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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Tronox LLC, Henderson

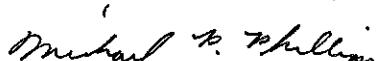
SDG: 8304609

Lot #s: D9G010276, D9G020221, and D9G020227

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Newport Beach, CA 92660

TestAmerica Laboratories, Inc.



Michael P. Phillips
Project Manager

July 23, 2009

Case Narrative

SDG 8304609

The samples presented in this report were submitted to TestAmerica by Northgate Environmental Management, Inc. from the Tronox/Henderson site. The samples were received according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the methods summary page in accordance with the methods indicated.

The results apply only to the samples included in this report and meet all requirements of NELAC. All data have been reviewed for compliance with the laboratory QA/QC plan and have been found to be compliant with laboratory protocols, with the exception of any items noted below.

Sample Receiving

Two samples were received under chain of custody at a temperature of 3.4°C on July 1, 2009, and were logged under lot D9G010276. Three samples were received under chain of custody at a temperature of 2.7°C on July 2, 2009, and were logged under lot D9G020221. Three samples were received under chain of custody at temperatures of 2.7°C and 1.3°C on July 2, 2009, and were logged under lot D9G020227. Sample times were not originally listed on the Chain of Custody and were therefore obtained from the sample bottle labels. The client was informed via email on July 2, 2009 and the client sent amended Chain of Custody forms with the sample times on July 6, 2009. These lots are reported here under SDG 8304609.

GC Semivolatiles / Organophosphorus Pesticides – SW846 Method 8141A

The method required MS/MSD could not be performed for QC batch 9182412 due to insufficient sample volume submitted by the client. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

The Continuing Calibration Verification (CCV) standard(s) associated with the samples in QC batch 9182412 exhibited %Difference (%D) values out of range for several compounds. The overall mean %D was within control limits; therefore, method criteria were met and corrective action was deemed unnecessary. In addition, none of the compounds were detected in the associated samples.

Total and Dissolved Arsenic and Selenium – SW846 Method 6020/Collision Cell

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. All of the samples analyzed for Total Arsenic, Total Selenium, Dissolved Arsenic or Dissolved Selenium were diluted by a factor of 10X due to the sample matrix. The reporting limits have been adjusted relative to the dilutions required.

The method required MS/MSD was performed for Total Metals QC batch 9187169 using sample D9G020221-001 (M-110AB) and all results were in control.

The method required MS/MSD was performed for Dissolved Metals QC batch 9187175 using sample D9G020227-003 (M-12ABDISS) and exhibited MS and MSD recoveries for

Selenium above the upper control limit. Also, due to the high concentration of Arsenic in the parent sample, the MS and MSD percent recoveries were outside the control limits. Method precision and accuracy have been verified by the acceptable LCS analysis data; therefore, corrective action was deemed unnecessary.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called “unknown”
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

EXECUTIVE SUMMARY - Detection Highlights

8304609 : D9G010276

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
M-111AB 06/29/09 09:55 001				
Arsenic	120	50	ug/L	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

8304609 : D9G020221

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
M-110AB 07/01/09 09:00 001				
Arsenic	150	50	ug/L	SW846 6020
M-110ABDISS 07/01/09 09:00 002				
Arsenic - DISSOLVED	150	50	ug/L	SW846 6020
I-ARB 07/01/09 11:50 003				
Arsenic	100	50	ug/L	SW846 6020
Selenium	8.0 B	50	ug/L	SW846 6020

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

8304609 : D9G020227

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
M-25B 06/30/09 07:45 001				
Arsenic	100	50	ug/L	SW846 6020
M-12AB 06/30/09 10:10 002				
Arsenic	760	50	ug/L	SW846 6020
Selenium	7.7 B	50	ug/L	SW846 6020
M-12ABDISS 06/30/09 10:10 003				
Arsenic - DISSOLVED	750	50	ug/L	SW846 6020

METHODS SUMMARY

8304609

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
ICP-MS (6020)	SW846 6020	SW846 3005A
ICP-MS (6020)	SW846 6020	SW846 3020A
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

8304609

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
SW846 6020	Thomas Lill	006929
SW846 8141A	Teresa L. Williams	002510

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

8304609 : D9G010276

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LFX9W	001	M-111AB	06/29/09	09:55
LFX90	002	EB062909-GW	06/29/09	11:25

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

8304609 : D9G020221

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LF1T1	001	M-110AB	07/01/09	09:00
LF1T5	002	M-110ABDISS	07/01/09	09:00
LF1T6	003	I-ARB	07/01/09	11:50

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

8304609 : D9G020227

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LF1VJ	001	M-25B	06/30/09	07:45
LF1V5	002	M-12AB	06/30/09	10:10
LF1WA	003	M-12ABDISS	06/30/09	10:10

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9G010276

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 6020		9187169	9187121
	WATER	SW846 8141A		9182412	
002	WATER	SW846 8141A		9182412	

QC DATA ASSOCIATION SUMMARY

D9G020221

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 6020		9187169	9187121
002	WATER	SW846 6020		9187175	9187122
003	WATER	SW846 6020		9187169	9187121

QC DATA ASSOCIATION SUMMARY

D9G020227

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 6020		9187169	9187121
002	WATER	SW846 6020		9187169	9187121
003	WATER	SW846 6020		9187175	9187122

TestAmerica
Semivolatile GC
CLP-Like Forms

Lot ID: D9G010276

Client: Northgate/Tronox

Method: SW846 8141A

Associated Samples: 001 and 002

Batch: 9182412

Northgate Environmental Management, Inc.**Analysis Data Sheet**

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>M-111AB</u>
Lot/SDG Number:	<u>8304609</u>	Lab Sample ID:	<u>D9G010276-001</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>LFX9W1AA</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/29/09 09:55</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/01/09 09:00</u>
Analysis Method:	<u>8141A</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/01/09 15:25</u>
QC Batch ID:	<u>9182412</u>	Date/Time Analyzed:	<u>07/08/09 03:59</u>
Sample Aliquot:	<u>1057 mL</u>	Instrument ID:	<u>D2</u>
Dilution Factor:	<u>1</u>		

CAS No.	Analyte	Conc.	MDL	RL	Q
86-50-0	Azinphos-methyl	0.17	0.17	2.5	U
35400-43-2	Bolstar	0.31	0.31	1.0	U
2921-88-2	Chlorpyrifos	0.36	0.36	1.0	U
56-72-4	Coumaphos	0.14	0.14	1.0	U
298-03-3	Demeton-O	0.14	0.14	1.0	U
126-75-0	Demeton-S	0.069	0.069	1.0	U
333-41-5	Diazinon	0.15	0.15	1.0	U
62-73-7	Dichlorvos	0.16	0.16	1.0	U
60-51-5	Dimethoate	0.45	0.45	1.5	U
298-04-4	Disulfoton	0.32	0.32	1.0	U
2104-64-5	EPN	0.15	0.15	1.2	U
13194-48-4	Ethoprop	0.18	0.18	0.50	U
56-38-2	Ethyl parathion	0.14	0.14	1.0	U
52-85-7	Famphur	0.18	0.18	1.0	U
115-90-2	Fensulfothion	0.54	0.54	2.5	U
55-38-9	Fenthion	0.15	0.15	2.5	U
121-75-5	Malathion	0.13	0.13	1.2	U
150-50-5	Merphos	0.17	0.17	5.0	U
298-00-0	Methyl parathion	0.14	0.14	4.0	U
7786-34-7	Mevinphos	0.46	0.46	6.2	U
300-76-5	Naled	0.25	0.25	1.0	U
298-02-2	Phorate	0.15	0.15	1.2	U
299-84-3	Ronnel	0.12	0.12	10	U
3689-24-5	Sulfotepp	0.17	0.17	1.5	U
961-11-5	Tetrachlorvinphos (Stirophos)	0.12	0.12	3.5	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>M-111AB</u>
Lot/SDG Number:	<u>8304609</u>	Lab Sample ID:	<u>D9G010276-001</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>LFX9W1AA</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/29/09 09:55</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/01/09 09:00</u>
Analysis Method:	<u>8141A</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/01/09 15:25</u>
QC Batch ID:	<u>9182412</u>	Date/Time Analyzed:	<u>07/08/09 03:59</u>
Sample Aliquot:	<u>1057 mL</u>	Instrument ID:	<u>D2</u>
Dilution Factor:	<u>1</u>		

CAS No.	Analyte	Cone.	MDL	RL	Q
297-97-2	Thionazin	0.31	0.31	1.0	U
34643-46-4	Tokuthion	0.12	0.12	1.6	U
327-98-0	Trichloronate	0.24	0.24	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	77	60	154	
24934-91-6	Chlormefos	60	49	171	

Northgate Environmental Management, Inc.**Analysis Data Sheet**

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>EB062909-GW</u>
Lot/SDG Number:	<u>8304609</u>	Lab Sample ID:	<u>D9G010276-002</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>LFX901AA</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/29/09 11:25</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/01/09 09:00</u>
Analysis Method:	<u>8141A</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/01/09 15:25</u>
QC Batch ID:	<u>9182412</u>	Date/Time Analyzed:	<u>07/08/09 04:27</u>
Sample Aliquot:	<u>1053 mL</u>	Instrument ID:	<u>D2</u>
Dilution Factor:	<u>1</u>		

CAS No.	Analyte	Conc.	MDL	RL	Q
86-50-0	Azinphos-methyl	0.17	0.17	2.5	U
35400-43-2	Bolstar	0.31	0.31	1.0	U
2921-88-2	Chlorpyrifos	0.36	0.36	1.0	U
56-72-4	Coumaphos	0.14	0.14	1.0	U
298-03-3	Demeton-O	0.14	0.14	1.0	U
126-75-0	Demeton-S	0.069	0.069	1.0	U
333-41-5	Diazinon	0.15	0.15	1.0	U
62-73-7	Dichlorvos	0.16	0.16	1.0	U
60-51-5	Dimethoate	0.45	0.45	1.5	U
298-04-4	Disulfoton	0.32	0.32	1.0	U
2104-64-5	EPN	0.15	0.15	1.2	U
13194-48-4	Ethoprop	0.18	0.18	0.50	U
56-38-2	Ethyl parathion	0.14	0.14	1.0	U
52-85-7	Famphur	0.18	0.18	1.0	U
115-90-2	Fensulfothion	0.54	0.54	2.5	U
55-38-9	Fenthion	0.15	0.15	2.5	U
121-75-5	Malathion	0.13	0.13	1.2	U
150-50-5	Merphos	0.17	0.17	5.0	U
298-00-0	Methyl parathion	0.14	0.14	4.0	U
7786-34-7	Mevinphos	0.46	0.46	6.2	U
300-76-5	Naled	0.25	0.25	1.0	U
298-02-2	Phorate	0.15	0.15	1.2	U
299-84-3	Ronnel	0.12	0.12	10	U
3689-24-5	Sulfotep	0.17	0.17	1.5	U
961-11-5	Tetrachlorvinphos (Stirophos)	0.12	0.12	3.5	U

Northgate Environmental Management, Inc.**Analysis Data Sheet**

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>EB062909-GW</u>
Lot/SDG Number:	<u>8304609</u>	Lab Sample ID:	<u>D9G010276-002</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>LFX901AA</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/29/09 11:25</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/01/09 09:00</u>
Analysis Method:	<u>8141A</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/01/09 15:25</u>
QC Batch ID:	<u>9182412</u>	Date/Time Analyzed:	<u>07/08/09 04:27</u>
Sample Aliquot:	<u>1053 mL</u>	Instrument ID:	<u>D2</u>
Dilution Factor:	<u>1</u>		

CAS No.	Analyte	Cone.	MDL	RL	Q
297-97-2	Thionazin	0.31	0.31	1.0	U
34643-46-4	Tokuthion	0.12	0.12	1.6	U
327-98-0	Trichloronate	0.24	0.24	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	85	60	154	
24934-91-6	Chlormefos	60	49	171	

