	.0006	.0004
%RSD	8.343	.5947	217.3	27.57	2.049	.9445	45.81	56.18
#1	.1198	1.086	.0010	.1254	2.112	1.086	.0013	.0009
#2	.1246	1.082	-.0020	.0933	2.031	1.070	.0007	.0002
#3	.1402	1.095	.0084	.0723	2.051	1.068	.0019	.0007
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Zoom In Zoom Out

Sample Name: crid Acquired: 12/7/2018 15:01:05 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0006**	**.0002**	**.0001**	**.0004**	**.0002**	**.0017**	**.0003**
Stddev	.0008	.0003	.0002	.0004	.0013	.0001	.0003	.0000
%RSD	95.26	42.08	105.4	284.5	345.4	49.47	15.52	2.204
#1	-.0001	.0009	-.0000	-.0002	.0009	.0003	.0015	.0003
#2	-.0007	.0004	.0003	.0006	-.0011	.0002	.0020	.0003
#3	-.0016	.0007	.0002	.0001	.0013	.0001	.0015	.0003
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0013**	**.0021**
Stddev	.0011	.0006
%RSD	87.55	29.33
#1	.0016	.0028
#2	.0023	.0017
#3	.0001	.0018
Check ?	None	None
Value		
Range		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106590.**	**3892.6**	**4601.7**	**9236.4**
Stddev	561.	18.6	59.8	83.8
%RSD	.52634	.47689	1.2995	.90744
#1	106040.	3909.5	4532.9	9139.9
#2	107160.	3895.7	4640.8	9291.3
#3	106560.	3872.7	4631.5	9277.9

Zoom In Zoom Out

Sample Name: cri Acquired: 12/7/2018 15:06:36 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1912**	**.0021**	**.0029**	**.0486**	**.0105**	**.0100**	**.0162**	**.0100**	**.0043**
Stddev	.0009	.0001	.0001	.0001	.0002	.0003	.0001	.0002	.0001
%RSD	.4811	2.841	4.955	.2958	2.196	2.627	.4533	1.821	3.238
#1	.1904	.0021	.0030	.0487	.0102	.0099	.0163	.0098	.0044
#2	.1922	.0020	.0030	.0484	.0106	.0099	.0161	.0102	.0043
#3	.1911	.0022	.0027	.0486	.0106	.0103	.0162	.0100	.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0515**	**.0197**	**.0083**	**.0102**	**.0035**	**.0089**	**.0054**	**.2025**	**5.048**
Stddev	.0003	.0002	.0005	.0012	.0010	.0010	.0005	.0059	.018
%RSD	.6222	.9395	6.412	12.18	27.89	11.04	9.835	2.902	.3496
#1	.0519	.0196	.0077	.0091	.0033	.0087	.0059	.1958	5.047
#2	.0513	.0199	.0087	.0116	.0027	.0100	.0052	.2054	5.066
#3	.0515	.0196	.0084	.0100	.0046	.0081	.0049	.2064	5.030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0975**	**4.972**	**4.637**	**4.696**	**.0925**	**.0209**	**.1948**	**.0103**	**.0099**
Stddev	.0024	.087	.022	.023	.0006	.0001	.0019	.0003	.0001
%RSD	2.501	1.748	.4801	.4895	.6930	.2657	.9976	2.627	.9245
#1	.1001	5.024	4.642	4.697	.0922	.0209	.1942	.0100	.0100
#2	.0971	5.021	4.656	4.718	.0932	.0209	.1970	.0106	.0100
#3	.0953	4.872	4.612	4.672	.0920	.0208	.1933	.0103	.0098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: cri Acquired: 12/7/2018 15:06:36 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104**	**.0500**	F **.0187**	**.0466**	**.0207**	**.0498**	**.0488**
Stddev	.0001	.0004	.0006	.0016	.0010	.0007	.0006
%RSD	1.082	.8860	2.988	3.394	4.651	1.422	1.236
#1	.0104	.0502	.0194	.0466	.0208	.0505	.0494
#2	.0103	.0503	.0184	.0481	.0197	.0491	.0483
#3	.0105	.0495	.0183	.0449	.0216	.0498	.0486
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0100				
Range			20.00%				

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106020.**	**3828.7**	**4824.1**	**9823.9**
Stddev	918.	12.8	8.8	22.8
%RSD	.86597	.33508	.18261	.23229
#1	106720.	3824.7	4814.0	9797.8
#2	106350.	3818.4	4830.3	9840.1
#3	104980.	3843.1	4828.1	9833.9

Zoom In Zoom Out

Sample Name: crid Acquired: 12/7/2018 15:12:04 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**.0011**	**.0010**	**.0031**	**.0023**	F **-.0002**	**.0035**	**.0046**
Stddev	.0001	.0001	.0001	.0002	.0001	.0001	.0000	.0002
%RSD	3.041	6.584	11.04	5.110	3.591	64.76	.2992	3.803
#1	.0044	.0011	.0010	.0032	.0023	-.0001	.0035	.0047
#2	.0045	.0011	.0009	.0033	.0024	-.0002	.0035	.0044
#3	.0046	.0010	.0012	.0030	.0023	-.0004	.0035	.0046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						.0020		
Range						-20.00%		

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.0006**	**.0023**	**.0113**	**.0030**	**.0021**	F **.0010**	**.0059**	F **.0003**
Stddev	.0002	.0001	.0001	.0013	.0011	.0007	.0020	.0014
%RSD	28.65	2.826	.8813	41.61	50.22	68.07	34.26	421.2
#1	-.0005	.0023	.0114	.0042	.0025	.0004	.0036	.0016
#2	-.0008	.0023	.0114	.0031	.0009	.0018	.0073	.0005
#3	-.0005	.0022	.0112	.0017	.0029	.0009	.0070	-.0011
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value	.0020					.0025		.0030
Range	-20.00%					-20.00%		-20.00%

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1149**	**1.084**	**-.0023**	**.1135**	**2.044**	**1.044**	**.0011**	**.0003**
Stddev	.0081	.010	.0021	.0196	.013	.015	.0002	.0002
%RSD	7.014	.8948	89.57	17.31	.6434	1.427	17.09	68.23
#1	.1098	1.074	-.0033	.1071	2.031	1.060	.0010	.0002
#2	.1107	1.093	-.0036	.0978	2.058	1.030	.0010	.0006
#3	.1242	1.084	.0001	.1355	2.045	1.041	.0013	.0002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Zoom In Zoom Out

Sample Name: crid Acquired: 12/7/2018 15:12:04 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0005**	**.0001**	**-.0001**	**.0000**	**.0001**	**-.0004**	**.0004**
Stddev	.0003	.0003	.0001	.0002	.0007	.0001	.0003	.0003
%RSD	197.7	50.72	75.71	266.1	2420.	85.26	70.87	77.98
#1	-.0004	-.0008	.0002	-.0001	.0008	.0000	-.0005	.0002
#2	.0001	-.0003	.0002	.0001	-.0005	.0001	-.0005	.0003
#3	-.0002	-.0005	.0000	-.0002	-.0002	.0002	-.0001	.0008
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0008**	**.0022**
Stddev	.0005	.0003
%RSD	66.00	14.81
#1	.0005	.0026
#2	.0014	.0019
#3	.0005	.0022
Check ?	None	None
Value		
Range		

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106320.**	**3893.1**	**4470.3**	**8968.1**
Stddev	429.	5.0	9.2	6.9
%RSD	.40304	.12856	.20561	.07699
#1	106000.	3898.9	4467.7	8963.5
#2	106160.	3889.7	4462.7	8964.7
#3	106810.	3890.7	4480.5	8976.0

Zoom In Zoom Out

Sample Name: mp11079-b1 Acquired: 12/7/2018 15:17:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.995**	**2.045**	**2.006**	**2.033**	**2.056**	**2.014**	**2.095**	**2.074**
Stddev	.003	.004	.004	.001	.011	.009	.020	.003
%RSD	.1720	.1975	.2006	.0306	.5268	.4259	.9713	.1318
#1	1.995	2.048	2.008	2.034	2.044	2.006	2.077	2.076
#2	1.998	2.048	2.002	2.033	2.059	2.023	2.117	2.071
#3	1.991	2.041	2.009	2.033	2.065	2.013	2.090	2.074

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2482**	**2.044**	**2.069**	**2.018**	**2.022**	**2.026**	**1.975**	**2.004**
Stddev	.0013	.011	.005	.002	.002	.003	.001	.006
%RSD	.5193	.5269	.2676	.1122	.1196	.1640	.0402	.3105
#1	.2468	2.031	2.073	2.015	2.023	2.030	1.976	2.011
#2	.2489	2.049	2.063	2.019	2.020	2.025	1.974	1.999
#3	.2491	2.050	2.072	2.019	2.024	2.024	1.975	2.003

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.07**	**25.34**	**25.30**	**24.64**	**25.03**	**24.98**	**2.000**	**2.040**
Stddev	.05	.08	.07	.11	.04	.05	.005	.004
%RSD	.1968	.3151	.2720	.4451	.1483	.2122	.2731	.1699
#1	25.11	25.34	25.26	24.52	25.07	25.01	2.006	2.043
#2	25.09	25.41	25.38	24.67	25.03	25.01	1.995	2.037
#3	25.02	25.25	25.26	24.73	25.00	24.92	1.999	2.039

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0341**	**2.067**	**2.023**	**2.050**	**1.918**	**2.035**	F **-.2116**	**-.0112**
Stddev	.0016	.011	.004	.011	.003	.009	.0007	.0011
%RSD	4.661	.5174	.1987	.5417	.1289	.4581	.3384	9.495
#1	.0358	2.077	2.027	2.037	1.921	2.024	-.2118	-.0124
#2	.0336	2.068	2.023	2.056	1.917	2.041	-.2109	-.0106
#3	.0328	2.056	2.019	2.057	1.916	2.039	-.2123	-.0106

Zoom In Zoom Out

Sample Name: mp11079-b1 Acquired: 12/7/2018 15:17:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**2.035**	**2.057**
Stddev	.004	.010
%RSD	.2130	.4786
#1	2.039	2.064
#2	2.035	2.062
#3	2.030	2.046

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103780.**	**3737.3**	**4323.9**	**8762.9**
Stddev	534.	4.2	10.1	16.9
%RSD	.51419	.11200	.23299	.19250
#1	104390.	3735.1	4321.6	8768.3
#2	103410.	3734.6	4334.9	8776.4
#3	103540.	3742.1	4315.2	8744.0

Zoom In Zoom Out

Sample Name: mp11079-mb1 7 Acquired: 12/7/2018 15:22:46 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0001**	**.0002**	**-.0001**	**.0004**	**.0005**	**.0001**	**-.0001**	**-.0007**
Stddev	.0002	.0001	.0002	.0004	.0002	.0001	.0000	.0004	.0004
%RSD	43.12	167.8	95.40	249.9	45.97	10.45	18.60	323.1	61.74
#1	.0006	.0001	.0000	-.0003	.0005	.0005	.0001	-.0001	-.0002
#2	.0007	-.0000	.0001	.0003	.0002	.0004	.0001	-.0006	-.0010
#3	.0003	.0002	.0004	-.0004	.0003	.0006	.0001	.0003	-.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0002**	**.0001**	**.0019**	**.0005**	**.0002**	**.0026**	**.0083**	**.0092**
Stddev	.0001	.0002	.0007	.0017	.0008	.0026	.0014	.0123	.0014
%RSD	37.78	65.99	1210.	90.59	163.4	1503.	53.36	148.9	14.90
#1	.0002	.0001	-.0006	.0001	.0010	.0023	.0040	-.0055	.0108
#2	.0003	.0004	.0009	.0021	-.0004	-.0027	.0024	.0182	.0087
#3	.0004	.0001	-.0001	.0036	.0009	.0009	.0013	.0120	.0082

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087**	**-.0184**	**.0549**	**.0213**	**.0025**	**.0034**	**.0060**	**.0120**	**.0001**
Stddev	.0018	.0077	.0214	.0073	.0004	.0000	.0011	.0011	.0003
%RSD	20.55	41.60	39.02	34.13	18.04	.2243	18.74	9.444	282.0
#1	.0083	-.0112	.0541	.0231	.0023	.0034	.0054	.0108	.0001
#2	.0071	-.0265	.0768	.0133	.0029	.0034	.0054	.0130	-.0002
#3	.0107	-.0175	.0339	.0276	.0021	.0034	.0073	.0124	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0076**	**.0011**	**.0074**	**-.0002**	**.0018**	**.0032**
Stddev	.0001	.0014	.0001	.0008	.0003	.0000	.0013
%RSD	64.06	18.39	8.101	10.81	122.4	2.488	39.81
#1	.0003	.0090	.0013	.0072	-.0004	.0018	.0034
#2	.0001	.0062	.0011	.0068	-.0003	.0017	.0019
#3	.0002	.0078	.0011	.0083	.0001	.0017	.0044

Zoom In Zoom Out

Sample Name: mp11079-mb1 7 Acquired: 12/7/2018 15:22:46 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106110.**	**3766.9**	**4438.6**	**8917.6**
Stddev	367.	13.8	8.5	15.5
%RSD	.34625	.36523	.19083	.17397
#1	106160.	3781.7	4430.8	8902.2
#2	106460.	3754.5	4437.4	8917.3
#3	105730.	3764.4	4447.6	8933.3

Zoom In Zoom Out

Sample Name: mp11079-s1 Acquired: 12/7/2018 15:28:16 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.038**	**2.078**	**1.967**	**2.000**	**2.057**	**2.037**	**2.102**	**2.006**	**.2532**
Stddev	.009	.012	.003	.007	.007	.012	.012	.007	.0017
%RSD	.4637	.5745	.1510	.3529	.3484	.6002	.5597	.3496	.6666
#1	2.049	2.092	1.968	2.000	2.058	2.037	2.109	2.006	.2534
#2	2.032	2.074	1.969	2.008	2.064	2.050	2.108	2.013	.2548
#3	2.033	2.069	1.964	1.994	2.050	2.025	2.088	1.999	.2514

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.041**	**1.958**	**1.913**	**2.039**	**2.007**	**1.870**	**1.970**	**25.77**	**82.65**
Stddev	.008	.011	.004	.011	.009	.005	.005	.17	.55
%RSD	.3972	.5343	.1909	.5201	.4360	.2502	.2340	.6546	.6598
#1	2.042	1.951	1.915	2.033	2.002	1.874	1.976	25.97	83.25
#2	2.048	1.970	1.916	2.051	2.017	1.865	1.967	25.69	82.54
#3	2.032	1.952	1.909	2.033	2.002	1.870	1.969	25.67	82.17

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.87**	**31.16**	**33.50**	**49.40**	**2.156**	**2.034**	**5.282**	**2.016**	**2.422**
Stddev	.14	.11	.15	.28	.004	.003	.012	.006	.011
%RSD	.5502	.3648	.4357	.5754	.1836	.1559	.2327	.3119	.4691
#1	26.02	31.24	33.67	49.73	2.160	2.033	5.296	2.013	2.435
#2	25.85	31.03	33.44	49.26	2.157	2.037	5.280	2.023	2.417
#3	25.74	31.20	33.40	49.21	2.152	2.031	5.271	2.011	2.414

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.048**	**1.924**	**2.023**	**16.22**	**-.0099**	**2.069**	**2.624**
Stddev	.009	.003	.008	.03	.0006	.009	.004
%RSD	.4538	.1371	.4102	.1713	6.406	.4512	.1368
#1	2.049	1.923	2.025	16.21	-.0093	2.079	2.629
#2	2.057	1.927	2.031	16.25	-.0098	2.062	2.622
#3	2.038	1.923	2.015	16.20	-.0105	2.066	2.622

Zoom In Zoom Out

Sample Name: mp11079-s1 Acquired: 12/7/2018 15:28:16 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102780.**	**3665.2**	**4608.6**	**9378.3**
Stddev	498.	26.5	4.5	17.3
%RSD	.48439	.72170	.09703	.18471
#1	102620.	3635.1	4604.2	9371.4
#2	102390.	3675.8	4608.4	9365.5
#3	103340.	3684.7	4613.1	9398.0

Zoom In Zoom Out

Sample Name: mp11079-s2 Acquired: 12/7/2018 15:33:28 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.036**	**2.026**	**1.964**	**1.990**	**2.045**	**2.047**	**2.102**	**2.002**	**.2534**
Stddev	.005	.004	.002	.002	.004	.007	.011	.002	.0001
%RSD	.2297	.1993	.0817	.0746	.2171	.3420	.5061	.0758	.0589
#1	2.032	2.024	1.966	1.991	2.042	2.040	2.091	2.002	.2534
#2	2.036	2.024	1.963	1.989	2.042	2.046	2.104	2.000	.2532
#3	2.041	2.031	1.963	1.989	2.050	2.054	2.111	2.003	.2535

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.037**	**1.942**	**1.920**	**2.024**	**1.993**	**1.876**	**1.974**	**25.58**	**80.31**
Stddev	.005	.001	.003	.006	.001	.002	.007	.06	.21
%RSD	.2422	.0325	.1406	.3151	.0573	.1197	.3645	.2448	.2624
#1	2.033	1.942	1.922	2.017	1.992	1.874	1.982	25.56	80.32
#2	2.036	1.941	1.922	2.029	1.994	1.876	1.970	25.53	80.10
#3	2.043	1.943	1.917	2.026	1.993	1.878	1.969	25.65	80.52

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.72**	**30.37**	**33.08**	**48.26**	**2.162**	**2.040**	**5.176**	**2.018**	**2.409**
Stddev	.07	.19	.03	.09	.004	.002	.005	.004	.004
%RSD	.2796	.6118	.0866	.1899	.1638	.1058	.1067	.1782	.1478
#1	25.64	30.50	33.07	48.18	2.165	2.041	5.176	2.014	2.405
#2	25.74	30.46	33.06	48.24	2.163	2.038	5.182	2.018	2.410
#3	25.78	30.16	33.11	48.36	2.158	2.042	5.171	2.021	2.412

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.051**	**1.927**	**2.039**	**15.84**	**-.0092**	**2.035**	**2.625**
Stddev	.005	.003	.005	.02	.0006	.002	.001
%RSD	.2514	.1290	.2526	.0951	6.478	.0733	.0371
#1	2.046	1.930	2.035	15.85	-.0098	2.034	2.625
#2	2.050	1.926	2.038	15.84	-.0089	2.036	2.624
#3	2.056	1.926	2.045	15.83	-.0087	2.037	2.626

Zoom In Zoom Out

Sample Name: mp11079-s2 Acquired: 12/7/2018 15:33:28 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102650.**	**3761.2**	**4565.6**	**9309.5**
Stddev	284.	2.4	1.8	7.9
%RSD	.27625	.06253	.03907	.08468
#1	102820.	3759.6	4563.8	9303.0
#2	102820.	3763.9	4565.6	9318.3
#3	102330.	3760.1	4567.4	9307.2

Zoom In Zoom Out

Sample Name: fa59676-1 Acquired: 12/7/2018 15:38:38 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0178**	**.0000**	**.0000**	**.0111**	**.0149**	**.0067**	**.0364**	**.0007**	**-.0004**
Stddev	.0002	.0000	.0000	.0004	.0003	.0001	.0000	.0001	.0002
%RSD	.9989	135.2	202.0	3.288	1.705	2.105	.1259	9.871	44.90
#1	.0178	-.0000	.0000	.0114	.0146	.0066	.0363	.0008	-.0006
#2	.0176	.0000	.0000	.0107	.0150	.0067	.0364	.0007	-.0002
#3	.0180	.0000	-.0000	.0112	.0150	.0069	.0364	.0006	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0128**	**.0069**	**.0023**	**.0006**	**-.0003**	**.0010**	**.2727**	**55.48**
Stddev	.0002	.0002	.0007	.0013	.0014	.0017	.0012	.0141	.22
%RSD	28.42	1.520	10.21	54.95	221.8	521.3	124.4	5.178	.3997
#1	.0011	.0130	.0068	.0038	.0015	-.0007	.0001	.2825	55.23
#2	.0006	.0129	.0062	.0015	.0014	.0015	.0004	.2791	55.53
#3	.0009	.0126	.0076	.0017	-.0010	-.0018	.0024	.2566	55.67

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5223**	**6.155**	**7.414**	**22.74**	**.2622**	**.0045**	**5.063**	**-.0010**	**.3750**
Stddev	.0069	.055	.045	.04	.0020	.0004	.012	.0007	.0005
%RSD	1.313	.8932	.6111	.1633	.7587	8.004	.2423	68.57	.1266
#1	.5149	6.156	7.397	22.72	.2603	.0049	5.051	-.0017	.3744
#2	.5283	6.100	7.380	22.72	.2622	.0044	5.062	-.0004	.3752
#3	.5238	6.210	7.466	22.79	.2642	.0042	5.075	-.0007	.3753

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0075**	**.0031**	**16.19**	**-.0002**	**.0035**	**.7698**
Stddev	.0003	.0008	.0001	.01	.0012	.0007	.0033
%RSD	11.92	11.33	2.702	.0908	642.3	18.95	.4306
#1	.0020	.0083	.0031	16.18	-.0004	.0041	.7666
#2	.0025	.0066	.0032	16.21	-.0012	.0028	.7698
#3	.0024	.0076	.0030	16.19	.0011	.0036	.7732

Zoom In Zoom Out

Sample Name: fa59676-1 Acquired: 12/7/2018 15:38:38 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104180.**	**3829.2**	**4601.3**	**9379.4**
Stddev	74.	15.9	8.7	2.1
%RSD	.07082	.41611	.18891	.02193
#1	104210.	3839.0	4609.2	9380.0
#2	104230.	3837.8	4602.5	9377.1
#3	104090.	3810.8	4592.0	9381.1

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/7/2018 15:44:01 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.987**	**2.023**	**1.964**	**1.991**	**2.040**	**1.999**	**2.084**	**2.035**	**.2493**
Stddev	.004	.004	.004	.003	.021	.021	.021	.003	.0025
%RSD	.1765	.1823	.2048	.1481	1.032	1.047	1.015	.1443	.9840
#1	1.988	2.022	1.963	1.992	2.063	2.023	2.108	2.035	.2521
#2	1.984	2.021	1.960	1.987	2.034	1.993	2.075	2.031	.2481
#3	1.991	2.028	1.968	1.992	2.022	1.982	2.068	2.037	.2476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.032**	**1.997**	**1.936**	**2.006**	**2.008**	**1.906**	**1.948**	**39.11**	**39.77**
Stddev	.020	.009	.005	.005	.003	.008	.003	.05	.08
%RSD	.9958	.4691	.2563	.2321	.1288	.4252	.1516	.1377	.2054
#1	2.054	2.003	1.937	2.003	2.008	1.906	1.945	39.09	39.77
#2	2.028	1.986	1.931	2.004	2.005	1.898	1.951	39.07	39.85
#3	2.014	2.001	1.940	2.012	2.010	1.914	1.948	39.17	39.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.34**	**39.36**	**39.46**	**39.29**	**1.948**	**2.016**	**5.083**	**2.031**	**2.013**
Stddev	.04	.19	.12	.11	.001	.003	.010	.005	.003
%RSD	.0934	.4725	.3105	.2673	.0307	.1357	.1972	.2359	.1489
#1	39.35	39.22	39.36	39.25	1.947	2.014	5.077	2.037	2.012
#2	39.37	39.57	39.42	39.22	1.948	2.015	5.077	2.027	2.010
#3	39.30	39.28	39.60	39.41	1.948	2.019	5.094	2.031	2.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ccv Acquired: 12/7/2018 15:44:01 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.028**	**1.990**	**2.047**	**1.899**	**1.954**	**2.023**	**1.943**
Stddev	.023	.003	.023	.005	.004	.008	.004
%RSD	1.116	.1675	1.120	.2920	.2043	.4067	.1838
#1	2.053	1.991	2.072	1.896	1.951	2.022	1.944
#2	2.020	1.987	2.041	1.896	1.953	2.016	1.940
#3	2.010	1.993	2.027	1.906	1.958	2.032	1.946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103490.**	**3725.9**	**4502.6**	**9118.0**
Stddev	994.	1.8	8.8	14.6
%RSD	.96014	.04824	.19568	.16002
#1	102420.	3727.4	4505.9	9127.0
#2	103670.	3723.9	4509.3	9126.0
#3	104380.	3726.3	4492.6	9101.2

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 15:49:14 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	**.0000**	**-.0003**	**.0002**	**-.0000**	**.0000**	**.0002**	**-.0009**
Stddev	.0005	.0001	.0001	.0001	.0002	.0001	.0000	.0001	.0002
%RSD	1568.	101.4	149.3	32.41	105.1	489.4	89.40	85.78	23.72
#1	.0002	.0001	.0001	-.0005	.0003	.0000	-.0000	.0002	-.0007
#2	.0005	.0000	-.0000	-.0003	.0002	-.0001	.0000	.0002	-.0010
#3	-.0006	.0002	.0000	-.0003	-.0000	.0000	.0000	.0000	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**-.0000**	**.0010**	**.0007**	**.0006**	**.0001**	**.0174**	**.0008**
Stddev	.0002	.0002	.0003	.0016	.0004	.0002	.0017	.0069	.0046
%RSD	86.23	208.4	629.4	158.2	53.26	30.27	1610.	39.61	574.6
#1	.0003	-.0001	.0003	.0024	.0007	.0004	.0019	.0213	.0014
#2	.0003	.0001	-.0004	.0015	.0010	.0007	-.0015	.0214	-.0041
#3	.0000	.0003	-.0001	-.0008	.0003	.0006	-.0001	.0094	.0051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0047**	**.0113**	**.0992**	**.0307**	**.0036**	F **.0036**	**.0030**	**-.0003**	**.0000**
Stddev	.0031	.0259	.0093	.0029	.0002	.0004	.0003	.0006	.0000
%RSD	65.53	228.8	9.353	9.293	6.848	9.686	10.79	214.9	95.85
#1	-.0023	.0032	.0891	.0339	.0039	.0040	.0026	-.0004	.0000
#2	-.0082	.0403	.1073	.0301	.0034	.0035	.0033	-.0008	.0000
#3	-.0037	-.0095	.1013	.0283	.0034	.0034	.0031	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: ccb Acquired: 12/7/2018 15:49:14 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0052**	**.0004**	**-.0017**	**.0005**	**.0021**	**.0020**
Stddev	.0001	.0003	.0001	.0009	.0002	.0004	.0005
%RSD	57.15	6.050	32.89	48.99	47.42	20.40	25.37
#1	.0002	.0054	.0003	-.0008	.0007	.0025	.0026
#2	.0001	.0049	.0005	-.0025	.0002	.0022	.0019
#3	.0003	.0054	.0003	-.0019	.0005	.0016	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106680.**	**3771.4**	**4474.5**	**8978.5**
Stddev	280.	14.9	5.2	8.6
%RSD	.26284	.39444	.11522	.09529
#1	106370.	3765.3	4476.1	8987.5
#2	106910.	3788.4	4478.7	8977.6
#3	106770.	3760.5	4468.7	8970.4

Zoom In Zoom Out

Sample Name: mp11079-sd1 Acquired: 12/7/2018 15:54:47 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0177**	**.0001**	**-.0001**	**.0105**	**.0167**	**.0074**	**.0378**	**.0007**	**-.0038**
Stddev	.0010	.0004	.0003	.0005	.0009	.0003	.0002	.0005	.0010
%RSD	5.707	312.8	579.7	5.201	5.342	3.409	.4833	73.98	25.08
#1	.0182	.0005	.0003	.0108	.0178	.0071	.0376	.0012	-.0046
#2	.0185	-.0002	-.0004	.0098	.0162	.0075	.0379	.0003	-.0028
#3	.0166	-.0000	-.0001	.0107	.0163	.0077	.0380	.0006	-.0042

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0140**	**.0107**	**.0147**	**.0059**	**.0024**	**-.0027**	**.3592**	**58.57**
Stddev	.0005	.0004	.0070	.0065	.0026	.0027	.0042	.0393	.47
%RSD	32.75	2.505	64.89	44.22	44.00	112.1	152.5	10.93	.7955
#1	.0021	.0142	.0028	.0208	.0029	.0036	.0016	.4046	58.03
#2	.0012	.0136	.0133	.0078	.0076	.0042	-.0068	.3363	58.81
#3	.0012	.0142	.0160	.0156	.0071	-.0007	-.0030	.3368	58.87

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5703**	**6.490**	**7.559**	**23.02**	**.2681**	**.0082**	**5.191**	**.0006**	**.3876**
Stddev	.0164	.175	.105	.09	.0014	.0003	.017	.0030	.0032
%RSD	2.881	2.691	1.384	.3893	.5266	3.363	.3269	515.0	.8334
#1	.5812	6.690	7.554	22.92	.2667	.0085	5.172	.0032	.3840
#2	.5784	6.368	7.457	23.09	.2695	.0080	5.205	.0012	.3901
#3	.5514	6.412	7.666	23.05	.2680	.0081	5.196	-.0027	.3887

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0037**	**.0147**	**.0026**	**16.62**	**-.0046**	**.0063**	**.7733**
Stddev	.0013	.0023	.0008	.04	.0064	.0011	.0013
%RSD	36.34	15.64	29.78	.2547	139.6	17.97	.1625
#1	.0035	.0162	.0034	16.60	-.0041	.0055	.7727
#2	.0024	.0158	.0019	16.67	-.0111	.0075	.7747
#3	.0051	.0120	.0025	16.59	.0015	.0057	.7724

Zoom In Zoom Out

Sample Name: mp11079-sd1 Acquired: 12/7/2018 15:54:47 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105460.**	**3760.9**	**4767.9**	**9726.7**
Stddev	263.	9.9	6.6	8.7
%RSD	.24920	.26442	.13853	.08935
#1	105260.	3772.3	4762.4	9717.1
#2	105360.	3754.1	4775.2	9728.9
#3	105760.	3756.4	4766.0	9734.1

Zoom In Zoom Out

Sample Name: MP11125-MB1 Acquired: 12/7/2018 16:00:11 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0003**	**.0004**	**-.0002**	**.0014**	**.0040**	**.0004**	**.0004**	**-.0005**
Stddev	.0002	.0001	.0001	.0001	.0001	.0001	.0000	.0002	.0001
%RSD	51.39	28.94	30.57	37.08	10.15	1.436	1.850	37.54	27.90
#1	.0007	.0003	.0004	-.0002	.0016	.0040	.0004	.0002	-.0006
#2	.0003	.0002	.0003	-.0001	.0013	.0040	.0004	.0005	-.0005
#3	.0003	.0003	.0005	-.0002	.0014	.0039	.0004	.0005	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0070**	**.0001**	**.0003**	**.0011**	**.0011**	**.0015**	**.0152**	**.0347**
Stddev	.0001	.0002	.0005	.0009	.0007	.0023	.0002	.0239	.0069
%RSD	12.92	2.602	640.7	344.8	65.21	207.3	10.41	157.0	19.90
#1	.0004	.0070	-.0005	-.0007	.0013	-.0014	.0013	.0393	.0319
#2	.0005	.0072	.0005	.0010	.0003	.0033	.0017	.0149	.0296
#3	.0006	.0069	.0002	.0005	.0016	.0015	.0015	-.0085	.0425

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0275**	**.0126**	**.0813**	**.0782**	**.0027**	**.0017**	**.0128**	**.0220**	**.0004**
Stddev	.0077	.0144	.0140	.0049	.0001	.0002	.0011	.0009	.0001
%RSD	28.04	114.4	17.24	6.296	2.774	9.901	8.658	3.870	34.36
#1	.0364	.0275	.0970	.0743	.0027	.0015	.0141	.0229	.0003
#2	.0240	.0115	.0699	.0766	.0028	.0017	.0120	.0219	.0005
#3	.0222	-.0013	.0772	.0838	.0026	.0018	.0122	.0212	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0052**	**.0010**	**.0080**	**-.0016**	**.0005**	**.0258**
Stddev	.0003	.0006	.0000	.0011	.0006	.0004	.0005
%RSD	20.87	12.36	3.195	13.18	36.24	76.46	1.786
#1	.0009	.0051	.0010	.0071	-.0010	.0007	.0263
#2	.0013	.0046	.0011	.0077	-.0021	.0001	.0254
#3	.0014	.0059	.0011	.0091	-.0018	.0007	.0257