Northgate Environmental Management, Inc.**Analysis Data Sheet**

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: 8304609
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9182412
Sample Aliquot: 1000 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9G010000-412B
Lab WorkOrder: LF0FF1AA
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 07/01/09 15:25
Date/Time Analyzed: 07/08/09 02:37
Instrument ID: D2

CAS No.	Analyte	Conc.	MDL	RL	Q
62-73-7	Dichlorvos	0.16	0.16	1.0	U
297-97-2	Thionazin	0.31	0.31	1.0	U
60-51-5	Dimethoate	0.45	0.45	1.5	U
298-04-4	Disulfoton	0.32	0.32	1.0	U
2104-64-5	EPN	0.15	0.15	1.2	U
13194-48-4	Ethoprop	0.18	0.18	0.50	U
52-85-7	Famphur	0.18	0.18	1.0	U
115-90-2	Fensulfothion	0.54	0.54	2.5	U
55-38-9	Fenthion	0.15	0.15	2.5	U
121-75-5	Malathion	0.13	0.13	1.2	U
150-50-5	Merphos	0.17	0.17	5.0	U
298-00-0	Methyl parathion	0.14	0.14	4.0	U
86-50-0	Azinphos-methyl	0.17	0.17	2.5	U
7786-34-7	Mevinphos	0.46	0.46	6.2	U
300-76-5	Naled	0.25	0.25	1.0	U
56-38-2	Ethyl parathion	0.14	0.14	1.0	U
298-02-2	Phorate	0.15	0.15	1.2	U
299-84-3	Ronnel	0.12	0.12	10	U
3689-24-5	Sulfotepp	0.17	0.17	1.5	U
34643-46-4	Tokuthion	0.12	0.12	1.6	U
327-98-0	Trichloronate	0.24	0.24	1.0	U
35400-43-2	Bolstar	0.31	0.31	1.0	U
961-11-5	Tetrachlorvinphos (Stirophos)	0.12	0.12	3.5	U
2921-88-2	Chlorpyrifos	0.36	0.36	1.0	U
56-72-4	Coumaphos	0.14	0.14	1.0	U
298-03-3	Demeton-O	0.14	0.14	1.0	U
126-75-0	Demeton-S	0.069	0.069	1.0	U
333-41-5	Diazinon	0.15	0.15	1.0	U

Northgate Environmental Management, Inc.**Analysis Data Sheet**

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: 8304609 Lab Sample ID: D9G010000-412B
Matrix: WATER Lab WorkOrder: LF0FF1AA
% Moisture:
Basis: Wet Date/Time Collected:
Analysis Method: 8141A Date/Time Received:
Unit: ug/L Date Leached:
QC Batch ID: 9182412 Date/Time Extracted: 07/01/09 15:25
Sample Aliquot: 1000 mL Date/Time Analyzed: 07/08/09 02:37
Dilution Factor: 1 Instrument ID: D2

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	83	60	154	
24934-91-6	Chlormefos	55	49	171	

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Northgate Environmental Management, Inc.

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER Extraction I09P29H
Lot/SDG Number: 8304609 QC Batch ID: 9182412

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
INTRA-LAB BLANK	LF0FF1AA	55	83							0
CHECK SAMPLE	LF0FF1AC	81	73							0
DUPLICATE CHECK	LF0FF1AD	115	83							0
EB062909-GW	LFX901AA	60	85							0
M-111AB	LFX9W1AA	60	77							0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	Chlormefos	49	171
SRG 2	Triphenyl phosphate	60	154

Northgate Environmental Management, Inc.
Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
 Lot/SDG Number: 8304609
 Matrix: WATER
 % Moisture: N/A
 Basis: Wet
 Analysis Method: 8141A
 Unit: ug/L
 QC Batch ID: 9182412
 Sample Aliquot: 1000 mL
 Dilution Factor: 1

Client Sample ID:
 Lab Sample ID: D9G010000-412C
 Lab WorkOrder: LF0FF1AC
 Date/Time Collected:
 Date/Time Received:
 Date Leached:
 Date/Time Extracted: 07/01/09 15:25
 Date/Time Analyzed: 07/08/09 03:05
 Instrument ID: D2

Analyte	True	Found	%Rec	Q	Limits
Dichlorvos	4.00	3.64	91		40 - 193
Thionazin	4.00	3.05	76		39 - 180
Dimethoate	4.00	2.72	68		33 - 139
Disulfoton	4.00	3.01	75		44 - 139
Ethoprop	4.00	3.35	84		43 - 165
Famphur	8.00	6.25	78		51 - 131
Fensulfothion	4.00	2.52	63		46 - 115
Fenthion	4.00	2.92	73		63 - 128
Malathion	4.00	2.69	67		53 - 137
Methyl parathion	4.00	3.41	85		55 - 131
Azinphos-methyl	4.00	2.95	74		42 - 125
Mevinphos	4.00	2.70	67		39 - 175
Ethyl parathion	4.00	3.10	77		47 - 142
Phorate	4.00	2.49	62		46 - 142
Ronnel	4.00	2.87	72		43 - 115
Sulfotep	4.00	2.85	71		29 - 166
Trichloronate	4.00	2.80	70		60 - 115
Chlorpyrifos	4.00	3.07	77		60 - 120
Coumaphos	4.00	3.12	78		61 - 115
Diazinon	4.00	2.80	70		47 - 149

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	73	60	154	
24934-91-6	Chlormefos	81	49	171	

Northgate Environmental Management, Inc.

Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: 8304609
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 8141A
Unit: ug/L
QC Batch ID: 9182412
Sample Aliquot: 1000 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9G010000-412L
Lab WorkOrder: LF0FF1AD
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 07/01/09 15:25
Date/Time Analyzed: 07/08/09 03:32
Instrument ID: D2

Analyte	True	Found	C	% Rec	Q	RPD	Q	QC Limits	
								% Rec	RPD
Dichlorvos	4.00	5.08		127		33		40 - 193	49
Thionazin	4.00	3.77		94		21		39 - 180	40
Dimethoate	4.00	3.23		81		17		33 - 139	50
Disulfoton	4.00	3.63		91		19		44 - 139	40
Ethoprop	4.00	4.09		102		20		43 - 165	36
Famphur	8.00	6.88		86		9.5		51 - 131	88
Fensulfothion	4.00	3.14		79		22		46 - 115	62
Fenthion	4.00	3.45		86		17		63 - 128	41
Malathion	4.00	3.23		81		18		53 - 137	28
Methyl parathion	4.00	3.80		95		11		55 - 131	30
Azinphos-methyl	4.00	3.46		86		16		42 - 125	36
Mevinphos	4.00	3.76		94		33		39 - 175	40
Ethyl parathion	4.00	3.58		90		15		47 - 142	40
Phorate	4.00	2.85		71		14		46 - 142	40
Ronnel	4.00	3.49		87		20		43 - 115	39
Sulfotepp	4.00	3.43		86		18		29 - 166	40
Trichloronate	4.00	3.36		84		18		60 - 115	38
Chlorpyrifos	4.00	3.51		88		13		60 - 120	34
Coumaphos	4.00	3.47		87		11		61 - 115	43
Diazinon	4.00	3.42		85		20		47 - 149	40

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
115-86-6	Triphenyl phosphate	83	60	154	
24934-91-6	Chlormefos	115	49	171	

Method Blank Summary

Lab Name:	<u>TESTAMERICA DENVER</u>	Lab File ID:	<u>017F1701</u>
Lot/SDG Number:	<u>8304609</u>	Lab Sample ID:	<u>D9G010000-412B</u>
Matrix:	<u>WATER</u>	Lab Work Order:	<u>LF0FF1AA</u>
Analysis Method:	<u>8141A</u>	Date/Time Extracted:	<u>07/01/09 15:25</u>
Extraction Method:	<u>I09P29H</u>	Date/Time Analyzed:	<u>07/08/09 02:37</u>
QC Batch ID:	<u>9182412</u>	Instrument ID:	<u>D2</u>

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
CHECK SAMPLE	LF0FF1AC C	017F1701.	07/08/09	03:05
DUPLICATE CHECK	LF0FF1AD L	018F1801.	07/08/09	03:32
EB062909-GW	LFX901AA	020F2001.	07/08/09	04:27
M-111AB	LFX9W1AA	019F1901.	07/08/09	03:59

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Calibration File Names:

Level 1: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\009F0901.D
 Level 2: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\008F0801.D
 Level 3: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\007F0701.D
 Level 4: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\006F0601.D
 Level 5: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\005F0501.D
 Level 6: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\004F0401.D
 Level 7: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\003F0301.D

SEE CALIBRATION HISTORY

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6				
1. o,o,o-TRPT	3.11591	2.63737	2.67945	2.89676	2.71623	2.90430			2.81778	5.91149
	2.77446						AVRG			
2. Dichlorvos	2.01706	1.62225	1.58545	1.76366	1.71981	1.74982			1.74977	7.99554
	1.79032						AVRG			
3. Mevinphos	1.01774	0.91295	0.90158	1.01760	0.95159	0.98250			0.96118	4.85992
	0.94429						AVRG			
5. Thionazin	2.12707	1.94606	1.94866	2.08214	1.96051	2.0095			1.99965	3.79705
	1.93224						AVRG			

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\Densvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	level 3	Level 4	level 5	Level 6			m1	
5.0000										
Level 7										
6 Demeton-O	9836	17553	30145	62341	9604	113108	WLINR	-0.01288	1.85831	0.99594
7 Ethoprop	1.93480	1.70823	1.62324	1.73203	1.74110	1.78272	AVRG	-	1.75235	5.38512
8 Naled	1.9921	6103	15042	36940	67594	90892	WLINR	-0.09632	0.47378	0.98961
10 Sulfotetpp	34658	70885	131347	259970	393078	486417	WLINR	-0.03459	2.43574	0.99856
11 Phorate	2.02801	1.82946	1.73795	1.82370	1.76374	1.79146	AVRG	-	1.81476	5.60901
12 Dimethoate	1.89561	1.76866	2.07434	2.25696	2.23554	2.30994	AVRG	-	2.10815	9.72697
13 Demeton-S	1.49306	1.46224	1.49173	1.58543	1.55216	1.58919	AVRG	-	1.52869	3.21407
	1.52702									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISRD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	
5.0000										
Level 7										
14 Simazine	4819	16248	29382	64611	11526	147784	WTINR	0.03988	0.73140	0.99336
15 Atrazine	0.79185	0.76532	0.75073	0.84628	0.85434	0.90844	AVRG	0.81743		9.61085
16 propazine	0.73887	0.70136	0.69239	0.78178	0.75651	0.81417	AVRG	0.75424		6.13423
17 Disulfoton	15404	33208	61920	127893	193050	247845	WTINR	-0.01928	1.20917	0.99576
18 Diazinon	2.20234	1.83553	1.83772	2.01856	1.98776	1.84115	AVRG		1.94942	6.88114
19 Methyl Parathion	1.22644	1.10389	1.13741	1.32395	1.30344	1.29586	AVRG		1.23630	6.92144
20 Ronnel	1.42863	1.23369	1.21320	1.29342	1.24446	1.34650	AVRG		1.27796	6.65504

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INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method File : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A~1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.1