Zoom In Zoom Out

Sample Name: MP11125-MB1 Acquired: 12/7/2018 16:00:11 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107200.**	**3820.5**	**4467.7**	**8975.8**
Stddev	231.	8.7	6.7	7.1
%RSD	.21544	.22805	.15057	.07915
#1	106940.	3829.8	4462.6	8970.8
#2	107370.	3812.5	4475.3	8972.6
#3	107290.	3819.3	4465.0	8983.9

Zoom In Zoom Out

Sample Name: MP11125-B1 Acquired: 12/7/2018 16:05:43 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.962**	**1.989**	**1.896**	**1.947**	**2.018**	**1.958**	**2.050**	**1.981**
Stddev	.003	.002	.002	.001	.018	.010	.018	.002
%RSD	.1505	.0923	.0961	.0475	.8970	.5167	.8927	.1191
#1	1.961	1.991	1.898	1.946	2.039	1.966	2.071	1.983
#2	1.965	1.990	1.895	1.947	2.009	1.947	2.038	1.983
#3	1.960	1.987	1.895	1.948	2.007	1.960	2.040	1.979

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2406**	**2.004**	**1.943**	**1.834**	**1.967**	**1.960**	**1.783**	**1.873**
Stddev	.0018	.015	.006	.003	.003	.001	.003	.002
%RSD	.7611	.7567	.2998	.1363	.1589	.0575	.1540	.1249
#1	.2426	2.021	1.943	1.837	1.970	1.959	1.785	1.876
#2	.2390	1.993	1.948	1.832	1.967	1.961	1.780	1.872
#3	.2401	1.997	1.937	1.834	1.964	1.959	1.784	1.871

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.32**	**24.93**	**24.49**	**24.18**	**24.50**	**24.32**	**1.819**	**1.981**
Stddev	.04	.03	.02	.04	.02	.01	.004	.001
%RSD	.1454	.1188	.0692	.1795	.0944	.0394	.2018	.0425
#1	24.32	24.97	24.48	24.23	24.48	24.31	1.816	1.981
#2	24.28	24.91	24.50	24.15	24.52	24.33	1.818	1.980
#3	24.35	24.92	24.51	24.16	24.49	24.31	1.823	1.981

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0540**	**2.009**	**1.982**	**2.000**	**1.915**	**1.985**	F **-.2013**	**-.0095**
Stddev	.0009	.013	.003	.016	.002	.012	.0003	.0012
%RSD	1.741	.6315	.1379	.7781	.1277	.6082	.1278	12.35
#1	.0537	2.004	1.982	2.018	1.913	1.996	-.2016	-.0093
#2	.0551	2.024	1.984	1.989	1.914	1.972	-.2012	-.0108
#3	.0533	2.000	1.979	1.994	1.917	1.985	-.2011	-.0085

Zoom In Zoom Out

Sample Name: MP11125-B1 Acquired: 12/7/2018 16:05:43 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0018**	**1.875**
Stddev	.0002	.008
%RSD	10.77	.4046
#1	.0016	1.875
#2	.0020	1.883
#3	.0019	1.868

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104240.**	**3743.5**	**4634.9**	**9438.1**
Stddev	852.	6.8	9.7	10.5
%RSD	.81723	.18091	.20980	.11151
#1	103260.	3738.1	4627.9	9433.1
#2	104850.	3741.3	4646.0	9450.2
#3	104590.	3751.1	4630.8	9431.1

Zoom In Zoom Out

Sample Name: JC79221-2A Acquired: 12/7/2018 16:10:57 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3303**	**.0027**	**-.0003**	**.0483**	**.1515**	**.0600**	**.7475**	**.1020**	**.0011**
Stddev	.0010	.0001	.0001	.0004	.0004	.0003	.0018	.0002	.0001
%RSD	.3054	2.143	26.87	.8102	.2406	.4309	.2431	.1573	6.106
#1	.3313	.0026	-.0002	.0479	.1517	.0598	.7488	.1022	.0011
#2	.3302	.0027	-.0003	.0482	.1517	.0601	.7482	.1019	.0011
#3	.3293	.0027	-.0004	.0487	.1511	.0603	.7454	.1020	.0010

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1417**	**.2345**	**.0213**	**.0010**	**.0707**	**-.0025**	**-.0002**	**83.06**	**9.045**
Stddev	.0007	.0003	.0014	.0018	.0013	.0006	.0016	.09	.015
%RSD	.4630	.1415	6.769	171.3	1.867	22.71	666.4	.1090	.1615
#1	.1420	.2349	.0227	.0020	.0692	-.0025	.0010	83.16	9.055
#2	.1421	.2345	.0198	.0022	.0717	-.0020	-.0020	83.00	9.028
#3	.1409	.2342	.0215	-.0010	.0712	-.0031	.0003	83.01	9.052

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**103.4**	**22.24**	**9.261**	**3.444**	**.0290**	**.0043**	**2.059**	**.0209**	**.0600**
Stddev	.2	.17	.003	.015	.0003	.0003	.031	.0002	.0001
%RSD	.1900	.7525	.0360	.4370	1.178	7.674	1.503	1.165	.1884
#1	103.6	22.43	9.264	3.460	.0292	.0046	2.091	.0211	.0599
#2	103.2	22.15	9.259	3.441	.0291	.0044	2.054	.0207	.0601
#3	103.5	22.13	9.258	3.430	.0286	.0039	2.030	.0210	.0599

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.077**	**.0074**	**.0720**	**.2075**	**-.0110**	**.1117**	**.6720**
Stddev	.009	.0004	.0010	.0024	.0005	.0009	.0045
%RSD	.3000	5.776	1.403	1.158	4.776	.7627	.6647
#1	3.087	.0079	.0714	.2058	-.0111	.1127	.6669
#2	3.071	.0071	.0732	.2064	-.0114	.1110	.6737
#3	3.071	.0071	.0715	.2102	-.0104	.1115	.6753

Zoom In Zoom Out

Sample Name: JC79221-2A Acquired: 12/7/2018 16:10:57 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108450.**	**3923.9**	**4869.8**	**9629.0**
Stddev	153.	12.9	6.0	10.8
%RSD	.14064	.32914	.12248	.11175
#1	108300.	3914.9	4871.1	9636.6
#2	108460.	3938.7	4863.3	9616.7
#3	108600.	3918.1	4875.0	9633.8

Zoom In Zoom Out

Sample Name: JC79221-3A Acquired: 12/7/2018 16:16:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.201**	**.0055**	**-.0004**	**.0532**	**.7608**	**.1153**	**4.399**	**.1199**	**-.0002**
Stddev	.001	.0001	.0002	.0003	.0017	.0006	.012	.0001	.0003
%RSD	.0892	.9186	47.15	.5839	.2258	.5284	.2604	.0903	150.7
#1	1.200	.0055	-.0002	.0531	.7589	.1146	4.387	.1198	-.0000
#2	1.201	.0055	-.0005	.0536	.7615	.1156	4.410	.1200	-.0000
#3	1.203	.0054	-.0004	.0530	.7621	.1156	4.401	.1199	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2892**	**.3585**	**.0940**	**-.0014**	**.0892**	**-.0078**	**-.0033**	**126.7**	**15.17**
Stddev	.0007	.0005	.0010	.0007	.0007	.0011	.0010	.2	.06
%RSD	.2522	.1510	1.115	48.47	.7913	13.63	31.15	.1324	.4094
#1	.2884	.3581	.0947	-.0022	.0886	-.0082	-.0028	126.6	15.16
#2	.2893	.3584	.0945	-.0008	.0891	-.0086	-.0027	126.9	15.23
#3	.2899	.3591	.0928	-.0014	.0900	-.0066	-.0045	126.5	15.11

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **260.5**	**19.14**	**5.605**	**5.383**	**.0274**	**.0123**	**2.335**	**.0176**	**.1114**
Stddev	.3	.11	.008	.006	.0006	.0004	.009	.0007	.0008
%RSD	.1099	.5943	.1486	.1119	2.180	2.988	.3974	3.794	.6905
#1	260.5	19.18	5.614	5.376	.0279	.0119	2.345	.0183	.1113
#2	260.8	19.22	5.602	5.388	.0275	.0127	2.334	.0173	.1122
#3	260.3	19.01	5.598	5.384	.0268	.0123	2.326	.0171	.1107

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.494**	**.0072**	**.0925**	**.6511**	**.0037**	**.2143**	**1.389**
Stddev	.003	.0013	.0004	.0023	.0018	.0014	.002
%RSD	.2117	18.22	.4254	.3459	49.18	.6395	.1739
#1	1.492	.0058	.0923	.6537	.0016	.2131	1.391
#2	1.493	.0083	.0922	.6496	.0047	.2140	1.386
#3	1.498	.0076	.0929	.6500	.0047	.2158	1.388

Zoom In Zoom Out

Sample Name: JC79221-3A Acquired: 12/7/2018 16:16:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108030.**	**3972.2**	**4567.5**	**9180.7**
Stddev	181.	4.5	5.2	13.8
%RSD	.16717	.11443	.11393	.14987
#1	108180.	3967.8	4561.7	9172.8
#2	108080.	3971.8	4568.9	9172.7
#3	107830.	3976.9	4571.8	9196.6

Zoom In Zoom Out

Sample Name: JC79221-4A Acquired: 12/7/2018 16:21:38 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5586**	**.0039**	**-.0000**	**.0547**	**.0923**	**.0658**	**.8037**	**.1153**	**.0008**
Stddev	.0019	.0001	.0001	.0001	.0006	.0006	.0045	.0003	.0003
%RSD	.3481	1.585	207.1	.1491	.6949	.8394	.5631	.2497	37.19
#1	.5605	.0039	.0000	.0547	.0918	.0657	.7998	.1151	.0012
#2	.5587	.0038	-.0000	.0548	.0922	.0654	.8026	.1153	.0006
#3	.5567	.0039	-.0002	.0546	.0930	.0664	.8087	.1156	.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1390**	**.2679**	**.0208**	**.0004**	**.0736**	**-.0047**	**-.0007**	**64.08**	**6.168**
Stddev	.0011	.0004	.0006	.0017	.0010	.0010	.0005	.12	.005
%RSD	.7978	.1373	2.706	471.0	1.388	22.16	72.82	.1882	.0834
#1	.1380	.2675	.0203	-.0002	.0747	-.0056	-.0006	64.21	6.169
#2	.1388	.2678	.0215	-.0010	.0728	-.0049	-.0012	63.96	6.163
#3	.1402	.2683	.0207	.0023	.0732	-.0036	-.0002	64.07	6.173

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**103.8**	**16.55**	**5.497**	**1.126**	**.0213**	**.0040**	**1.836**	**.0180**	**.0456**
Stddev	.3	.18	.015	.018	.0003	.0002	.014	.0005	.0003
%RSD	.2850	1.062	.2763	1.609	1.229	5.861	.7400	2.558	.6383
#1	103.9	16.43	5.510	1.142	.0216	.0039	1.847	.0175	.0453
#2	103.5	16.48	5.481	1.107	.0211	.0043	1.839	.0180	.0458
#3	104.0	16.75	5.502	1.130	.0212	.0038	1.820	.0185	.0456

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.293**	**.0043**	**.0721**	**.5423**	**-.0043**	**.1038**	**1.067**
Stddev	.006	.0008	.0008	.0031	.0011	.0005	.005
%RSD	.5011	19.04	1.129	.5807	24.52	.4806	.4696
#1	1.287	.0041	.0713	.5392	-.0033	.1042	1.062
#2	1.293	.0052	.0721	.5422	-.0054	.1039	1.071
#3	1.300	.0036	.0729	.5455	-.0042	.1032	1.068

Zoom In Zoom Out

Sample Name: JC79221-4A Acquired: 12/7/2018 16:21:38 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109670.**	**3959.1**	**4689.7**	**9178.8**
Stddev	663.	18.0	6.2	8.7
%RSD	.60497	.45465	.13255	.09515
#1	110180.	3960.4	4696.7	9188.9
#2	109910.	3976.4	4684.8	9174.6
#3	108920.	3940.4	4687.5	9173.1

Zoom In Zoom Out

Sample Name: JC79221-5A Acquired: 12/7/2018 16:26:54 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3665**	**.0025**	**-.0002**	**.0289**	**.1178**	**.0749**	**.7877**	**.0692**	**.0008**
Stddev	.0009	.0000	.0001	.0002	.0005	.0005	.0024	.0002	.0002
%RSD	.2489	.7227	45.32	.6722	.4228	.6018	.2995	.2856	23.79
#1	.3675	.0025	-.0001	.0290	.1182	.0750	.7882	.0691	.0009
#2	.3657	.0025	-.0001	.0286	.1178	.0752	.7897	.0690	.0006
#3	.3663	.0025	-.0003	.0290	.1172	.0744	.7851	.0694	.0010

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2001**	**.2133**	**.0471**	**.0029**	**.0679**	**-.0009**	**-.0005**	**78.00**	**6.385**
Stddev	.0007	.0006	.0013	.0012	.0016	.0020	.0009	.12	.011
%RSD	.3715	.2590	2.701	40.38	2.301	219.2	163.8	.1565	.1765
#1	.1995	.2128	.0480	.0024	.0692	.0013	-.0007	78.11	6.391
#2	.2009	.2132	.0457	.0021	.0662	-.0026	.0004	77.87	6.372
#3	.1998	.2139	.0477	.0042	.0683	-.0015	-.0013	78.02	6.392

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**111.2**	**13.65**	**5.359**	**1.206**	**.0156**	**.0040**	**1.971**	**.0187**	**.0499**
Stddev	.3	.08	.036	.004	.0002	.0002	.050	.0001	.0006
%RSD	.2667	.5716	.6772	.3770	1.132	5.633	2.523	.6726	1.220
#1	111.5	13.73	5.396	1.211	.0154	.0041	2.023	.0188	.0492
#2	110.9	13.57	5.323	1.202	.0156	.0038	1.968	.0186	.0503
#3	111.1	13.67	5.357	1.206	.0157	.0042	1.923	.0187	.0501

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.697**	**.0036**	**.0657**	**.1522**	**-.0054**	**.1089**	**.8591**
Stddev	.008	.0003	.0005	.0012	.0012	.0007	.0047
%RSD	.4548	8.516	.7368	.7920	22.13	.6857	.5497
#1	1.697	.0038	.0657	.1527	-.0040	.1088	.8600
#2	1.704	.0038	.0661	.1508	-.0060	.1082	.8633
#3	1.689	.0033	.0651	.1531	-.0061	.1097	.8540

Zoom In Zoom Out

Sample Name: JC79221-5A Acquired: 12/7/2018 16:26:54 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108410.**	**3897.5**	**5017.3**	**10015.**
Stddev	248.	8.7	2.8	5.
%RSD	.22875	.22202	.05568	.05333
#1	108450.	3888.2	5019.3	10021.
#2	108150.	3905.4	5014.1	10014.
#3	108640.	3898.8	5018.5	10011.

Zoom In Zoom Out

Sample Name: JC79221-6A Acquired: 12/7/2018 16:32:11 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4295**	**.0047**	**.0002**	**.0801**	**.1042**	**.0596**	F **14.89**	**.0832**	**-.0022**
Stddev	.0008	.0001	.0001	.0003	.0009	.0004	.05	.0002	.0003
%RSD	.1916	1.484	47.27	.3717	.8208	.6993	.3269	.2827	15.38
#1	.4304	.0046	.0001	.0804	.1046	.0595	14.90	.0830	-.0023
#2	.4295	.0047	.0002	.0800	.1047	.0600	14.94	.0834	-.0024
#3	.4287	.0047	.0003	.0799	.1032	.0592	14.84	.0831	-.0018

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1421**	**.1690**	**.0569**	**-.0014**	**.0411**	**-.0080**	**-.0036**	**56.27**	**19.97**
Stddev	.0006	.0004	.0017	.0020	.0010	.0005	.0005	.13	.03
%RSD	.4299	.2539	2.972	139.7	2.508	6.381	12.78	.2300	.1427
#1	.1423	.1690	.0581	-.0012	.0420	-.0086	-.0032	56.41	19.95
#2	.1426	.1694	.0577	-.0035	.0400	-.0078	-.0041	56.25	19.95
#3	.1415	.1686	.0550	.0005	.0413	-.0076	-.0035	56.16	20.00

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **225.2**	**9.698**	**3.675**	**1.438**	**.0156**	**.0048**	**2.329**	**.0160**	**.0554**
Stddev	.2	.005	.015	.001	.0004	.0002	.009	.0002	.0004
%RSD	.0987	.0555	.4033	.0459	2.326	4.150	.3924	.9974	.6328
#1	225.3	9.700	3.666	1.438	.0157	.0049	2.334	.0159	.0550
#2	225.3	9.692	3.692	1.439	.0160	.0049	2.318	.0159	.0556
#3	224.9	9.702	3.666	1.438	.0153	.0045	2.335	.0162	.0555

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.490**	**.0030**	**.0445**	**.2808**	**.0048**	**.0735**	**2.466**
Stddev	.003	.0005	.0003	.0030	.0021	.0002	.003
%RSD	.2240	17.80	.6937	1.052	43.50	.2565	.1356
#1	1.491	.0029	.0444	.2828	.0042	.0733	2.467
#2	1.493	.0036	.0448	.2823	.0031	.0736	2.468
#3	1.486	.0026	.0442	.2774	.0071	.0736	2.462

Zoom In Zoom Out

Sample Name: JC79221-6A Acquired: 12/7/2018 16:32:11 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108770.**	**4002.2**	**4904.2**	**9857.4**
Stddev	283.	9.9	2.1	12.4
%RSD	.25997	.24846	.04281	.12611
#1	108790.	3991.4	4905.9	9869.4
#2	108470.	4004.3	4901.8	9844.6
#3	109040.	4011.0	4904.8	9858.1

Zoom In Zoom Out

Sample Name: JC79221-7A Acquired: 12/7/2018 16:37:37 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4567**	**.0024**	**.0006**	**.0358**	**.0963**	**.1651**	**2.280**	**.0697**	**.0010**
Stddev	.0015	.0000	.0001	.0004	.0003	.0008	.014	.0004	.0001
%RSD	.3207	.3019	10.27	1.070	.2843	.4930	.6233	.5400	10.38
#1	.4575	.0023	.0006	.0362	.0964	.1656	2.289	.0700	.0011
#2	.4577	.0024	.0005	.0354	.0959	.1641	2.264	.0698	.0009
#3	.4550	.0024	.0006	.0357	.0964	.1655	2.289	.0693	.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1236**	**.6426**	**.0331**	**.0024**	**.6141**	**-.0003**	**-.0007**	**60.91**	**22.03**
Stddev	.0001	.0023	.0004	.0003	.0036	.0011	.0007	.31	.18
%RSD	.0860	.3565	1.357	13.80	.5791	417.5	112.5	.5016	.8316
#1	.1236	.6451	.0330	.0027	.6155	.0008	-.0015	61.15	22.14
#2	.1235	.6420	.0336	.0020	.6168	-.0002	-.0001	61.00	22.13
#3	.1237	.6407	.0327	.0026	.6101	-.0014	-.0003	60.56	21.81

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**91.27**	**11.03**	**5.730**	**4.170**	**.0353**	**.0059**	**2.263**	**.0608**	**.1032**
Stddev	.64	.08	.025	.018	.0004	.0001	.051	.0002	.0006
%RSD	.6975	.7516	.4365	.4269	1.102	1.716	2.276	.2748	.5762
#1	91.74	11.04	5.718	4.187	.0356	.0059	2.320	.0610	.1035
#2	91.53	11.11	5.759	4.172	.0354	.0060	2.248	.0607	.1036
#3	90.54	10.95	5.714	4.151	.0349	.0059	2.221	.0609	.1025

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.085**	**.0050**	**.0432**	**4.881**	**-.0015**	**.0779**	F **9.409**
Stddev	.006	.0014	.0015	.004	.0020	.0020	.016
%RSD	.5584	27.86	3.512	.0807	128.1	2.625	.1706
#1	1.090	.0034	.0448	4.884	-.0005	.0802	9.421
#2	1.078	.0055	.0431	4.883	-.0038	.0766	9.414
#3	1.086	.0061	.0418	4.877	-.0003	.0768	9.391

Zoom In Zoom Out

Sample Name: JC79221-7A Acquired: 12/7/2018 16:37:37 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: DUE

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107710.**	**3978.4**	**4604.4**	**9209.0**
Stddev	360.	34.0	4.1	2.4
%RSD	.33386	.85532	.08936	.02603
#1	107330.	3953.7	4606.3	9211.7
#2	108050.	3964.3	4599.7	9207.5
#3	107760.	4017.2	4607.2	9207.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 16:43:04 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**2.020**	**1.997**	**2.020**	**2.070**	**2.017**	**2.101**	**2.063**	**.2526**
Stddev	.004	.005	.001	.003	.010	.012	.011	.003	.0009
%RSD	.1927	.2408	.0713	.1290	.4809	.6164	.5118	.1421	.3687
#1	2.002	2.015	1.997	2.022	2.080	2.020	2.108	2.066	.2527
#2	2.002	2.024	1.999	2.017	2.070	2.028	2.106	2.060	.2535
#3	2.009	2.022	1.996	2.020	2.060	2.003	2.088	2.062	.2516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.059**	**2.051**	**2.000**	**2.022**	**2.030**	**1.971**	**1.987**	**39.17**	**39.82**
Stddev	.008	.005	.002	.001	.002	.002	.004	.04	.08
%RSD	.3953	.2686	.1101	.0322	.0849	.0807	.2042	.1063	.2085
#1	2.065	2.058	2.000	2.023	2.032	1.970	1.985	39.12	39.73
#2	2.062	2.049	2.002	2.021	2.030	1.972	1.992	39.20	39.89
#3	2.050	2.048	1.998	2.022	2.029	1.969	1.985	39.18	39.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.35**	**39.33**	**39.55**	**39.55**	**1.999**	**2.028**	**5.163**	**2.051**	**2.021**
Stddev	.17	.02	.08	.08	.003	.002	.004	.004	.003
%RSD	.4302	.0610	.1908	.1972	.1596	.0767	.0805	.1873	.1520
#1	39.22	39.31	39.50	39.47	1.996	2.028	5.160	2.055	2.018
#2	39.54	39.35	39.52	39.62	2.002	2.030	5.168	2.051	2.020
#3	39.28	39.34	39.64	39.58	1.998	2.027	5.161	2.047	2.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 16:43:04 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.056**	**2.005**	**2.065**	**1.985**	**1.966**	**2.025**	**2.009**
Stddev	.009	.001	.011	.002	.005	.003	.002
%RSD	.4241	.0611	.5424	.0770	.2668	.1402	.0879
#1	2.062	2.007	2.073	1.984	1.961	2.023	2.007
#2	2.060	2.005	2.070	1.987	1.971	2.024	2.010
#3	2.046	2.004	2.053	1.985	1.965	2.028	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102280.**	**3739.8**	**4388.7**	**8881.5**
Stddev	569.	12.2	5.5	6.7
%RSD	.55628	.32608	.12633	.07547
#1	101790.	3744.9	4391.3	8885.4
#2	102140.	3725.8	4382.3	8873.8
#3	102900.	3748.5	4392.5	8885.4

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 16:48:17 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0000**	**-.0002**	**.0002**	**.0001**	**.0002**	**.0001**	**-.0008**
Stddev	.0002	.0000	.0001	.0003	.0001	.0003	.0000	.0001	.0002
%RSD	396.6	58.95	285.1	130.4	35.48	273.6	19.95	130.7	27.87
#1	.0001	.0001	.0002	-.0003	.0003	.0003	.0003	.0002	-.0005
#2	.0002	.0000	.0000	-.0004	.0001	.0003	.0003	.0001	-.0009
#3	-.0002	.0001	-.0001	.0001	.0003	-.0002	.0002	-.0000	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0008**	**.0005**	**-.0000**	**.0007**	**.0008**	**.0016**	**.0159**	**.0091**
Stddev	.0001	.0001	.0002	.0013	.0005	.0006	.0003	.0009	.0039
%RSD	28.92	12.46	42.25	2632.	71.31	77.64	15.90	5.505	42.66
#1	.0007	.0007	.0003	-.0001	.0004	.0012	.0014	.0151	.0065
#2	.0004	.0007	.0007	.0013	.0003	.0010	.0019	.0157	.0135
#3	.0004	.0009	.0006	-.0013	.0012	.0001	.0015	.0168	.0073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0018**	**-.0127**	**.0696**	**.0338**	**.0022**	F **.0034**	**.0028**	**.0006**	**.0000**
Stddev	.0098	.0708	.0066	.0085	.0005	.0004	.0003	.0010	.0001
%RSD	549.2	556.8	9.513	25.14	24.61	13.20	11.22	159.2	220.7
#1	-.0102	.0274	.0645	.0241	.0022	.0039	.0025	.0002	.0000
#2	-.0041	.0290	.0673	.0401	.0028	.0032	.0028	.0018	-.0000
#3	.0090	-.0945	.0771	.0372	.0017	.0031	.0031	-.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 16:48:17 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0027**	**.0005**	**.0001**	**-.0002**	**.0018**	**.0017**
Stddev	.0003	.0007	.0001	.0024	.0009	.0003	.0006
%RSD	77.02	25.85	29.08	2197.	565.5	17.70	33.08
#1	.0001	.0019	.0004	.0029	.0005	.0021	.0020
#2	.0008	.0032	.0006	-.0016	.0002	.0019	.0011
#3	.0004	.0030	.0003	-.0010	-.0012	.0014	.0021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107060.**	**3802.4**	**4570.5**	**9203.3**
Stddev	481.	12.2	4.8	8.7
%RSD	.44913	.32094	.10608	.09427
#1	106660.	3797.6	4573.6	9203.8
#2	106920.	3816.3	4564.9	9194.3
#3	107590.	3793.3	4573.0	9211.6

Zoom In Zoom Out

Sample Name: mp11064-mb1conf Acquired: 12/7/2018 16:53:49 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0002**	**-.0002**	**.0000**	**.0001**	**.0004**	**.0000**	**.0004**	**-.0003**
Stddev	.0002	.0001	.0001	.0003	.0001	.0003	.0000	.0002	.0001
%RSD	245.4	87.01	41.31	4439.	145.6	62.53	60.54	42.12	29.61
#1	.0003	.0000	-.0003	-.0003	-.0000	.0003	.0001	.0006	-.0003
#2	-.0001	.0003	-.0001	.0002	.0001	.0002	.0000	.0002	-.0002
#3	.0001	.0001	-.0001	.0001	.0001	.0007	.0000	.0004	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0108**	**.0013**	**.0050**	**.0010**	**-.0017**	**-.0025**	**.0202**	**.0085**
Stddev	.0001	.0000	.0006	.0011	.0011	.0009	.0016	.0141	.0041
%RSD	48.95	.4441	45.18	22.40	103.2	52.79	62.34	69.72	48.54
#1	.0002	.0108	.0017	.0059	.0018	-.0009	-.0007	.0153	.0111
#2	.0001	.0108	.0016	.0053	.0015	-.0027	-.0031	.0092	.0037
#3	.0003	.0107	.0006	.0037	-.0002	-.0016	-.0037	.0360	.0106

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0004**	**-.0125**	**.0231**	**.0011**	**.0008**	**.0019**	**-.0008**	**.0002**
Stddev	.0034	.0283	.0191	.0037	.0004	.0002	.0006	.0009	.0001
%RSD	152.6	6639.	152.7	15.95	37.99	25.98	33.57	110.5	46.62
#1	.0051	.0329	.0095	.0230	.0009	.0007	.0022	-.0017	.0002
#2	.0031	-.0188	-.0247	.0268	.0008	.0007	.0022	-.0008	.0004
#3	-.0015	-.0129	-.0222	.0194	.0015	.0010	.0011	.0001	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0003**	**.0001**	**.0049**	**.0031**	**-.0010**	**.0025**
Stddev	.0002	.0004	.0001	.0006	.0010	.0004	.0009
%RSD	82.36	115.4	86.13	13.08	33.99	37.80	35.48
#1	.0003	-.0003	.0001	.0054	.0036	-.0014	.0032
#2	.0003	.0001	.0000	.0051	.0038	-.0006	.0029
#3	.0000	-.0007	.0002	.0042	.0019	-.0011	.0015

Zoom In Zoom Out

Sample Name: mp11064-mb1conf Acquired: 12/7/2018 16:53:49 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110350.**	**3969.8**	**4642.8**	**9387.1**
Stddev	505.	12.1	6.1	8.7
%RSD	.45748	.30529	.13051	.09272
#1	110300.	3965.7	4648.7	9395.1
#2	109870.	3960.2	4642.9	9377.8
#3	110880.	3983.4	4636.6	9388.4

Zoom In Zoom Out

Sample Name: jc79077-1 Acquired: 12/7/2018 16:59:20 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: due monday

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0542**	**.0000**	**.0002**	**-.0000**	**.0014**	**.0021**	**.2739**	**.0007**	**-.0003**
Stddev	.0006	.0001	.0000	.0001	.0002	.0001	.0014	.0000	.0001
%RSD	1.177	248.1	16.86	240.8	11.06	6.582	.5097	5.204	18.91
#1	.0549	-.0001	.0001	.0000	.0015	.0020	.2745	.0007	-.0002
#2	.0537	.0001	.0002	.0000	.0014	.0023	.2748	.0007	-.0003
#3	.0540	.0001	.0002	-.0001	.0012	.0020	.2723	.0006	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058**	**.0007**	**.0070**	**-.0002**	**.0004**	**.0010**	**.0022**	**.0432**	**28.25**
Stddev	.0003	.0001	.0005	.0007	.0007	.0015	.0007	.0056	.04
%RSD	5.403	15.54	7.075	488.4	170.4	153.4	33.64	12.87	.1403
#1	.0059	.0006	.0066	-.0010	.0010	.0018	.0014	.0496	28.22
#2	.0061	.0006	.0076	.0002	-.0004	-.0008	.0028	.0395	28.25
#3	.0055	.0008	.0070	.0003	.0006	.0019	.0024	.0405	28.29

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.931**	**2.221**	**1.328**	**15.64**	**.0650**	**.0022**	**5.052**	**-.0009**	**.0740**
Stddev	.015	.022	.016	.03	.0004	.0003	.011	.0006	.0002
%RSD	.7998	.9912	1.166	.2069	.6854	11.85	.2233	65.00	.2784
#1	1.930	2.196	1.327	15.67	.0648	.0025	5.059	-.0013	.0738
#2	1.947	2.234	1.314	15.62	.0655	.0020	5.057	-.0002	.0742
#3	1.916	2.234	1.345	15.62	.0647	.0022	5.039	-.0011	.0739

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0054**	**.0016**	**1.132**	**-.0014**	**.0013**	**.1261**
Stddev	.0002	.0004	.0001	.007	.0011	.0004	.0006
%RSD	5.686	7.764	6.178	.5896	76.26	32.65	.4964
#1	.0037	.0058	.0016	1.127	-.0002	.0009	.1257
#2	.0040	.0051	.0015	1.130	-.0024	.0012	.1268
#3	.0041	.0052	.0016	1.139	-.0017	.0018	.1259

Zoom In Zoom Out

Sample Name: jc79077-1 Acquired: 12/7/2018 16:59:20 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: due monday

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105210.**	**3785.8**	**4425.3**	**8954.0**
Stddev	769.	1.9	3.5	6.9
%RSD	.73128	.05118	.07893	.07687
#1	104680.	3783.9	4423.5	8950.7
#2	104850.	3785.6	4423.2	8949.3
#3	106090.	3787.8	4429.4	8961.9

Zoom In Zoom Out

Sample Name: jc79077-2 Acquired: 12/7/2018 17:04:46 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: AS-ZN

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0768**	**-.0000**	**.0001**	**-.0004**	**.0009**	**.0016**	**.9502**	**.0002**	**-.0004**
Stddev	.0003	.0001	.0000	.0004	.0002	.0001	.0030	.0002	.0003
%RSD	.3355	926.5	26.54	99.96	26.34	5.397	.3183	133.5	67.96
#1	.0765	.0000	.0002	-.0000	.0007	.0017	.9516	-.0001	-.0003
#2	.0769	-.0001	.0001	-.0007	.0012	.0016	.9467	.0004	-.0002
#3	.0770	.0001	.0001	-.0004	.0010	.0015	.9523	.0002	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0097**	**.0025**	**-.0003**	**.0006**	**-.0005**	**.0022**	**.0133**	**36.64**
Stddev	.0000	.0001	.0009	.0024	.0016	.0019	.0016	.0051	.11
%RSD	1.002	.9574	34.72	759.3	292.8	426.7	74.69	38.60	.3015
#1	.0048	.0096	.0035	.0004	-.0010	-.0012	.0041	.0191	36.51
#2	.0047	.0098	.0022	-.0029	.0023	.0018	.0015	.0113	36.69
#3	.0048	.0097	.0018	.0016	.0005	-.0019	.0010	.0094	36.72

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.336**	**2.814**	**.8970**	**10.64**	**.0502**	**.0024**	**6.962**	**.0003**	**.0987**
Stddev	.023	.071	.0254	.01	.0004	.0000	.003	.0004	.0009
%RSD	.9782	2.527	2.826	.1070	.8792	1.574	.0460	106.0	.8791
#1	2.311	2.794	.8950	10.63	.0502	.0024	6.966	.0008	.0981
#2	2.340	2.755	.9233	10.63	.0507	.0023	6.959	.0002	.0983
#3	2.356	2.893	.8727	10.65	.0498	.0024	6.961	.0001	.0997

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0024**	**.0004**	**.4936**	**-.0011**	**.0011**	**.0968**
Stddev	.0002	.0010	.0001	.0033	.0010	.0003	.0004
%RSD	10.81	41.33	19.88	.6683	90.45	29.89	.4307
#1	.0018	.0028	.0005	.4967	-.0002	.0008	.0971
#2	.0022	.0013	.0003	.4941	-.0009	.0010	.0970
#3	.0021	.0032	.0005	.4901	-.0022	.0015	.0963

Zoom In Zoom Out

Sample Name: jc79077-2 Acquired: 12/7/2018 17:04:46 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: AS-ZN

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104350.**	**3780.3**	**4402.6**	**8915.3**
Stddev	283.	9.3	3.1	5.8
%RSD	.27118	.24535	.07146	.06506
#1	104210.	3790.7	4399.7	8909.3
#2	104680.	3777.7	4405.9	8920.9
#3	104170.	3772.7	4402.2	8915.8

Zoom In Zoom Out

Sample Name: jc79077-3 Acquired: 12/7/2018 17:10:13 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9420**	**-.0001**	**.0001**	**.0251**	**.0010**	**-.0006**	F **12.48**	**.0067**
Stddev	.0010	.0000	.0002	.0004	.0001	.0002	.03	.0003
%RSD	.1033	19.83	334.6	1.698	6.945	34.76	.2244	4.406
#1	.9419	-.0001	.0003	.0249	.0011	-.0006	12.46	.0065
#2	.9411	-.0001	.0001	.0255	.0010	-.0008	12.51	.0071
#3	.9430	-.0001	-.0002	.0248	.0010	-.0004	12.48	.0066

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**.0011**	**-.0040**	**.0106**	F **-.0021**	F **-.0033**	**-.0041**	**-.0008**
Stddev	.0003	.0001	.0002	.0002	.0009	.0008	.0024	.0008
%RSD	19.15	6.188	6.154	2.140	41.36	23.45	58.49	100.7
#1	-.0015	.0011	-.0038	.0104	-.0022	-.0040	-.0041	-.0012
#2	-.0017	.0011	-.0043	.0107	-.0012	-.0032	-.0065	.0001
#3	-.0012	.0012	-.0039	.0108	-.0029	-.0025	-.0017	-.0012

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**52.41**	**126.2**	**5.385**	**2.805**	**28.99**	**.0910**	**.0038**
Stddev	.0199	.07	.2	.003	.027	.03	.0005	.0002
%RSD	1257.	.1396	.1448	.0520	.9537	.1204	.5173	5.089
#1	-.0213	52.35	126.0	5.382	2.817	28.97	.0909	.0039
#2	.0109	52.39	126.2	5.387	2.823	28.98	.0915	.0036
#3	.0151	52.49	126.4	5.385	2.774	29.03	.0906	.0039

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.83**	**-.0017**	**.3823**	**.0010**	**.0035**	**-.0049**	**.1400**	**.0058**
Stddev	.03	.0006	.0011	.0001	.0009	.0001	.0016	.0011
%RSD	.2279	32.41	.2819	11.33	26.47	2.541	1.124	18.25
#1	11.86	-.0020	.3825	.0010	.0024	-.0050	.1392	.0055
#2	11.82	-.0011	.3812	.0009	.0042	-.0049	.1390	.0049
#3	11.81	-.0021	.3833	.0011	.0038	-.0048	.1418	.0070

Zoom In Zoom Out

Sample Name: jc79077-3 Acquired: 12/7/2018 17:10:13 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0033**	**.1562**
Stddev	.0003	.0001
%RSD	9.686	.0940
#1	.0035	.1564
#2	.0034	.1561
#3	.0029	.1562

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103470.**	**3752.7**	**4361.9**	**8967.4**
Stddev	268.	4.6	5.2	4.9
%RSD	.25910	.12168	.11809	.05453
#1	103180.	3757.5	4356.3	8972.5
#2	103510.	3748.4	4362.9	8962.7
#3	103710.	3752.3	4366.5	8966.9

Zoom In Zoom Out

Sample Name: jc79077-4 Acquired: 12/7/2018 17:15:44 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9557**	**-.0001**	**.0001**	**.0256**	**.0011**	**-.0002**	F **12.71**	**.0069**
Stddev	.0017	.0001	.0003	.0003	.0002	.0003	.07	.0002
%RSD	.1767	47.92	224.8	1.247	17.57	162.1	.5677	3.389
#1	.9566	-.0001	.0001	.0255	.0009	-.0005	12.77	.0067
#2	.9537	-.0001	.0005	.0253	.0012	.0002	12.63	.0070
#3	.9566	-.0002	-.0002	.0259	.0013	-.0003	12.71	.0071

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**.0010**	**-.0034**	**.0110**	F **-.0055**	**-.0020**	**-.0054**	**.0001**
Stddev	.0002	.0002	.0003	.0004	.0023	.0018	.0015	.0015
%RSD	11.07	21.28	8.393	3.887	41.59	88.54	27.36	1111.
#1	-.0016	.0012	-.0037	.0114	-.0044	-.0039	-.0042	-.0003
#2	-.0014	.0008	-.0032	.0107	-.0082	-.0004	-.0048	-.0011
#3	-.0017	.0010	-.0034	.0108	-.0040	-.0017	-.0070	.0018

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0085**	**53.59**	**128.8**	**5.587**	**2.867**	**29.76**	**.0925**	**.0044**
Stddev	.0026	.04	.1	.065	.036	.09	.0024	.0001
%RSD	31.04	.0681	.1023	1.160	1.271	.2986	2.557	1.964
#1	-.0091	53.62	128.9	5.657	2.902	29.78	.0917	.0044
#2	-.0056	53.59	128.8	5.530	2.829	29.67	.0907	.0043
#3	-.0108	53.55	128.7	5.575	2.869	29.84	.0952	.0045

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.18**	**-.0016**	**.3902**	**.0011**	**.0086**	**-.0048**	**.1458**	**.0068**
Stddev	.29	.0002	.0011	.0003	.0013	.0000	.0052	.0012
%RSD	2.383	9.678	.2867	30.35	15.30	.9227	3.585	17.51
#1	12.02	-.0017	.3914	.0012	.0075	-.0048	.1434	.0080
#2	12.01	-.0017	.3892	.0008	.0083	-.0048	.1422	.0056
#3	12.52	-.0014	.3902	.0015	.0100	-.0048	.1518	.0067

Zoom In Zoom Out

Sample Name: jc79077-4 Acquired: 12/7/2018 17:15:44 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0038**	**.1613**
Stddev	.0007	.0024
%RSD	17.84	1.472
#1	.0031	.1615
#2	.0045	.1588
#3	.0039	.1636

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103830.**	**3719.9**	**4380.9**	**9024.2**
Stddev	318.	4.4	87.2	163.6
%RSD	.30577	.11811	1.9907	1.8130
#1	103880.	3724.8	4431.8	9124.5
#2	104120.	3716.3	4430.7	9112.8
#3	103500.	3718.6	4280.2	8835.4

Zoom In Zoom Out

Sample Name: jc79077-5 Acquired: 12/7/2018 17:21:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0430**	**-.0000**	**.0002**	**-.0008**	**.0243**	**.0016**	**.0029**	**.0756**	**-.0006**
Stddev	.0004	.0000	.0001	.0002	.0000	.0001	.0000	.0002	.0003
%RSD	.9403	172.6	41.54	27.29	.1592	6.545	.9703	.3024	45.76
#1	.0431	-.0001	.0001	-.0008	.0243	.0017	.0029	.0758	-.0003
#2	.0426	.0000	.0003	-.0006	.0243	.0015	.0029	.0753	-.0007
#3	.0434	-.0000	.0002	-.0010	.0243	.0016	.0030	.0755	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0041**	**-.0014**	**-.0012**	**.0012**	**.0009**	**.0018**	**.0298**	**28.59**
Stddev	.0000	.0001	.0001	.0020	.0005	.0018	.0003	.0012	.13
%RSD	1.735	3.627	9.377	164.0	43.74	192.3	15.52	4.119	.4622
#1	.0013	.0043	-.0012	-.0022	.0006	.0011	.0016	.0311	28.45
#2	.0012	.0040	-.0014	-.0026	.0015	-.0009	.0021	.0288	28.72
#3	.0013	.0041	-.0014	.0011	.0015	.0027	.0018	.0293	28.61

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0285**	**3.092**	**3.064**	**6.174**	**.0326**	**.0016**	**5.504**	**.0002**	**.1053**
Stddev	.0039	.073	.024	.005	.0008	.0003	.007	.0006	.0009
%RSD	13.81	2.366	.7770	.0857	2.368	18.67	.1267	304.8	.8691
#1	.0239	3.018	3.068	6.179	.0317	.0013	5.511	.0000	.1044
#2	.0307	3.093	3.038	6.176	.0331	.0019	5.506	.0008	.1054
#3	.0308	3.164	3.085	6.168	.0329	.0016	5.497	-.0003	.1062

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0023**	**.0001**	**2.071**	**-.0020**	**.0012**	**.0485**
Stddev	.0003	.0009	.0001	.011	.0024	.0009	.0003
%RSD	21.75	40.60	40.39	.5479	117.9	71.76	.6793
#1	.0016	.0033	.0001	2.058	-.0044	.0006	.0489
#2	.0013	.0016	.0002	2.080	-.0019	.0022	.0483
#3	.0010	.0018	.0001	2.074	.0003	.0009	.0483

Zoom In Zoom Out

Sample Name: jc79077-5 Acquired: 12/7/2018 17:21:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**105380.**	**3773.1**	**4266.5**	**8562.8**
Stddev	243.	11.3	3.3	6.7
%RSD	.23014	.29910	.07835	.07827
#1	105320.	3781.8	4263.0	8555.7
#2	105640.	3760.3	4266.8	8563.7
#3	105170.	3777.0	4269.7	8569.1

Zoom In Zoom Out

Sample Name: jc79077-6 Acquired: 12/7/2018 17:26:35 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0000**	**.0001**	**-.0007**	**.0004**	**.0001**	**.0004**	**-.0002**
Stddev	.0002	.0000	.0001	.0002	.0001	.0002	.0000	.0003
%RSD	34.59	14460.	178.1	25.88	34.69	217.2	6.996	124.8
#1	.0006	.0000	.0001	-.0005	.0004	.0001	.0004	-.0001
#2	.0003	.0000	.0001	-.0007	.0006	.0003	.0005	-.0000
#3	.0004	-.0000	-.0001	-.0009	.0003	-.0001	.0005	-.0006

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0002**	**.0020**	**-.0012**	F **-.0032**	**.0004**	**.0011**	**.0034**
Stddev	.0002	.0002	.0002	.0005	.0010	.0005	.0011	.0003
%RSD	25.87	94.38	10.07	39.69	30.48	139.9	95.71	9.211
#1	-.0010	-.0000	.0019	-.0008	-.0027	-.0001	.0017	.0032
#2	-.0006	.0003	.0018	-.0011	-.0043	.0009	-.0001	.0037
#3	-.0008	.0004	.0022	-.0017	-.0025	.0003	.0018	.0033

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**9.066**	**.0011**	**1.347**	**.9124**	**7.668**	**.0048**	**.0006**
Stddev	.0019	.010	.0027	.041	.0166	.017	.0007	.0001
%RSD	75.20	.1074	244.2	3.028	1.820	.2200	13.97	19.77
#1	.0045	9.061	.0016	1.372	.9289	7.655	.0050	.0005
#2	.0008	9.060	-.0018	1.300	.8957	7.687	.0041	.0008
#3	.0022	9.077	.0035	1.370	.9128	7.662	.0054	.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.045**	**.0004**	**.0440**	**.0005**	**.0021**	**.0002**	**2.709**	**-.0020**
Stddev	.008	.0008	.0006	.0001	.0004	.0001	.012	.0003
%RSD	.2040	188.0	1.284	31.94	20.55	40.41	.4547	13.89
#1	4.036	-.0004	.0435	.0004	.0016	.0003	2.695	-.0020
#2	4.047	.0005	.0440	.0006	.0024	.0001	2.717	-.0023
#3	4.052	.0011	.0446	.0004	.0024	.0001	2.715	-.0017

Zoom In Zoom Out

Sample Name: jc79077-6 Acquired: 12/7/2018 17:26:35 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0008**	**.0038**
Stddev	.0002	.0002
%RSD	22.50	4.171
#1	.0006	.0037
#2	.0009	.0036
#3	.0008	.0039

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104950.**	**3695.9**	**4434.7**	**8931.5**
Stddev	367.	7.7	9.2	25.4
%RSD	.34956	.20771	.20848	.28454
#1	104770.	3690.9	4445.0	8960.8
#2	105370.	3692.0	4431.8	8919.0
#3	104700.	3704.7	4427.2	8914.8

Zoom In Zoom Out

Sample Name: MP11122-MB1 Acquired: 12/7/2018 17:32:02 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0000**	**-.0003**	**.0003**	**-.0002**	**.0002**	**.0000**	**.0004**	**-.0005**
Stddev	.0001	.0000	.0001	.0001	.0002	.0002	.0000	.0001	.0002
%RSD	352.3	806.5	56.25	36.92	142.4	121.6	129.7	30.18	38.47
#1	-.0002	-.0000	-.0001	.0003	.0001	.0003	.0000	.0005	-.0004
#2	.0001	-.0000	-.0004	.0003	-.0003	.0003	.0000	.0004	-.0004
#3	-.0001	.0001	-.0003	.0005	-.0002	-.0001	-.0000	.0003	-.0008

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0003**	**.0009**	**.0066**	**.0013**	**-.0032**	**-.0036**	**.0036**	**.0081**
Stddev	.0000	.0001	.0002	.0010	.0013	.0006	.0004	.0147	.0010
%RSD	9.820	28.53	23.19	14.43	98.65	18.20	10.77	413.9	12.42
#1	.0001	.0003	.0010	.0070	.0002	-.0037	-.0037	.0133	.0071
#2	.0001	.0002	.0007	.0055	.0027	-.0034	-.0039	.0108	.0083
#3	.0001	.0004	.0011	.0073	.0011	-.0026	-.0032	-.0134	.0091

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059**	**.0128**	**.0024**	**.0157**	**-.0000**	**-.0004**	**.0035**	**-.0012**	**.0000**
Stddev	.0033	.0040	.0164	.0025	.0003	.0001	.0012	.0001	.0001
%RSD	56.87	31.06	689.4	16.14	1038.	30.34	33.94	5.038	243.3
#1	.0054	.0090	.0089	.0183	-.0004	-.0003	.0044	-.0011	.0001
#2	.0094	.0169	-.0163	.0153	.0003	-.0005	.0021	-.0012	-.0001
#3	.0028	.0124	.0145	.0133	.0000	-.0003	.0039	-.0013	.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0017**	**.0001**	**.0031**	**.0024**	**.0001**	**.0038**
Stddev	.0002	.0010	.0002	.0014	.0003	.0005	.0007
%RSD	50.48	54.74	123.7	45.03	14.18	463.7	19.47
#1	.0005	-.0014	.0001	.0046	.0023	.0007	.0043
#2	.0001	-.0028	-.0000	.0019	.0021	-.0004	.0041
#3	.0003	-.0010	.0003	.0027	.0028	.0001	.0030

Zoom In Zoom Out

Sample Name: MP11122-MB1 Acquired: 12/7/2018 17:32:02 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107970.**	**3897.7**	**4517.1**	**9062.0**
Stddev	76.	12.7	2.1	4.1
%RSD	.07069	.32615	.04670	.04579
#1	107950.	3912.4	4516.3	9057.5
#2	108050.	3890.0	4515.5	9065.6
#3	107900.	3890.8	4519.5	9063.1

Zoom In Zoom Out

Sample Name: MP11122-B1 Acquired: 12/7/2018 17:37:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.963**	**1.992**	**1.941**	**1.952**	**2.001**	**1.946**	**2.060**	**1.979**
Stddev	.003	.005	.002	.001	.011	.011	.004	.001
%RSD	.1596	.2634	.1240	.0674	.5287	.5497	.2144	.0599
#1	1.959	1.987	1.942	1.954	2.006	1.951	2.065	1.980
#2	1.965	1.993	1.939	1.951	2.008	1.953	2.059	1.978
#3	1.963	1.998	1.943	1.952	1.989	1.934	2.056	1.980

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2569**	**1.986**	**1.950**	**1.870**	**2.061**	**2.001**	**1.982**	**1.885**
Stddev	.0010	.010	.003	.003	.003	.001	.002	.005
%RSD	.3971	.5210	.1555	.1700	.1669	.0611	.0834	.2813
#1	.2570	1.992	1.951	1.870	2.064	2.001	1.982	1.890
#2	.2578	1.992	1.951	1.868	2.062	1.999	1.981	1.880
#3	.2558	1.974	1.946	1.874	2.057	2.002	1.984	1.887

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.43**	**24.79**	**24.48**	**24.11**	**24.67**	**24.50**	**1.905**	**1.937**
Stddev	.08	.19	.14	.25	.08	.05	.005	.003
%RSD	.3355	.7491	.5795	1.031	.3409	.2110	.2526	.1739
#1	24.35	24.58	24.32	23.83	24.58	24.44	1.901	1.936
#2	24.42	24.85	24.55	24.20	24.70	24.53	1.904	1.935
#3	24.51	24.94	24.57	24.30	24.73	24.53	1.910	1.941

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0289**	**1.949**	**1.981**	**1.981**	**1.760**	**1.952**	F **-.1932**	**-.0061**
Stddev	.0008	.002	.004	.009	.002	.009	.0008	.0021
%RSD	2.905	.0907	.2128	.4765	.0945	.4478	.4365	35.10
#1	.0285	1.951	1.976	1.986	1.761	1.956	-.1933	-.0045
#2	.0299	1.947	1.984	1.986	1.758	1.958	-.1941	-.0085
#3	.0284	1.948	1.983	1.970	1.761	1.942	-.1924	-.0052

Zoom In Zoom Out

Sample Name: MP11122-B1 Acquired: 12/7/2018 17:37:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**.0002**	**1.886**
Stddev	.0001	.014
%RSD	54.31	.7526
#1	.0002	1.897
#2	.0004	1.890
#3	.0001	1.870

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106390.**	**3845.5**	**4899.6**	**9975.2**
Stddev	444.	23.5	7.2	10.4
%RSD	.41690	.61041	.14609	.10414
#1	106290.	3870.0	4905.7	9986.6
#2	106000.	3843.2	4901.5	9973.0
#3	106870.	3823.2	4891.7	9966.2

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 17:42:48 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.013**	**1.984**	**1.953**	**1.998**	**2.046**	**1.995**	**2.088**	**2.027**	**.2488**
Stddev	.005	.006	.002	.005	.004	.008	.006	.004	.0006
%RSD	.2452	.2991	.0784	.2299	.2175	.3916	.2871	.1886	.2524
#1	2.013	1.982	1.952	2.002	2.042	1.989	2.082	2.030	.2481
#2	2.008	1.979	1.955	1.993	2.046	2.003	2.088	2.023	.2490
#3	2.018	1.991	1.952	1.998	2.051	1.991	2.094	2.028	.2493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.034**	**1.983**	**1.905**	**2.019**	**2.013**	**1.873**	**1.932**	**38.87**	**39.70**
Stddev	.004	.004	.003	.002	.004	.004	.005	.10	.13
%RSD	.1839	.1870	.1648	.1175	.2211	.1843	.2865	.2694	.3184
#1	2.030	1.984	1.902	2.022	2.015	1.869	1.928	38.86	39.59
#2	2.036	1.978	1.906	2.020	2.007	1.874	1.938	38.77	39.66
#3	2.037	1.986	1.909	2.017	2.016	1.876	1.930	38.98	39.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.98**	**38.88**	**39.45**	**39.12**	**1.911**	**2.011**	**5.054**	**2.017**	**2.026**
Stddev	.17	.13	.10	.15	.005	.001	.010	.003	.006
%RSD	.4428	.3442	.2482	.3836	.2494	.0379	.1906	.1592	.3138
#1	39.00	38.72	39.38	39.10	1.909	2.010	5.044	2.015	2.026
#2	38.80	38.97	39.40	38.98	1.917	2.011	5.064	2.021	2.020
#3	39.14	38.94	39.56	39.28	1.908	2.012	5.053	2.015	2.033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 17:42:48 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.028**	**1.994**	**2.040**	**1.834**	**1.945**	**1.990**	**1.899**
Stddev	.005	.002	.005	.002	.005	.008	.007
%RSD	.2647	.0768	.2548	.1292	.2806	.4004	.3485
#1	2.022	1.994	2.038	1.837	1.941	1.992	1.892
#2	2.032	1.996	2.046	1.834	1.951	1.981	1.904
#3	2.030	1.993	2.037	1.832	1.942	1.996	1.902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104240.**	**3808.2**	**4659.0**	**9413.0**
Stddev	274.	16.0	6.6	5.6
%RSD	.26307	.41920	.14262	.05988
#1	104530.	3820.5	4662.9	9406.6
#2	103980.	3814.0	4651.3	9415.3
#3	104220.	3790.2	4662.7	9417.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 17:48:01 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0001**	**.0001**	**-.0001**	**.0003**	**-.0004**	**.0001**	**-.0000**	**-.0008**
Stddev	.0002	.0002	.0001	.0001	.0001	.0001	.0000	.0001	.0002
%RSD	73.98	154.6	248.0	91.43	40.82	14.76	36.26	1460.	31.26
#1	.0004	.0002	.0001	-.0002	.0002	-.0004	.0001	.0001	-.0010
#2	.0000	-.0001	.0002	-.0001	.0004	-.0004	.0001	-.0001	-.0007
#3	.0003	.0001	-.0001	-.0000	.0003	-.0005	.0001	-.0000	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0007**	**-.0003**	**.0002**	**.0003**	**-.0000**	**.0008**	**.0054**	**.0093**
Stddev	.0001	.0002	.0006	.0007	.0007	.0013	.0004	.0058	.0041
%RSD	21.29	34.46	190.1	314.0	260.3	4565.	47.73	106.8	44.36
#1	.0004	.0009	.0002	-.0004	-.0005	.0015	.0007	-.0011	.0066
#2	.0003	.0006	-.0010	.0000	.0010	-.0007	.0005	.0072	.0072
#3	.0002	.0005	-.0001	.0010	.0003	-.0008	.0013	.0101	.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084**	**.0416**	**.0986**	**.0286**	**.0033**	F **.0049**	**.0020**	**.0005**	**.0003**
Stddev	.0045	.0183	.0368	.0095	.0008	.0008	.0001	.0005	.0002
%RSD	53.63	43.95	37.35	33.17	25.53	15.50	5.856	96.54	72.12
#1	.0133	.0320	.1117	.0384	.0042	.0057	.0020	.0001	.0001
#2	.0072	.0626	.1271	.0279	.0029	.0049	.0019	.0004	.0005
#3	.0046	.0301	.0570	.0195	.0026	.0042	.0022	.0010	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 17:48:01 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	F **.0073**	**.0004**	**-.0001**	**.0001**	**.0011**	**.0021**
Stddev	.0001	.0006	.0001	.0020	.0008	.0009	.0003
%RSD	18.50	8.174	15.60	1418.	1421.	81.50	16.47
#1	.0003	.0079	.0004	.0014	-.0006	.0018	.0021
#2	.0002	.0067	.0005	.0006	-.0001	.0013	.0023
#3	.0003	.0073	.0004	-.0025	.0009	.0001	.0017
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		.0054					
Low Limit		-.0054					

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107660.**	**3778.8**	**4653.6**	**9395.9**
Stddev	431.	18.1	4.8	10.1
%RSD	.40053	.47794	.10344	.10706
#1	107170.	3773.9	4656.2	9394.1
#2	107790.	3763.8	4648.0	9386.9
#3	108000.	3798.9	4656.5	9406.8

Zoom In Zoom Out

Sample Name: JC79221-3A Acquired: 12/7/2018 17:53:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.160**	**.0058**	**-.0004**	**.0515**	**.7634**	**.1128**	**4.437**	**.1162**	**.0033**
Stddev	.001	.0002	.0003	.0004	.0029	.0007	.021	.0003	.0005
%RSD	.1003	3.383	70.09	.8556	.3791	.6047	.4800	.2822	15.52
#1	1.161	.0058	-.0002	.0518	.7665	.1124	4.458	.1166	.0031
#2	1.158	.0057	-.0003	.0516	.7608	.1124	4.415	.1160	.0039
#3	1.160	.0061	-.0007	.0510	.7628	.1136	4.438	.1161	.0029

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2865**	**.3470**	**.0911**	**.0004**	**.0893**	**-.0027**	**.0009**	**125.0**	**15.12**
Stddev	.0017	.0024	.0022	.0012	.0018	.0027	.0014	.1	.02
%RSD	.5873	.6928	2.447	299.3	2.009	99.60	154.6	.1066	.1376
#1	.2881	.3466	.0927	.0008	.0898	-.0021	.0010	125.0	15.13
#2	.2847	.3448	.0920	-.0010	.0873	-.0004	.0022	125.0	15.13
#3	.2867	.3495	.0885	.0014	.0908	-.0057	-.0006	124.8	15.09

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**261.9**	**18.96**	**5.416**	**5.444**	**.0277**	**.0153**	**2.239**	**.0172**	**.1079**
Stddev	.7	.03	.076	.022	.0016	.0005	.002	.0016	.0006
%RSD	.2585	.1609	1.406	.3997	5.673	3.581	.0878	9.179	.5312
#1	262.3	18.98	5.503	5.459	.0286	.0158	2.237	.0189	.1075
#2	262.3	18.93	5.381	5.419	.0287	.0148	2.239	.0159	.1076
#3	261.1	18.99	5.363	5.455	.0259	.0152	2.241	.0168	.1085

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.466**	**.0150**	**.0856**	**.6036**	**.0043**	**.2093**	**1.282**
Stddev	.007	.0006	.0003	.0039	.0006	.0009	.004
%RSD	.4485	3.827	.3454	.6528	13.55	.4120	.3156
#1	1.472	.0155	.0853	.5991	.0039	.2086	1.278
#2	1.459	.0144	.0858	.6067	.0050	.2091	1.282
#3	1.467	.0153	.0857	.6048	.0040	.2103	1.286

Zoom In Zoom Out

Sample Name: JC79221-3A Acquired: 12/7/2018 17:53:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107370.**	**3803.8**	**4852.9**	**9783.5**
Stddev	382.	11.4	2.2	8.0
%RSD	.35589	.29870	.04473	.08170
#1	107090.	3799.4	4854.9	9791.7
#2	107810.	3795.3	4850.6	9783.0
#3	107220.	3816.7	4853.3	9775.8

Zoom In Zoom Out

Sample Name: JC79221-6A Acquired: 12/7/2018 17:59:01 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4314**	**.0046**	**.0004**	**.0826**	**.1157**	**.0604**	F **16.02**	**.0857**	**-.0017**
Stddev	.0004	.0000	.0002	.0002	.0006	.0004	.06	.0007	.0002
%RSD	.0825	.9975	60.58	.1865	.5143	.6932	.3464	.8700	13.55
#1	.4312	.0046	.0007	.0827	.1151	.0603	15.99	.0856	-.0019
#2	.4312	.0047	.0003	.0825	.1162	.0608	16.08	.0864	-.0019
#3	.4318	.0046	.0002	.0824	.1159	.0600	15.97	.0849	-.0015

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1479**	**.1840**	**.0608**	**.0025**	**.0428**	**-.0082**	**-.0036**	**57.39**	**20.78**
Stddev	.0008	.0004	.0010	.0017	.0039	.0031	.0031	.13	.05
%RSD	.5096	.2076	1.720	66.39	9.206	38.39	85.65	.2339	.2506
#1	.1473	.1837	.0619	.0036	.0445	-.0105	-.0050	57.31	20.72
#2	.1487	.1844	.0607	.0006	.0383	-.0094	-.0001	57.55	20.81
#3	.1478	.1838	.0598	.0034	.0455	-.0046	-.0058	57.32	20.81

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**233.3**	**9.775**	**3.798**	**1.589**	**.0187**	**.0065**	**2.414**	**.0170**	**.0560**
Stddev	.1	.043	.051	.011	.0006	.0001	.022	.0015	.0007
%RSD	.0463	.4391	1.336	.7105	3.155	1.142	.9313	8.811	1.183
#1	233.2	9.738	3.853	1.602	.0184	.0065	2.439	.0183	.0567
#2	233.4	9.822	3.790	1.583	.0184	.0066	2.396	.0174	.0560
#3	233.4	9.766	3.753	1.582	.0194	.0065	2.406	.0153	.0553

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.513**	**.0071**	**.0429**	**.3201**	**.0056**	**.0738**	**2.708**
Stddev	.009	.0018	.0001	.0053	.0005	.0025	.018
%RSD	.5685	25.77	.2169	1.663	8.867	3.444	.6711
#1	1.508	.0088	.0429	.3255	.0051	.0767	2.725
#2	1.523	.0073	.0431	.3148	.0055	.0728	2.689
#3	1.509	.0051	.0429	.3199	.0061	.0719	2.712

Zoom In Zoom Out

Sample Name: JC79221-6A Acquired: 12/7/2018 17:59:01 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108430.**	**3909.0**	**4654.9**	**9343.5**
Stddev	384.	3.2	3.9	2.8
%RSD	.35388	.08137	.08395	.03035
#1	108540.	3910.5	4659.0	9345.0
#2	108010.	3911.2	4651.3	9340.3
#3	108760.	3905.4	4654.4	9345.3

Zoom In Zoom Out

Sample Name: JC79221-6A Acquired: 12/7/2018 18:04:29 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4336**	**.0049**	**.0005**	**.0819**	**.1421**	**.0627**	**16.91**	**.0877**	**-.0020**
Stddev	.0021	.0003	.0003	.0021	.0007	.0014	.11	.0012	.0001
%RSD	.4888	6.810	66.33	2.588	.4578	2.227	.6340	1.320	4.248
#1	.4356	.0053	.0001	.0822	.1413	.0614	16.79	.0879	-.0019
#2	.4338	.0047	.0007	.0839	.1425	.0641	17.00	.0864	-.0020
#3	.4314	.0047	.0005	.0797	.1424	.0624	16.94	.0887	-.0021

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1506**	**.1988**	**.0632**	**-.0047**	**.0427**	**-.0047**	**-.0030**	**60.17**	**21.71**
Stddev	.0011	.0021	.0017	.0034	.0068	.0030	.0008	.07	.05
%RSD	.7291	1.060	2.641	73.14	16.03	63.92	28.17	.1240	.2154
#1	.1493	.2012	.0649	-.0072	.0388	-.0023	-.0028	60.13	21.66
#2	.1514	.1982	.0616	-.0060	.0387	-.0080	-.0039	60.26	21.75
#3	.1510	.1971	.0632	-.0008	.0506	-.0037	-.0022	60.13	21.71