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			mL	
	5.0000									
	Level 7									
21 Malathion	15443	30581	57103	119836	186013	228260	WLINR	-0.02066	1.14436	0.99783
	283462									
22 Fenthion	1.46442	1.18458	1.16481	1.29096	1.25584	1.25506	AVRG		1.25674	8.19381
	1.18151									
23 Parathion	1.42438	1.25387	1.23322	1.38998	1.36708	1.35514	AVRG		1.33749	5.43501
	1.31279									
24 Chloryrifos	1.85614	1.56747	1.47379	1.62915	1.61527	1.62330	AVRG		1.61818	7.28314
	1.56216									
25 Trichloronate	1.44751	1.42551	1.34762	1.48171	1.46256	1.52450	AVRG		1.44624	3.78186
	1.43428									
26 Anilazine	1493	2095	5311	12790	19893	29375	QUAD	0.02107	9.16488	-8.66056
	+++++									
27 Morphos-A (Morphos)	1.24844	1.15527	1.15966	1.23989	1.21263	1.24469	AVRG		1.20654	3.30523
	1.18648									

Testamerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	level 3	level 4	Level 5	Level 6		m1	m2	or R^2
	5.0000									
	Level 7									
28 Tetrachlorvinphos (Stirophos)	0.76814	0.74606	0.73464	0.83451	0.85233	0.85150	AVRG		0.80195	6.32809
	0.82648									
29 Tokuthion	1.50255	1.28283	1.29501	1.44234	1.39452	1.40891	AVRG		1.38639	5.62055
	1.37817									
30 Morphos-B (Morphos Oxone)	3.884	7933	11676	34113	50056	65974	WLINR	0.01044	0.32634	0.98820
	79839									
31 Carbophenothion-methyl	14924	30542	55023	105571	167145	206137	WLINR	-0.03349	1.03813	0.99979
	266724									
32 Fensulfothion	83191	23000	51304	104440	185778	229856	WLINR	0.04728	1.18751	0.99821
	295978									
33 Bolstar / Famphur	1.54988	1.27794	1.32328	1.33835	1.27633	1.28540	AVRG		1.32532	7.86825
	1.23307									
34 Carbophenothion	1.57916	1.19992	1.27687	1.32336	1.26122	1.41398	AVRG		1.33059	9.63398
	1.25956									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method File : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.1

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	±RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R ²
	5.0000									
	Level 7									
36 Phosmet	1.22087	1.01385	1.11032	1.20586	1.12340	1.16129	AVRG		1.13890	6.04111
	1.13672									
37 EPN	9525	23195	48705	111165	171283	220388	WLNR	0.02456	1.11450	0.99317
	284020									
38 Azimphos-methyl	1.19565	1.13516	1.16767	1.28235	1.23551	1.26700	AVRG		1.21360	4.33999
	1.21185									
40 Azimphos-ethyl	23154	43578	74071	134607	209571	253982	WLNR	-0.07409	1.26388	0.99928
	318459									
41 Coumaphos	1.00140	0.89806	0.92250	1.01947	1.01017	1.01013	AVRG		0.97884	4.92558
	0.99015									
S 42 Morphos	1.61523	1.45962	1.38820	1.59026	1.52873	1.58626	AVRG		1.52393	5.34513
	1.49925									
M 43 Total Demeton	1.94415	1.66775	1.60440	1.71838	1.6674	1.66727	AVRG		1.70696	6.44185
	1.68503									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	m1	m2	%RSD or R^2
	level 1	level 2	level 3	level 4	level 5	level 6						
\$ 4 Chlormefos	5.0000											
	2.28223	2.03679	2.00000	2.26084	2.35620	2.24671						
	2.15521						AVRG			2.19114		6.04132
\$ 35 Triphenyl phosphate	1.09980	0.99217	0.96971	1.05450	0.99627	1.00900						
	0.95665						AVRG			1.01117		4.94580

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
Last Edit : 30-Jun-2009 12:45 GC_D2.i

Curve	Formula	Units
Averaged	Am = Rsp/ml	Response
WT Linear	Am = b + Rsp/ml	Response
Quad	Am = b + m1*Rsp + m2*Rsp^2	Response

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Start Cal Date: 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
26-JUN-2009 21:13	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
26-JUN-2009 20:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
26-JUN-2009 20:18	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
26-JUN-2009 19:50	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
26-JUN-2009 19:23	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
26-JUN-2009 18:55	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
26-JUN-2009 18:28	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

26-JUN-2009 21:40	8141A	
		\\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\010F1001.D
26-JUN-2009 19:50	8141A	
		\\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\006F0601.D
26-JUN-2009 19:23	8141A	
		\\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\005F0501.D

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Calibration File Names:

Level 1: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\009F0901.D
 Level 2: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\008F0801.D
 Level 3: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\007F0701.D
 Level 4: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\006F0601.D
 Level 5: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\005F0501.D SEE CALIBRATION HISTORY
 Level 6: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\004F0401.D
 Level 7: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\003F0301.D

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD or R^2
	level 1	level 2	level 3	level 4	level 5	level 6			ml	
1,0,0,0-TEPT	5.0000									
2 Dichlorvos	2.92648	2.44243	2.35582	2.65851	2.57132	2.61478	AVRG	2.56691	7.02274	
4 Mavinphos	1.98421	1.82228	1.84036	2.17503	2.12732	2.04712	AVRG	2.04995	7.32345	
5 Demeton-O	1.43354	1.24995	1.21811	1.44363	1.32123	1.40873	AVRG	1.35067	7.12634	
	1.43354									
	1.19821	1.29971	1.18493	1.34261	1.38930	1.37760	AVRG	1.29658	6.26552	
	1.29370									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : 1STD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%SD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
1 compound	5.0000									
2	Level 7									
3										
4										
5 Rhionazin	2.15838	1.84195	1.93751	1.98059	2.09762	2.20076	AVRG	3.03479	6.19054	
6	2.03673									
7 Ethoprop	1.70034	1.41105	1.44674	1.51565	1.56615	1.54046	AVRG	1.52044	6.33190	
8	1.46268									
9 Phorate	1.89356	1.60276	1.58391	1.69691	1.82591	1.99241	AVRG	1.76315	8.53946	
10	1.74661									
11 Maled	94.00000	1666	10859	28010	46004	58330	WLNR	0.13436	0.49080	0.99248
12	78857									
13 Sulfotep	2.79835	2.53605	2.59328	2.75080	2.67397	2.68532	AVRG	2.65923	3.59851	
14	2.57687									
15 Simazine	0.36415	0.34683	0.35351	0.38559	0.39087	0.41510	AVRG	0.38085	7.05346	
16	0.41001									
17 Diazinon	12067	15923	49407	98649	155648	181790	WLNR	0.01456	1.44446	0.99190
18	228810									

X

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
	5.0000									
	Level 7									
14 Atrazine	5427	1231	21316	49088	85957	98759	LINR	0.11621	0.83396	0.99221
15 Propazine	128612									
	4880	8102	20907	43235	72628	85745	WLINR	0.02310	0.68050	0.99492
16 Disulfoton	1.37843	1.32983	1.36835	1.41433	1.46581	1.46415	AVRG		1.40239	3.56764
17 Demeton-S	667	15766	33785	70921	121463	157195	WLINR	0.05954	1.76807	0.99272
18 Dimebroate	1.93513	1.88284	1.72920	1.81890	1.98388	1.88204	AVRG		1.87955	4.46688
19 Ronnel	1.92489									
	1.49381	1.09752	1.14631	1.23377	1.29336	1.31702	AVRG		1.25513	10.15653
20 Morphos-A (Morphos)	0.73714	0.72841	0.76463	0.71117	0.75339	0.75359	AVRG		0.72472	6.56840

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISID
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%ESD
	level 1	Level 2	Level 3	level 4	level 5	Level 6		ml	m2	or R^2
21 Chloryrifos	5.0000									
	level 7									
22 Fenthion	1.28253	1.15885	1.24944	1.20702	1.32365	1.38773	AVRG	1.28319	6.60140	
	1.37311									
23 Trichloronate	1.20874	1.15890	1.17283	1.16181	1.25398	1.18815	AVRG	1.19016	2.76871	
	1.18668									
24 Anilazine	6944	26053	49357	106326	170976	208762	WLINR	0.05263	1.73863	0.99738
	296442									
25 Methyl Parathion	1634	2255	3581	6899	11039	13112	LINR	-0.0058	0.10979	0.99085
	19108									
26 Malathion	1.21391	1.12059	1.22102	1.33829	1.35198	1.32937	AVRG	1.28489	8.00353	
	1.41908									
27 Tokuthion	1.23986	1.19694	1.15056	1.17724	1.17540	1.20726	AVRG	1.20369	3.60449	
	1.27856									
	1.50291	1.31056	1.35261	1.35076	1.45106	1.48916	AVRG	1.40933	5.28420	
	1.40826									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			mL	
28 Parathion	1.27111	1.15628	1.24872	1.23420	1.30817	1.35972	AVRG		1.26610	5.02432
29 Mephos-B (Mephos Oxone)	3793	6271	15065	23458	40683	62127	WTLN.R	-0.05169	0.21659	0.96366
30 Tetrachlormephos (stirophos)	0.86036	0.73114	0.73243	0.80291	0.86664	0.87311	AVRG		0.81902	7.82425
31 Carbophenothion methyl	1.15513	1.02032	1.04699	1.17159	1.27108	1.26831	AVRG		1.17392	9.08251
32 Bolstar	1.33280	1.22387	1.19075	1.20501	1.27262	1.22830	AVRG		1.23655	4.05030
33 Carbophenothion	1.18442	1.13595	1.15332	1.18001	1.34689	1.22912	AVRG		1.21593	6.21486
35 Pensulfotion	0.88346	0.80409	0.88036	0.97346	0.94597	1.00424	AVRG		0.91615	7.30438

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\gcs\GC_D2.i\0626092.B\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.2000000	0.5000000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD	or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			ml	m2	
	5.0000										
	Level 7										
37 Phosmet / EPN	1.9707	35826	68186	146012	207459	263504	WLINR	-0.04262	1.00518	0.99785	X
38 Fampur	1.45536	1.20800	1.18770	1.39816	1.20947	1.39559	AVRG		1.31178	8.35158	
39 Azinphos-methyl	1.25589	1.08970	1.07858	1.30240	1.20427	1.27709	AVRG		1.19999	7.33978	
40 Azinphos-ethyl	1.14013	1.11628	1.12015	1.18786	1.16269	1.14594	AVRG		1.14286	2.23350	
41 Coumaphos	0.78930	0.81655	0.85887	0.90448	0.89897	0.94628	AVRG		0.87871	6.77030	X
S 42 Morphos	1.56460	1.43887	1.64263	1.66880	1.73437	1.91559	AVRG		1.66882	8.85773	
M 43 Total Demeton	3.533	23328	47171	190663	168375	213468	WLINR	0.05780	1.63923	0.99469	X