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**240.6**	**10.41**	**3.849**	**1.984**	**.0220**	**.0067**	**2.446**	**.0176**	**.0568**
Stddev	.6	.13	.090	.038	.0008	.0006	.014	.0009	.0012
%RSD	.2671	1.221	2.330	1.922	3.561	9.443	.5653	5.167	2.121
#1	241.3	10.28	3.816	1.948	.0222	.0061	2.440	.0176	.0562
#2	240.5	10.39	3.950	2.024	.0226	.0067	2.462	.0167	.0560
#3	240.0	10.54	3.780	1.979	.0211	.0074	2.437	.0185	.0582

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.531**	**.0104**	**.0436**	**.3741**	**.0034**	**.0784**	**2.708**
Stddev	.005	.0035	.0005	.0015	.0021	.0015	.012
%RSD	.3511	34.00	1.099	.3985	60.55	1.918	.4481
#1	1.525	.0139	.0432	.3725	.0036	.0791	2.694
#2	1.536	.0068	.0435	.3755	.0055	.0793	2.717
#3	1.532	.0104	.0442	.3742	.0013	.0766	2.712

Zoom In Zoom Out

Sample Name: JC79221-6A Acquired: 12/7/2018 18:04:29 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108500.**	**3738.1**	**4728.0**	**9509.7**
Stddev	552.	9.2	1.2	5.4
%RSD	.50838	.24729	.02436	.05632
#1	109120.	3745.9	4727.4	9504.4
#2	108060.	3727.8	4729.3	9515.1
#3	108320.	3740.5	4727.3	9509.5

Zoom In Zoom Out

Sample Name: JC79221-1A Acquired: 12/7/2018 18:10:00 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0000**	**-.0003**	**.0002**	**.0002**	**.0004**	**.0013**	**.0021**	**-.0005**
Stddev	.0005	.0001	.0001	.0002	.0001	.0002	.0000	.0001	.0001
%RSD	114.8	330.8	44.74	85.22	44.16	61.00	2.186	6.536	28.35
#1	.0003	.0001	-.0003	.0003	.0002	.0004	.0013	.0021	-.0004
#2	.0010	-.0001	-.0003	.0000	.0003	.0006	.0013	.0020	-.0006
#3	-.0000	.0000	-.0001	.0004	.0001	.0002	.0013	.0022	-.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0011**	**.0025**	**.0066**	**.0001**	**-.0028**	**-.0031**	**.0189**	**.1887**
Stddev	.0001	.0001	.0003	.0016	.0019	.0011	.0011	.0130	.0065
%RSD	50.36	7.354	11.94	23.47	1810.	40.18	36.62	68.56	3.429
#1	.0004	.0010	.0022	.0067	.0023	-.0031	-.0019	.0339	.1891
#2	.0003	.0010	.0025	.0081	-.0011	-.0038	-.0031	.0117	.1950
#3	.0001	.0011	.0028	.0050	-.0009	-.0016	-.0042	.0111	.1820

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0093**	**.0137**	**.4737**	**.0040**	**.0001**	**1.457**	**.0002**	**.0050**
Stddev	.0047	.0118	.0041	.0062	.0002	.0001	.007	.0005	.0000
%RSD	109.1	126.6	29.92	1.300	4.430	95.27	.4531	217.4	.9628
#1	.0075	.0227	.0154	.4684	.0040	.0000	1.454	.0003	.0050
#2	.0065	.0005	.0091	.4805	.0039	.0001	1.453	-.0003	.0051
#3	-.0011	.0047	.0168	.4721	.0042	.0003	1.465	.0007	.0050

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0023**	**.0001**	**.0087**	**.0028**	**.0002**	**.0043**
Stddev	.0003	.0004	.0001	.0008	.0008	.0002	.0006
%RSD	75.32	17.94	58.35	9.420	28.12	66.06	12.74
#1	.0002	-.0019	.0002	.0092	.0028	.0003	.0041
#2	.0007	-.0022	.0001	.0077	.0020	.0004	.0039
#3	.0003	-.0027	.0001	.0090	.0035	.0001	.0050

Zoom In Zoom Out

Sample Name: JC79221-1A Acquired: 12/7/2018 18:10:00 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**109160.**	**3901.1**	**4604.4**	**9289.7**
Stddev	507.	12.9	11.2	20.0
%RSD	.46421	.32941	.24256	.21515
#1	109290.	3909.9	4599.0	9275.8
#2	108600.	3907.0	4617.3	9312.6
#3	109590.	3886.3	4597.0	9280.6

Zoom In Zoom Out

Sample Name: JC79090-25 Acquired: 12/7/2018 18:15:31 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0000**	**-.0001**	**.0002**	**-.0001**	**.0010**	**.0010**	**.0011**	**-.0003**
Stddev	.0002	.0000	.0001	.0003	.0002	.0003	.0000	.0001	.0001
%RSD	13.79	189.7	263.6	195.9	183.2	32.63	3.211	9.765	41.48
#1	.0013	.0001	-.0000	.0001	.0001	.0006	.0010	.0010	-.0003
#2	.0013	.0000	.0001	-.0001	-.0003	.0011	.0010	.0012	-.0004
#3	.0016	-.0000	-.0002	.0005	-.0001	.0012	.0010	.0012	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0273**	**.0010**	**.0062**	**.0003**	**-.0034**	**-.0039**	**.0156**	**.4527**
Stddev	.0001	.0002	.0010	.0010	.0009	.0004	.0009	.0093	.0002
%RSD	55.17	.5818	102.5	15.49	292.3	12.25	23.45	59.93	.0480
#1	.0003	.0273	.0013	.0071	.0007	-.0029	-.0032	.0123	.4524
#2	.0002	.0275	-.0002	.0065	-.0008	-.0037	-.0049	.0261	.4527
#3	.0001	.0271	.0018	.0052	.0010	-.0036	-.0034	.0083	.4529

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0063**	**.0402**	**.0050**	**.0134**	**.0019**	**.0000**	**.0098**	**-.0005**	**.0015**
Stddev	.0078	.0227	.0153	.0004	.0006	.0003	.0010	.0007	.0002
%RSD	124.0	56.29	303.9	3.060	33.33	737.2	9.856	129.4	16.45
#1	.0038	.0315	-.0125	.0130	.0017	.0003	.0087	.0002	.0017
#2	.0151	.0233	.0159	.0136	.0014	-.0000	.0106	-.0006	.0012
#3	.0000	.0660	.0118	.0137	.0026	-.0002	.0100	-.0011	.0015

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0021**	**.0002**	**.0024**	**.0026**	**-.0002**	**.0035**
Stddev	.0003	.0011	.0001	.0012	.0003	.0003	.0007
%RSD	63.60	54.72	31.83	48.02	13.16	143.2	20.16
#1	.0006	-.0011	.0002	.0011	.0028	.0001	.0042
#2	.0008	-.0033	.0001	.0030	.0028	-.0006	.0028
#3	.0001	-.0018	.0002	.0032	.0022	-.0002	.0036

Zoom In Zoom Out

Sample Name: JC79090-25 Acquired: 12/7/2018 18:15:31 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108650.**	**3894.7**	**4498.7**	**9053.4**
Stddev	643.	23.7	5.2	5.3
%RSD	.59156	.60817	.11602	.05889
#1	109350.	3892.8	4504.7	9052.7
#2	108510.	3919.3	4495.5	9059.0
#3	108090.	3872.1	4495.8	9048.4

Zoom In Zoom Out

Sample Name: ICSA Acquired: 12/7/2018 18:21:03 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**.0001**	**.0001**	**-.0005**	**.0005**	**-.0044**	**.0039**	**-.0013**	**.0005**
Stddev	.0002	.0001	.0002	.0002	.0004	.0001	.0002	.0004	.0008
%RSD	10.35	41.27	176.0	28.78	76.77	2.880	5.942	28.84	164.1
#1	.0016	.0002	-.0001	-.0004	.0010	-.0045	.0036	-.0009	-.0004
#2	.0017	.0001	.0001	-.0006	.0002	-.0043	.0039	-.0014	.0007
#3	.0020	.0002	.0002	-.0006	.0005	-.0045	.0041	-.0016	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0010**	**.0024**	**.0040**	**.0014**	**-.0076**	**.0039**	**526.5**	**401.6**
Stddev	.0002	.0001	.0016	.0021	.0015	.0008	.0011	8.3	7.7
%RSD	22.62	14.69	66.01	53.56	107.7	11.09	29.51	1.571	1.921
#1	-.0006	.0008	.0042	.0018	-.0001	-.0083	.0045	517.0	392.7
#2	-.0010	.0011	.0011	.0041	.0029	-.0067	.0026	531.6	405.8
#3	-.0010	.0011	.0020	.0060	.0015	-.0079	.0046	531.0	406.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**203.4**	**528.1**	**-.0463**	**.0385**	**.0000**	**.0037**	**-.0060**	**-.0035**	**-.0064**
Stddev	3.3	11.1	.0095	.0046	.0010	.0001	.0007	.0010	.0002
%RSD	1.638	2.105	20.47	12.04	10630.	2.983	11.54	30.23	3.584
#1	199.6	515.3	-.0449	.0437	.0008	.0037	-.0062	-.0035	-.0063
#2	205.4	533.3	-.0376	.0371	.0003	.0038	-.0066	-.0024	-.0063
#3	205.3	535.6	-.0564	.0348	-.0011	.0036	-.0053	-.0045	-.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: ICSA Acquired: 12/7/2018 18:21:03 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**.0127**	**-.0070**	**-.0132**	**.0081**	**.0013**	**.0208**
Stddev	.0003	.0017	.0000	.0011	.0006	.0003	.0010
%RSD	7.360	13.48	.5487	8.353	7.552	23.79	4.740
#1	.0031	.0115	-.0070	-.0120	.0088	.0010	.0196
#2	.0035	.0146	-.0070	-.0142	.0077	.0014	.0212
#3	.0036	.0119	-.0070	-.0134	.0078	.0016	.0214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96204.**	**3499.0**	**4304.9**	**8790.5**
Stddev	338.	68.9	5.6	11.7
%RSD	.35105	1.9678	.12907	.13261
#1	96578.	3578.5	4305.7	8789.7
#2	96111.	3462.0	4310.1	8802.5
#3	95922.	3456.6	4299.0	8779.2

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/7/2018 18:26:19 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5344**	**.5088**	**1.012**	**.4761**	**.4923**	**.5438**	**.5199**	**.9660**	**1.067**
Stddev	.0009	.0008	.004	.0023	.0010	.0017	.0021	.0040	.005
%RSD	.1764	.1490	.4132	.4808	.2015	.3084	.3998	.4124	.4444
#1	.5355	.5096	1.012	.4774	.4923	.5456	.5207	.9681	1.071
#2	.5337	.5081	1.008	.4735	.4912	.5423	.5175	.9614	1.062
#3	.5340	.5088	1.017	.4775	.4932	.5436	.5215	.9685	1.069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5013**	**.9312**	**1.027**	**1.016**	**.9727**	**.9960**	**1.057**	**520.5**	**397.5**
Stddev	.0015	.0043	.003	.003	.0040	.0008	.005	1.2	1.0
%RSD	.2945	.4583	.3344	.2994	.4085	.0839	.4879	.2388	.2446
#1	.5019	.9330	1.029	1.014	.9763	.9951	1.055	521.0	397.5
#2	.4996	.9264	1.023	1.014	.9684	.9960	1.054	519.1	396.5
#3	.5024	.9344	1.029	1.019	.9735	.9968	1.063	521.5	398.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**201.0**	**519.6**	**.0018**	**.0601**	**.4891**	**.4967**	**.5120**	**.4830**	**.5817**
Stddev	.6	1.6	.0100	.0051	.0028	.0016	.0016	.0017	.0014
%RSD	.2847	.3002	549.6	8.552	.5696	.3203	.3207	.3522	.2436
#1	201.1	519.8	.0083	.0657	.4905	.4963	.5102	.4820	.5831
#2	200.4	517.9	.0069	.0556	.4859	.4954	.5123	.4821	.5803
#3	201.6	521.0	-.0097	.0589	.4910	.4985	.5135	.4850	.5816
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/7/2018 18:26:19 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5082**	**.4970**	**.4907**	**.4393**	**.5569**	**.5313**	**.5069**
Stddev	.0022	.0021	.0024	.0013	.0026	.0014	.0042
%RSD	.4256	.4268	.4846	.2985	.4688	.2705	.8311
#1	.5096	.4959	.4885	.4406	.5554	.5324	.5093
#2	.5057	.4957	.4903	.4393	.5553	.5297	.5020
#3	.5092	.4995	.4933	.4380	.5599	.5317	.5093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**96129.**	**3481.2**	**4337.0**	**8855.2**
Stddev	427.	20.9	14.9	35.0
%RSD	.44447	.59923	.34280	.39489
#1	95797.	3492.7	4339.0	8846.2
#2	96611.	3493.8	4350.9	8893.8
#3	95979.	3457.1	4321.3	8825.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 18:31:22 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.999**	**1.966**	**1.941**	**1.979**	**2.037**	**1.985**	**2.071**	**2.014**	**.2493**
Stddev	.003	.001	.001	.001	.012	.003	.008	.002	.0013
%RSD	.1277	.0359	.0636	.0520	.5883	.1674	.3856	.1169	.5197
#1	2.002	1.967	1.941	1.979	2.025	1.983	2.064	2.016	.2482
#2	1.998	1.965	1.942	1.979	2.049	1.989	2.080	2.015	.2507
#3	1.997	1.967	1.940	1.980	2.036	1.983	2.069	2.012	.2490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.026**	**1.972**	**1.902**	**2.015**	**2.005**	**1.868**	**1.935**	**38.62**	**39.42**
Stddev	.009	.002	.003	.001	.002	.004	.005	.10	.04
%RSD	.4559	.1008	.1520	.0670	.1166	.2338	.2759	.2492	.0899
#1	2.019	1.974	1.904	2.014	2.006	1.866	1.934	38.64	39.39
#2	2.036	1.971	1.903	2.016	2.006	1.872	1.941	38.51	39.40
#3	2.022	1.971	1.899	2.013	2.002	1.864	1.930	38.70	39.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.68**	**38.73**	**39.17**	**39.03**	**1.906**	**2.006**	**4.999**	**2.021**	**2.008**
Stddev	.08	.16	.06	.03	.003	.003	.001	.002	.001
%RSD	.2105	.4220	.1424	.0794	.1292	.1699	.0168	.0776	.0548
#1	38.71	38.62	39.23	39.07	1.906	2.007	4.999	2.022	2.008
#2	38.59	38.67	39.12	39.01	1.909	2.009	5.000	2.021	2.009
#3	38.74	38.92	39.17	39.01	1.904	2.002	4.999	2.019	2.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 18:31:22 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 1

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.027**	**1.980**	**2.040**	**1.840**	**1.934**	**1.981**	**1.897**
Stddev	.009	.006	.004	.002	.003	.004	.005
%RSD	.4319	.2932	.2126	.1143	.1613	.2259	.2528
#1	2.020	1.978	2.038	1.840	1.931	1.986	1.898
#2	2.037	1.986	2.045	1.837	1.938	1.981	1.901
#3	2.025	1.975	2.037	1.841	1.934	1.977	1.892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104260.**	**3790.5**	**4641.7**	**9394.8**
Stddev	481.	4.3	2.4	2.6
%RSD	.46128	.11308	.05089	.02781
#1	104660.	3789.7	4640.6	9391.8
#2	103730.	3795.1	4640.1	9396.7
#3	104390.	3786.7	4644.4	9395.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 18:36:36 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0002**	**-.0000**	**-.0000**	**.0003**	**-.0002**	**.0001**	**.0002**	**-.0008**
Stddev	.0001	.0000	.0001	.0002	.0002	.0002	.0001	.0002	.0001
%RSD	75.57	3.888	22840.	1561.	70.94	129.8	42.07	117.2	14.30
#1	.0002	.0002	.0000	.0002	.0003	-.0004	.0001	-.0000	-.0009
#2	.0000	.0002	-.0002	-.0002	.0005	-.0001	.0001	.0001	-.0007
#3	.0002	.0002	.0001	-.0001	.0001	-.0000	.0002	.0004	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0000**	**.0002**	**.0007**	**.0017**	**.0007**	**.0010**	**.0250**	**.0081**
Stddev	.0001	.0001	.0008	.0005	.0006	.0011	.0005	.0086	.0040
%RSD	50.81	189.2	504.0	75.87	35.89	161.4	53.18	34.38	48.93
#1	.0002	-.0000	-.0006	.0001	.0012	.0017	.0004	.0334	.0126
#2	.0002	-.0001	.0009	.0011	.0015	-.0005	.0012	.0162	.0060
#3	.0004	.0000	.0001	.0009	.0023	.0008	.0014	.0255	.0056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**.0065**	**.0545**	**.0262**	**.0024**	F **.0034**	**.0019**	**.0003**	**.0003**
Stddev	.0027	.0351	.0204	.0044	.0002	.0005	.0007	.0007	.0001
%RSD	146.0	538.2	37.43	16.91	7.368	15.19	36.30	234.2	36.81
#1	.0049	.0461	.0746	.0312	.0022	.0040	.0024	-.0005	.0002
#2	-.0002	-.0057	.0553	.0245	.0024	.0033	.0022	.0006	.0002
#3	.0008	-.0209	.0337	.0228	.0026	.0030	.0011	.0007	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 18:36:36 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0035**	**.0003**	**-.0003**	**-.0002**	**.0009**	**.0019**
Stddev	.0002	.0013	.0001	.0009	.0009	.0002	.0002
%RSD	73.97	36.29	17.21	250.9	385.7	20.22	12.66
#1	.0000	.0048	.0003	-.0008	-.0006	.0011	.0021
#2	.0005	.0023	.0003	-.0008	.0008	.0007	.0017
#3	.0005	.0032	.0004	.0006	-.0009	.0010	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107870.**	**3822.0**	**4584.5**	**9207.2**
Stddev	249.	5.0	4.5	20.0
%RSD	.23077	.12986	.09753	.21716
#1	107590.	3827.7	4579.3	9185.9
#2	108060.	3819.7	4587.4	9210.0
#3	107950.	3818.5	4586.6	9225.6

Zoom In Zoom Out

Sample Name: JC78686-25UNDCONF Acquired: 12/7/2018 18:42:09 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0000**	**-.0003**	**-.0000**	**.0001**	**.0003**	**.0009**	**.0011**	**-.0007**
Stddev	.0002	.0001	.0001	.0000	.0002	.0001	.0000	.0002	.0002
%RSD	14.90	704.7	40.60	73.39	175.2	43.15	2.663	15.29	26.82
#1	.0009	-.0000	-.0003	-.0000	-.0000	.0002	.0008	.0013	-.0008
#2	.0011	.0001	-.0004	-.0001	.0003	.0004	.0009	.0010	-.0007
#3	.0012	-.0001	-.0002	-.0000	.0000	.0004	.0009	.0010	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0255**	**.0021**	**.0054**	**.0008**	**-.0038**	**-.0047**	**.0125**	**.4376**
Stddev	.0000	.0002	.0006	.0011	.0007	.0017	.0008	.0134	.0030
%RSD	1.838	.9470	29.95	21.06	88.85	44.59	18.00	107.4	.6806
#1	.0005	.0253	.0024	.0065	.0006	-.0020	-.0038	.0279	.4410
#2	.0005	.0258	.0014	.0042	.0016	-.0040	-.0055	.0060	.4365
#3	.0005	.0255	.0025	.0056	.0002	-.0053	-.0047	.0035	.4354

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0015**	**.0428**	**-.0279**	**.0195**	**.0019**	**.0011**	**-.0011**	**-.0012**	**.0014**
Stddev	.0039	.0214	.0284	.0071	.0003	.0001	.0008	.0005	.0000
%RSD	252.1	49.92	101.7	36.48	17.08	6.472	75.34	46.14	2.342
#1	-.0060	.0184	-.0569	.0184	.0017	.0011	-.0003	-.0009	.0014
#2	.0005	.0583	-.0002	.0130	.0022	.0011	-.0019	-.0018	.0014
#3	.0009	.0518	-.0266	.0271	.0016	.0012	-.0011	-.0008	.0014

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0072**	**-.0000**	**.0024**	**.0037**	**-.0022**	**.0038**
Stddev	.0001	.0013	.0001	.0008	.0006	.0002	.0005
%RSD	32.36	17.35	711.9	31.61	15.26	9.844	12.39
#1	.0002	.0083	-.0001	.0026	.0043	-.0024	.0039
#2	.0001	.0075	.0000	.0031	.0032	-.0022	.0033
#3	.0002	.0059	.0001	.0016	.0036	-.0020	.0042

Zoom In Zoom Out

Sample Name: JC78686-25UNDCONF Acquired: 12/7/2018 18:42:09 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**110430.**	**3915.6**	**4624.2**	**9289.6**
Stddev	225.	4.5	18.3	30.3
%RSD	.20407	.11537	.39493	.32591
#1	110460.	3912.4	4641.0	9316.5
#2	110650.	3913.6	4604.7	9256.8
#3	110200.	3920.7	4626.8	9295.5

Zoom In Zoom Out

Sample Name: MOCONF Acquired: 12/7/2018 18:47:43 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0002**	**.0003**	**.0095**	**.0001**	**.0014**	**-.0006**	**.0001**
Stddev	.0004	.0000	.0001	.0002	.0000	.0002	.0000	.0004
%RSD	1470.	23.00	29.14	1.740	36.03	12.64	2.432	264.8
#1	-.0004	.0002	.0004	.0094	.0001	.0012	-.0006	.0005
#2	.0003	.0002	.0002	.0094	.0001	.0015	-.0006	-.0002
#3	.0001	.0002	.0003	.0097	.0002	.0015	-.0006	.0001

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**-.0149**	**.0004**	F **-.0031**	F **-.0070**	**.0008**	**-.0005**	**.0018**
Stddev	.0001	.0020	.0000	.0002	.0010	.0010	.0000	.0008
%RSD	2.711	13.64	2.747	7.963	14.05	116.5	3.873	44.39
#1	-.0019	-.0127	.0003	-.0029	-.0081	-.0003	-.0006	.0027
#2	-.0019	-.0167	.0004	-.0031	-.0063	.0014	-.0005	.0011
#3	-.0018	-.0153	.0004	-.0034	-.0066	.0014	-.0005	.0016

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0656**	**.0079**	**-.0002**	**.0587**	**.0069**	**.0427**	**.1123**	F **9.285**
Stddev	.0050	.0048	.0068	.0292	.0216	.0069	.0029	.012
%RSD	7.555	60.62	2990.	49.83	312.7	16.18	2.591	.1310
#1	.0672	.0075	-.0042	.0330	.0086	.0485	.1103	9.297
#2	.0600	.0033	-.0040	.0905	-.0155	.0445	.1109	9.286
#3	.0695	.0128	.0076	.0526	.0276	.0351	.1156	9.273

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0033**	**-.0002**	**.0002**	**.0070**	**.0035**	**.0070**	**.0139**	**-.0002**
Stddev	.0016	.0002	.0001	.0002	.0009	.0001	.0009	.0004
%RSD	46.46	63.83	35.56	2.397	26.82	1.343	6.653	199.2
#1	-.0046	-.0004	.0003	.0068	.0033	.0069	.0134	-.0005
#2	-.0038	-.0001	.0002	.0071	.0026	.0071	.0132	-.0004
#3	-.0016	-.0003	.0002	.0070	.0044	.0070	.0149	.0003

Zoom In Zoom Out

Sample Name: MOCONF Acquired: 12/7/2018 18:47:43 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0005**	**.0019**
Stddev	.0010	.0001
%RSD	199.3	6.288
#1	.0006	.0018
#2	-.0011	.0020
#3	-.0010	.0018

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106920.**	**3752.9**	**4524.7**	**9107.7**
Stddev	711.	10.1	5.8	6.6
%RSD	.66453	.27015	.12841	.07241
#1	107080.	3745.4	4519.0	9103.4
#2	106150.	3764.4	4524.5	9104.5
#3	107540.	3748.7	4530.7	9115.3

Zoom In Zoom Out

Sample Name: MNCONF Acquired: 12/7/2018 18:53:12 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0002**	**.0001**	**-.0003**	**.0008**	**-.0002**	F **10.37**	**-.0001**	**-.0027**
Stddev	.0001	.0001	.0001	.0002	.0002	.0003	.04	.0002	.0002
%RSD	179.2	35.52	128.2	48.59	21.83	113.6	.3962	175.8	8.273
#1	-.0000	-.0001	.0002	-.0005	.0010	-.0004	10.32	.0001	-.0028
#2	.0000	-.0001	.0000	-.0002	.0007	-.0003	10.39	-.0003	-.0028
#3	-.0002	-.0002	-.0000	-.0003	.0007	.0001	10.39	-.0002	-.0024

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0002**	**.0013**	**.0004**	**-.0006**	**-.0003**	**.0005**	**-.0028**	**.0053**
Stddev	.0003	.0001	.0011	.0021	.0008	.0008	.0010	.0066	.0044
%RSD	23.59	40.53	81.91	522.4	136.4	267.0	184.5	235.0	82.35
#1	.0012	.0001	.0001	.0002	-.0007	.0004	.0008	-.0001	.0058
#2	.0008	.0003	.0021	-.0016	-.0012	-.0012	.0013	.0020	.0007
#3	.0014	.0003	.0018	.0026	.0003	-.0001	-.0005	-.0103	.0094

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0076**	**-.0391**	**.0365**	**.0020**	**.0009**	**.0174**	**-.0095**	**.0008**	**.0001**
Stddev	.0021	.0121	.0130	.0030	.0001	.0031	.0003	.0003	.0001
%RSD	28.36	30.91	35.54	145.4	8.590	18.06	3.244	34.33	94.64
#1	-.0095	-.0509	.0224	.0038	.0009	.0205	-.0091	.0012	.0001
#2	-.0053	-.0398	.0479	-.0014	.0010	.0173	-.0097	.0007	.0000
#3	-.0079	-.0267	.0391	.0036	.0008	.0143	-.0096	.0006	.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0012**	**-.0001**	**-.0013**	**.0008**	**-.0002**	**.0260**
Stddev	.0002	.0001	.0001	.0013	.0012	.0003	.0001
%RSD	53.68	10.91	84.61	96.23	154.2	193.1	.3680
#1	.0005	.0012	-.0002	-.0025	-.0006	-.0005	.0261
#2	.0004	.0014	-.0002	-.0014	.0012	-.0001	.0259
#3	.0001	.0011	-.0000	.0000	.0017	.0001	.0261

Zoom In Zoom Out

Sample Name: MNCONF Acquired: 12/7/2018 18:53:12 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107270.**	**3716.6**	**4590.1**	**9199.8**
Stddev	448.	28.0	1.4	10.3
%RSD	.41763	.75404	.02963	.11215
#1	107760.	3743.7	4590.6	9211.3
#2	107140.	3687.7	4588.6	9191.5
#3	106890.	3718.4	4591.2	9196.4

Zoom In Zoom Out

Sample Name: VCONF Acquired: 12/7/2018 18:58:53 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0009**	**.0005**	**-.0000**	**.0009**	**-.0000**	**.0002**	**.0000**	**-.0025**
Stddev	.0002	.0000	.0001	.0002	.0002	.0001	.0001	.0002	.0000
%RSD	26.42	2.931	12.02	549.9	17.48	302.4	20.87	669.8	1.851
#1	.0009	-.0009	.0005	-.0001	.0008	-.0000	.0002	-.0002	-.0026
#2	.0009	-.0009	.0005	-.0002	.0011	-.0002	.0003	.0002	-.0025
#3	.0005	-.0009	.0004	.0002	.0010	.0001	.0002	.0002	-.0025

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **10.00**	**.0003**	**-.0002**	**-.0019**	**.0023**	**-.0032**	**-.0056**	**.0132**	**.0106**
Stddev	.06	.0002	.0002	.0025	.0007	.0022	.0006	.0040	.0044
%RSD	.6298	60.68	81.59	131.5	31.41	68.45	10.41	30.73	42.13
#1	10.07	.0005	-.0000	-.0005	.0015	-.0029	-.0058	.0096	.0056
#2	9.987	.0002	-.0004	-.0005	.0029	-.0012	-.0049	.0176	.0119
#3	9.945	.0002	-.0003	-.0049	.0025	-.0055	-.0060	.0123	.0142

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0064**	**-.0118**	**.0115**	**.0203**	**.0008**	**.0068**	**.0290**	**.0017**	**.0008**
Stddev	.0049	.0211	.0233	.0024	.0003	.0008	.0005	.0005	.0001
%RSD	77.49	177.7	202.0	11.95	33.15	12.32	1.768	30.73	11.56
#1	.0120	-.0248	-.0038	.0175	.0009	.0077	.0284	.0022	.0009
#2	.0046	.0124	.0001	.0222	.0010	.0066	.0291	.0015	.0008
#3	.0025	-.0232	.0383	.0211	.0005	.0060	.0293	.0013	.0008

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0008**	**.0336**	**-.0360**	**.0042**	**-.0007**	**-.0022**
Stddev	.0002	.0008	.0033	.0010	.0005	.0002	.0004
%RSD	47.72	97.55	9.942	2.741	12.20	24.26	20.18
#1	-.0002	.0000	.0370	-.0361	.0044	-.0009	-.0026
#2	-.0006	.0008	.0336	-.0369	.0046	-.0008	-.0022
#3	-.0003	.0016	.0303	-.0350	.0036	-.0005	-.0017

Zoom In Zoom Out

Sample Name: VCONF Acquired: 12/7/2018 18:58:53 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106920.**	**3713.2**	**4455.9**	**8901.1**
Stddev	201.	6.0	5.4	1.3
%RSD	.18830	.16044	.12114	.01457
#1	106730.	3719.9	4460.5	8900.5
#2	106890.	3708.4	4450.0	8900.1
#3	107130.	3711.2	4457.2	8902.5

Zoom In Zoom Out

Sample Name: TICONF Acquired: 12/7/2018 19:04:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**-.0005**	**-.0043**	**-.0007**	**.0003**	**.0001**	**-.0005**
Stddev	.0003	.0001	.0001	.0002	.0001	.0002	.0000	.0002
%RSD	110.5	39.17	9.887	4.652	20.87	57.60	43.49	42.83
#1	.0002	-.0001	-.0006	-.0040	-.0005	.0002	.0001	-.0003
#2	-.0000	-.0002	-.0006	-.0044	-.0007	.0005	.0001	-.0007
#3	.0005	-.0001	-.0005	-.0043	-.0007	.0003	.0001	-.0005

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0025**	**-.0029**	**.0010**	**.0004**	**.0010**	**-.0000**	**-.0001**
Stddev	.0002	.0000	.0001	.0005	.0006	.0008	.0020	.0011
%RSD	16.38	.6931	3.332	45.19	142.9	81.97	5642.	956.8
#1	.0008	.0025	-.0028	.0012	-.0003	.0003	.0022	.0010
#2	.0011	.0025	-.0030	.0005	.0007	.0019	-.0018	-.0011
#3	.0009	.0025	-.0028	.0014	.0009	.0009	-.0005	-.0002

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0130**	**.0053**	**.0095**	**-.0283**	**-.0204**	**.0166**	**.0019**	**.0014**
Stddev	.0091	.0014	.0035	.0087	.0130	.0072	.0001	.0001
%RSD	69.69	27.11	37.41	30.87	63.50	43.41	7.481	7.920
#1	.0212	.0067	.0083	-.0364	-.0062	.0100	.0019	.0013
#2	.0033	.0038	.0135	-.0293	-.0235	.0155	.0017	.0015
#3	.0145	.0054	.0067	-.0191	-.0315	.0243	.0020	.0014

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0122**	**.0002**	F **10.56**	**.0004**	**.0055**	**-.0004**	F **-.0312**
Stddev	.0006	.0004	.0001	.05	.0004	.0001	.0007	.0010
%RSD	48.01	3.471	46.74	.4791	97.43	1.402	169.5	3.294
#1	-.0020	.0125	.0003	10.55	.0008	.0055	-.0005	-.0321
#2	-.0012	.0117	.0001	10.62	.0006	.0055	.0003	-.0314
#3	-.0008	.0123	.0003	10.52	-.0001	.0054	-.0011	-.0301

Zoom In Zoom Out

Sample Name: TICONF Acquired: 12/7/2018 19:04:34 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0003**	**.0015**
Stddev	.0002	.0006
%RSD	65.14	41.42
#1	-.0003	.0021
#2	-.0005	.0008
#3	-.0001	.0017

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107050.**	**3679.7**	**4499.8**	**9000.0**
Stddev	508.	19.0	10.6	11.5
%RSD	.47493	.51691	.23509	.12751
#1	107230.	3685.1	4488.2	8989.3
#2	106480.	3658.6	4502.1	8998.6
#3	107450.	3695.5	4508.9	9012.2

Zoom In Zoom Out

Sample Name: SNCONF Acquired: 12/7/2018 19:10:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0001**	**.0000**	**-.0002**	**-.0012**	**-.0000**	**.0000**	**-.0000**	**-.0010**
Stddev	.0003	.0001	.0002	.0002	.0001	.0001	.0000	.0003	.0004
%RSD	1856.	105.6	983.2	95.69	7.674	7401.	75.21	586.8	37.12
#1	.0001	-.0002	-.0000	-.0000	-.0013	-.0000	.0001	.0001	-.0009
#2	.0002	-.0002	.0002	-.0002	-.0011	-.0000	.0000	.0001	-.0006
#3	-.0004	.0000	-.0001	-.0004	-.0013	.0001	.0000	-.0004	-.0014

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0004**	**.0016**	**.0032**	**.0006**	**-.0012**	**-.0032**	**.0060**	**.0020**
Stddev	.0001	.0000	.0004	.0011	.0011	.0013	.0021	.0047	.0035
%RSD	25.49	7.814	27.09	33.96	180.3	106.2	66.43	78.23	174.2
#1	.0003	-.0004	.0020	.0032	-.0005	-.0026	-.0008	.0064	.0056
#2	.0002	-.0004	.0011	.0021	.0007	-.0008	-.0038	.0105	.0020
#3	.0003	-.0005	.0017	.0043	.0017	-.0001	-.0049	.0011	-.0015

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0166**	**.0047**	**.0094**	**.0028**	**.0010**	**.0295**	F **10.42**	**.0009**
Stddev	.0047	.0328	.0146	.0063	.0004	.0001	.0002	.01	.0001
%RSD	508.7	198.0	311.8	66.62	13.57	7.146	.6745	.1085	8.640
#1	.0050	-.0486	.0045	.0161	.0026	.0011	.0293	10.41	.0010
#2	-.0042	-.0181	-.0099	.0086	.0025	.0010	.0297	10.43	.0010
#3	.0020	.0170	.0194	.0036	.0032	.0010	.0296	10.41	.0009

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0004**	**.0007**	**.0000**	**-.0003**	**-.0002**	**.0021**
Stddev	.0002	.0001	.0001	.0024	.0011	.0004	.0001
%RSD	58.25	37.75	8.740	67590.	369.1	202.0	6.451
#1	.0003	.0002	.0007	.0013	-.0005	-.0007	.0022
#2	.0001	.0005	.0008	.0015	-.0013	-.0000	.0022
#3	.0005	.0004	.0007	-.0028	.0009	.0001	.0020

Zoom In Zoom Out

Sample Name: SNCONF Acquired: 12/7/2018 19:10:15 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106560.**	**3783.3**	**4550.4**	**9094.9**
Stddev	257.	13.5	6.8	8.1
%RSD	.24091	.35749	.14993	.08891
#1	106600.	3798.6	4558.3	9103.8
#2	106800.	3778.2	4545.9	9088.0
#3	106290.	3773.0	4547.1	9092.8

Zoom In Zoom Out

Sample Name: ZRCONF Acquired: 12/7/2018 19:15:47 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0039**	**.0001**	**.0003**	**-.0006**	**.0002**	**.0039**	**.0001**	**-.0014**
Stddev	.0004	.0000	.0001	.0004	.0000	.0003	.0000	.0001
%RSD	10.12	75.44	32.47	63.69	8.426	7.128	21.05	5.268
#1	.0035	.0001	.0003	-.0006	.0002	.0041	.0001	-.0014
#2	.0040	.0000	.0002	-.0002	.0001	.0040	.0001	-.0014
#3	.0043	.0001	.0004	-.0011	.0002	.0036	.0001	-.0015

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**.0013**	**-.0024**	**.0053**	F **-.0066**	**-.0026**	**.0068**	**.0079**
Stddev	.0001	.0001	.0000	.0001	.0015	.0008	.0006	.0005
%RSD	2.658	9.559	1.356	2.710	22.84	31.63	8.240	5.741
#1	.0050	.0012	-.0024	.0053	-.0075	-.0020	.0072	.0076
#2	.0053	.0012	-.0023	.0051	-.0048	-.0022	.0061	.0078
#3	.0052	.0014	-.0024	.0054	-.0074	-.0035	.0070	.0085

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1088**	**.0083**	**.0029**	**-.0108**	**-.0065**	**.0101**	**.0015**	**.0023**
Stddev	.0171	.0002	.0055	.0455	.0120	.0097	.0005	.0001
%RSD	15.67	2.487	191.5	420.4	185.6	96.06	34.43	3.110
#1	.0986	.0081	.0092	.0400	.0043	.0114	.0020	.0024
#2	.1285	.0083	-.0000	-.0244	-.0044	-.0002	.0016	.0023
#3	.0994	.0085	-.0006	-.0480	-.0195	.0190	.0009	.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0111**	**.0096**	**.2010**	**.0005**	**.0222**	F **10.07**	**-.0032**	**-.0052**
Stddev	.0004	.0007	.0010	.0001	.0006	.05	.0003	.0017
%RSD	3.344	7.799	.4747	20.32	2.789	.4600	10.87	33.59
#1	.0108	.0103	.2001	.0006	.0215	10.03	-.0028	-.0045
#2	.0110	.0088	.2020	.0005	.0225	10.12	-.0033	-.0038
#3	.0115	.0096	.2010	.0004	.0227	10.06	-.0035	-.0071

Zoom In Zoom Out

Sample Name: ZRCONF Acquired: 12/7/2018 19:15:47 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0025**	**.0007**
Stddev	.0006	.0005
%RSD	22.09	74.06
#1	-.0032	.0009
#2	-.0021	.0010
#3	-.0023	.0001

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106280.**	**3567.4**	**4541.4**	**9118.9**
Stddev	115.	15.7	14.5	19.6
%RSD	.10845	.43981	.31845	.21454
#1	106190.	3583.6	4524.9	9097.0
#2	106240.	3552.3	4547.3	9134.7
#3	106410.	3566.2	4552.0	9124.9

Zoom In Zoom Out

Sample Name: SICONF Acquired: 12/7/2018 19:21:29 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**-.0001**	**-.0003**	**-.0000**	**.0003**	**.0004**	**-.0003**	**-.0007**
Stddev	.0001	.0000	.0001	.0001	.0001	.0003	.0000	.0004	.0001
%RSD	36.99	61.26	186.9	44.11	253.5	102.1	3.019	120.8	16.68
#1	.0003	-.0000	-.0001	-.0003	-.0002	.0007	.0004	-.0007	-.0007
#2	.0004	-.0001	.0001	-.0004	.0000	.0002	.0004	-.0002	-.0006
#3	.0002	-.0001	-.0001	-.0002	.0000	.0001	.0004	-.0000	-.0009

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0058**	**.0011**	**.0016**	**-.0009**	**-.0008**	**.0006**	**.0148**	**.0637**
Stddev	.0001	.0001	.0009	.0014	.0009	.0004	.0005	.0037	.0013
%RSD	12.23	1.103	88.50	86.22	99.09	52.55	91.86	24.86	1.982
#1	.0007	.0058	-.0000	.0009	.0000	-.0009	.0012	.0110	.0632
#2	.0009	.0058	.0016	.0007	-.0010	-.0003	.0002	.0184	.0628
#3	.0009	.0057	.0016	.0033	-.0017	-.0011	.0004	.0149	.0651

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0072**	**.0168**	**.0007**	**.0008**	**.0008**	**10.18**	**.0004**	**.0010**
Stddev	.0036	.0364	.0208	.0048	.0005	.0001	.01	.0005	.0002
%RSD	216.3	506.9	124.1	722.1	64.38	12.88	.1102	148.3	19.54
#1	.0001	-.0236	.0287	-.0032	.0008	.0008	10.19	.0003	.0012
#2	-.0009	-.0022	-.0073	.0060	.0014	.0007	10.16	-.0001	.0011
#3	.0058	.0473	.0289	-.0008	.0003	.0009	10.18	.0009	.0008

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0012**	**.0433**	**.0026**	**-.0006**	**-.0003**	**.0034**
Stddev	.0000	.0012	.0070	.0010	.0006	.0003	.0010
%RSD	8.694	99.43	16.06	37.40	105.3	109.3	27.77
#1	.0006	.0027	.0507	.0018	-.0000	.0001	.0045
#2	.0005	.0006	.0424	.0023	-.0004	-.0004	.0029
#3	.0006	.0005	.0369	.0036	-.0012	-.0005	.0028

Zoom In Zoom Out

Sample Name: SICONF Acquired: 12/7/2018 19:21:29 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**108220.**	**3806.9**	**4553.0**	**9082.6**
Stddev	69.	12.5	8.8	11.4
%RSD	.06369	.32776	.19334	.12568
#1	108240.	3793.8	4551.4	9091.5
#2	108140.	3808.5	4562.5	9086.6
#3	108270.	3818.6	4545.1	9069.7

Zoom In Zoom Out

Sample Name: SCONF Acquired: 12/7/2018 19:27:01 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0000**	**-.0001**	**-.0004**	**.0003**	**.0003**	**-.0000**	**-.0000**	**-.0009**
Stddev	.0002	.0001	.0002	.0002	.0001	.0000	.0000	.0003	.0002
%RSD	469.6	331.7	223.6	55.26	45.29	14.30	31.01	1905.	19.03
#1	-.0002	-.0001	-.0002	-.0002	.0004	.0003	-.0000	.0002	-.0008
#2	.0002	.0000	.0001	-.0006	.0001	.0003	-.0000	.0001	-.0009
#3	-.0001	.0000	-.0002	-.0004	.0003	.0002	-.0000	-.0003	-.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0000**	**.0004**	**.0039**	**-.0011**	**.0018**	**.0009**	**.0021**	**.0093**
Stddev	.0001	.0000	.0007	.0017	.0009	.0002	.0007	.0028	.0030
%RSD	32.50	727.5	159.8	43.63	81.04	12.13	77.89	133.0	32.02
#1	.0004	.0000	-.0003	.0032	-.0001	.0016	.0016	-.0007	.0087
#2	.0002	-.0001	.0010	.0059	-.0018	.0020	.0005	.0048	.0066
#3	.0004	.0000	.0006	.0027	-.0014	.0019	.0004	.0022	.0125

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0025**	**.0121**	**.0163**	**-.0003**	**.0002**	**.0005**	**.0023**	**.0002**	**-.0000**
Stddev	.0051	.0139	.0281	.0066	.0004	.0002	.0002	.0007	.0001
%RSD	201.9	114.9	172.3	2012.	203.2	34.25	9.461	392.8	23860.
#1	-.0081	.0151	.0098	-.0064	.0006	.0003	.0021	.0007	-.0001
#2	-.0013	.0242	.0471	-.0013	.0000	.0006	.0025	.0004	.0002
#3	.0019	-.0031	-.0080	.0067	-.0001	.0004	.0023	-.0006	-.0001

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0007**	**.0000**	F **108.3**	**-.0004**	**-.0009**	**.0018**
Stddev	.0003	.0003	.0001	.1	.0005	.0003	.0004
%RSD	280.5	42.21	10030.	.0845	124.1	33.24	22.93
#1	.0005	.0008	.0001	108.3	.0002	-.0011	.0021
#2	.0000	.0010	.0000	108.4	-.0008	-.0008	.0019
#3	-.0002	.0004	-.0001	108.2	-.0007	-.0006	.0013

Zoom In Zoom Out

Sample Name: SCONF Acquired: 12/7/2018 19:27:01 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107490.**	**3786.1**	**4552.8**	**9136.8**
Stddev	486.	10.8	2.4	13.0
%RSD	.45253	.28456	.05262	.14174
#1	106960.	3773.9	4551.5	9125.0
#2	107620.	3794.4	4551.3	9134.8
#3	107910.	3789.8	4555.5	9150.7

Zoom In Zoom Out

Sample Name: ALCONF Acquired: 12/7/2018 19:32:33 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0000**	**.0007**	**-.0001**	**.0025**	**.0001**	**.0004**	**-.0004**	**-.0017**
Stddev	.0002	.0001	.0001	.0003	.0003	.0003	.0001	.0003	.0002
%RSD	18.64	142.7	12.00	431.6	11.28	521.2	14.88	88.15	9.115
#1	.0009	.0000	.0006	-.0003	.0028	-.0000	.0005	-.0000	-.0019
#2	.0010	.0000	.0007	-.0001	.0023	.0005	.0004	-.0004	-.0015
#3	.0007	.0001	.0007	.0002	.0025	-.0002	.0004	-.0007	-.0017

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0029**	**-.0003**	**.0040**	**-.0016**	**.0001**	**.0008**	F **507.5**	**.0229**
Stddev	.0002	.0003	.0011	.0035	.0009	.0011	.0011	.8	.0079
%RSD	103.4	11.21	337.2	86.44	54.61	1037.	143.7	.1621	34.37
#1	.0004	.0026	-.0011	.0044	-.0024	-.0000	.0014	506.5	.0152
#2	.0001	.0032	-.0008	.0004	-.0018	-.0009	-.0005	507.8	.0309
#3	.0001	.0031	.0010	.0073	-.0007	.0012	.0014	508.0	.0227

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0310**	**-.0012**	**-.0056**	**.1046**	**.0003**	**.0007**	**.0164**	**-.0003**	**.0005**
Stddev	.0062	.0271	.0272	.0045	.0003	.0007	.0013	.0008	.0001
%RSD	19.84	2255.	481.4	4.318	92.32	100.6	7.784	257.9	26.02
#1	.0241	-.0309	-.0362	.1001	.0000	.0014	.0178	-.0010	.0006
#2	.0360	.0221	.0159	.1091	.0006	.0005	.0162	-.0007	.0004
#3	.0330	.0052	.0034	.1047	.0003	.0001	.0153	.0006	.0006

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0097**	**-.0003**	**.0010**	**-.0016**	**-.0001**	**.0118**
Stddev	.0003	.0007	.0001	.0009	.0007	.0009	.0012
%RSD	26.31	7.644	23.07	93.54	45.74	619.8	9.828
#1	.0007	.0088	-.0002	.0011	-.0014	.0005	.0131
#2	.0012	.0098	-.0003	.0018	-.0023	.0002	.0116
#3	.0010	.0103	-.0003	.0000	-.0010	-.0012	.0108

Zoom In Zoom Out

Sample Name: ALCONF Acquired: 12/7/2018 19:32:33 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**103440.**	**3498.9**	**4498.5**	**9046.0**
Stddev	447.	6.5	23.7	38.3
%RSD	.43237	.18594	.52650	.42376
#1	103930.	3505.5	4485.9	9023.9
#2	103060.	3498.6	4525.8	9090.2
#3	103320.	3492.5	4483.8	9023.8

Zoom In Zoom Out

Sample Name: COCONF Acquired: 12/7/2018 19:37:58 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**-.0025**	F **10.99**	**.0004**	**-.0009**	**-.0000**	**-.0037**
Stddev	.0003	.0000	.0001	.01	.0001	.0001	.0000	.0004
%RSD	132.5	90.49	3.415	.1134	19.84	16.39	57.65	12.09
#1	.0004	.0000	-.0025	11.00	.0003	-.0008	-.0000	-.0039
#2	.0003	.0001	-.0024	10.99	.0003	-.0010	-.0000	-.0039
#3	-.0001	.0000	-.0025	10.98	.0004	-.0008	-.0000	-.0031

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0013**	**-.0010**	**.0020**	F **-.0054**	**-.0013**	**-.0044**	**.0021**
Stddev	.0000	.0001	.0001	.0004	.0006	.0009	.0011	.0012
%RSD	7.313	5.302	6.944	17.62	11.60	73.18	25.09	57.11
#1	-.0006	.0013	-.0010	.0024	-.0060	-.0002	-.0035	.0031
#2	-.0006	.0014	-.0010	.0020	-.0055	-.0016	-.0056	.0008
#3	-.0007	.0013	-.0011	.0017	-.0047	-.0020	-.0041	.0025

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0132**	**-.0161**	**-.0061**	**-.0129**	**-.0190**	**.0166**	**-.0000**	**.0003**
Stddev	.0088	.0014	.0088	.0042	.0294	.0124	.0005	.0000
%RSD	66.81	8.460	145.3	32.72	155.1	74.50	1654.	12.21
#1	.0178	-.0177	-.0105	-.0080	.0111	.0252	-.0002	.0004
#2	.0030	-.0156	-.0119	-.0148	-.0204	.0221	-.0004	.0003
#3	.0187	-.0152	.0041	-.0157	-.0477	.0024	.0005	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0001**	**.0001**	**.0001**	**-.0015**	**.0005**	**.0021**	**-.0139**
Stddev	.0003	.0002	.0001	.0001	.0003	.0001	.0006	.0006
%RSD	23.48	155.9	131.3	118.1	17.62	14.28	30.16	4.057
#1	-.0016	.0002	.0001	-.0000	-.0017	.0004	.0014	-.0133
#2	-.0010	-.0001	.0001	.0002	-.0012	.0005	.0025	-.0142
#3	-.0013	.0002	-.0000	.0001	-.0015	.0004	.0025	-.0142

Zoom In Zoom Out

Sample Name: COCONF Acquired: 12/7/2018 19:37:58 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0011**	**.0022**
Stddev	.0001	.0001
%RSD	5.084	3.450
#1	-.0011	.0022
#2	-.0011	.0023
#3	-.0012	.0021

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107680.**	**3723.4**	**4635.6**	**9383.2**
Stddev	152.	10.0	8.3	9.3
%RSD	.14072	.26724	.17914	.09920
#1	107510.	3720.5	4635.6	9379.8
#2	107790.	3734.5	4644.0	9393.7
#3	107730.	3715.3	4627.3	9376.0

Zoom In Zoom Out

Sample Name: CACONF Acquired: 12/7/2018 19:43:30 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0000**	**-.0002**	**-.0005**	**.0006**	**.0010**	**.0004**	**-.0003**	**-.0002**
Stddev	.0006	.0000	.0001	.0002	.0001	.0002	.0000	.0004	.0003
%RSD	123.9	296.7	79.01	46.29	15.21	17.97	7.313	125.0	130.3
#1	.0009	-.0000	-.0001	-.0007	.0006	.0009	.0004	.0001	-.0006
#2	-.0002	-.0000	-.0003	-.0003	.0005	.0012	.0004	-.0003	-.0002
#3	.0008	.0001	-.0001	-.0005	.0005	.0008	.0004	-.0006	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0008**	**.0005**	**.0047**	**-.0009**	**.0007**	**-.0006**	**-.0627**	F **420.2**
Stddev	.0001	.0001	.0003	.0017	.0013	.0012	.0003	.0205	1.0
%RSD	36.43	11.52	61.84	36.81	136.2	188.8	56.61	32.63	.2342
#1	.0002	-.0008	.0008	.0055	-.0003	.0002	-.0002	-.0397	421.3
#2	.0003	-.0007	.0002	.0027	-.0024	.0020	-.0008	-.0695	419.8
#3	.0001	-.0008	.0004	.0058	-.0001	-.0003	-.0008	-.0789	419.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0046**	**-.0033**	**-.0164**	**.0298**	**.0003**	**.0001**	**.0028**	**-.0012**	**-.0067**
Stddev	.0021	.0594	.0292	.0062	.0002	.0004	.0004	.0003	.0002
%RSD	46.78	1803.	177.7	20.95	65.64	389.8	13.23	26.97	3.610
#1	-.0063	-.0564	-.0497	.0226	.0005	-.0003	.0024	-.0009	-.0066
#2	-.0052	-.0143	-.0039	.0341	.0002	.0003	.0031	-.0014	-.0066
#3	-.0022	.0609	.0044	.0325	.0002	.0004	.0030	-.0015	-.0070

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0026**	**.0004**	**-.0072**	**-.0005**	**.0010**	**.0079**
Stddev	.0001	.0011	.0001	.0013	.0013	.0007	.0003
%RSD	1.735	41.78	22.12	17.92	295.9	69.13	3.906
#1	.0034	.0020	.0003	-.0083	.0010	.0014	.0082
#2	.0033	.0039	.0004	-.0075	-.0007	.0014	.0076
#3	.0033	.0019	.0005	-.0057	-.0016	.0002	.0078

Zoom In Zoom Out

Sample Name: CACONF Acquired: 12/7/2018 19:43:30 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99745.**	**3693.5**	**4259.9**	**8522.8**
Stddev	159.	9.4	31.6	47.0
%RSD	.15981	.25451	.74259	.55156
#1	99564.	3684.5	4286.4	8550.9
#2	99806.	3703.3	4224.8	8468.5
#3	99864.	3692.8	4268.4	8548.9

Zoom In Zoom Out

Sample Name: MGCONF Acquired: 12/7/2018 19:49:02 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**.0001**	**-.0003**	**-.0003**	**.0010**	**.0014**	**-.0001**	**.0001**
Stddev	.0002	.0000	.0003	.0002	.0000	.0003	.0000	.0000	.0002
%RSD	86.64	293.1	327.5	65.47	18.85	26.35	1.390	42.23	211.5
#1	.0003	.0000	-.0002	-.0005	-.0002	.0011	.0015	-.0002	.0002
#2	.0004	-.0000	.0002	-.0001	-.0003	.0007	.0014	-.0001	.0001
#3	.0000	.0000	.0002	-.0003	-.0003	.0012	.0015	-.0001	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0070**	**.0019**	**-.0019**	**-.0015**	**.0035**	**.0004**	**.0182**	**.0437**
Stddev	.0003	.0001	.0004	.0017	.0007	.0009	.0017	.0167	.0082
%RSD	93.36	1.528	19.06	88.62	48.12	25.41	405.6	91.68	18.77
#1	.0002	.0070	.0017	-.0003	-.0007	.0043	.0023	.0231	.0343
#2	.0007	.0071	.0016	-.0037	-.0019	.0037	-.0010	.0320	.0472
#3	.0001	.0069	.0023	-.0017	-.0021	.0025	-.0001	-.0004	.0495

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	F **543.3**	**.0061**	**.0362**	**.0011**	**.0033**	**.0050**	**-.0006**	**.0002**
Stddev	.0088	.6	.0092	.0002	.0006	.0001	.0006	.0005	.0001
%RSD	473700.	.1120	150.7	.5943	48.67	1.666	11.52	87.70	64.15
#1	-.0065	542.7	.0086	.0364	.0005	.0032	.0056	-.0006	.0001
#2	.0100	543.4	.0138	.0362	.0013	.0032	.0047	-.0011	.0003
#3	-.0035	543.9	-.0041	.0360	.0016	.0033	.0045	-.0001	.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0011**	**.0000**	**.0082**	**-.0011**	**-.0005**	**.0085**
Stddev	.0002	.0004	.0002	.0012	.0003	.0007	.0005
%RSD	46.82	33.07	384.5	14.47	25.66	157.0	6.093
#1	.0003	.0012	.0001	.0092	-.0013	.0003	.0089
#2	.0002	.0015	-.0001	.0069	-.0012	-.0005	.0079
#3	.0006	.0007	.0001	.0086	-.0008	-.0012	.0086

Zoom In Zoom Out

Sample Name: MGCONF Acquired: 12/7/2018 19:49:02 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100120.**	**3679.8**	**4293.2**	**8609.7**
Stddev	450.	12.9	11.8	12.0
%RSD	.44905	.34947	.27468	.13881
#1	100100.	3691.6	4286.2	8598.8
#2	100580.	3681.7	4306.8	8622.5
#3	99678.	3666.1	4286.6	8607.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 19:54:35 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.997**	**2.010**	**1.947**	**1.989**	**2.053**	**1.988**	**2.079**	**2.024**	**.2509**
Stddev	.008	.006	.001	.002	.015	.011	.011	.001	.0016
%RSD	.3975	.2906	.0678	.0740	.7261	.5758	.5337	.0550	.6256
#1	2.004	2.012	1.946	1.988	2.070	2.001	2.090	2.025	.2527
#2	1.989	2.003	1.948	1.989	2.047	1.979	2.080	2.023	.2500
#3	1.998	2.014	1.945	1.991	2.042	1.983	2.068	2.025	.2500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.036**	**1.987**	**1.913**	**2.010**	**2.011**	**1.877**	**1.936**	**39.11**	**39.84**
Stddev	.014	.002	.003	.005	.003	.001	.002	.10	.31
%RSD	.6859	.1028	.1301	.2532	.1343	.0727	.1223	.2531	.7864
#1	2.052	1.988	1.911	2.010	2.012	1.876	1.937	39.15	39.85
#2	2.030	1.985	1.915	2.005	2.008	1.878	1.938	38.99	39.53
#3	2.027	1.989	1.911	2.015	2.013	1.875	1.934	39.18	40.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.14**	**39.51**	**39.48**	**39.47**	**1.913**	**2.004**	**5.019**	**2.024**	**2.011**
Stddev	.19	.37	.16	.14	.001	.001	.004	.004	.007
%RSD	.4771	.9378	.4140	.3469	.0507	.0462	.0814	.1801	.3724
#1	39.28	39.57	39.62	39.60	1.912	2.003	5.017	2.028	2.018
#2	38.93	39.11	39.30	39.33	1.914	2.005	5.023	2.024	2.004
#3	39.22	39.84	39.53	39.47	1.913	2.005	5.016	2.021	2.012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 19:54:35 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.039**	**1.983**	**2.018**	**1.861**	**1.933**	**2.011**	**1.916**
Stddev	.013	.002	.012	.002	.002	.003	.004
%RSD	.6545	.1017	.5711	.0978	.1242	.1635	.1828
#1	2.054	1.982	2.031	1.861	1.932	2.014	1.916
#2	2.031	1.981	2.010	1.863	1.936	2.010	1.919
#3	2.032	1.985	2.014	1.859	1.931	2.008	1.912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104070.**	**3690.1**	**4636.2**	**9365.0**
Stddev	675.	29.5	8.4	5.4
%RSD	.64839	.80058	.18079	.05757
#1	103330.	3692.4	4640.8	9370.9
#2	104220.	3718.4	4626.6	9360.4
#3	104650.	3659.4	4641.4	9363.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 19:59:48 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0001**	**-.0002**	**.0004**	**-.0003**	**.0002**	**.0001**	**-.0010**
Stddev	.0001	.0001	.0001	.0001	.0000	.0001	.0000	.0003	.0001
%RSD	62.04	114.8	106.2	54.56	12.49	31.43	15.89	239.4	9.037
#1	.0001	-.0000	-.0000	-.0002	.0003	-.0004	.0002	.0005	-.0010
#2	.0002	.0001	.0002	-.0001	.0003	-.0003	.0002	-.0001	-.0010
#3	.0003	.0002	.0002	-.0002	.0004	-.0002	.0003	.0001	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0000**	**.0005**	**.0015**	**.0010**	**-.0000**	**.0008**	**.0144**	**.0034**
Stddev	.0002	.0002	.0007	.0009	.0014	.0007	.0005	.0057	.0018
%RSD	46.68	622.9	126.2	60.89	138.0	3690.	64.07	39.49	52.99
#1	.0006	.0002	.0010	.0019	.0027	.0008	.0006	.0100	.0041
#2	.0002	-.0001	-.0002	.0022	-.0001	-.0004	.0005	.0208	.0047
#3	.0004	-.0002	.0008	.0005	.0006	-.0005	.0014	.0123	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0050**	**-.0141**	**.0500**	**.0241**	**.0020**	F **.0037**	**.0012**	**.0008**	**.0001**
Stddev	.0012	.0402	.0159	.0080	.0009	.0004	.0002	.0006	.0001
%RSD	23.17	285.3	31.83	33.30	43.08	9.627	15.35	75.54	92.98
#1	.0062	-.0162	.0530	.0158	.0027	.0041	.0010	.0007	.0003
#2	.0039	-.0532	.0641	.0318	.0023	.0037	.0013	.0014	.0000
#3	.0049	.0271	.0328	.0246	.0010	.0033	.0013	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 19:59:48 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0024**	**.0004**	**.0001**	**-.0008**	**-.0004**	**.0022**
Stddev	.0003	.0001	.0001	.0022	.0014	.0004	.0006
%RSD	85.57	4.581	23.32	1819.	176.5	110.2	27.79
#1	.0000	.0023	.0003	-.0021	-.0013	.0001	.0023
#2	.0006	.0025	.0004	.0000	-.0018	-.0004	.0027
#3	.0006	.0024	.0004	.0024	.0008	-.0008	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107360.**	**3776.8**	**4709.4**	**9503.0**
Stddev	898.	9.0	2.6	6.7
%RSD	.83673	.23769	.05490	.07056
#1	106750.	3781.4	4706.5	9504.6
#2	106940.	3782.6	4710.3	9508.7
#3	108400.	3766.5	4711.5	9495.6

Zoom In Zoom Out

Sample Name: jc78686-5 Acquired: 12/7/2018 20:05:21 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: mp11083

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0195**	**.0002**	**.0004**	**.0036**	**.0005**	**.0138**	**.4701**	**.0156**	**-.0006**
Stddev	.0001	.0001	.0002	.0000	.0001	.0002	.0005	.0001	.0001
%RSD	.2644	40.96	57.18	1.178	26.34	1.180	.1153	.5699	14.53
#1	.0195	.0002	.0001	.0036	.0005	.0140	.4701	.0156	-.0006
#2	.0195	.0001	.0004	.0036	.0004	.0137	.4706	.0157	-.0005
#3	.0194	.0001	.0006	.0036	.0007	.0137	.4695	.0156	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.1696**	**.0008**	**.0018**	**.0011**	**-.0003**	**.0018**	**.0147**	**43.10**
Stddev	.0001	.0003	.0003	.0014	.0015	.0012	.0007	.0027	.08
%RSD	26.23	.2048	40.74	74.35	128.0	409.3	38.26	18.18	.1776
#1	.0005	.1692	.0004	.0019	.0028	-.0007	.0017	.0167	43.17
#2	.0003	.1698	.0008	.0004	.0007	.0010	.0024	.0117	43.11
#3	.0005	.1698	.0010	.0032	-.0001	-.0012	.0011	.0157	43.02

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.7067**	**6.652**	**3.458**	**8.665**	**.0609**	**.0022**	**11.66**	**-.0002**	**.2074**
Stddev	.0028	.072	.028	.015	.0002	.0002	.02	.0007	.0003
%RSD	.3896	1.084	.8030	.1775	.2468	7.308	.1566	416.1	.1513
#1	.7095	6.682	3.432	8.648	.0610	.0022	11.64	-.0009	.2071
#2	.7067	6.704	3.455	8.674	.0610	.0023	11.67	.0004	.2077
#3	.7040	6.570	3.487	8.674	.0607	.0020	11.66	-.0000	.2075

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0048**	**-.0000**	**25.07**	**-.0021**	**.0040**	**.0082**
Stddev	.0002	.0002	.0001	.04	.0008	.0005	.0006
%RSD	17.51	4.207	496.1	.1788	39.20	11.85	7.319
#1	.0012	.0048	.0000	25.02	-.0017	.0035	.0089
#2	.0008	.0050	-.0001	25.11	-.0030	.0039	.0078
#3	.0011	.0046	.0001	25.08	-.0015	.0044	.0079

Zoom In Zoom Out

Sample Name: jc78686-5 Acquired: 12/7/2018 20:05:21 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: mp11083

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104750.**	**3697.0**	**4484.4**	**9068.6**
Stddev	247.	5.6	7.0	8.8
%RSD	.23561	.15123	.15649	.09719
#1	104550.	3697.4	4492.5	9077.8
#2	104680.	3691.3	4480.3	9060.3
#3	105030.	3702.4	4480.3	9067.7