TestAmerica

INITIAL CALIBRATION DATA

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Start Cal Date : 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DensSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Last Edit : 30-Jun-2009 12:58 GC_D2.i

```

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	ml	m2	or R^2	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
\$ 3 chloromefos												
	2.19505	1.83698	1.78322	2.03418	2.29040	2.05385						
	2.04016						AVRG				8.83890	
\$ 34 triphenyl phosphate												
	1.10969	0.86972	0.91132	1.07710	1.01080	0.99885						
	1.00703						AVRG				8.47904	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Last Edit : 30-Jun-2009 12:58 GC_D2.i

Curve	Formula	Units
Averaged	Ant = Rsp/ml	Response
Linear	Ant = b + Rsp/ml	Response
WT Linear	Ant = b + Rsp/ml	Response

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Start Cal Date: 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
26-JUN-2009 21:13	8141A	
		\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
26-JUN-2009 20:45	8141A	
		\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
26-JUN-2009 20:18	8141A	
		\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
26-JUN-2009 19:50	8141A	
		\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
26-JUN-2009 19:23	8141A	
		\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
26-JUN-2009 18:55	8141A	
		\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
26-JUN-2009 18:28	8141A	
		\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

26-JUN-2009 21:40	8141A	
		\\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\010F1001.D
26-JUN-2009 19:50	8141A	
		\\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\006F0601.D
26-JUN-2009 19:23	8141A	
		\\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\005F0501.D

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.0000	2.0577	2.9	15.0
2 Dichlorvos	2.0000	1.9061	4.7	15.0
3 Mevinphos	2.0000	1.6977	15.1	15.0 <-OK
4 Chlormefos	2.0000	1.7808	11.0	15.0
5 Thionazin	2.0000	1.9740	1.3	15.0
6 Demeton-O	0.6500	1.8707	187.8	15.0 <-OK, see total demeton
7 Ethoprop	2.0000	2.0536	2.7	15.0
8 Naled	2.0000	1.1983	40.1	15.0 <-
9 Sulfotepp	2.0000	1.7932	10.3	15.0
10 Phorate	2.0000	2.0180	0.9	15.0
11 Dimethoate	2.0000	2.0859	4.3	15.0
12 Demeton-S	1.3600	0.2313	83.0	15.0 <-OK, see total demeton
13 Simazine	2.0000	2.6218	31.1	15.0 <-
14 Atrazine	2.0000	1.9566	2.2	15.0
15 propazine	2.0000	1.9127	4.4	15.0
17 Disulfoton	2.0000	1.5890	20.6	15.0 <-
16 Diazinon	2.0000	2.1583	7.9	15.0
18 Methyl Parathion	2.0000	2.0404	2.0	15.0
19 Ronnel	2.0000	2.1513	7.6	15.0
20 Malathion	2.0000	1.6248	18.8	15.0 <-
21 Fenthion	2.0000	1.8840	5.8	15.0
22 Parathion	2.0000	1.9436	2.8	15.0
23 Chlorpyrifos	2.0000	1.9720	1.4	15.0
24 Trichloronate	2.0000	1.8619	6.9	15.0
25 Anilazine	2.0000	1.0151	49.2	15.0 <-
148 Merphos-A (Merphos)	2.0000	0.4078	79.6	999.0
26 Tetrachlorvinphos (Stirophos)	2.0000	2.0880	4.4	15.0
28 Tokuthion	2.0000	2.0254	1.3	15.0
149 Merphos-B (Merphos Oxone)	2.0000	6.6232	231.2	999.0
29 Carbophenothion-methyl	2.0000	1.3536	32.3	15.0 <-
29 Pensulfothion	2.0000	1.9235	3.8	15.0
30 Bolstar / Famphur	4.0000	4.0636	1.6	15.0
32 Carbophenothion	2.0000	1.8639	6.8	15.0
31 Triphenyl phosphate	2.0000	1.7170	14.2	15.0
34 Phosmet	2.0000	1.6471	17.6	15.0 <-
32 EPN	2.0000	1.7931	10.3	15.0
33 Azinphos-methyl	2.0000	1.9226	3.9	15.0
35 Azinphos-éthyl	2.0000	1.8331	8.3	15.0
36 Coumaphos	2.0000	2.0063	0.3	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B/010F1001.D
Report Date: 06/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
27 Morphos	2.0000	1.7215	13.9	15.0
40 Total Demeton	2.0000	2.1021	5.1	15.0

Average %D = 23.4

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.0000	2.0069	0.3	15.0
2 Dichlorvos	2.0000	1.7707	11.5	15.0
3 Chlormefos	2.0000	1.6957	15.2	15.0 <-OK
4 Mevinphos	2.0000	1.8364	8.2	15.0
5 Demeton-O	0.6500	2.0472	215.0	15.0 <-OK, see total demeton
6 Thionazin	2.0000	1.8758	6.2	15.0
7 Ethoprop	2.0000	1.8962	5.2	15.0
8 Phorate	2.0000	1.9509	2.5	15.0
10 Maled	2.0000	1.0406	47.6	15.0 <-
146 Sulfotepp	2.0000	1.7143	14.3	15.0
10 Simazine	2.0000	3.6013	80.1	15.0 <-
12 Diazinon	2.0000	2.0803	4.0	15.0
150 Atrazine	2.0000	1.9693	1.5	15.0
13 Propazine	2.0000	1.8742	6.3	15.0
14 Disulfoton	2.0000	1.6970	15.1	15.0 <-OK
15 Demeton-S	1.3600	0.2011	85.2	15.0 <-OK, see total demeton
16 Dimethoate	2.0000	1.8701	6.5	15.0
17 Ronnel	2.0000	2.0112	0.6	15.0
148 Merphos-A (Morphos)	2.0000	0.5348	73.3	999.0
18 Chlorpyrifos	2.0000	2.1084	5.4	15.0
19 Fenthion	2.0000	2.0634	3.2	15.0
20 Trichloronate	2.0000	1.8617	6.9	15.0
21 Anilazine	2.0000	1.2425	37.9	15.0 <-
23 Methyl Parathion	2.0000	2.0228	1.1	15.0
24 Malathion	2.0000	1.5362	23.2	15.0 <-
25 Tokuthion	2.0000	1.8925	5.4	15.0
26 Parathion	2.0000	2.1337	6.7	15.0
149 Merphos-B (Morphos Oxone)	2.0000	5.0080	150.4	999.0
27 Tetrachlorvinphos (stirophos)	2.0000	2.0814	4.1	15.0
28 Carbophenothion methyl	2.0000	1.2466	37.7	15.0 <-
28 Bolstar	2.0000	2.0778	3.9	15.0
30 Carbophenothion	2.0000	1.7496	12.5	15.0
29 Triphenyl phosphate	2.0000	1.7275	13.6	15.0
30 Fensulfothion	2.0000	2.0824	4.1	15.0
35 Phosmet / EPN	4.0000	3.4695	13.3	15.0
33 Famphur	2.0000	1.7579	12.1	15.0
34 Azinphos-methyl	2.0000	1.8108	9.5	15.0
35 Azinphos-ethyl	2.0000	1.7982	10.1	15.0
36 Coumaphos	2.0000	1.9588	2.1	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B/010F1001.D
Report Date: 06/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
22 Morphos	2.0000	1.6146	19.3	15.0 <-
40 Total Demeton	2.0000	2.2483	12.4	15.0

Average %D = 24.2

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B/004F0401.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D2.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
1 o,o,o-TEPT	2.5000	2.3801	4.8	15.0
2 Dichlorvos	2.5000	2.4145	3.4	15.0
3 Mevinphos	2.5000	2.4680	1.3	15.0
4 Chlormefos	2.5000	2.7923	11.7	15.0
5 Thionazin	2.5000	2.4505	2.0	15.0
6 Demeton-O	0.8125	0.8579	5.6	15.0
7 Ethoprop	2.5000	2.7316	9.3	15.0
8 Naled	2.5000	3.6112	44.4	15.0 <-
9 Sulfotep	2.5000	2.5992	4.0	15.0
10 Phorate	2.5000	2.5677	2.7	15.0
11 Dimethoate	2.5000	2.8221	12.9	15.0
12 Demeton-S	1.7000	1.7242	1.4	15.0
13 Simazine	2.5000	2.8153	12.6	15.0
14 Atrazine	2.5000	2.7425	9.7	15.0
15 propazine	2.5000	2.5384	1.5	15.0
17 Disulfoton	2.5000	2.4886	0.5	15.0
16 Diazinon	2.5000	2.4844	0.6	15.0
18 Methyl Parathion	2.5000	2.7969	11.9	15.0
19 Ronnel	2.5000	2.3151	7.4	15.0
20 Malathion	2.5000	2.5578	2.3	15.0
21 Fenthion	2.5000	2.5020	0.1	15.0
22 Parathion	2.5000	2.6951	7.8	15.0
23 Chlorpyrifos	2.5000	2.5461	1.8	15.0
24 Trichlorfonate	2.5000	2.5016	0.1	15.0
25 Anilazine	2.5000	2.8213	12.9	15.0
148 Morphos-A (Morphos)	2.5000	2.2859	8.6	999.0
26 Tetrachlorvinphos (Stirophos)	2.5000	2.5382	1.5	15.0
28 Tokuthion	2.5000	2.5521	2.1	15.0
149 Morphos-B (Morphos Oxone)	2.5000	3.1859	27.4	999.0
29 Carbophenothion-methyl	2.5000	2.5256	1.0	15.0
29 Pensulfothion	2.5000	2.0589	17.6	15.0 <-
30 Bolstar / Famphur	5.0000	4.9826	0.3	15.0
32 Carbophenothion	2.5000	2.4923	0.3	15.0
31 Triphenyl phosphate	2.5000	2.5141	0.6	15.0
34 Phosmet	2.5000	2.6189	4.8	15.0
32 EPN	2.5000	2.7617	10.5	15.0
33 Azinphos-methyl	2.5000	2.6484	5.9	15.0
35 Azinphos-ethyl	2.5000	2.5066	0.3	15.0
36 Coumaphos	2.5000	2.5503	2.0	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B/004F0401.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	%D	MAX
27 Morphos	2.5000	2.4877	0.5	15.0	
40 Total Demeton	2.5000	2.5821	3.3	15.0	

Average %D = 6.32

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D2.i
Job File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	%D	MAX
1 o,o,o-TEPT	2.5000	2.4400	2.4	15.0	
2 Dichlorvos	2.5000	2.4117	3.5	15.0	
3 Chlormefos	2.5000	2.4017	3.9	15.0	
4 Mevinphos	2.5000	2.6786	7.1	15.0	
5 Demeton-O	0.8125	0.8298	2.1	15.0	
6 Thionazin	2.5000	2.5529	2.1	15.0	
7 Ethoprop	2.5000	2.4557	1.8	15.0	
8 Phorate	2.5000	2.4980	0.1	15.0	
10 Naled	2.5000	3.1000	24.0	15.0 <-	
146 Sulfotep	2.5000	2.5298	1.2	15.0	
10 Simazine	2.5000	2.3655	5.4	15.0	
12 Diazinon	2.5000	2.5530	2.1	15.0	
150 Atrazine	2.5000	2.6596	6.4	15.0	
13 Propazine	2.5000	2.5633	2.5	15.0	
14 Disulfoton	2.5000	2.5168	0.7	15.0	
15 Demeton-S	1.7000	1.6466	3.1	15.0	
16 Dimethoate	2.5000	2.5157	0.6	15.0	
17 Ronnel	2.5000	2.4456	2.2	15.0	
148 Morphos-A (Morphos)	2.5000	2.3011	8.0	999.0	
18 Chlorpyrifos	2.5000	2.3494	6.0	15.0	
19 Fenthion	2.5000	2.4193	3.2	15.0	
20 Trichloronate	2.5000	2.3667	5.3	15.0	
21 Anilazine	2.5000	3.4591	38.4	15.0 <-	
23 Methyl Parathion	2.5000	2.5392	1.6	15.0	
24 Malathion	2.5000	2.4454	2.2	15.0	
25 Tokuthion	2.5000	2.4300	2.8	15.0	
26 Parathion	2.5000	2.7066	8.3	15.0	
149 Morphos-B (Morphos Oxone)	2.5000	3.4149	36.6	999.0	
27 Tetrachlorvinphos (stirophos)	2.5000	2.6254	5.0	15.0	
28 Carbophenothion methyl	2.5000	2.3557	5.8	15.0	
28 Bolstar	2.5000	2.4788	0.8	15.0	
30 Carbophenothion	2.5000	2.5795	3.2	15.0	
29 Triphenyl phosphate	2.5000	2.5189	0.8	15.0	
30 Fensulfothion	2.5000	2.3196	7.2	15.0	
35 Phosmet / EPN	5.0000	5.0440	0.9	15.0	
33 Famphur	2.5000	2.3411	6.4	15.0	
34 Azinphos-methyl	2.5000	2.5077	0.3	15.0	
35 Azinphos-ethyl	2.5000	2.3177	7.3	15.0	
36 Coumaphos	2.5000	2.4326	2.7	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B/004F0401.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED	MEASURED	%D	%D	MAX
	CONC.	CONC.			
22 Merphos	2.5000	2.5014	0.1	15.0	
40 Total Demeton	2.5000	2.4764	0.9	15.0	

Average %D = 5.49

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B/021F2101.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED	MEASURED	%D	%D	MAX
	CONC.	CONC.			
1 o,o,o-TEPT	2.5000	2.0957	16.2	15.0 <-	
2 Dichlorvos	2.5000	2.3485	6.1	15.0	
3 Mevinphos	2.5000	2.2839	8.6	15.0	
4 Chlormefos	2.5000	2.2168	11.3	15.0	
5 Thionazin	2.5000	2.2691	9.2	15.0	
6 Demeton-O	0.8125	0.7832	3.6	15.0	
7 Ethoprop	2.5000	2.5209	0.8	15.0	
8 Naled	2.5000	2.9159	16.6	15.0 <-	
9 Sulfotepp	2.5000	2.4689	1.2	15.0	
10 Phorate	2.5000	2.4188	3.2	15.0	
11 Dimethoate	2.5000	2.5569	2.3	15.0	
12 Demeton-S	1.7000	1.6661	2.0	15.0	
13 Simazine	2.5000	2.6529	6.1	15.0	
14 Atrazine	2.5000	2.4986	0.1	15.0	
15 propazine	2.5000	2.3227	7.1	15.0	
17 Disulfoton	2.5000	2.4129	3.5	15.0	
16 Diazinon	2.5000	2.2665	9.3	15.0	
18 Methyl Parathion	2.5000	2.5382	1.5	15.0	
19 Ronnel	2.5000	2.1933	12.3	15.0	
20 Malathion	2.5000	2.4067	3.7	15.0	
21 Fenthion	2.5000	2.2915	8.3	15.0	
22 Parathion	2.5000	2.4513	1.9	15.0	
23 Chlorpyrifos	2.5000	2.3749	5.0	15.0	