Zoom In Zoom Out

Sample Name: jc78686-6 Acquired: 12/7/2018 20:10:45 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5746**	**.0000**	**-.0000**	**-.0009**	**.0007**	**.0014**	**.3940**	**-.0000**	**-.0001**
Stddev	.0020	.0000	.0002	.0003	.0002	.0001	.0006	.0004	.0002
%RSD	.3541	255.7	2415.	34.49	23.28	10.05	.1545	6706.	135.4
#1	.5754	.0000	-.0002	-.0011	.0007	.0015	.3947	.0004	-.0002
#2	.5723	.0000	.0000	-.0005	.0006	.0013	.3936	-.0002	.0001
#3	.5762	-.0000	.0002	-.0009	.0009	.0015	.3938	-.0002	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0014**	**.0035**	**.0018**	**-.0004**	**-.0003**	**.0007**	**-.0120**	**128.6**
Stddev	.0001	.0002	.0009	.0012	.0014	.0011	.0014	.0071	.2
%RSD	18.72	15.36	25.68	66.56	365.8	364.0	201.8	59.37	.1333
#1	.0005	-.0012	.0032	.0009	.0001	-.0014	.0017	-.0193	128.8
#2	.0005	-.0014	.0046	.0014	-.0019	-.0003	-.0008	-.0115	128.5
#3	.0004	-.0016	.0029	.0032	.0007	.0008	.0011	-.0051	128.6

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.505**	**33.11**	**1.605**	**26.24**	**.0593**	**.0019**	**9.631**	**.0020**	**.5267**
Stddev	.030	.10	.020	.06	.0003	.0003	.012	.0004	.0005
%RSD	.8491	.3095	1.241	.2285	.4756	14.78	.1235	20.70	.0884
#1	3.471	33.02	1.621	26.26	.0589	.0016	9.633	.0025	.5263
#2	3.528	33.22	1.611	26.17	.0594	.0021	9.642	.0017	.5265
#3	3.514	33.10	1.583	26.28	.0594	.0019	9.618	.0018	.5272

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0012**	**-.0000**	**5.205**	**-.0010**	**.0176**	**.0623**
Stddev	.0001	.0007	.0000	.007	.0011	.0009	.0006
%RSD	3.254	54.51	1871.	.1344	106.7	4.875	.9044
#1	.0021	.0016	-.0000	5.203	-.0023	.0182	.0629
#2	.0019	.0005	-.0000	5.213	-.0007	.0179	.0619
#3	.0020	.0016	.0000	5.199	-.0001	.0166	.0620

Zoom In Zoom Out

Sample Name: jc78686-6 Acquired: 12/7/2018 20:10:45 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102240.**	**3623.2**	**4688.3**	**9533.6**
Stddev	171.	5.6	5.1	9.9
%RSD	.16764	.15487	.10840	.10348
#1	102060.	3617.6	4685.6	9524.2
#2	102400.	3628.8	4685.2	9532.7
#3	102260.	3623.1	4694.2	9543.9

Zoom In Zoom Out

Sample Name: jc78687-1 Acquired: 12/7/2018 20:16:09 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1006**	**.0000**	**.0009**	**.0009**	**.0013**	**.0143**	**.2750**	**.0151**	**-.0003**
Stddev	.0005	.0000	.0001	.0001	.0002	.0002	.0034	.0003	.0001
%RSD	.4484	119.5	7.036	11.45	13.85	1.393	1.247	1.664	46.19
#1	.1003	.0000	.0009	.0008	.0011	.0145	.2789	.0153	-.0002
#2	.1011	-.0000	.0010	.0008	.0014	.0142	.2723	.0148	-.0005
#3	.1003	.0001	.0010	.0010	.0014	.0141	.2739	.0152	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.7949**	**.0003**	**.0033**	**-.0010**	**.0029**	**.0055**	**.0354**	**94.41**
Stddev	.0001	.0023	.0005	.0015	.0012	.0028	.0004	.0080	.23
%RSD	8.853	.2852	143.0	44.69	118.1	97.98	8.007	22.54	.2448
#1	.0013	.7975	-.0001	.0036	-.0006	-.0002	.0060	.0263	94.48
#2	.0011	.7935	.0008	.0045	-.0023	.0036	.0053	.0413	94.59
#3	.0011	.7937	.0003	.0017	-.0001	.0053	.0052	.0386	94.15

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.056**	**25.49**	**11.75**	**14.17**	**.3406**	**.0018**	**14.71**	**-.0003**	**.7285**
Stddev	.013	.18	.02	.01	.0011	.0003	.02	.0001	.0013
%RSD	1.216	.6982	.1366	.0377	.3287	14.22	.1252	34.23	.1762
#1	1.060	25.29	11.73	14.18	.3393	.0015	14.69	-.0002	.7298
#2	1.042	25.56	11.76	14.18	.3408	.0020	14.71	-.0004	.7272
#3	1.066	25.63	11.75	14.17	.3415	.0018	14.73	-.0004	.7284

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0038**	**-.0005**	**51.45**	**-.0020**	**.0175**	**.0279**
Stddev	.0001	.0003	.0001	.04	.0010	.0006	.0002
%RSD	3.353	8.573	14.25	.0799	47.43	3.442	.5964
#1	.0022	.0041	-.0006	51.45	-.0020	.0180	.0281
#2	.0021	.0038	-.0005	51.42	-.0030	.0175	.0280
#3	.0022	.0035	-.0004	51.50	-.0011	.0168	.0278

Zoom In Zoom Out

Sample Name: jc78687-1 Acquired: 12/7/2018 20:16:09 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104100.**	**3825.1**	**4679.2**	**9539.6**
Stddev	1269.	15.7	4.2	18.9
%RSD	1.2193	.40991	.08949	.19792
#1	102660.	3824.8	4680.1	9529.4
#2	105050.	3809.6	4682.9	9561.4
#3	104580.	3841.0	4674.7	9528.0

Zoom In Zoom Out

Sample Name: jc78687-2 Acquired: 12/7/2018 20:21:30 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.587**	**.0002**	**.0000**	**.0010**	**.0016**	**.0034**	**.7232**	**.0009**	**-.0002**
Stddev	.004	.0001	.0001	.0002	.0001	.0001	.0033	.0003	.0001
%RSD	.1589	46.30	155.2	23.17	3.504	3.559	.4611	30.28	58.85
#1	2.586	.0001	-.0000	.0010	.0016	.0035	.7217	.0009	-.0001
#2	2.583	.0002	.0001	.0013	.0017	.0033	.7210	.0012	-.0001
#3	2.591	.0003	.0000	.0008	.0016	.0033	.7271	.0007	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**-.0026**	**.0103**	**.0035**	**-.0019**	**-.0003**	**.0004**	**.1504**	F **217.1**
Stddev	.0001	.0000	.0005	.0023	.0014	.0012	.0008	.0083	.6
%RSD	4.215	.2037	5.029	65.09	77.09	356.6	222.5	5.524	.2658
#1	.0022	-.0026	.0104	.0059	-.0025	-.0004	-.0002	.1592	217.6
#2	.0023	-.0026	.0107	.0014	-.0028	.0009	.0000	.1494	217.1
#3	.0021	-.0026	.0097	.0031	-.0002	-.0014	.0013	.1427	216.5

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.64**	**98.61**	**39.13**	**79.78**	**1.670**	**.0011**	**15.86**	**-.0012**	**2.450**
Stddev	.09	.25	.09	.22	.001	.0001	.03	.0005	.003
%RSD	.3516	.2492	.2214	.2723	.0761	6.171	.1931	38.94	.1333
#1	26.75	98.89	39.23	80.02	1.670	.0011	15.88	-.0014	2.454
#2	26.59	98.43	39.06	79.60	1.671	.0010	15.88	-.0016	2.448
#3	26.58	98.51	39.11	79.73	1.669	.0010	15.83	-.0007	2.449

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098**	**.0025**	**.0020**	**1.085**	**-.0015**	**.0260**	**.2017**
Stddev	.0005	.0007	.0000	.002	.0006	.0001	.0005
%RSD	5.526	27.40	1.479	.2100	39.30	.2973	.2239
#1	.0103	.0030	.0019	1.084	-.0021	.0260	.2012
#2	.0092	.0017	.0019	1.083	-.0009	.0260	.2021
#3	.0099	.0028	.0020	1.088	-.0015	.0261	.2017

Zoom In Zoom Out

Sample Name: jc78687-2 Acquired: 12/7/2018 20:21:30 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100200.**	**3728.3**	**4155.2**	**8393.3**
Stddev	479.	14.8	5.8	8.9
%RSD	.47843	.39729	.13933	.10594
#1	100330.	3711.2	4150.6	8383.2
#2	100610.	3737.3	4153.4	8400.1
#3	99676.	3736.5	4161.7	8396.6

Zoom In Zoom Out

Sample Name: jc78687-3 Acquired: 12/7/2018 20:26:51 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.213**	**.0001**	**.0000**	**.0011**	**.0012**	**.0021**	**.8311**	**.0005**	**.0000**
Stddev	.002	.0001	.0001	.0002	.0003	.0000	.0036	.0004	.0002
%RSD	.1657	76.59	213.2	18.20	28.37	.6595	.4278	82.33	431.6
#1	1.211	.0001	-.0000	.0010	.0013	.0021	.8314	.0009	-.0001
#2	1.215	.0001	.0001	.0011	.0015	.0021	.8274	.0006	.0003
#3	1.214	.0002	.0000	.0014	.0009	.0021	.8345	.0001	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0036**	**.0125**	**.0024**	**-.0019**	**-.0005**	**-.0004**	**-.0429**	F **230.9**
Stddev	.0001	.0001	.0004	.0009	.0016	.0011	.0003	.0114	.4
%RSD	4.684	3.336	3.457	36.22	88.37	222.6	76.13	26.64	.1825
#1	.0015	-.0035	.0127	.0033	.0000	-.0018	-.0001	-.0541	230.6
#2	.0017	-.0036	.0120	.0016	-.0028	.0002	-.0007	-.0312	230.7
#3	.0016	-.0037	.0127	.0023	-.0028	.0001	-.0005	-.0434	231.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.68**	**94.99**	**42.48**	**74.24**	**1.670**	**.0012**	**16.95**	**-.0007**	**2.605**
Stddev	.11	.41	.08	.14	.010	.0002	.07	.0004	.004
%RSD	.3194	.4321	.1810	.1889	.6229	21.35	.4233	53.23	.1707
#1	34.56	94.51	42.39	74.09	1.672	.0013	16.91	-.0011	2.600
#2	34.69	95.20	42.51	74.25	1.658	.0012	16.90	-.0006	2.605
#3	34.79	95.24	42.53	74.36	1.678	.0009	17.03	-.0004	2.609

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0022**	**.0011**	**.9260**	**-.0013**	**.0234**	**.2679**
Stddev	.0002	.0010	.0000	.0054	.0009	.0003	.0009
%RSD	5.066	43.30	1.363	.5861	66.14	1.189	.3177
#1	.0031	.0033	.0011	.9245	-.0006	.0231	.2679
#2	.0035	.0019	.0011	.9214	-.0023	.0236	.2671
#3	.0032	.0015	.0011	.9320	-.0011	.0234	.2688

Zoom In Zoom Out

Sample Name: jc78687-3 Acquired: 12/7/2018 20:26:51 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100160.**	**3596.1**	**4161.5**	**8428.1**
Stddev	459.	4.5	15.0	26.2
%RSD	.45777	.12393	.36120	.31077
#1	100130.	3595.4	4172.0	8441.5
#2	100640.	3600.8	4168.3	8444.8
#3	99726.	3592.0	4144.3	8397.9

Zoom In Zoom Out

Sample Name: jc78687-4 Acquired: 12/7/2018 20:32:09 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4546**	**.0000**	**.0018**	**.0004**	**.0015**	**.0742**	**.2046**	**.0386**	**.0000**
Stddev	.0009	.0001	.0002	.0001	.0000	.0007	.0008	.0001	.0002
%RSD	.2073	386.0	12.47	35.33	2.866	.9848	.3670	.3796	437.0
#1	.4556	.0000	.0020	.0006	.0014	.0735	.2053	.0387	.0002
#2	.4546	.0001	.0017	.0003	.0015	.0749	.2045	.0386	-.0001
#3	.4537	-.0000	.0016	.0004	.0014	.0743	.2038	.0384	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**1.055**	**.0024**	**.0009**	**.0721**	**.0012**	**.0041**	**.0603**	F **229.6**
Stddev	.0003	.002	.0008	.0008	.0029	.0013	.0003	.0048	1.0
%RSD	26.40	.1884	33.70	87.39	4.032	111.7	6.648	7.908	.4281
#1	.0016	1.054	.0016	.0001	.0712	.0000	.0039	.0630	230.5
#2	.0011	1.057	.0023	.0016	.0698	.0009	.0044	.0631	228.5
#3	.0010	1.055	.0032	.0010	.0754	.0027	.0040	.0548	229.7

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.024**	**39.20**	**14.45**	**22.64**	**.6510**	**.0016**	**15.81**	**.0002**	**2.073**
Stddev	.051	.29	.04	.04	.0017	.0003	.03	.0002	.004
%RSD	1.017	.7394	.2902	.1729	.2624	21.45	.1659	143.8	.1915
#1	5.075	39.50	14.50	22.68	.6490	.0018	15.80	.0001	2.077
#2	4.973	38.92	14.42	22.61	.6522	.0012	15.84	.0004	2.071
#3	5.025	39.18	14.44	22.62	.6517	.0018	15.79	-.0000	2.070

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**.0070**	**-.0004**	**18.80**	**-.0021**	**.0333**	**.1025**
Stddev	.0001	.0008	.0001	.03	.0014	.0004	.0008
%RSD	2.414	11.31	29.07	.1839	65.95	1.096	.7415
#1	.0053	.0077	-.0003	18.78	-.0026	.0337	.1016
#2	.0056	.0062	-.0005	18.84	-.0031	.0330	.1028
#3	.0055	.0070	-.0005	18.78	-.0005	.0332	.1031

Zoom In Zoom Out

Sample Name: jc78687-4 Acquired: 12/7/2018 20:32:09 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101200.**	**3716.0**	**4265.6**	**8632.0**
Stddev	329.	14.5	6.8	6.8
%RSD	.32529	.39033	.15891	.07902
#1	100860.	3702.9	4269.4	8632.9
#2	101200.	3731.6	4257.7	8624.8
#3	101520.	3713.5	4269.5	8638.3

Zoom In Zoom Out

Sample Name: jc78687-5 Acquired: 12/7/2018 20:37:25 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0840**	**.0001**	**.0043**	**.0026**	**.0008**	**.0921**	**.8353**	**.0657**	**-.0002**
Stddev	.0003	.0001	.0001	.0002	.0001	.0005	.0006	.0003	.0001
%RSD	.3689	77.04	3.224	9.032	7.402	.5248	.0703	.4029	24.14
#1	.0840	.0002	.0045	.0023	.0009	.0926	.8348	.0654	-.0002
#2	.0837	.0000	.0044	.0026	.0007	.0920	.8351	.0658	-.0003
#3	.0844	.0001	.0042	.0028	.0008	.0916	.8360	.0659	-.0002

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**1.615**	**-.0001**	**.0041**	**-.0009**	**.0044**	**.0028**	**.0357**	F **216.0**
Stddev	.0001	.001	.0011	.0010	.0011	.0004	.0010	.0102	.7
%RSD	18.97	.0705	965.3	22.98	122.5	9.640	33.79	28.70	.3455
#1	.0007	1.614	.0005	.0047	-.0008	.0046	.0017	.0474	215.7
#2	.0006	1.615	-.0014	.0046	.0001	.0047	.0035	.0313	215.4
#3	.0008	1.616	.0005	.0030	-.0021	.0039	.0033	.0284	216.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4638**	**43.57**	**16.48**	**30.87**	**.7407**	**.0016**	**12.82**	**-.0005**	**1.701**
Stddev	.0110	.41	.04	.04	.0071	.0002	.00	.0005	.003
%RSD	2.368	.9451	.2674	.1229	.9614	12.88	.0342	101.7	.1446
#1	.4533	43.12	16.53	30.86	.7326	.0015	12.82	-.0009	1.704
#2	.4627	43.68	16.44	30.84	.7461	.0015	12.82	.0001	1.700
#3	.4752	43.92	16.46	30.91	.7434	.0018	12.82	-.0006	1.701

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**.0085**	**-.0004**	**87.58**	**-.0021**	**.0474**	**.0146**
Stddev	.0002	.0008	.0001	.07	.0010	.0002	.0005
%RSD	4.606	9.126	17.88	.0767	49.19	.3904	3.673
#1	.0032	.0078	-.0005	87.65	-.0028	.0474	.0140
#2	.0034	.0083	-.0003	87.56	-.0025	.0475	.0150
#3	.0035	.0093	-.0004	87.52	-.0009	.0471	.0147

Zoom In Zoom Out

Sample Name: jc78687-5 Acquired: 12/7/2018 20:37:25 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**100910.**	**3625.0**	**4496.2**	**9147.6**
Stddev	107.	22.7	11.3	19.4
%RSD	.10596	.62677	.25032	.21227
#1	100860.	3639.0	4484.7	9128.6
#2	101030.	3637.3	4496.6	9146.8
#3	100830.	3598.8	4507.2	9167.4

Zoom In Zoom Out

Sample Name: jc78687-6 Acquired: 12/7/2018 20:42:42 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.882**	**.0001**	**.0001**	**-.0000**	**.0010**	**.0016**	**.6942**	**.0006**	**.0000**
Stddev	.006	.0000	.0001	.0003	.0002	.0001	.0012	.0003	.0001
%RSD	.3235	34.67	71.65	1921.	23.55	4.331	.1759	48.18	1898.
#1	1.877	.0002	.0002	.0000	.0007	.0017	.6953	.0009	.0000
#2	1.879	.0001	.0002	.0003	.0010	.0016	.6929	.0003	-.0001
#3	1.889	.0001	.0000	-.0004	.0012	.0016	.6943	.0007	.0000

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0011**	**.0013**	**-.0011**	**-.0008**	**.0023**	**.0012**	**.1503**	**148.3**
Stddev	.0002	.0002	.0007	.0018	.0020	.0015	.0012	.0058	.5
%RSD	21.88	22.07	51.31	165.2	241.8	68.04	100.1	3.866	.3575
#1	.0010	-.0011	.0020	-.0005	.0014	.0040	.0016	.1440	147.7
#2	.0007	-.0014	.0007	-.0031	-.0014	.0011	-.0001	.1512	148.8
#3	.0007	-.0009	.0011	.0003	-.0024	.0016	.0022	.1555	148.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.031**	**48.56**	**3.413**	**29.86**	**.1748**	**.0010**	**10.72**	**-.0002**	**1.145**
Stddev	.021	.23	.006	.10	.0009	.0004	.02	.0005	.003
%RSD	.2630	.4696	.1841	.3247	.5373	37.26	.2165	335.3	.2666
#1	8.009	48.34	3.418	29.75	.1756	.0013	10.74	.0001	1.143
#2	8.051	48.79	3.416	29.89	.1751	.0011	10.73	.0002	1.143
#3	8.033	48.55	3.406	29.94	.1738	.0006	10.70	-.0008	1.148

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087**	**.0020**	**-.0003**	**1.966**	**-.0023**	**.0199**	**.0485**
Stddev	.0004	.0002	.0001	.007	.0009	.0013	.0003
%RSD	4.935	9.253	40.44	.3483	40.49	6.448	.6423
#1	.0088	.0020	-.0003	1.972	-.0027	.0185	.0483
#2	.0082	.0022	-.0001	1.966	-.0029	.0203	.0483
#3	.0090	.0018	-.0003	1.958	-.0012	.0210	.0488

Zoom In Zoom Out

Sample Name: jc78687-6 Acquired: 12/7/2018 20:42:42 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102350.**	**3679.9**	**4342.6**	**8796.7**
Stddev	133.	17.8	3.9	2.2
%RSD	.12988	.48480	.09001	.02496
#1	102200.	3694.6	4339.7	8797.0
#2	102410.	3660.1	4341.0	8794.4
#3	102440.	3685.0	4347.0	8798.8

Zoom In Zoom Out

Sample Name: jc78687-8 Acquired: 12/7/2018 20:48:04 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1980**	**.0001**	**.0002**	**.0003**	**.0020**	**.0015**	**.3227**	**.0010**	**-.0000**
Stddev	.0001	.0001	.0000	.0003	.0002	.0001	.0025	.0004	.0001
%RSD	.0379	126.7	24.77	111.0	10.09	9.342	.7771	35.36	377.5
#1	.1979	.0002	.0001	.0002	.0021	.0016	.3255	.0011	-.0001
#2	.1979	.0001	.0002	.0006	.0022	.0014	.3207	.0006	.0001
#3	.1980	-.0000	.0002	.0000	.0018	.0016	.3220	.0014	-.0001

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**-.0025**	**.0468**	**.0032**	**-.0026**	**.0008**	**.0008**	**.0508**	**117.9**
Stddev	.0001	.0001	.0019	.0020	.0009	.0017	.0015	.0196	.4
%RSD	4.479	5.766	4.124	61.42	33.08	201.3	178.0	38.62	.3493
#1	.0016	-.0023	.0454	.0016	-.0028	-.0010	-.0007	.0611	118.4
#2	.0017	-.0026	.0490	.0054	-.0016	.0013	.0009	.0632	117.6
#3	.0018	-.0025	.0460	.0026	-.0033	.0022	.0023	.0282	117.7

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**13.17**	**76.58**	**41.40**	**62.80**	**1.242**	**.0013**	**16.00**	**-.0002**	**1.347**
Stddev	.02	.09	.06	.08	.002	.0001	.02	.0008	.002
%RSD	.1838	.1223	.1342	.1281	.1705	4.689	.1086	311.8	.1196
#1	13.16	76.68	41.38	62.89	1.242	.0012	16.02	.0003	1.348
#2	13.15	76.52	41.35	62.75	1.243	.0013	15.98	.0001	1.345
#3	13.20	76.53	41.46	62.76	1.239	.0014	15.99	-.0011	1.348

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0010**	**-.0001**	**30.15**	**-.0021**	**.0578**	**.0632**
Stddev	.0000	.0004	.0001	.05	.0006	.0006	.0001
%RSD	.6740	40.86	108.4	.1622	29.93	1.122	.2088
#1	.0043	.0006	-.0001	30.20	-.0021	.0582	.0632
#2	.0043	.0013	.0000	30.10	-.0015	.0582	.0633
#3	.0043	.0010	-.0002	30.16	-.0027	.0571	.0630

Zoom In Zoom Out

Sample Name: jc78687-8 Acquired: 12/7/2018 20:48:04 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**101780.**	**3698.3**	**4218.0**	**8516.8**
Stddev	816.	20.2	1.8	7.3
%RSD	.80215	.54589	.04359	.08627
#1	100880.	3675.0	4216.3	8525.3
#2	102470.	3709.0	4220.0	8513.1
#3	101990.	3710.8	4217.7	8512.1

Zoom In Zoom Out

Sample Name: jc78687-9 Acquired: 12/7/2018 20:53:25 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.962**	**.0001**	**.0000**	**.0032**	**.0013**	**.0020**	**1.308**	**.0025**	**.0003**
Stddev	.007	.0001	.0001	.0003	.0002	.0003	.006	.0001	.0002
%RSD	.1260	101.3	315.4	10.51	17.20	13.03	.4841	5.635	52.98
#1	5.956	-.0000	-.0001	.0035	.0014	.0023	1.314	.0026	.0001
#2	5.959	.0001	.0000	.0031	.0010	.0019	1.308	.0023	.0005
#3	5.970	.0001	.0001	.0029	.0014	.0018	1.302	.0025	.0004

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**-.0031**	**.0116**	**.0036**	**-.0013**	**-.0003**	**-.0001**	**-.0005**	F **290.3**
Stddev	.0002	.0003	.0010	.0017	.0001	.0002	.0008	.0122	.5
%RSD	7.977	8.377	9.052	45.82	10.80	55.20	642.9	2362.	.1889
#1	.0021	-.0033	.0107	.0031	-.0013	-.0005	.0003	.0100	290.2
#2	.0020	-.0028	.0128	.0023	-.0015	-.0004	-.0010	.0023	289.7
#3	.0018	-.0033	.0113	.0055	-.0012	-.0001	.0003	-.0139	290.8

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.04**	**104.5**	**9.397**	F **210.3**	**3.608**	**.0012**	**12.42**	**-.0004**	**3.098**
Stddev	.09	.3	.019	2.0	.005	.0003	.02	.0007	.004
%RSD	.3277	.2454	.1999	.9530	.1357	22.16	.1670	197.3	.1332
#1	28.06	104.2	9.407	212.4	3.603	.0015	12.40	-.0011	3.096
#2	27.94	104.4	9.376	208.4	3.610	.0010	12.45	.0003	3.096
#3	28.12	104.7	9.409	210.0	3.612	.0011	12.42	-.0003	3.103

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**.0014**	**.0048**	**2.629**	**-.0016**	**.0239**	**.0761**
Stddev	.0001	.0007	.0001	.010	.0005	.0003	.0008
%RSD	1.587	52.82	1.054	.3652	28.38	1.176	1.102
#1	.0053	.0018	.0047	2.619	-.0011	.0236	.0757
#2	.0051	.0005	.0047	2.638	-.0018	.0240	.0755
#3	.0053	.0018	.0048	2.630	-.0020	.0241	.0770

Zoom In Zoom Out

Sample Name: jc78687-9 Acquired: 12/7/2018 20:53:25 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98428.**	**3628.6**	**4090.4**	**8269.5**
Stddev	530.	5.9	5.4	9.4
%RSD	.53846	.16196	.13182	.11312
#1	97914.	3624.7	4095.3	8264.5
#2	98396.	3635.4	4084.6	8263.8
#3	98973.	3625.8	4091.4	8280.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 20:58:56 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 3

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.004**	**2.012**	**1.937**	**1.977**	**2.038**	**2.001**	**2.082**	**2.010**	**.2504**
Stddev	.003	.007	.001	.003	.004	.007	.013	.004	.0004
%RSD	.1714	.3318	.0539	.1492	.2115	.3670	.6239	.2082	.1571
#1	2.003	2.016	1.935	1.977	2.035	1.996	2.072	2.009	.2502
#2	2.008	2.016	1.937	1.980	2.036	1.999	2.097	2.015	.2501
#3	2.001	2.005	1.937	1.975	2.043	2.010	2.077	2.006	.2508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.032**	**1.951**	**1.891**	**2.008**	**1.994**	**1.858**	**1.930**	**39.20**	**39.50**
Stddev	.003	.008	.002	.003	.004	.002	.009	.05	.23
%RSD	.1613	.4096	.0920	.1295	.2008	.0936	.4682	.1277	.5715
#1	2.028	1.946	1.893	2.011	1.993	1.856	1.929	39.21	39.58
#2	2.032	1.960	1.890	2.007	1.998	1.858	1.922	39.25	39.67
#3	2.035	1.947	1.889	2.006	1.990	1.859	1.940	39.15	39.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.83**	**38.99**	**39.66**	**39.47**	**1.901**	**2.005**	**5.012**	**2.012**	**2.020**
Stddev	.11	.21	.10	.09	.004	.003	.015	.005	.005
%RSD	.2797	.5385	.2488	.2287	.2119	.1529	.2952	.2470	.2424
#1	38.91	39.10	39.68	39.49	1.903	2.002	5.010	2.008	2.023
#2	38.87	39.12	39.75	39.55	1.897	2.005	4.999	2.010	2.023
#3	38.71	38.75	39.55	39.37	1.905	2.008	5.028	2.018	2.015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 20:58:56 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 3

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.033**	**1.980**	**2.034**	**1.826**	**1.948**	**2.037**	**1.885**
Stddev	.004	.005	.006	.004	.005	.004	.005
%RSD	.1966	.2407	.2826	.2053	.2657	.1986	.2844
#1	2.031	1.980	2.028	1.822	1.950	2.038	1.887
#2	2.030	1.975	2.034	1.828	1.942	2.040	1.878
#3	2.038	1.985	2.040	1.828	1.951	2.032	1.888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104300.**	**3699.4**	**4679.1**	**9469.8**
Stddev	230.	18.9	4.5	5.3
%RSD	.22050	.51018	.09539	.05576
#1	104530.	3695.7	4682.8	9475.0
#2	104300.	3682.6	4680.3	9464.5
#3	104070.	3719.8	4674.1	9470.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 21:04:09 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0000**	**.0001**	**-.0005**	**.0002**	**-.0031**	**-.0000**	**-.0001**	**-.0001**
Stddev	.0003	.0001	.0001	.0001	.0001	.0045	.0000	.0001	.0015
%RSD	602.5	254.9	145.9	16.31	64.99	144.5	1157.	52.50	1070.
#1	-.0001	.0000	.0003	-.0005	.0001	-.0007	-.0000	-.0001	-.0009
#2	.0003	-.0001	.0000	-.0005	.0001	-.0083	-.0000	-.0000	.0016
#3	-.0001	.0002	-.0000	-.0004	.0003	-.0003	.0000	-.0001	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0002**	**.0000**	**.0007**	**-.0001**	**.0013**	**.0020**	**.0107**	**-.0007**
Stddev	.0001	.0002	.0004	.0011	.0002	.0011	.0004	.0097	.0052
%RSD	91.91	98.08	2749.	159.7	197.2	87.08	17.78	90.74	729.0
#1	.0003	-.0005	.0003	-.0003	-.0004	.0007	.0022	.0006	.0013
#2	.0001	-.0000	.0001	.0019	.0001	.0026	.0016	.0200	-.0066
#3	.0000	-.0002	-.0004	.0005	-.0001	.0006	.0021	.0114	.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**-.0181**	**.0735**	**.0551**	**.0041**	F **.0033**	**.0036**	**-.0003**	**.0001**
Stddev	.0101	.0291	.0017	.0022	.0006	.0004	.0006	.0004	.0001
%RSD	426.4	161.0	2.350	4.036	14.20	11.52	15.43	145.2	141.2
#1	.0050	.0092	.0739	.0576	.0043	.0038	.0038	-.0006	.0001
#2	-.0088	-.0488	.0716	.0544	.0045	.0033	.0030	-.0004	-.0000
#3	.0109	-.0148	.0750	.0533	.0034	.0030	.0041	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 21:04:09 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0023**	**.0003**	**-.0000**	**-.0014**	**-.0002**	**.0022**
Stddev	.0002	.0010	.0002	.0012	.0006	.0006	.0002
%RSD	44.40	42.51	56.08	2514.	43.48	309.4	10.62
#1	.0005	.0023	.0002	-.0014	-.0011	-.0002	.0020
#2	.0005	.0032	.0005	.0005	-.0021	-.0007	.0025
#3	.0002	.0013	.0002	.0008	-.0010	.0004	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**127730.**	**3826.9**	**4607.6**	**9259.5**
Stddev	34288.	2.3	10.0	9.1
%RSD	26.844	.05987	.21629	.09873
#1	108890.	3829.1	4596.1	9249.4
#2	167300.	3824.6	4612.3	9261.7
#3	106990.	3827.0	4614.3	9267.3

Zoom In Zoom Out

Sample Name: jc79057-3 Acquired: 12/7/2018 21:09:41 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0000**	**.0002**	**-.0003**	**.0005**	**.0001**	**.0002**	**-.0002**	**-.0009**
Stddev	.0001	.0001	.0002	.0002	.0002	.0003	.0000	.0001	.0003
%RSD	66.37	465.6	134.7	74.34	33.56	190.6	12.95	97.09	27.77
#1	.0002	-.0001	.0002	-.0001	.0004	.0005	.0002	-.0001	-.0006
#2	.0004	.0000	-.0001	-.0006	.0007	.0000	.0002	-.0000	-.0011
#3	.0001	.0000	.0004	-.0002	.0006	-.0001	.0002	-.0003	-.0011

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0008**	**.0002**	**.0002**	**.0017**	**.0008**	**.0010**	**.0084**	**.0276**
Stddev	.0000	.0000	.0009	.0018	.0015	.0025	.0004	.0061	.0040
%RSD	21.84	3.725	361.1	758.6	86.08	308.0	39.84	72.22	14.35
#1	.0002	.0008	.0006	.0009	.0000	.0028	.0014	.0050	.0247
#2	.0002	.0008	.0009	-.0018	.0024	.0016	.0006	.0049	.0321
#3	.0001	.0008	-.0008	.0017	.0027	-.0019	.0010	.0155	.0259