24 Trichloronate	2.5000	2.3590	5.6	15.0	
25 Anilazine	2.5000	1.6167	35.3	15.0 <-	
148 Morphos-A (Morphos)	2.5000	2.0041	19.8	999.0	
26 Tetrachlorvinphos (Stirophos)	2.5000	2.3864	4.5	15.0	
28 Tokuthion	2.5000	2.3038	7.8	15.0	
149 Morphos-B (Morphos Oxone)	2.5000	3.5899	43.6	999.0	
29 Carbophenothion-methyl	2.5000	2.3435	6.3	15.0	
29 Fensulfothion	2.5000	2.1212	15.2	15.0 <-	
30 Bolstar / Famphur	5.0000	4.6803	6.4	15.0	
32 Carbophenothion	2.5000	2.5732	2.9	15.0	
31 Triphenyl phosphate	2.5000	2.3296	6.8	15.0	
34 Phosmet	2.5000	2.3603	5.6	15.0	
32 EPN	2.5000	2.4855	0.6	15.0	
33 Azinphos-methyl	2.5000	2.3383	6.5	15.0	
35 Azinphos-ethyl	2.5000	2.3396	6.4	15.0	
36 Coumaphos	2.5000	2.3572	5.7	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B/021F2101.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Job File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	%D	MAX
27 Morphos	2.5000	2.3511	6.0	15.0	
40 Total Demeton	2.5000	2.4493	2.0	15.0	

Average %D = 7.98

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B/021F2101.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D2.i
Lab File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	%D	MAX
1 o,o,o-TEPT	2.5000	2.3037	7.9	15.0	
2 Dichlorvos	2.5000	2.1228	15.1	15.0 <-	
3 Chlormefos	2.5000	2.2394	10.4	15.0	
4 Mevinphos	2.5000	2.4681	1.3	15.0	
5 Demeton-O	0.8125	0.7943	2.2	15.0	
6 Thionazin	2.5000	2.4365	2.5	15.0	
7 Ethoprop	2.5000	2.2272	10.9	15.0	
8 Phorate	2.5000	2.6787	7.1	15.0	
10 Naled	2.5000	2.5277	1.1	15.0	
146 Sulfotepp	2.5000	2.3702	5.2	15.0	
10 Simazine	2.5000	2.0855	16.6	15.0 <-	
12 Diazinon	2.5000	2.3382	6.5	15.0	
150 Atrazine	2.5000	2.3968	4.1	15.0	
13 Propazine	2.5000	2.2503	10.0	15.0	
14 Disulfoton	2.5000	2.3697	5.2	15.0	
15 Demeton-S	1.7000	1.5252	10.3	15.0	
16 Dimethoate	2.5000	2.4617	1.5	15.0	
17 Ronnel	2.5000	2.2334	10.7	15.0	
148 Merphos-A (Merphos)	2.5000	1.9678	21.3	999.0	
18 Chlorpyrifos	2.5000	2.3218	7.1	15.0	
19 Fenthion	2.5000	2.2406	10.4	15.0	
20 Trichloronate	2.5000	2.1378	14.5	15.0	
21 Anilazine	2.5000	2.1401	14.4	15.0	
23 Methyl Parathion	2.5000	2.5957	3.8	15.0	
24 Malathion	2.5000	2.6227	4.9	15.0	
25 Tokuthion	2.5000	2.3205	7.2	15.0	
26 Parathion	2.5000	2.5594	2.4	15.0	
149 Merphos-B (Merphos Oxone)	2.5000	3.5261	41.0	999.0	
27 Tetrachlorvinphos (stirophos)	2.5000	2.3986	4.1	15.0	
28 Carbophenothion methyl	2.5000	2.3825	4.7	15.0	
28 Bolstar	2.5000	2.3707	5.2	15.0	
30 Carbophenothion	2.5000	2.6830	7.3	15.0	
29 Triphenyl phosphate	2.5000	2.4182	3.3	15.0	
30 Fensulfothion	2.5000	2.2902	8.4	15.0	
35 Phosmet / EPN	5.0000	4.6533	6.9	15.0	
33 Famphur	2.5000	2.2054	11.8	15.0	
34 Azinphos-methyl	2.5000	2.2190	11.2	15.0	
35 Azinphos-ethyl	2.5000	2.3181	7.3	15.0	
36 Coumaphos	2.5000	2.3598	5.6	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B/021F2101.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC D2.i
Lab File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\07

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	%D	MAX
22 Morphos	2.5000	2.3257	7.0	15.0	
40 Total Demeton	2.5000	2.3195	7.2	15.0	

Average %D = 8.43

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmnt	Multiplier	Dilution
1	Vial 1	PRIMER				
2	Vial 2	HEXANE				
3	Vial 3	OPP L7 GSV0634				
4	Vial 4	OPP L6 GSV0637				
5	Vial 5	OPP L5 GSV0635				
6	Vial 6	OPP L4 GSV0638				
7	Vial 7	OPP L3 GSV0639				
8	Vial 8	OPP L2 GSV0640				
9	Vial 9	OPP L1 GSV0641				
10	Vial 10	OPP SS GSV0633				
11	Vial 11	GSV075309 SPK				
12	Vial 12	LE2931AA, MB				
13	Vial 13	LE2931AC, LCS				
14	Vial 14	LE2931AD, LCSD				
15	Vial 15	LEQA91AC, 222-15			10	
16	Vial 16	LEQA91AC, 222-15			3	
17	Vial 17	LEQCQ1AC, 222-18			2	
18	Vial 18	LERD61AD, 377-1				
19	Vial 19	LERD81AH, 377-3				
20	Vial 20	LERN71AF, 115-1				
21	Vial 21	LERPQ1AF, 115-2				
22	Vial 22	LERPX1AF, 115-3				
23	Vial 23	LE1F91AJ, 138-1				
24	Vial 24	OPP L5 GSV0635				
25	Vial 25	LE29M1AA, MB				
26	Vial 26	LE29M1AC, LCS				
27	Vial 27	LE29M1AD, LCSD				
28	Vial 28	LEQA91AA, 222-15			10	
29	Vial 29	LEQA91AA, 222-15			3	
30	Vial 30	LEQCQ1AA, 222-18			2	
31	Vial 31	LFARC1AA, MB				
32	Vial 32	LFARC1AC, LCS				
33	Vial 33	LFARC1AD, LCSD				
34	Vial 34	LEKLO2AA, 185-1				
35	Vial 35	LE29L1AA, MB				
36	Vial 36	LE29L1AC, LCS				
37	Vial 37	LE29L1AD, LCSD				
38	Vial 38	LERCV1AA, 370-1				
39	Vial 39	LEWJG1AA, 143-1				
40	Vial 40	OPP L5 GSV0635				
41	Vial 41	LE5PX1AA, MB				
42	Vial 42	LE5PX1AC, LCS				
43	Vial 43	LE5PX1AD, LCSD				
44	Vial 44	LE39F1AA, 179-1				
45	Vial 45	LE3PF1AA, 179-2				
46	Vial 46	LE39L1AA, 179-3				
47	Vial 47	LFARL1AA, MB				
48	Vial 48	LFARL1AC, LCS				
49	Vial 49	LFARL1AD, LCSD				
50	Vial 50	LEKLE2AE, 180-2				
51	Vial 51	LEKLF2AE, 180-3				
52	Vial 52	LEKLL2AE, 180-4				
53	Vial 53	LEKLO2AE, 180-5				
54	Vial 54	LENR72AD, 322-1				
55	Vial 55	LEPG32AJ, 161-1				
56	Vial 56	OPP L5 GSV0635				
57	Vial 57	LFD4N1AA, MB				
58	Vial 58	LFD4N1AC, LCS				

Line	Location	SampleName	SampleAmount	ISTDAmnt	Multiplier	Dilution
59	Vial 59	LFD4N1AD,LCSD				
60	Vial 60	LE3041AJ,158-1				
61	Vial 61	LFD4W1AA,MB				
62	Vial 62	LFD4W1AC,LCS				
63	Vial 63	LFD4W1AD,LCSD				
64	Vial 64	LE7EE1AA,266-2				
65	Vial 65	LE9Q61AA,216-2				
66	Vial 66	LE9RA1AA,216-3				
67	Vial 67	LFC4Q1AD,199-2				
68	Vial 68	OPP L5 GSV0635				
69	Vial 69	LFAN01AA,MB				
70	Vial 70	LFAN01AC,LCS				
71	Vial 71	LFAN01AD,LCSD				
72	Vial 72	LE4291AA,273-1				
73	Vial 73	LE4291AD,273-1S				
74	Vial 74	LE4291AE,273-1D				
75	Vial 75	LE9PJ1AA,215-1				
76	Vial 76	OPP L5 GSV0635				
77	Vial 77	OPP L1 GSV0641				
78	Vial 100	HEXANE/ACETONE				

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmnt	Multiplier	Dilution
1	Vial 1	PRIMER				
2	Vial 2	HEXANE				
3	Vial 3	OPP SS GSV0826				
4	Vial 4	OPP CCV GSV0827				
5	Vial 5	LF0E51AA, MB				
6	Vial 6	LF0E51AC, LCS				
7	Vial 7	LF0E51AD, LCSD				
8	Vial 8	LERN72AF, 115-1				
9	Vial 9	LERPQ2AF, 115-2				
10	Vial 10	LERPX2AF, 115-3				
11	Vial 11	LF0J71AA, MB				
12	Vial 12	LF0J71AC, LCS				
13	Vial 13	LF0J71AD, LCSD				
14	Vial 14	LF0FC1AA, 300-1				
15	Vial 15	LF0FE1AA, 300-2				
16	Vial 16	LF0FF1AA, MB				
17	Vial 17	LF0FF1AC, LCS				
18	Vial 18	LF0FF1AD, LCSD				
19	Vial 19	LFX9W1AA, 276-1				
20	Vial 20	LFX901AA, 276-2				
21	Vial 21	OPP CCV GSV0827				
22	Vial 22	LF20F1AA, MB				
23	Vial 23	LF20F1AC, LCS				
24	Vial 24	LF20F1AD, LCSD				
25	Vial 25	LF1JG1CX, 189-1				
26	Vial 26	LF1KV1C1, 189-3				
27	Vial 27	LF1K51C1, 189-5				
28	Vial 28	LF1LC1C1, 189-7				
29	Vial 29	LF1LF1C1, 189-9				
30	Vial 30	LF1LK1C1, 189-11				
31	Vial 31	LF1LN1C1, 189-13				
32	Vial 32	LF1LT1C1, 189-15				
33	Vial 33	LF1LW1C1, 189-17				
34	Vial 34	OPP CCV GSV0827				
35	Vial 2	HEXANE/ACETONE				

Sequence Table (Back Injector):

No entries - empty table!

TestAmerica
Total Metals
CLP-Like Forms

Lot ID: D9G010276

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Sample: 001

**Total Metals Analysis
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE**

Contract: Northgate Environmental Management, Inc.SDG No.: D9G010276

Lab Code: _____

Case No.: _____

SAS No.: _____

SOW No.: _____

Sample ID.M-111ABLab Sample No.D9G010276-001

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YESIf yes-were raw data generated before
application of background corrections?Yes/No NO

Comments:

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

Signature: Janice CollinsName: Janice CollinsDate: 7/13/09Title: Metals Analyst

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>M-111AB</u>
Lot/SDG Number:	<u>D9G010276</u>	Lab Sample ID:	<u>D9G010276-001</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>LFX9W</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/29/09 09:55</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/01/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187169</u>	Date/Time Analyzed:	<u>07/08/09 03:31</u>
Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
Dilution Factor:	<u>10</u>		

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	120	2.1	50	
7782-49-2	Selenium	7.0	7.0	50	U

Total Metals Analysis
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276

Initial Calibration Source: High Purity

Continuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic	40.0	39.9	99.8	50.0	50.0	100.0	49.4	98.8 M
Selenium	40.0	39.4	98.5	50.0	51.3	102.6	48.6	97.2 M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Total Metals Analysis
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276

Initial Calibration Source: High Purity

Continuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				50.0	48.3	96.6	49.3	98.6	M
Selenium				50.0	47.2	94.4	51.2	102.4	M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

**Total Metals Analysis
-2B-
CRDL STANDARD FOR AA AND ICP**

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G010276

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	Final	Found	%R
Arsenic				1.00	1.007	100.7	
Selenium				2.00		1.708	85.4

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: D9G010276 Lab Sample ID: D9G060000-169B
Matrix: WATER Lab WorkOrder: LE3X8
% Moisture:
Basis: Wet Date/Time Collected:
Analysis Method: 6020 Date/Time Received:
Unit: ug/L Date Leached:
QC Batch ID: 9187169 Date/Time Extracted: 07/07/09 06:00
Sample Aliquot: 50 mL Date/Time Analyzed: 07/08/09 03:25
Dilution Factor: 1 Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	0.21	0.21	5.0	U
7782-49-2	Selenium	0.70	0.70	5.0	U

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		
Arsenic	0.210	U	0.210	U	0.210	U	0.210	U	0.21	U
Selenium	0.700	U	0.700	U	0.700	U	0.700	U	0.70	U

Comments:

Total Metals Analysis

-3-

BLANKSContract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Arsenic			0.210	U							M
Selenium			0.700	U							M

Comments:

Total Metals Analysis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276ICP ID Number: Agilent 7500 ICS Source: Inorganic VenturesConcentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	100.0	0.16	101.20	101.2			
Selenium	0.0	100.0	-0.20	111.30	111.3			

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>LAB MS/MSD</u>
Lot/SDG Number:	<u>D9G010276</u>	MS Lab Sample ID:	<u>D9G020221-001S</u>
Matrix:	<u>WATER</u>	MS Lab WorkOrder:	<u>LF1T1</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>07/01/09 09:00</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187169</u>	Date/Time Analyzed:	<u>07/08/09 03:50</u>
MS Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MS Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	150		191		111		85 - 117
Selenium	40.0	7.0	U	48.0		116		77 - 122

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>LAB MS/MSD</u>
Lot/SDG Number:	<u>D9G010276</u>	MSD Lab Sample ID:	<u>D9G020221-001D</u>
Matrix:	<u>WATER</u>	MSD Lab WorkOrder:	<u>LF1T1</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>07/01/09 09:00</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187169</u>	Date/Time Analyzed:	<u>07/08/09 03:53</u>
MSD Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MSD Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	150		189		106		1.0		85 - 117	20
Selenium	40.0	7.0	U	50.3		122		4.6		77 - 122	20

Total Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

INTRALAB QC PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic	75 - 125	208.700		14.620		200.00	97.0		M
Selenium	75 - 125	192.400		0.700	U	200.00	96.2		M

Comments:

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Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	Client Sample ID:	
Lot/SDG Number:	D9G010276	Lab Sample ID:	D9G060000-169C
Matrix:	WATER	Lab WorkOrder:	LF3X8
% Moisture:	N/A	Date/Time Collected:	
Basis:	Wet	Date/Time Received:	
Analysis Method:	6020	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	07/07/09 06:00
QC Batch ID:	9187169	Date/Time Analyzed:	07/08/09 03:28
Sample Aliquot:	50 mL	Instrument ID:	024
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	38.5	96		85 - 117
Selenium	40.0	40.0	100		77 - 122

Total Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

INTRA-LAB QC SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)		% Differ- ence	Q	M
		C	C			
Arsenic	14.620		14.565	B	0.4	M
Selenium	0.700	U	3.500	U		M

Comments: _____

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276

ICP ID Number: Agilent 7500 Date: 4/23/2009

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Isotope	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Arsenic	75		5.000	0.2100	M
Selenium	78		5.000	0.7000	M

Comments:

Total Metals Analysis**-12-****ICP LINEAR RANGES (QUARTERLY)**Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276ICP ID Number: Agilent 7500 Date: 7/7/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Arsenic	0.001	3600	M
Selenium	0.001	3600	M

Comments:

Total Metals Analysis

-13-

PREPARATION LOG

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G010276Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
M-111AB	7/7/2009	50.0	50.0
INTRA-LAB QC	7/7/2009	50.0	50.0
LAB MS/MSD MS	7/7/2009	50.0	50.0
LAB MS/MSD MSD	7/7/2009	50.0	50.0
MB9187169	7/7/2009	50.0	50.0
Check Sample	7/7/2009	50.0	50.0

Comments:

Total Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G010276

Instrument ID Number: Agilent 7500 Method: MStart Date: 7/7/2009 End Date: 7/8/2009

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K G	S E	A G	N A	T G	V A	Z L	C N
CAL BLANK	1.00	18:32			X																				X		
100 PPB	1.00	18:35				X																			X		
ICV	1.00	18:38				X																			X		
ICB	1.00	18:43				X																			X		
RL STD	1.00	18:46				X																					
ALTSE	1.00	18:51																							X		
ICSA	1.00	18:54				X																			X		
ICSA	1.00	18:57				X																			X		
RINSE	1.00	18:59				X																			X		
LR	1.00	19:02					X																		X		
RINSE	1.00	19:05				X																			X		
CCV	1.00	19:08					X																		X		
CCB	1.00	19:10					X																		X		
CAL BLANK	1.00	03:11					X																		X		
100 PPB	1.00	03:14						X																	X		
CCV	1.00	03:17						X																	X		
CCB	1.00	03:20						X																	X		
MB9187169	1.00	03:25							X																X		
Check Sample	1.00	03:28							X																X		
M-111AB	10.00	03:31							X																X		
INTRALAB QC	10.00	03:33							X																X		
INTRALAB QC SER	50.00	03:36							X																X		
INTRALAB QC PDS	1.00	03:39							X																X		
CCV	1.00	03:42							X																X		
CCB	1.00	03:44							X																X		
LAB MS/MSD MS	10.00	03:50							X																X		
LAB MS/MSD MSD	10.00	03:53							X																X		
CCV	1.00	04:04							X																X		
CCB	1.00	04:07							X																X		

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TestAmerica
Total Metals
CLP-Like Forms

Lot ID: D9G020221

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Sample: 001 and 003

Total Metals Analysis
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: Northgate Environmental Management, Inc.

SDG No.: D9G020221

Lab Code: _____ Case No.: _____

SAS No.: _____

SOW No.: _____

<u>Sample ID.</u>	<u>Lab Sample No.</u>
I-ARB	D9G020221-003
M-110AB	D9G020221-001
M-110AB MS	D9G020221-001S
M-110AB MSD	D9G020221-001SD

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

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

Signature: Janice Collins

Name: Janice Collins

Date: 7/13/09

Title: Metals Analyst

TestAmerica

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Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	Client Sample ID:	M-110AB
Lot/SDG Number:	D9G020221	Lab Sample ID:	D9G020221-001
Matrix:	WATER	Lab WorkOrder:	LF1T1
% Moisture:	N/A	Date/Time Collected:	07/01/09 09:00
Basis:	Wet	Date/Time Received:	07/02/09 09:00
Analysis Method:	6020	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	07/07/09 06:00
QC Batch ID:	9187169	Date/Time Analyzed:	07/08/09 03:33
Sample Aliquot:	50 mL	Instrument ID:	024
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	150	2.1	50	
7782-49-2	Selenium	7.0	7.0	50	U

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVERLot/SDG Number: D9G020221Matrix: WATER% Moisture: N/ABasis: WetAnalysis Method: 6020Unit: ug/LQC Batch ID: 9187169Sample Aliquot: 50 mLDilution Factor: 10Client Sample ID: I-ARBLab Sample ID: D9G020221-003Lab WorkOrder: LF1T6Date/Time Collected: 07/01/09 11:50Date/Time Received: 07/02/09 09:00

Date Leached:

Date/Time Extracted: 07/07/09 06:00Date/Time Analyzed: 07/08/09 03:56Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	100	2.1	50	
7782-49-2	Selenium	8.0	7.0	50	B

Total Metals Analysis**-2A-****INITIAL AND CONTINUING CALIBRATION VERIFICATION**Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic	40.0	39.9	99.8	50.0	50.0	100.0	49.4	98.8 M
Selenium	40.0	39.4	98.5	50.0	51.3	102.6	48.6	97.2 M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Total Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic				50.0	48.3	96.6	49.3	98.6 M
Selenium				50.0	47.2	94.4	51.2	102.4 M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Total Metals Analysis

-2B-

CRDL STANDARD FOR AA AND ICP

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020221

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	Final	Found	%R
Arsenic				1.00	1.007	100.7	
Selenium				2.00		1.708	85.4

Comments:

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: D9G020221 Lab Sample ID: D9G060000-169B
Matrix: WATER Lab WorkOrder: LF3X8
% Moisture:
Basis: Wet Date/Time Collected:
Analysis Method: 6020 Date/Time Received:
Unit: ug/L Date Leached:
QC Batch ID: 9187169 Date/Time Extracted: 07/07/09 06:00
Sample Aliquot: 50 mL Date/Time Analyzed: 07/08/09 03:25
Dilution Factor: 1 Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	0.21	0.21	5.0	U
7782-49-2	Selenium	0.70	0.70	5.0	U

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C	C	
Arsenic	0.210	U	0.210	U	0.210	U	0.210	U	0.21	U
Selenium	0.700	U	0.700	U	0.700	U	0.700	U	0.70	U

Comments:

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank		C	M
			1	C	2	C	3	C				
Arsenic			0.210	U								M
Selenium			0.700	U								M

Comments:

Total Metals Analysis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221ICP ID Number: Agilent 7500 ICS Source: Inorganic VenturesConcentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	100.0	0.16	101.20	101.2			
Selenium	0.0	100.0	-0.20	111.30	111.3			

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>M-110AB</u>
Lot/SDG Number:	<u>D9G020221</u>	MS Lab Sample ID:	<u>D9G020221-001S</u>
Matrix:	<u>WATER</u>	MS Lab WorkOrder:	<u>LF1T1</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>07/01/09 09:00</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187169</u>	Date/Time Analyzed:	<u>07/08/09 03:50</u>
MS Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MS Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	150		191		111		85 - 117
Selenium	40.0	7.0	U	48.0		116		77 - 122

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>M-110AB</u>
Lot/SDG Number:	<u>D9G020221</u>	MSD Lab Sample ID:	<u>D9G020221-001D</u>
Matrix:	<u>WATER</u>	MSD Lab WorkOrder:	<u>LF1T1</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>07/01/09 09:00</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187169</u>	Date/Time Analyzed:	<u>07/08/09 03:53</u>
MSD Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MSD Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	150		189		106		1.0		85 - 117	20
Selenium	40.0	7.0	U	50.3		122		4.6		77 - 122	20

**Total Metals Analysis
-5B-**

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

M-110AB PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ **Case No.:** _____ **SAS No.:** _____ **SDG NO.:** D9G020221

Matrix (soil/water): WATER **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic	75 - 125	208.700		14.620		200.00	97.0		M
Selenium	75 - 125	192.400		0.700	U	200.00	96.2		M

Comments: _____

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: D9G020221 Lab Sample ID: D9G060000-169C
Matrix: WATER Lab WorkOrder: LF3X8
% Moisture: N/A Date/Time Collected:
Basis: Wet Date/Time Received:
Analysis Method: 6020 Date Leached:
Unit: ug/L Date/Time Extracted: 07/07/09 06:00
QC Batch ID: 9187169 Date/Time Analyzed: 07/08/09 03:28
Sample Aliquot: 50 mL Instrument ID: 024
Dilution Factor: 1

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	38.5	96		85 - 117
Selenium	40.0	40.0	100		77 - 122

Total Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

M-110AB SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence		Q	M
Arsenic	14.620		14.565	B	0.4			M
Selenium	0.700	U	3.500	U				M

Comments: _____

Total Metals Analysis**-10-****DETECTION LIMITS**Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221ICP ID Number: Agilent 7500 Date: 4/23/2009

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Isotope	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Arsenic	75		5.000	0.2100	M