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**-.0412**	**.0280**	**.0462**	**.0029**	**.0014**	**.0330**	**.0004**	**.0001**
Stddev	.0085	.0075	.0101	.0090	.0008	.0002	.0003	.0009	.0001
%RSD	339.7	18.14	35.86	19.46	29.27	18.20	.8406	204.8	53.33
#1	-.0073	-.0440	.0387	.0436	.0031	.0016	.0333	.0009	.0001
#2	.0066	-.0469	.0266	.0387	.0036	.0012	.0330	.0010	.0001
#3	.0082	-.0328	.0188	.0561	.0020	.0012	.0328	-.0006	.0002

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0004**	**.0004**	**.0069**	**-.0009**	**-.0007**	**.0034**
Stddev	.0002	.0014	.0001	.0010	.0008	.0007	.0003
%RSD	1049.	385.5	20.93	15.00	94.16	99.44	9.457
#1	.0002	.0004	.0005	.0061	-.0000	.0001	.0037
#2	.0000	.0018	.0003	.0081	-.0009	-.0010	.0031
#3	-.0002	-.0011	.0004	.0065	-.0016	-.0011	.0033

Zoom In Zoom Out

Sample Name: jc79057-3 Acquired: 12/7/2018 21:09:41 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106840.**	**3672.5**	**4542.3**	**9150.2**
Stddev	220.	13.5	8.4	13.1
%RSD	.20586	.36698	.18579	.14289
#1	106580.	3658.8	4533.0	9138.2
#2	106970.	3672.9	4544.5	9164.1
#3	106960.	3685.7	4549.5	9148.4

Zoom In Zoom Out

Sample Name: jc79063-1 Acquired: 12/7/2018 21:15:13 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0979**	**-.0001**	**.0000**	**.0002**	**.0100**	**.0009**	**.0502**	**.0002**	**-.0005**
Stddev	.0001	.0001	.0001	.0003	.0002	.0002	.0002	.0002	.0001
%RSD	.1465	123.5	347.4	183.3	2.016	16.12	.4097	113.6	29.29
#1	.0980	.0000	-.0000	.0005	.0098	.0008	.0500	.0000	-.0005
#2	.0978	-.0001	.0002	-.0001	.0101	.0011	.0504	.0002	-.0006
#3	.0978	-.0001	-.0000	.0001	.0101	.0009	.0501	.0005	-.0003

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0022**	**-.0001**	**.0032**	**-.0016**	**.0025**	**.0001**	**-.0403**	**159.3**
Stddev	.0002	.0001	.0007	.0028	.0010	.0009	.0012	.0122	.1
%RSD	35.64	3.963	744.9	87.01	60.22	34.81	794.3	30.30	.0672
#1	.0005	-.0023	.0006	.0002	-.0012	.0018	.0007	-.0375	159.2
#2	.0007	-.0021	-.0007	.0057	-.0027	.0035	-.0012	-.0297	159.3
#3	.0003	-.0022	-.0002	.0037	-.0009	.0022	.0010	-.0537	159.4

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**62.39**	**3.317**	**168.2**	**.1370**	**.0011**	**14.40**	**-.0010**	**.3282**
Stddev	.0031	.36	.025	1.4	.0008	.0002	.01	.0004	.0007
%RSD	51.34	.5733	.7388	.8570	.5953	18.94	.0886	40.83	.2132
#1	.0034	62.12	3.290	168.2	.1380	.0009	14.41	-.0005	.3286
#2	.0094	62.26	3.321	166.8	.1367	.0013	14.40	-.0011	.3285
#3	.0051	62.80	3.339	169.6	.1365	.0011	14.38	-.0013	.3274

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0016**	**-.0007**	**41.67**	**-.0017**	**.0101**	**.0216**
Stddev	.0003	.0005	.0001	.02	.0011	.0011	.0003
%RSD	15.57	30.01	13.39	.0566	65.51	10.53	1.229
#1	.0018	.0020	-.0008	41.67	-.0007	.0106	.0213
#2	.0020	.0011	-.0006	41.69	-.0029	.0107	.0219
#3	.0014	.0017	-.0007	41.64	-.0015	.0088	.0216

Zoom In Zoom Out

Sample Name: jc79063-1 Acquired: 12/7/2018 21:15:13 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**99534.**	**3587.9**	**4414.4**	**8892.9**
Stddev	476.	5.0	4.5	10.9
%RSD	.47816	.13871	.10081	.12227
#1	99879.	3591.2	4410.1	8885.9
#2	98991.	3582.2	4414.0	8905.5
#3	99732.	3590.4	4419.0	8887.4

Zoom In Zoom Out

Sample Name: jc79063-2 Acquired: 12/7/2018 21:20:45 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1279**	**-.0000**	**.0001**	**.0002**	**.0007**	**.0015**	**.3815**	**.0026**	**-.0005**
Stddev	.0004	.0000	.0000	.0004	.0000	.0003	.0020	.0002	.0001
%RSD	.2843	130.0	30.10	257.9	4.123	17.70	.5282	8.373	10.97
#1	.1276	.0000	.0001	.0001	.0008	.0013	.3822	.0028	-.0004
#2	.1277	-.0000	.0001	.0006	.0007	.0015	.3793	.0026	-.0005
#3	.1283	-.0000	.0001	-.0002	.0007	.0018	.3832	.0024	-.0005

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**-.0012**	**.0003**	**.0011**	**-.0021**	**.0035**	**.0001**	**-.0335**	**175.2**
Stddev	.0001	.0000	.0004	.0018	.0004	.0020	.0018	.0144	.2
%RSD	10.08	3.698	147.2	163.1	17.37	56.12	3012.	43.01	.0951
#1	.0008	-.0012	.0001	.0025	-.0020	.0019	-.0000	-.0168	175.4
#2	.0010	-.0012	-.0000	.0017	-.0024	.0057	-.0017	-.0416	175.1
#3	.0010	-.0012	.0008	-.0009	-.0017	.0029	.0019	-.0419	175.1

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3498**	**53.75**	**4.782**	F **295.0**	**.2455**	**.0008**	**10.07**	**-.0007**	**.4415**
Stddev	.0135	.43	.022	1.5	.0016	.0001	.01	.0009	.0012
%RSD	3.853	.7948	.4516	.4939	.6689	8.424	.0635	126.6	.2663
#1	.3353	53.30	4.759	293.3	.2455	.0008	10.08	.0000	.4404
#2	.3620	53.81	4.801	295.8	.2471	.0009	10.07	-.0005	.4416
#3	.3520	54.15	4.787	295.9	.2438	.0007	10.07	-.0017	.4427

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0015**	**-.0002**	**37.91**	**-.0020**	**.0097**	**.0074**
Stddev	.0004	.0012	.0001	.06	.0009	.0005	.0003
%RSD	21.39	76.27	39.04	.1535	46.02	4.754	4.330
#1	.0018	.0011	-.0003	37.95	-.0024	.0093	.0070
#2	.0017	.0028	-.0003	37.94	-.0009	.0095	.0076
#3	.0024	.0006	-.0001	37.85	-.0026	.0102	.0076

Zoom In Zoom Out

Sample Name: jc79063-2 Acquired: 12/7/2018 21:20:45 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98548.**	**3680.9**	**4395.7**	**8818.2**
Stddev	387.	4.1	3.2	5.8
%RSD	.39305	.11153	.07326	.06614
#1	98349.	3679.9	4394.7	8817.6
#2	98995.	3685.4	4393.1	8812.7
#3	98301.	3677.4	4399.3	8824.3

Zoom In Zoom Out

Sample Name: jc79063-3 Acquired: 12/7/2018 21:26:16 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1178**	**.0000**	**.0001**	**-.0001**	**.0022**	**.0022**	**1.175**	**.0025**	**-.0006**
Stddev	.0002	.0001	.0001	.0001	.0001	.0002	.004	.0002	.0000
%RSD	.1412	355.2	192.1	106.2	6.302	10.77	.3591	8.794	6.143
#1	.1180	.0000	.0002	-.0001	.0022	.0024	1.176	.0027	-.0006
#2	.1177	.0001	.0000	-.0000	.0021	.0023	1.179	.0025	-.0006
#3	.1178	-.0001	-.0000	-.0003	.0024	.0020	1.171	.0022	-.0006

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**-.0018**	**.0005**	**.0027**	**-.0017**	**.0020**	**.0004**	**-.0159**	**173.8**
Stddev	.0001	.0001	.0008	.0013	.0011	.0006	.0004	.0108	.4
%RSD	9.726	6.319	157.4	48.37	60.49	30.86	123.3	68.06	.2230
#1	.0014	-.0017	.0014	.0033	-.0025	.0026	.0001	-.0277	173.9
#2	.0012	-.0017	.0002	.0012	-.0022	.0014	.0001	-.0135	174.1
#3	.0013	-.0019	-.0001	.0036	-.0005	.0019	.0009	-.0065	173.3

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0641**	**64.38**	**3.859**	**189.0**	**.1935**	**.0007**	**11.16**	**-.0019**	**.3752**
Stddev	.0058	.41	.022	.6	.0018	.0002	.01	.0004	.0007
%RSD	9.039	.6298	.5711	.3296	.9182	22.94	.1212	18.25	.1801
#1	.0619	63.91	3.837	189.5	.1935	.0007	11.17	-.0021	.3751
#2	.0707	64.64	3.881	189.2	.1917	.0006	11.15	-.0022	.3759
#3	.0597	64.58	3.859	188.3	.1952	.0009	11.17	-.0015	.3746

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0011**	**-.0006**	**41.29**	**-.0011**	**.0101**	**.0246**
Stddev	.0002	.0015	.0001	.05	.0004	.0005	.0004
%RSD	7.519	133.4	18.69	.1112	38.40	4.520	1.453
#1	.0023	.0002	-.0006	41.30	-.0012	.0105	.0242
#2	.0024	.0028	-.0007	41.24	-.0015	.0101	.0249
#3	.0021	.0003	-.0005	41.33	-.0007	.0096	.0246

Zoom In Zoom Out

Sample Name: jc79063-3 Acquired: 12/7/2018 21:26:16 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**98956.**	**3728.8**	**4526.4**	**9129.6**
Stddev	365.	10.0	5.1	9.5
%RSD	.36911	.26808	.11288	.10443
#1	98779.	3732.5	4524.6	9119.8
#2	98713.	3717.5	4532.1	9130.2
#3	99376.	3736.5	4522.4	9138.9

Zoom In Zoom Out

Sample Name: mp11070-mb1conf Acquired: 12/7/2018 21:31:47 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0001**	**-.0002**	**.0012**	**.0006**	**.0003**	**.0004**	**-.0010**
Stddev	.0004	.0001	.0001	.0004	.0002	.0002	.0000	.0002	.0003
%RSD	236.0	57.28	83.51	158.4	17.31	27.06	4.398	54.32	27.27
#1	-.0001	.0001	.0001	.0001	.0015	.0004	.0003	.0005	-.0012
#2	.0006	.0000	.0001	-.0002	.0011	.0007	.0003	.0005	-.0012
#3	-.0000	.0001	.0000	-.0006	.0011	.0007	.0003	.0001	-.0007

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0041**	**-.0002**	**.0010**	**.0015**	**.0011**	**.0022**	**.0181**	**.0898**
Stddev	.0002	.0001	.0011	.0031	.0016	.0017	.0009	.0240	.0021
%RSD	66.28	2.372	606.5	315.8	109.8	154.9	39.84	132.2	2.293
#1	.0002	.0042	-.0010	-.0012	.0030	.0003	.0017	.0108	.0889
#2	.0007	.0041	.0011	-.0003	-.0002	-.0001	.0032	-.0013	.0885
#3	.0002	.0040	-.0006	.0045	.0016	.0031	.0018	.0449	.0922

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0163**	**.0098**	**.0958**	**.1710**	**.0025**	**.0004**	**.0126**	**.0194**	**.0003**
Stddev	.0048	.0249	.0122	.0057	.0001	.0001	.0003	.0007	.0001
%RSD	29.69	253.6	12.71	3.323	2.229	19.53	2.563	3.721	51.91
#1	.0149	-.0189	.1016	.1767	.0025	.0003	.0128	.0202	.0001
#2	.0122	.0242	.0818	.1653	.0026	.0005	.0122	.0188	.0004
#3	.0216	.0241	.1039	.1711	.0025	.0005	.0128	.0193	.0003

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0003**	**.0003**	**.0161**	**-.0015**	**-.0005**	**.0245**
Stddev	.0001	.0005	.0001	.0018	.0011	.0005	.0005
%RSD	7.607	148.3	27.21	11.14	70.51	99.86	2.184
#1	.0008	.0004	.0004	.0141	-.0019	-.0007	.0240
#2	.0007	-.0002	.0004	.0173	-.0003	-.0009	.0250
#3	.0007	.0008	.0002	.0170	-.0023	.0001	.0243

Zoom In Zoom Out

Sample Name: mp11070-mb1conf Acquired: 12/7/2018 21:31:47 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106730.**	**3780.0**	**4445.9**	**8896.8**
Stddev	610.	9.2	7.8	5.8
%RSD	.57152	.24448	.17613	.06520
#1	106730.	3770.3	4453.7	8900.3
#2	106120.	3788.7	4438.1	8890.1
#3	107340.	3780.8	4445.8	8899.9

Zoom In Zoom Out

Sample Name: mp11070-b1conf Acquired: 12/7/2018 21:37:17 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.996**	**2.030**	**1.936**	**1.989**	**2.055**	**2.000**	**2.110**	**2.031**
Stddev	.004	.004	.004	.003	.008	.012	.011	.004
%RSD	.1866	.2027	.2153	.1456	.3780	.6223	.5065	.1737
#1	1.992	2.027	1.939	1.989	2.057	2.002	2.112	2.029
#2	1.998	2.028	1.938	1.987	2.062	2.012	2.119	2.028
#3	1.999	2.035	1.931	1.992	2.047	1.987	2.098	2.035

Elem	Ag3280	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2463**	**2.039**	**1.990**	**1.886**	**1.993**	**1.995**	**1.827**	**1.910**
Stddev	.0012	.010	.003	.005	.010	.005	.004	.008
%RSD	.4885	.5078	.1482	.2479	.4951	.2756	.1897	.4300
#1	.2459	2.042	1.988	1.889	1.983	1.989	1.830	1.918
#2	.2476	2.047	1.989	1.888	1.994	1.996	1.826	1.910
#3	.2453	2.027	1.993	1.880	2.002	2.000	1.823	1.901

Elem	Al3961	Ca3179	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.68**	**25.18**	**24.61**	**24.51**	**24.84**	**24.86**	**1.862**	**2.016**
Stddev	.05	.03	.01	.09	.07	.03	.006	.004
%RSD	.2178	.1102	.0234	.3549	.3005	.1290	.3456	.1730
#1	24.62	25.18	24.61	24.42	24.81	24.85	1.867	2.019
#2	24.69	25.15	24.61	24.60	24.79	24.83	1.865	2.017
#3	24.73	25.21	24.60	24.51	24.93	24.89	1.855	2.012

Elem	Si2124	Sn1899	Sr4077	Ti3349	W_2079	Zr3391	S_1820	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0691**	**2.045**	**2.017**	**2.036**	**1.961**	**2.017**	F **-.2007**	**-.0102**
Stddev	.0009	.005	.003	.011	.001	.009	.0002	.0007
%RSD	1.370	.2544	.1475	.5336	.0485	.4683	.0899	6.835
#1	.0698	2.050	2.015	2.039	1.962	2.020	-.2009	-.0103
#2	.0694	2.047	2.016	2.045	1.960	2.025	-.2007	-.0094
#3	.0680	2.040	2.021	2.024	1.960	2.007	-.2006	-.0108

Zoom In Zoom Out

Sample Name: mp11070-b1conf Acquired: 12/7/2018 21:37:17 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Li6707	P_1774
Units	ppm	ppm
Avg	**-.0010**	**1.917**
Stddev	.0008	.021
%RSD	85.26	1.077
#1	-.0009	1.929
#2	-.0002	1.929
#3	-.0018	1.893

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**104140.**	**3615.7**	**4600.2**	**9331.2**
Stddev	394.	7.8	10.9	.3
%RSD	.37793	.21599	.23763	.00332
#1	104050.	3609.9	4592.7	9331.2
#2	103800.	3624.6	4595.3	9330.9
#3	104570.	3612.7	4612.8	9331.5

Zoom In Zoom Out

Sample Name: mp11070-s1 7 Acquired: 12/7/2018 21:42:27 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.192**	**1.990**	**1.955**	**2.024**	**3.220**	**12.09**	**3.765**	**2.268**	**.2516**
Stddev	.010	.002	.004	.003	.005	.09	.009	.006	.0020
%RSD	.2313	.0913	.2207	.1379	.1648	.7723	.2268	.2511	.8074
#1	4.187	1.989	1.954	2.025	3.224	12.10	3.773	2.271	.2529
#2	4.186	1.989	1.951	2.021	3.221	12.18	3.767	2.261	.2526
#3	4.203	1.992	1.960	2.025	3.214	11.99	3.756	2.271	.2492

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.220**	**5.490**	**1.978**	**1.951**	**16.71**	**1.864**	**1.485**	**93.40**	**71.62**
Stddev	.009	.022	.006	.015	.03	.009	.013	.22	.01
%RSD	.3956	.3977	.2898	.7444	.2051	.4849	.8537	.2355	.0209
#1	2.221	5.487	1.976	1.968	16.69	1.872	1.499	93.16	71.62
#2	2.228	5.470	1.973	1.945	16.68	1.854	1.481	93.59	71.60
#3	2.211	5.513	1.984	1.941	16.75	1.866	1.475	93.45	71.63

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**154.6**	**32.86**	**37.44**	**25.68**	**1.887**	**1.979**	**4.339**	**2.404**	**2.720**
Stddev	.1	.06	.11	.05	.009	.007	.014	.006	.003
%RSD	.0575	.1841	.2953	.1915	.4699	.3578	.3323	.2411	.1076
#1	154.7	32.81	37.34	25.66	1.897	1.986	4.356	2.401	2.719
#2	154.6	32.84	37.42	25.63	1.886	1.979	4.329	2.411	2.718
#3	154.5	32.93	37.56	25.73	1.879	1.972	4.334	2.401	2.723

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.017**	**1.658**	**1.678**	**3.983**	**.0086**	**.0951**	**10.12**
Stddev	.007	.003	.009	.007	.0021	.0050	.10
%RSD	.2434	.1963	.5243	.1724	24.69	5.269	.9688
#1	3.017	1.661	1.682	3.985	.0067	.0925	10.02
#2	3.025	1.660	1.684	3.990	.0084	.0920	10.13
#3	3.010	1.655	1.667	3.976	.0109	.1009	10.21

Zoom In Zoom Out

Sample Name: mp11070-s1 7 Acquired: 12/7/2018 21:42:27 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106300.**	**3680.7**	**4489.2**	**9010.2**
Stddev	329.	4.2	12.3	20.6
%RSD	.30956	.11476	.27318	.22832
#1	106080.	3684.7	4482.6	9008.8
#2	106140.	3681.3	4503.4	9031.5
#3	106680.	3676.3	4481.7	8990.4

Zoom In Zoom Out

Sample Name: mp11070-s2 Acquired: 12/7/2018 21:47:30 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.100**	**1.965**	**1.898**	**1.973**	**3.169**	**8.909**	**3.493**	**2.185**	**.2448**
Stddev	.025	.011	.002	.005	.013	.022	.013	.005	.0014
%RSD	.6220	.5471	.1054	.2487	.4125	.2475	.3588	.2273	.5826
#1	4.072	1.952	1.897	1.977	3.184	8.931	3.507	2.186	.2442
#2	4.104	1.972	1.901	1.973	3.162	8.908	3.486	2.189	.2464
#3	4.123	1.970	1.897	1.968	3.161	8.887	3.485	2.179	.2437

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.169**	**5.251**	**1.902**	**1.922**	**20.31**	**1.820**	**1.438**	**90.76**	**69.87**
Stddev	.009	.009	.007	.011	.03	.006	.008	.56	.41
%RSD	.4014	.1816	.3813	.5493	.1425	.3493	.5395	.6191	.5902
#1	2.179	5.261	1.895	1.916	20.32	1.821	1.440	90.12	69.40
#2	2.167	5.252	1.904	1.934	20.34	1.813	1.430	91.17	70.16
#3	2.162	5.242	1.909	1.915	20.28	1.825	1.445	90.98	70.04

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**125.8**	**32.94**	**36.64**	**24.95**	**1.822**	**1.929**	**4.193**	**2.380**	**2.583**
Stddev	.9	.15	.17	.16	.005	.008	.016	.011	.016
%RSD	.7491	.4433	.4602	.6215	.3043	.3998	.3872	.4770	.6194
#1	124.7	32.85	36.44	24.77	1.823	1.935	4.210	2.393	2.565
#2	126.5	33.10	36.74	25.04	1.816	1.920	4.177	2.371	2.589
#3	126.1	32.85	36.73	25.05	1.827	1.932	4.192	2.378	2.595

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.883**	**1.652**	**1.653**	**4.071**	**.0118**	**.0942**	**9.165**
Stddev	.008	.009	.005	.013	.0039	.0041	.037
%RSD	.2725	.5551	.3120	.3199	33.14	4.385	.4019
#1	2.892	1.645	1.658	4.078	.0158	.0978	9.192
#2	2.878	1.650	1.652	4.056	.0079	.0897	9.123
#3	2.879	1.663	1.648	4.079	.0118	.0953	9.180

Zoom In Zoom Out

Sample Name: mp11070-s2 Acquired: 12/7/2018 21:47:30 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106450.**	**3633.6**	**4525.9**	**9069.7**
Stddev	531.	19.6	2.2	5.8
%RSD	.49899	.53833	.04914	.06383
#1	105840.	3652.8	4527.4	9070.0
#2	106670.	3613.7	4523.3	9063.7
#3	106820.	3634.4	4527.0	9075.3

Zoom In Zoom Out

Sample Name: jc78941-1 Acquired: 12/7/2018 21:52:31 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.054**	**.0050**	**.0166**	**.0420**	**1.190**	**7.911**	**1.526**	**.1786**	**.0114**
Stddev	.004	.0004	.0006	.0016	.005	.020	.002	.0017	.0004
%RSD	.1850	8.389	3.629	3.926	.4198	.2507	.1189	.9297	3.799
#1	2.051	.0046	.0164	.0436	1.194	7.913	1.524	.1780	.0109
#2	2.051	.0050	.0172	.0420	1.191	7.891	1.525	.1805	.0116
#3	2.058	.0054	.0161	.0403	1.185	7.931	1.528	.1773	.0116

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2371**	**3.357**	**.0686**	**.0048**	**16.18**	**.0018**	**.0297**	**45.61**	**46.60**
Stddev	.0006	.003	.0029	.0014	.02	.0076	.0077	.11	.04
%RSD	.2525	.0838	4.168	29.82	.1417	432.2	25.80	.2482	.0863
#1	.2370	3.354	.0667	.0062	16.18	.0005	.0209	45.50	46.60
#2	.2365	3.358	.0672	.0049	16.16	.0099	.0338	45.60	46.64
#3	.2377	3.360	.0719	.0033	16.21	-.0052	.0345	45.73	46.56

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**147.2**	**9.855**	**11.20**	**1.166**	**.0785**	**.0305**	**3.310**	**.5357**	**.6247**
Stddev	.2	.191	.13	.034	.0009	.0004	.012	.0037	.0031
%RSD	.1225	1.942	1.122	2.897	1.205	1.258	.3544	.6858	.4929
#1	147.5	9.634	11.33	1.127	.0775	.0301	3.314	.5315	.6213
#2	147.1	9.968	11.09	1.188	.0793	.0307	3.297	.5369	.6254
#3	147.1	9.964	11.18	1.183	.0788	.0307	3.319	.5385	.6273

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.007**	**.0219**	**.0565**	**4.202**	**.0233**	**.0720**	**7.109**
Stddev	.003	.0051	.0029	.007	.0006	.0066	.019
%RSD	.3161	23.54	5.158	.1731	2.581	9.197	.2655
#1	1.008	.0198	.0597	4.207	.0227	.0659	7.111
#2	1.004	.0181	.0558	4.194	.0233	.0711	7.089
#3	1.010	.0277	.0540	4.206	.0239	.0791	7.126

Zoom In / Zoom Out

Sample Name: jc78941-1 Acquired: 12/7/2018 21:52:31 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106210.**	**3714.7**	**4757.4**	**9629.2**
Stddev	147.	5.6	13.3	18.6
%RSD	.13802	.15073	.28028	.19315
#1	106220.	3712.7	4772.8	9648.9
#2	106350.	3721.0	4748.9	9626.8
#3	106060.	3710.3	4750.5	9611.9

Zoom In / Zoom Out

Sample Name: mp11070-sd1 Acquired: 12/7/2018 21:57:48 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.219**	**.0053**	**.0174**	**.0421**	**1.290**	**8.463**	**1.658**	**.1954**	**-.0062**
Stddev	.006	.0009	.0029	.0047	.008	.024	.004	.0038	.0043
%RSD	.2835	17.12	16.92	11.23	.6134	.2806	.2507	1.946	69.62
#1	2.213	.0051	.0195	.0376	1.281	8.456	1.653	.1919	-.0083
#2	2.226	.0063	.0187	.0470	1.294	8.443	1.660	.1948	-.0012
#3	2.218	.0045	.0140	.0418	1.296	8.489	1.661	.1994	-.0090

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2606**	**3.861**	**.0775**	**.0389**	**18.05**	**.0105**	**.0554**	**48.47**	**50.41**
Stddev	.0018	.018	.0260	.0314	.05	.0608	.0088	.48	.33
%RSD	.6953	.4726	33.52	80.85	.2592	576.7	15.94	.9933	.6633
#1	.2590	3.843	.1055	.0130	17.99	.0415	.0655	48.85	50.59
#2	.2601	3.861	.0543	.0298	18.06	.0497	.0520	48.62	50.03
#3	.2626	3.879	.0726	.0738	18.08	-.0595	.0488	47.93	50.62

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**162.4**	**11.57**	**12.04**	**1.888**	**.1108**	**.0361**	**3.773**	**.5732**	**.6744**
Stddev	.8	.14	.85	.131	.0062	.0060	.008	.0205	.0041
%RSD	.5059	1.176	7.047	6.914	5.630	16.65	.2155	3.584	.6091
#1	161.5	11.63	12.58	1.998	.1130	.0391	3.778	.5654	.6769
#2	163.1	11.67	12.48	1.744	.1037	.0292	3.778	.5965	.6697
#3	162.5	11.41	11.07	1.924	.1156	.0401	3.764	.5577	.6768

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.088**	**.0057**	**.0344**	**4.831**	**.0121**	**.0580**	**8.028**
Stddev	.003	.0033	.0022	.037	.0201	.0084	.010
%RSD	.2418	57.69	6.504	.7589	166.0	14.41	.1301
#1	1.086	.0033	.0352	4.865	.0031	.0663	8.026
#2	1.089	.0044	.0361	4.792	-.0019	.0582	8.039
#3	1.091	.0095	.0319	4.835	.0352	.0495	8.018

Zoom In / Zoom Out

Sample Name: mp11070-sd1 Acquired: 12/7/2018 21:57:48 Type: Unk
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 25.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**106770.**	**3777.6**	**4569.7**	**9157.4**
Stddev	49.	9.2	5.9	11.0
%RSD	.04630	.24409	.12841	.11976
#1	106790.	3776.7	4572.0	9167.5
#2	106720.	3787.2	4574.1	9159.0
#3	106810.	3768.8	4563.0	9145.8

Zoom In / Zoom Out

Sample Name: CCV Acquired: 12/7/2018 22:03:10 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 4

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.994**	**2.034**	**1.997**	**2.016**	**2.070**	**2.010**	**2.121**	**2.071**	**.2530**
Stddev	.005	.005	.001	.003	.013	.008	.013	.002	.0014
%RSD	.2679	.2261	.0614	.1384	.6356	.3796	.6265	.1083	.5489
#1	2.000	2.029	1.996	2.015	2.085	2.019	2.136	2.070	.2546
#2	1.990	2.038	1.999	2.020	2.062	2.004	2.114	2.073	.2524
#3	1.992	2.034	1.997	2.014	2.063	2.007	2.112	2.069	.2521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.057**	**2.058**	**2.008**	**1.995**	**2.019**	**1.976**	**1.979**	**38.94**	**39.98**
Stddev	.014	.001	.003	.002	.000	.005	.004	.09	.14
%RSD	.6584	.0408	.1559	.0895	.0221	.2469	.1867	.2349	.3474
#1	2.072	2.057	2.005	1.996	2.019	1.971	1.975	39.04	39.83
#2	2.048	2.058	2.007	1.996	2.018	1.979	1.980	38.86	40.11
#3	2.049	2.058	2.011	1.993	2.019	1.979	1.982	38.92	40.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.86**	**39.71**	**39.70**	**39.38**	**2.009**	**2.012**	**5.189**	**2.052**	**2.020**
Stddev	.02	.30	.05	.06	.003	.002	.003	.003	.004
%RSD	.0571	.7661	.1161	.1523	.1331	.0761	.0612	.1255	.2238
#1	38.88	39.37	39.74	39.43	2.009	2.011	5.185	2.050	2.025
#2	38.87	39.95	39.65	39.31	2.007	2.013	5.191	2.055	2.019
#3	38.84	39.81	39.71	39.38	2.012	2.014	5.190	2.050	2.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/7/2018 22:03:10 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 4

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.050**	**1.998**	**2.048**	**2.011**	**1.964**	**2.028**	**2.037**
Stddev	.012	.003	.011	.006	.002	.002	.005
%RSD	.5760	.1581	.5198	.2864	.0822	.0970	.2324
#1	2.064	1.995	2.060	2.012	1.965	2.029	2.032
#2	2.044	1.998	2.042	2.015	1.962	2.026	2.041
#3	2.043	2.001	2.042	2.004	1.964	2.030	2.038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**102980.**	**3652.8**	**4365.2**	**8800.5**
Stddev	480.	7.2	5.1	5.5
%RSD	.46572	.19776	.11705	.06303
#1	102430.	3650.4	4370.4	8806.8
#2	103330.	3647.1	4364.9	8796.2
#3	103170.	3660.9	4360.2	8798.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 22:08:23 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ba4554	Be3130	Cd2288	Co2286	Cr2677	Cu3247	Mn2576	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**-.0000**	**.0001**	**-.0002**	**.0003**	**-.0004**	**.0000**	**-.0004**	**-.0011**
Stddev	.0002	.0001	.0003	.0003	.0003	.0002	.0000	.0001	.0002
%RSD	55.62	851.0	273.5	190.1	106.5	43.99	91.42	33.76	15.05
#1	.0003	-.0002	.0003	-.0003	-.0001	-.0006	-.0000	-.0006	-.0013
#2	.0007	.0001	-.0002	-.0003	.0005	-.0003	.0001	-.0004	-.0010
#3	.0003	.0000	.0001	.0002	.0005	-.0002	.0001	-.0003	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	V_2924	Zn2062	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0000**	**.0004**	**.0017**	**.0009**	**.0005**	**.0009**	**.0137**	**.0003**
Stddev	.0002	.0002	.0002	.0015	.0004	.0011	.0019	.0050	.0021
%RSD	131.6	892.7	59.92	86.80	40.18	229.7	198.0	36.89	611.0
#1	.0003	.0002	.0003	.0003	.0007	.0000	.0028	.0093	-.0017
#2	.0003	-.0002	.0006	.0016	.0014	-.0003	.0010	.0192	.0025
#3	-.0001	.0001	.0002	.0032	.0007	.0017	-.0009	.0125	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Fe2599	Mg2790	K_7664	Na5895	B_2089	Mo2020	Si2124	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0398**	**.0537**	**.0334**	**.0028**	F **.0033**	**.0029**	**-.0001**	**.0000**
Stddev	.0059	.0593	.0094	.0013	.0003	.0006	.0003	.0008	.0001
%RSD	271.1	148.9	17.51	4.012	9.815	17.59	10.80	911.5	223.8
#1	.0037	.0911	.0470	.0349	.0030	.0039	.0033	-.0009	.0000
#2	.0072	-.0251	.0497	.0324	.0030	.0032	.0027	.0007	-.0000
#3	-.0043	.0534	.0645	.0330	.0025	.0028	.0028	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0020			
Low Limit						-.0020			

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/7/2018 22:08:23 Type: QC
Method: SGS NO VALVE3(v77) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ti3349	W_2079	Zr3391	S_1820	Bi2230	Li6707	P_1774
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0022**	**.0003**	**-.0001**	**-.0004**	**-.0005**	**.0029**
Stddev	.0002	.0008	.0001	.0014	.0003	.0007	.0007
%RSD	120.9	35.78	19.33	1087.	85.35	157.4	23.06
#1	-.0000	.0026	.0003	.0000	-.0007	-.0009	.0023
#2	.0004	.0028	.0004	.0012	-.0001	.0004	.0029
#3	.0002	.0013	.0003	-.0016	-.0004	-.0009	.0036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**107030.**	**3740.1**	**4442.1**	**8848.1**
Stddev	209.	4.5	5.0	5.8
%RSD	.19496	.11962	.11167	.06537
#1	106790.	3744.6	4441.4	8844.2
#2	107190.	3740.0	4447.4	8845.2
#3	107090.	3735.7	4437.6	8854.7

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ba 455.403 { 74}	☒	2	Al	0.000000	0.000000	No
			Zr	0.001000	0.000000	No
Be 313.042 {108}	☒	11	V	0.000370	0.000000	No
			Mo	-0.000040	0.000000	No
			Ti	-0.000320	0.000000	No
			Mn	0.000016	0.000000	No
			Ba	-0.000013	0.000000	No
			Zn	0.000010	0.000000	No
			Sb	-0.000021	0.000000	No
			Ag	0.000060	0.000000	No
			Sn	0.000010	0.000000	No
			Fe	0.000000	0.000000	No
			K	0.000000	0.000000	No
Cd 228.802 {448}	☒	13	As	0.004100	0.000000	No
			Ni	-0.000040	0.000000	No
			Fe	-0.000007	0.000000	No
			Ba	0.000100	0.000000	No
			Co	-0.000040	0.000000	No
			Al	0.000000	0.000000	No
			Mg	0.000000	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	-0.000014	0.000000	No
			Ti	0.000051	0.000000	No
			Cu	0.000009	0.000000	No
			Sr	-0.000050	0.000000	No
			W	-0.001172	0.000000	No
Co 228.616 {448}	☒	5	Fe	-0.000001	0.000000	No
			Ca	0.000000	0.000000	No
			Mg	0.000001	0.000000	No
			Ti	0.002055	0.000000	No
			Mo	-0.001442	0.000000	No
Cr 267.716 {126}	☒	8	Mn	0.000043	0.000000	No
			Mo	-0.000053	0.000000	No
			Co	0.000007	0.000000	No
			Al	0.000000	0.000000	No
			Sn	0.000130	0.000000	No
			Ti	0.000042	0.000000	No
			Ca	0.000000	0.000000	No
			Fe	-0.000002	0.000000	No
Cu 324.754 {104}2	☒	12	Cr	0.000055	0.000000	No
			Mo	0.000350	0.000000	No
			Ti	-0.000112	0.000000	No
			Mn	0.000026	0.000000	No
			Co	-0.000657	0.000000	No
			Zn	0.000037	0.000000	No
			Fe	-0.000096	0.000000	No
			Zr	-0.000397	0.000000	No
			V	-0.000274	0.000000	No
			Al	0.000010	0.000000	No
			Ni	0.000032	0.000000	No
			W	0.000000	0.000000	No
Mn 257.610 {131}	☒	2	Fe	-0.000088	0.000000	No
			Mo	0.000011	0.000000	No
Ni 231.604 {446}	☒	7	Cr	-0.000028	0.000000	No
			Mo	-0.000041	0.000000	No
			Fe	0.000021	0.000000	No
			Zn	0.000017	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Co	-0.000023	0.000000	No
			Ti	0.000102	0.000000	No
			W	0.005000	0.000000	No
Ag 328.068 {103}	☒	15	Mn	0.000296	0.000000	No
			Mo	0.000075	0.000000	No
			Ti	-0.000974	0.000000	No
			V	-0.000240	0.000000	No
			Zr	0.004000	0.000000	No
			Sb	-0.000013	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	-0.000002	0.000000	No
			Fe	-0.000325	0.000000	No
			Al	0.000001	0.000000	No
			Zn	0.000002	0.000000	No
			Ba	-0.000087	0.000000	No
			Ni	-0.000021	0.000000	No
			Cr	0.000022	0.000000	No
			As	0.000081	0.000000	No
V 292.402 {115}	☒	6	Fe	0.000030	0.000000	No
			Ti	0.000544	0.000000	No
			Mo	-0.011900	0.000000	No
			Co	-0.000106	0.000000	No
			Cr	-0.001210	0.000000	No
			Mn	-0.000593	0.000000	No
Zn 206.200 {464}	☒	13	Cr	-0.000600	0.000000	No
			Mo	-0.000376	0.000000	No
			Fe	0.000016	0.000000	No
			Co	0.000122	0.000000	No
			Ni	0.000058	0.000000	No
			Se	0.000141	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	0.000131	0.000000	No
			Sn	0.000068	0.000000	No
			V	-0.000012	0.000000	No
			Al	0.000001	0.000000	No
			Si	0.000173	0.000000	No
			Zr	0.000269	0.000000	No
As 189.042 {478}	☒	22	Al	-0.000005	0.000000	No
			Fe	-0.000071	0.000000	No
			Ca	-0.000003	0.000000	No
			Mn	-0.000048	0.000000	No
			Mo	-0.003230	0.000000	No
			Cr	-0.005356	0.000000	No
			Co	-0.000100	0.000000	No
			Si	0.000021	0.000000	No
			Cu	0.000120	0.000000	No
			Mg	-0.000001	0.000000	No
			Cd	-0.000103	0.000000	No
			Sn	-0.000124	0.000000	No
			Zn	-0.000045	0.000000	No
			Zr	-0.000545	0.000000	No
			Sb	0.000022	0.000000	No
			Ti	-0.000098	0.000000	No
			Ni	-0.000069	0.000000	No
			W	0.000000	0.000000	No
			S	-0.000002	0.000000	No
			Ba	0.000069	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Sr	0.000000	0.000000	No
			V	0.000013	0.000000	No
Tl 190.856 {477}	☒	29	Cr	0.000272	0.000000	No
			Mo	-0.013110	0.000000	No
			Al	-0.000003	0.000000	No
			V	-0.014000	0.000000	No
			Mn	0.002300	0.000000	No
			Si	-0.000021	0.000000	No
			Ca	-0.000007	0.000000	No
			Ti	-0.004200	0.000000	No
			Cu	0.000040	0.000000	No
			Co	0.007910	0.000000	No
			Sr	-0.000233	0.000000	No
			Zn	0.000050	0.000000	No
			Pb	0.000153	0.000000	No
			Mg	0.000005	0.000000	No
			Ba	-0.000014	0.000000	No
			W	0.000000	0.000000	No
			B	-0.000796	0.000000	No
			Ni	-0.000036	0.000000	No
			Sn	-0.000199	0.000000	No
			Fe	-0.000089	0.000000	No
			Li	-0.000078	0.000000	No
			S	-0.000010	0.000000	No
			As	0.000056	0.000000	No
			Bi	0.000164	0.000000	No
			Na	0.000007	0.000000	No
			P	-0.000170	0.000000	No
			Cd	0.000117	0.000000	No
			Sb	0.000034	0.000000	No
			K	0.000000	0.000000	No
Pb 220.353 {453}	☒	20	Al	-0.000113	0.000000	No
			Ca	0.000000	0.000000	No
			Mn	0.000250	0.000000	No
			Zn	0.000027	0.000000	No
			Mo	-0.001000	0.000000	No
			Ni	0.000210	0.000000	No
			Cu	0.000273	0.000000	No
			V	-0.000152	0.000000	No
			Co	0.000707	0.000000	No
			Ti	-0.000472	0.000000	No
			Si	0.000203	0.000000	No
			Mg	0.000001	0.000000	No
			Sb	-0.000096	0.000000	No
			Cr	-0.000069	0.000000	No
			Sn	0.000016	0.000000	No
			Fe	0.000088	0.000000	No
			W	0.000000	0.000000	No
			Sr	-0.000036	0.000000	No
			Zr	-0.000049	0.000000	No
			S	0.000010	0.000000	No
Se 196.090 {472}	☒	17	Al	0.000005	0.000000	No
			Ca	-0.000007	0.000000	No
			Mn	0.000469	0.000000	No
			Mo	0.000086	0.000000	No
			Co	-0.000041	0.000000	No
			Cu	-0.000107	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mg	-0.000006	0.000000	No
			Ti	0.000035	0.000000	No
			Zn	-0.000077	0.000000	No
			Fe	-0.000243	0.000000	No
			Si	0.000068	0.000000	No
			B	-0.000043	0.000000	No
			Ba	0.000050	0.000000	No
			S	-0.000008	0.000000	No
			Zr	-0.000267	0.000000	No
			V	0.000150	0.000000	No
			W	0.000000	0.000000	No
Sb 206.833 {463}	☒	17	Fe	-0.000060	0.000000	No
			Al	-0.000021	0.000000	No
			Ca	-0.000004	0.000000	No
			Ni	-0.000525	0.000000	No
			Cr	0.008100	0.000000	No
			V	-0.002141	0.000000	No
			Zn	-0.000104	0.000000	No
			Mo	0.001736	0.000000	No
			Ti	-0.000248	0.000000	No
			Sn	-0.004450	0.000000	No
			Mn	-0.000040	0.000000	No
			Co	-0.000121	0.000000	No
			Se	-0.000252	0.000000	No
			Zr	-0.000300	0.000000	No
			W	0.000000	0.000000	No
			Mg	-0.000001	0.000000	No
			S	0.000003	0.000000	No
Al 396.152 { 85}	☒	7	Ca	0.000115	0.000000	No
			Mo	0.035605	0.000000	No
			Ti	0.000037	0.000000	No
			Si	0.001149	0.000000	No
			Co	-0.000115	0.000000	No
			Li	-0.001000	0.000000	No
			Ba	0.000725	0.000000	No
Ca 317.933 {106}	☒	5	Al	0.000043	0.000000	No
			Fe	0.000240	0.000000	No
			Mg	0.000071	0.000000	No
			Ti	-0.000042	0.000000	No
			Co	0.001850	0.000000	No
Fe 259.940 {130}	☒	11	Cr	0.000237	0.000000	No
			Zn	0.000466	0.000000	No
			Al	0.000022	0.000000	No
			Co	0.000318	0.000000	No
			Cd	0.000700	0.000000	No
			Sn	-0.000019	0.000000	No
			Ti	-0.000710	0.000000	No
			Si	0.000053	0.000000	No
			Ca	0.000012	0.000000	No
			Ba	0.000400	0.000000	No
			Mn	-0.001193	0.000000	No
Mg 279.079 {121}	☒	3	Mo	-0.023994	0.000000	No
			Pb	-0.000017	0.000000	No
			Fe	-0.000081	0.000000	No
K 766.490 { 44}	☒	None				
Na 589.592 { 57}	☒	1	Al	0.000039	0.000000	No
B 208.959 {462}	☒	1	Mo	0.024529	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Mo 202.030 {467}	☒	6	Ti	0.000050	0.000000	No
			Mg	-0.000005	0.000000	No
			Ca	0.000000	0.000000	No
			Fe	-0.000006	0.000000	No
			V	-0.000100	0.000000	No
			W	-0.004000	0.000000	No
Si 212.412 {459}	☒	11	Mn	0.000981	0.000000	No
			Fe	0.000021	0.000000	No
			Ca	0.000008	0.000000	No
			Ni	0.000391	0.000000	No
			Cd	0.001794	0.000000	No
			Cr	0.000438	0.000000	No
			Mo	0.027334	0.000000	No
			Ti	0.002984	0.000000	No
			Ba	0.000825	0.000000	No
			Sn	-0.000172	0.000000	No
			V	0.004407	0.000000	No
Sn 189.989 {478}	☒	3	Ti	-0.003009	0.000000	No
			Fe	0.000017	0.000000	No
			Mo	0.000058	0.000000	No
Sr 407.771 { 83}	☒	2	Ca	0.000033	0.000000	No
			Zr	-0.019750	0.000000	No
Ti 334.904 {101}	☒	5	Cr	0.000072	0.000000	No
			Mo	0.001251	0.000000	No
			Zr	0.000002	0.000000	No
			W	0.000004	0.000000	No
			V	0.000064	0.000000	No
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Y 224.306 {451}*	☒	None				
In 230.606 {446}*	☒	None				
W 207.911 {462}	☒	3	V	0.000064	0.000000	No
			Zn	0.010800	0.000000	No
			Fe	0.000002	0.000000	No
Zr 339.198 { 99}	☒	14	Fe	-0.000047	0.000000	No
			Si	0.000079	0.000000	No
			Ba	-0.000049	0.000000	No
			Sn	0.000051	0.000000	No
			Sb	-0.000067	0.000000	No
			V	0.000030	0.000000	No
			W	0.000000	0.000000	No
			Ti	0.000007	0.000000	No
			Al	0.000001	0.000000	No
			Ca	-0.000001	0.000000	No
			Li	-0.000500	0.000000	No
			Bi	-0.000230	0.000000	No
			Mn	0.000059	0.000000	No
			Mo	0.000516	0.000000	No
S 182.034 {485}	☒	10	Ca	0.000084	0.000000	No
			Mo	-0.000365	0.000000	No
			Al	-0.000013	0.000000	No
			Fe	0.000121	0.000000	No
			Mn	0.002976	0.000000	No
			W	0.077182	0.000000	No
			Mg	0.000055	0.000000	No
			Cr	0.000119	0.000000	No
			V	0.003667	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				B	0.007003	0.000000	No
	Bi 223.061 {451}	☒	6	Fe	0.000020	0.000000	No
				Ti	-0.000314	0.000000	No
				Co	-0.000632	0.000000	No
				Cr	0.001564	0.000000	No
				Cu	-0.002052	0.000000	No
				V	-0.000889	0.000000	No
	Li 670.784 { 50}	☒	2	Ca	0.000009	0.000000	No
				W	0.000000	0.000000	No
	P 177.495 {490}	☒	2	Mn	-0.004050	0.000000	No
				Cu	0.007356	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ba 455.403 { 74}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.008493	3.673097	0.000000	1.000000
Be 313.042 {108}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000382	3.826712	0.000000	1.000000
Cd 228.802 {448}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000553	1.123304	0.000000	1.000000
Co 228.616 {448}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000095	0.492110	0.000000	1.000000
Cr 267.716 {126}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000022	0.168959	0.000000	1.000000
Cu 324.754 {104}2	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.008264	0.399603	0.000000	1.000000
Mn 257.610 {131}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000035	0.420376	0.000000	1.000000
Ni 231.604 {446}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000624	0.387493	0.000000	1.000000
Ag 328.068 {103}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.001321	0.238226	0.000000	1.000000
V 292.402 {115}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000053	0.259922	0.000000	1.000000
Zn 206.200 {464}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000365	0.995277	0.000000	1.000000
As 189.042 {478}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000899	0.152028	0.000000	1.000000
Tl 190.856 {477}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000379	0.047254	0.000000	1.000000
Pb 220.353 {453}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000610	0.132129	0.000000	1.000000
Se 196.090 {472}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000620	0.109218	0.000000	1.000000
Sb 206.833 {463}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000000	0.174846	0.000000	1.000000
Al 396.152 { 85}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.001459	0.054150	0.000000	1.000000
Ca 317.933 {106}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.005159	0.075070	0.000000	1.000000
Fe 259.940 {130}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000352	0.041190	0.000000	1.000000
Mg 279.079 {121}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000095	0.007504	0.000000	1.000000
K 766.490 { 44}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.017613	0.120567	0.000000	1.000000
Na 589.592 { 57}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.021403	0.335223	0.000000	1.000000
B 208.959 {462}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000187	0.266962	0.000000	1.000000
Mo 202.030 {467}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000393	0.723240	0.000000	1.000000
Si 212.412 {459}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.004421	0.245321	0.000000	1.000000
Sn 189.989 {478}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.000138	0.158397	0.000000	1.000000
Sr 407.771 { 83}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.001305	2.433920	0.000000	1.000000
Ti 334.904 {101}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000370	0.280752	0.000000	1.000000
Y 360.073 { 94}*	12/10/2018 10:04:22	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	12/10/2018 10:04:22	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
Y 224.306 {451}*	12/10/2018 10:04:22	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
In 230.606 {446}*	12/10/2018 10:04:22	5/1/2013 13:59:18	Linear	None	0.000000	0.000000	0.000000	1.000000
W 207.911 {462}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.002014	0.371582	0.000000	1.000000
Zr 339.198 { 99}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000539	0.602987	0.000000	1.000000
S 182.034 {485}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000851	0.096577	0.000000	1.000000
Bi 223.061 {451}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	-0.000598	0.253878	0.000000	1.000000
Li 670.784 { 50}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	None	0.023806	3.915297	0.000000	1.000000
P 177.495 {490}	12/10/2018 10:04:22	12/7/2018 12:11:10	Linear	1/Conc	-0.006845	0.200991	0.000000	1.000000

Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
Ba 455.403 { 74}	1.000000	0.000000	0.000367	0.001222	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	1.000000	0.000000	0.000101	0.000338	OK.	1.000000	0.000000	1	0
Cd 228.802 {448}	1.000000	0.000000	0.000174	0.000580	OK.	1.000000	0.000000	1	0
Co 228.616 {448}	1.000000	0.000000	0.000311	0.001035	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	1.000000	0.000000	0.000226	0.000755	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}2	1.000000	0.000000	0.000151	0.000502	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	1.000000	0.000000	0.000033	0.000110	OK.	1.000000	0.000000	1	0
Ni 231.604 {446}	1.000000	0.000000	0.000348	0.001160	OK.	1.000000	0.000000	1	0
Ag 328.068 {103}	1.000000	0.000000	0.000255	0.000851	OK.	1.000000	0.000000	1	0
V 292.402 {115}	1.000000	0.000000	0.000189	0.000631	OK.	1.000000	0.000000	1	0
Zn 206.200 {464}	1.000000	0.000000	0.000165	0.000550	OK.	1.000000	0.000000	1	0
As 189.042 {478}	1.000000	0.000000	0.001014	0.003379	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	1.000000	0.000000	0.002201	0.007337	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	1.000000	0.000000	0.001455	0.004851	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	1.000000	0.000000	0.001624	0.005414	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	1.000000	0.000000	0.001288	0.004294	OK.	1.000000	0.000000	1	0
Al 396.152 { 85}	1.000000	0.000000	0.016442	0.054806	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	1.000000	0.000000	0.006070	0.020234	OK.	1.000000	0.000000	1	0
Fe 259.940 {130}	1.000000	0.000000	0.005846	0.019487	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	1.000000	0.000000	0.039757	0.132522	OK.	1.000000	0.000000	1	0
K 766.490 { 44}	1.000000	0.000000	0.026325	0.087751	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	1.000000	0.000000	0.008301	0.027669	OK.	1.000000	0.000000	1	0
B 208.959 {462}	1.000000	0.000000	0.000554	0.001847	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	1.000000	0.000000	0.000266	0.000887	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	1.000000	0.000000	0.000880	0.002933	OK.	1.000000	0.000000	1	0
Sn 189.989 {478}	1.000000	0.000000	0.000730	0.002435	OK.	1.000000	0.000000	1	0
Sr 407.771 { 83}	1.000000	0.000000	0.000195	0.000650	OK.	1.000000	0.000000	1	0
Ti 334.904 {101}	1.000000	0.000000	0.000256	0.000855	OK.	1.000000	0.000000	1	0
Y 360.073 { 94}*	0.000000	0.000000	0.000796	0.002654	Warnin	1.000000	0.000000	1	0
Y 371.030 { 91}*	0.000000	0.000000	0.002186	0.007287	Warnin	1.000000	0.000000	1	0
Y 224.306 {451}*	0.000000	0.000000	0.004215	0.014050	Warnin	1.000000	0.000000	1	0
In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
W 207.911 {462}	1.000000	0.000000	0.001049	0.003497	OK.	1.000000	0.000000	1	0
Zr 339.198 { 99}	1.000000	0.000000	0.000117	0.000389	OK.	1.000000	0.000000	1	0
S 182.034 {485}	1.000000	0.000000	0.001707	0.005689	OK.	1.000000	0.000000	1	0
Bi 223.061 {451}	1.000000	0.000000	0.001195	0.003985	OK.	1.000000	0.000000	1	0
Li 670.784 { 50}	1.000000	0.000000	0.000792	0.002640	OK.	1.000000	0.000000	1	0
P 177.495 {490}	1.000000	0.000000	0.000820	0.002732	OK.	1.000000	0.000000	1	0

Lot QC MA45785 End Temp: ted Start Temp:_____Correction:_____Thermometer ID:_____

Bot #	Sample ID	Initial Sample Wt. (gm)	Final Vol. (ml)	Spike Used		Spikelot and Conc.	MP Number	Comments/Lot # and Vendor
				Amount Spiked	Added Y or N	(mg/L)		
1	MP11075-MB1	0.6001	100				MP11075	
2	MP11075-B1	0.6001	100	2.0 ml	Y	0.1		HG-18-140-500-HGA1, IN. V.
3	MP11075-S1	0.6633	100	2.0 ml	Y	0.1		JC78941-1, HG-18-140-500-HGA1, IN. V.
4	MP11075-S2	0.6544	100	2.0 ml	Y	0.1		JC78941-1, HG-18-140-500-HGA1, IN. V.
5	JC78941-1	0.6665	100					ROOTS
6	MP11075-S3	0.6612	100	2.0 ml	Y	0.1		JC79057-1, HG-18-140-500-HGA1, IN. V.
7	MP11075-S4	0.6483	100	2.0 ml	Y	0.1		JC79057-1, HG-18-140-500-HGA1, IN. V.
8	JC79057-1	0.6600	100					CLAY/SMALL ROCKS
9	JC78941-4	0.6723	100					
10	JC78982-1	0.6640	100					
11	JC78982-2	0.6719	100					
12	JC78982-3	0.6467	100					
13	JC78967-1	0.6491	100					
14	JC79057-2	0.6554	100					
15	JC78829-1R	0.6526	100					
16	JC78619-2	0.6377	100					OIL
17			100					
18			100					
19			100					
20			100					
21			100					
22			100					
23			100					
24			100					
25			100					
26			100					
27			100					
28			100					
29			100					
30			100					
31			100					
32			100					
33			100					
34			100					
35			100					

Form: HG-022F-02
Revision Date:08/24/15

ANALYST: EM
SPIKE WITNESS: LL
QC REVIERER:

DATE: 12/5/18
DATE: 12/5/18
DATE:

11.5.1 11

				Spiked	Y or N	(mg/L)		
S-1	Calibration Blank	0.6	100 ml	0.0 ml	N	N/A	N/A	N/A
S-2	0.20 ug/l standard	0.6	100 ml	2.0 ml	Y	0.0100	N/A	HG-18-140-501-HGA2, IN. V.
S-3	0.50 ug/l standard	0.6	100 ml	5.0 ml	Y	0.0100	N/A	HG-18-140-501-HGA2, IN. V.
S-4	1.00 ug/l standard	0.6	100 ml	1.0 ml	Y	0.1000	N/A	HG-18-140-500-HGA1, IN. V.
S-5	2.50 ug/l standard	0.6	100 ml	2.5 ml	Y	0.1000	N/A	HG-18-140-500-HGA1, IN. V.
S-6	5.00 ug/l standard	0.6	100 ml	5.0 ml	Y	0.1000	N/A	HG-18-140-500-HGA1, IN. V.
ICV	ICV (External)	0.6	100 ml	3.0 ml	Y	0.1		HG-18-140-502-HGB1, ULTRA
ICB	ICB	0.6	100 ml	0.0 ml	N	N/A	N/A	
CCV	CCV	0.6	100 ml	2.5 ml	Y	0.1		HG-18-140-500-HGA1, IN. V.
CCB	CCB	0.6	100 ml	0.0 ml	N	N/A	N/A	
CRI	CRI	0.6	100 ml	2.0 ml	Y	0.01		HG-18-140-501-HGA2, IN. V.

Conc. Nitric Acid	10/26/2020	Baker - 202943
Sodium Chloride-Hydroxylamine Hydrochloride	6/3/2019	HG-18-140 493 -HGHCL
Potassium Permanganate	6/3/2019	HG-18-140 491 -HGKM2
Stannous Chloride	12/6/2018	HG-18-140 503 -HGS
STD Hg standard solution 1000 ppm	3/1/2019	Inorganic Ventures K2-HG653768
STD Hg standard solution 100 ppb	12/6/2018	HG-18-140 500 -HGA1
STD Hg standard solution 10 ppb	12/6/2018	HG-18-140 501 -HGA2
ICV Hg standard solution 1000 ppm	6/30/2021	Ultra T00601
ICV Hg standard solution 100 ppb	12/6/2018	HG-17-132 502 -HGB1
Solid Lab control/Soil LC	3/31/2020	ERA D094-540
Aqua Regia	12/6/2018	HG-18-140 504 -HGKAQ
Dilution acid	6/3/2019	HG-18-140 494 -HGD1
Digestion Tubes	N/A	Environmental Express 1808349
Teflon Chips (For Soil MB)	N/A	Chemware , Lot: 23656541

Form: GN087A80-04
Rev.Date: 06/06/17

SGS North America Inc.

Solids/Soil Metals Digestion Form

Batch Information

Batch ID	Start Date	Start Time	End Date	End time	QC Samp 1	QC Samp 2
MP11070	12/5/2018	9:30	12/5/2018	17:00	JC78941-1	

Temperature

		Block ID	Therm. ID#	Balance ID	Temperature	Correction	Corrected Temp	
1	Start	7	6404316	B-41	93	-1	92	
1	End	7	6404316	NA	92	-1	91	
2	Start							
2	End			NA				

Methods and Equipment

	Dig. Method	Heating Method		Auto Pipette #	Digestion Tube Lot #	
	SW846 3050B	Digestion Block		M-74	1808349	

Sample ID	Bottle ID	Final Volume (ML)	Wet Weight (G)	Reagent Groups Added	Spike Groups Added	Comments
MP11070-MB1	N/A	100	0.97	ABCD		
MP11070-B1	N/A	100	1.02	ABCD	ABCD	
MP11070-S1	4	100	1.00	ABCD	ABCD	
MP11070-S2	4	100	0.99	ABCD	ABCD	
MP11070-SD1	4	100	0.96	ABCD		
JC78941-1	4	100	0.96	ABCD		
JC78941-2	2	100	1.00	ABCD		
JC78941-4	2	100	0.97	ABCD		
JC78941-5	1	100	1.02	ABCD		
JC78941-6	1	100	1.00	ABCD		
JC78967-1	1	100	0.98	ABCD		
JC78982-1	1	100	0.99	ABCD		
JC78982-2	1	100	0.98	ABCD		
JC78982-3	1	100	0.99	ABCD		
JC78619-2	1	100	1.00	ABCD		

Reagents Groups

Group	Description	MLs Used
A	CONC HNO3	5
B	1:1 HNO3	10
C	H2O2	5
D	CONC HCL	10
E		
F		
G		
H		

Spike Groups

Group	Description	MLs Used
A	ACCUTEST 13A REV1	1
B	ACCUTEST 14A REV1	1
C	MINERALS 5000PPM	0.5
D	AG 20PPM	1.25
E		
F	AG 20PPM	1.25
G		
H		

Comments:

Analyst TAYLORG **Approved by** gulcagt **Approved on** 12/6/2018

Note: Reagent traceability for batch Start Date can be seen on the reagent traceability page for this batch.
Serial Dilution samples shown for QC purposes only.
Acceptable Temperature range is 90-95 degrees C unless otherwise noted

SGS

Metals Digestion Reagents Information Log

Digestion Batch ID: MP 11076 **Date:** 12/5/18

Matrix: ALL

Standard/Reagent Type	Exp. Date	Standard/Reagent ID
Spiking Solution - (ACCUTEST -13A Rev1)	5/19/2019	MP-015-1112
Spiking Solution - (ACCUTEST -14A Rev1)	5/19/2019	MP-015-1113
Spiking Solution - 5000 mg/l Minerals	11/27/2019	N2-MEB672948 MFG: INO. VENT.
Spiking Solution - Sulfur 1000ppm	4/11/2021	LOT: 041118 MFG: ABS. GRADE
Spiking Solution - Si 1000ppm	10/31/2019	K2-SI668066 MFG: INO. VENT
Spiking Solution - Bi 1000ppm	11/5/2019	M2-B1658289 MFG: INO. VENT
Spiking Solution - Se 20ppm	5/19/2019	MA-015-1110
Spiking Solution - Li 1000ppm	11/6/2019	N2-LI665824 MFG: INO. VENT
Spiking Solution- Ag 20 ppm	5/28/2019	MP-015-1116
Spiking Solution - (ACCUTEST -13B Rev1)	5/8/2019	MP-015-1107
Spiking Solution - (ACCUTEST -14B Rev1)	5/19/2019	MP-015-1111
Spiking Solution -1000ppm Minerals	3/12/2019	MA-18-339-86
Spiking Solution- P		
Nitric Acid	12/3/2020	LOT: 202943 MFG: J.T. BAKER
Nitric Acid (1:1)	5/27/2019	MP-018-42-108 1:1 HNO3
Hydrochloric Acid	11/30/2020	LOT: 201226 MFG: J.T. BAKER
Hydrochloric Acid (1:1)	5/29/2019	MP-018-42-109 1:1 HCL
Hydrogen Peroxide	11/27/2020	LOT: 183575 MFG: FISHER
Soil Lab Control/Soil LC	3/21/2020	LOT: D094-540 MFG: ERA
Teflon Chips(For Soil MB and Blank Spike)	N/A	LOT: 23656541 MFG: CHEMWARE
Digestion Tubes	N/A	LOT: 1808349 MFG: ENV. EXPRESS
pH Paper	6/15/2021	LOT: 217518 MFG: HYDRION
Filter paper Q8	N/A	LOT: 9802858 MFG: FISHER
Filter paper 0.45µm	N/A	LOT: F7NA69768 MFG: FISHER

Spike witnessed By: RP

Validated By: _____

Validated On: _____

AA014-06 (Metals Digest Stds)-DAYT-MET-0039-06-FORM-Metals Digestion Reagants Info Log.xls
1/17/18

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. IO-525

Carrier No. 7A-709

Page 1 of 1 — Sun Environmental Corp (Name of carrier) (SCAC)

Date 12-11-18

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee Industrial Oil Tank Service Corp
Street 120 Pay Rd
City Oriskany State NY Zip Code 13424

FROM:
Shipper US Army Corp of Engineers NY Dist
Street 601 Willardshire Rd
City E. Aurora State NY Zip Code 14052
24 hr. Emergency Contact Tel. No. 800-807-7455

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
6 - DM		NON-RCRA, Non-DOT Regulated Material	~~240~~ (SH)	~~6~~ (SH)		
		(Hydraulic oil water mix)		cst 2400	P	
		JDTSC 12/20/18				
		JDS # TANT-2011-2869				
		Approval # ACOE18/207				

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to assure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under this contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER [signature]

PER [signature]

CARRIER Sun Environmental Corp

PER [signature]

DATE 12-11-18

1

Permanent post-office address of shipper.

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AMERICAN LABELMARK COMPANY - CHICAGO, IL 60646 37171738-DAF

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. IO-691

Carrier No. 7A-709

Page 1 of 1

Sun Environmental Corp

(Name of carrier) (SCAC)

Date 6-13-19

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:

Consignee Industrial Oil Tank Service Corp.

Street 120 Dey Rd

City Oriskany State NY Zip Code 13424

FROM:

Shipper US ARMY CORP of Engineers NY Dist

Street 601 Willardshire Rd

City E. Aurora State NY Zip Code 14052

24 hr. Emergency Contact Tel. No. 800-807-7455

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
5-DM		NON-RCRA, NON-DOT Regulated Material	P	EST. 2250		
		(Hydraulic oil water mix)				
		Approval # ACOE181207				
		Job Tant. 2012-4185				

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(b) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

PER TANTAR - Agent for USACE

CARRIER Sun Environmental Corp.

PER

DATE 6/15/19

1

Permanent post-office address of shipper.

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