Selenium	78		5.000	0.7000	M

Comments: _____

Total Metals Analysis
-12-
ICP LINEAR RANGES (QUARTERLY)

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020221

ICP ID Number: Agilent 7500 Date: 7/7/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Arsenic	0.001	3600	M
Selenium	0.001	3600	M

Comments:

Total Metals Analysis

-13-

PREPARATION LOG

Contract: Northgate Environmental Management, Inc.

Lab Code:

Case No.:

SAS No.:

SDG NO.: D9G020221

Method: MS

Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
M-110AB	7/7/2009	50.0	50.0
M-110AB MS	7/7/2009	50.0	50.0
M-110AB MSD	7/7/2009	50.0	50.0
I-ARB	7/7/2009	50.0	50.0
MB9187169	7/7/2009	50.0	50.0
Check Sample	7/7/2009	50.0	50.0

Comments:

Total Metals Analysis
-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020221Instrument ID Number: Agilent 7500 Method: MStart Date: 7/7/2009 End Date: 7/8/2009

Sample ID.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K T	S E	A G	N A	T G	V A	Z N	C N		
CAL BLANK	1.00	18:32				X																				X			
100 PPB	1.00	18:35				X																				X			
ICV	1.00	18:38				X																				X			
ICB	1.00	18:43					X																			X			
RL STD	1.00	18:46					X																						
ALTSE	1.00	18:51																								X			
ICSA	1.00	18:54				X																				X			
ICSAB	1.00	18:57				X																				X			
RINSE	1.00	18:59				X																				X			
LR	1.00	19:02					X																			X			
RINSE	1.00	19:05				X																				X			
CCV	1.00	19:08					X																			X			
CCB	1.00	19:10					X																			X			
CAL BLANK	1.00	03:11					X																			X			
100 PPB	1.00	03:14					X																			X			
CCV	1.00	03:17					X																			X			
CCB	1.00	03:20						X																		X			
MB9187169	1.00	03:25						X																		X			
Check Sample	1.00	03:28					X																			X			
M-110AB	10.00	03:33						X																		X			
M-110AB SER	50.00	03:36						X																		X			
M-110AB PDS	1.00	03:39						X																		X			
CCV	1.00	03:42						X																		X			
CCB	1.00	03:44						X																		X			
M-110AB MS	10.00	03:50						X																		X			
M-110AB MSD	10.00	03:53						X																		X			
I-ARB	10.00	03:56						X																		X			
CCV	1.00	04:04						X																		X			
CCB	1.00	04:07						X																		X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TestAmerica
Dissolved Metals
CLP-Like Forms

Lot ID: D9G020221

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Sample: 002

**Dissolved Metals Analysis
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE**

Contract: Northgate Environmental Management, Inc.SDG No.: D9G020221

Lab Code: _____

Case No.: _____

SAS No.: _____

SOW No.: _____

Sample ID.M-110ABDISSLab Sample No.D9G020221-002

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YESIf yes-were raw data generated before
application of background corrections?Yes/No NO

Comments:

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

Signature: Janice CollinsName: Janice CollinsDate: 7/13/09Title: Metals Analyst

Northgate Environmental Management, Inc.**Dissolved Metals Analysis Data Sheet**

Lab Name: TESTAMERICA DENVER **Client Sample ID:** M-110ABDISS
Lot/SDG Number: D9G020221 **Lab Sample ID:** D9G020221-002
Matrix: WATER **Lab WorkOrder:** LFITS
% Moisture: N/A **Date/Time Collected:** 07/01/09 09:00
Basis: Wet **Date/Time Received:** 07/02/09 09:00
Analysis Method: 6020 **Date Leached:**
Unit: ug/L **Date/Time Extracted:** 07/07/09 06:00
QC Batch ID: 9187175 **Date/Time Analyzed:** 07/08/09 02:27
Sample Aliquot: 50 mL **Instrument ID:** 024
Dilution Factor: 10

CAS No.	Analyte	Cone.	MDL	RL	Q
7440-38-2	Arsenic	150	2.1	50	
7782-49-2	Selenium	7.0	7.0	50	U

Dissolved Metals Analysis**-2A-****INITIAL AND CONTINUING CALIBRATION VERIFICATION**Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic	40.0	39.9	99.8	50.0	50.0	100.0	49.6	99.2
Selenium	40.0	39.4	98.5	50.0	51.3	102.6	48.7	97.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Dissolved Metals Analysis**-2A-****INITIAL AND CONTINUING CALIBRATION VERIFICATION**Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic				50.0	51.1	102.2	48.6	97.2 M
Selenium				50.0	47.3	94.6	48.7	97.4 M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

**Dissolved Metals Analysis
-2B-
CRDL STANDARD FOR AA AND ICP**

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020221

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	Found	%R	Final
Arsenic				1.00	1.007	100.7	
Selenium				2.00			1.708 85.4

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: D9G020221 Lab Sample ID: D9G060000-175B
Matrix: WATER Lab WorkOrder: LF30G
% Moisture:
Basis: Wet Date/Time Collected:
Analysis Method: 6020 Date/Time Received:
Unit: ug/L Date Leached:
QC Batch ID: 9187175 Date/Time Extracted: 07/07/09 06:00
Sample Aliquot: 50 mL Date/Time Analyzed: 07/08/09 02:22
Dilution Factor: 1 Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	0.21	0.21	5.0	U
7782-49-2	Selenium	0.70	0.70	5.0	U

Dissolved Metals Analysis

-3-

BLANKSContract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank		M
		1	C	2	C	3	C	C	U	
Arsenic	0.210	U	0.210	U	0.210	U	0.210	U	0.21	U
Selenium	0.700	U	0.700	U	0.700	U	0.700	U	0.70	U

Comments:

Dissolved Metals Analysis

-3-

BLANKSContract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Arsenic			0.210	U							M
Selenium			-0.761	B							M

Comments:

Dissolved Metals Analysis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221ICP ID Number: Agilent 7500 ICS Source: Inorganic VenturesConcentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	100.0	0.16	101.20	101.2			
Selenium	0.0	100.0	-0.20	111.30	111.3			

Northgate Environmental Management, Inc.**Dissolved Metals Analysis Data Sheet**

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>LAB MS/MSD</u>
Lot/SDG Number:	<u>D9G020221</u>	MS Lab Sample ID:	<u>D9G020227-003S</u>
Matrix:	<u>WATER</u>	MS Lab WorkOrder:	<u>LF1WA</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/30/09 10:10</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187175</u>	Date/Time Analyzed:	<u>07/08/09 02:38</u>
MS Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MS Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	750		756	MSB	17	N	85 - 117
Selenium	40.0	7.0	U	51.8		130	N	77 - 122

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>LAB MS/MSD</u>
Lot/SDG Number:	<u>D9G020221</u>	MSD Lab Sample ID:	<u>D9G020227-003D</u>
Matrix:	<u>WATER</u>	MSD Lab WorkOrder:	<u>LF1WA</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/30/09 10:10</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187175</u>	Date/Time Analyzed:	<u>07/08/09 02:41</u>
MSD Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MSD Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	750		755	MSB	16	N	0.090		85 - 117	20
Selenium	40.0	7.0	U	52.0		130	N	0.25		77 - 122	20

Dissolved Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

INTRA-LAB QC PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic	75 - 125	269.100		74.860		200.00	97.1		M
Selenium	75 - 125	205.600		0.700	U	200.00	102.8		M

Comments:

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: D9G020221 Lab Sample ID: D9G060000-175C
Matrix: WATER Lab WorkOrder: LF30G
% Moisture: N/A Date/Time Collected:
Basis: Wet Date/Time Received:
Analysis Method: 6020 Date Leached:
Unit: ug/L Date/Time Extracted: 07/07/09 06:00
QC Batch ID: 9187175 Date/Time Analyzed: 07/08/09 02:25
Sample Aliquot: 50 mL Instrument ID: 024
Dilution Factor: 1

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	42.5	106		85 - 117
Selenium	40.0	44.1	110		77 - 122

Dissolved Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

INTRA-LAB QC SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020221

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Arsenic	74.860		71.400		4.6		M
Selenium	0.700	U	3.500	U			M

Comments: _____

Dissolved Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221ICP ID Number: Agilent 7500 Date: 4/23/2009

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Isotope	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Arsenic	75		5.000	0.2100	M
Selenium	78		5.000	0.7000	M

Comments: _____

Dissolved Metals Analysis

-12-

ICP LINEAR RANGES (QUARTERLY)

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020221

ICP ID Number: Agilent 7500 Date: 7/7/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Arsenic	0.001	3600	M
Selenium	0.001	3600	M

Comments:

Dissolved Metals Analysis

-13-

PREPARATION LOG

Contract: Northgate Environmental Management, Inc.

Lab Code:

Case No.:

SAS No.:

SDG NO.:

D9G020221

Method: MS

Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
M-110ABDISS	7/7/2009	50.0	50.0
INTRA-LAB QC	7/7/2009	50.0	50.0
LAB MS/MSD MS	7/7/2009	50.0	50.0
LAB MS/MSD MSD	7/7/2009	50.0	50.0
MB9187175	7/7/2009	50.0	50.0
Check Sample	7/7/2009	50.0	50.0

Comments:

Dissolved Metals Analysis
-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020221Instrument ID Number: Agilent 7500 Method: MStart Date: 7/7/2009 End Date: 7/8/2009

Sample ID.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N G	K I	S E	A G	N A	T L	V G	Z A	C N	N N	
CAL BLANK	1.00	18:32			X																					X			
100 PPB	1.00	18:35				X																				X			
ICV	1.00	18:38					X																			X			
ICB	1.00	18:43						X																		X			
RL STD	1.00	18:46							X																				
ALTSE	1.00	18:51																								X			
ICSA	1.00	18:54							X																	X			
ICSAB	1.00	18:57							X																	X			
RINSE	1.00	18:59							X																	X			
LR	1.00	19:02							X																	X			
RINSE	1.00	19:05							X																	X			
CCV	1.00	19:08							X																	X			
CCB	1.00	19:10							X																	X			
CAL BLANK	1.00	00:34							X																	X			
100 PPB	1.00	00:37							X																	X			
CCV	1.00	00:39							X																	X			
CCB	1.00	00:42							X																	X			
CCV	1.00	02:13							X																	X			
CCB	1.00	02:16							X																	X			
MB9187175	1.00	02:22							X																	X			
Check Sample	1.00	02:25							X																	X			
M-110ABDISS	10.00	02:27							X																	X			
INTRA-LAB QC	10.00	02:30							X																	X			
INTRA-LAB QC SER	50.00	02:33							X																	X			
INTRA-LAB QC PDS	1.00	02:36							X																	X			
LAB MS/MSD MS	10.00	02:38							X																	X			
LAB MS/MSD MSD	10.00	02:41							X																	X			
CCV	1.00	02:44							X																	X			
CCB	1.00	02:47							X																	X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TestAmerica

Total Metals

CLP-Like Forms

Lot ID: D9G020227

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Sample: 001 and 002

**Total Metals Analysis
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE**

Contract: Northgate Environmental Management, Inc. SDG No.: D9G020227
Lab Code: _____ Case No.: _____ SAS No.: _____
SOW No.: _____

Sample ID.	Lab Sample No.
M-12AB	D9G020227-002
M-25B	D9G020227-001

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections?

Yes/No NO

Comments:

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

Signature: Janice Collins Name: Janice Collins
Date: 7/13/09 Title: Metals Analyst

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID: M-25B
Lot/SDG Number: D9G020227 Lab Sample ID: D9G020227-001
Matrix: WATER Lab WorkOrder: LF1VJ
% Moisture: N/A Date/Time Collected: 06/30/09 07:45
Basis: Wet Date/Time Received: 07/02/09 09:00
Analysis Method: 6020 Date Leached:
Unit: ug/L Date/Time Extracted: 07/07/09 06:00
QC Batch ID: 9187169 Date/Time Analyzed: 07/08/09 03:58
Sample Aliquot: 50 mL Instrument ID: 024
Dilution Factor: 10

CAS No.	Analyte	Cone.	MDL	RL	Q
7440-38-2	Arsenic	100	2.1	50	
7782-49-2	Selenium	7.0	7.0	50	U



THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER **Client Sample ID:** M-12AB
Lot/SDG Number: D9G020227 **Lab Sample ID:** D9G020227-002
Matrix: WATER **Lab WorkOrder:** LFIV5
% Moisture: N/A **Date/Time Collected:** 06/30/09 10:10
Basis: Wet **Date/Time Received:** 07/02/09 09:00
Analysis Method: 6020 **Date Leached:**
Unit: ug/L **Date/Time Extracted:** 07/07/09 06:00
QC Batch ID: 9187169 **Date/Time Analyzed:** 07/08/09 04:01
Sample Aliquot: 50 mL **Instrument ID:** 024
Dilution Factor: 10

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	760	2.1	50	
7782-49-2	Selenium	7.7	7.0	50	B

Total Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic	40.0	39.9	99.8	50.0	50.0	100.0	49.4	98.8 M
Selenium	40.0	39.4	98.5	50.0	51.3	102.6	48.6	97.2 M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Total Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				50.0	48.3	96.6	49.3	98.6	M
Selenium				50.0	47.2	94.4	51.2	102.4	M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

**Total Metals Analysis
-2B-
CRDL STANDARD FOR AA AND ICP**

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020227

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	Found	%R	Final
Arsenic				1.00	1.007	100.7	
Selenium				2.00			1.708 85.4

Comments:



THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: D9G020227 Lab Sample ID: D9G060000-169B
Matrix: WATER Lab WorkOrder: LF3X8
% Moisture:
Basis: Wet Date/Time Collected:
Analysis Method: 6020 Date/Time Received:
Unit: ug/L Date Leached:
QC Batch ID: 9187169 Date/Time Extracted: 07/07/09 06:00
Sample Aliquot: 50 mL Date/Time Analyzed: 07/08/09 03:25
Dilution Factor: 1 Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	0.21	0.21	5.0	U
7782-49-2	Selenium	0.70	0.70	5.0	U

Total Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C	C	
Arsenic	0.210	U	0.210	U	0.210	U	0.210	U	0.21	U
Selenium	0.700	U	0.700	U	0.700	U	0.700	U	0.70	U

Comments:

Total Metals Analysis

-3-

BLANKSContract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
		C	1	C	2	C	3			
Arsenic			0.210	U						M
Selenium			0.700	U						M

Comments:

Total Metals Analysis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227ICP ID Number: Agilent 7500 ICS Source: Inorganic VenturesConcentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	100.0	0.16	101.20	101.2			
Selenium	0.0	100.0	-0.20	111.30	111.3			

Northgate Environmental Management, Inc.**Total Metals Analysis Data Sheet**

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>LAB MS/MSD</u>
Lot/SDG Number:	<u>D9G020227</u>	MS Lab Sample ID:	<u>D9G020221-001S</u>
Matrix:	<u>WATER</u>	MS Lab WorkOrder:	<u>LFITI</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>07/01/09 09:00</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187169</u>	Date/Time Analyzed:	<u>07/08/09 03:50</u>
MS Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MS Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	150		191		111		85 - 117
Selenium	40.0	7.0	U	48.0		116		77 - 122

Northgate Environmental Management, Inc.**Total Metals Analysis Data Sheet**

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>LAB MS/MSD</u>
Lot/SDG Number:	<u>D9G020227</u>	MSD Lab Sample ID:	<u>D9G020221-001D</u>
Matrix:	<u>WATER</u>	MSD Lab WorkOrder:	<u>LF1T1</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>07/01/09 09:00</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187169</u>	Date/Time Analyzed:	<u>07/08/09 03:53</u>
MSD Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MSD Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	150		189		106		1.0		85 - 117	20
Selenium	40.0	7.0	U	50.3		122		4.6		77 - 122	20

Total Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

INTRALAB QC PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic	75 - 125	208.700		14.620		200.00	97.0		M
Selenium	75 - 125	192.400		0.700	U	200.00	96.2		M

Comments:

Northgate Environmental Management, Inc.

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID:
Lot/SDG Number: D9G020227 Lab Sample ID: D9G060000-169C
Matrix: WATER Lab WorkOrder: LF3X8
% Moisture: N/A Date/Time Collected:
Basis: Wet Date/Time Received:
Analysis Method: 6020 Date Leached:
Unit: ug/L Date/Time Extracted: 07/07/09 06:00
QC Batch ID: 9187169 Date/Time Analyzed: 07/08/09 03:28
Sample Aliquot: 50 mL Instrument ID: 024
Dilution Factor: 1

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	38.5	96		85 - 117
Selenium	40.0	40.0	100		77 - 122

Total Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

INTRA-LAB QC SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020227

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence		Q	M
					Q	M		
Arsenic	14.620		14.565	B	0.4			M
Selenium	0.700	U	3.500	U				M

Comments: _____

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227ICP ID Number: Agilent 7500 Date: 4/23/2009

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Isotope	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Arsenic	75		5.000	0.2100	M
Selenium	78		5.000	0.7000	M

Comments: _____

Total Metals Analysis**-12-****ICP LINEAR RANGES (QUARTERLY)**Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227ICP ID Number: Agilent 7500 Date: 7/7/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Arsenic	0.001	3600	M
Selenium	0.001	3600	M

Comments: _____

Total Metals Analysis

-13-

PREPARATION LOG

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227

Method: MS Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
INTRALAB QC	7/7/2009	50.0	50.0
LAB MS/MSD MS	7/7/2009	50.0	50.0
LAB MS/MSD MSD	7/7/2009	50.0	50.0
M-25B	7/7/2009	50.0	50.0
M-12AB	7/7/2009	50.0	50.0
MB9187169	7/7/2009	50.0	50.0
Check Sample	7/7/2009	50.0	50.0

Comments:

Total Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020227Instrument ID Number: Agilent 7500 Method: MStart Date: 7/7/2009 End Date: 7/8/2009

Sample ID.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N G	K I	S E	A G	N A	T G	V A	Z N	C N		
CAL BLANK	1.00	18:32			X																					X			
100 PPB	1.00	18:35				X																				X			
ICV	1.00	18:38					X																			X			
ICB	1.00	18:43						X																		X			
RL STD	1.00	18:46							X																				
ALTSE	1.00	18:51																								X			
ICSA	1.00	18:54							X																	X			
ICSB	1.00	18:57							X																	X			
RINSE	1.00	18:59							X																	X			
LR	1.00	19:02							X																	X			
RINSE	1.00	19:05							X																	X			
CCV	1.00	19:08							X																	X			
CCB	1.00	19:10							X																	X			
CAL BLANK	1.00	03:11							X																	X			
100 PPB	1.00	03:14							X																	X			
CCV	1.00	03:17							X																	X			
CCB	1.00	03:20							X																	X			
MB9187169	1.00	03:25							X																	X			
Check Sample	1.00	03:28							X																	X			
INTRA-LAB QC	10.00	03:33							X																	X			
INTRA-LAB QC SER	50.00	03:36							X																	X			
INTRA-LAB QC PDS	1.00	03:39							X																	X			
CCV	1.00	03:42							X																	X			
CCB	1.00	03:44							X																	X			
LAB MS/MSD MS	10.00	03:50							X																	X			
LAB MS/MSD MSD	10.00	03:53							X																	X			
M-25B	10.00	03:58							X																	X			
M-12AB	10.00	04:01							X																	X			
CCV	1.00	04:04							X																	X			
CCB	1.00	04:07							X																	X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TestAmerica
Dissolved Metals
CLP-Like Forms

Lot ID: D9G020227

Client: Northgate/Tronox

Method: SW846 6020/Collision Cell

Associated Sample: 003

**Dissolved Metals Analysis
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE**

Contract: Northgate Environmental Management, Inc. SDG No.: D9G020227
Lab Code: _____ Case No.: _____ SAS No.: _____
SOW No.: _____

Sample ID.	Lab Sample No.
M-12ABDISS	D9G020227-003
M-12ABDISS MS	D9G020227-003S
M-12ABDISS MSD	D9G020227-003SD

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

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

Signature: Janice Collins

Name: Janice Collins

Date: 7/13/09

Title: Metals Analyst

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER Client Sample ID: M-12ABDISS
Lot/SDG Number: D9G020227 Lab Sample ID: D9G020227-003
Matrix: WATER Lab WorkOrder: LFIWA
% Moisture: N/A Date/Time Collected: 06/30/09 10:10
Basis: Wet Date/Time Received: 07/02/09 09:00
Analysis Method: 6020 Date Leached:
Unit: ug/L Date/Time Extracted: 07/07/09 06:00
QC Batch ID: 9187175 Date/Time Analyzed: 07/08/09 02:30
Sample Aliquot: 50 mL Instrument ID: 024
Dilution Factor: 10

CAS No.	Analyte	Cone.	MDL	RL	Q
7440-38-2	Arsenic	750	2.1	50	
7782-49-2	Selenium	7.0	7.0	50	U

Dissolved Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic	40.0	39.9	99.8	50.0	50.0	100.0	49.6	99.2 M
Selenium	40.0	39.4	98.5	50.0	51.3	102.6	48.7	97.4 M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Dissolved Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Initial Calibration Source: High PurityContinuing Calibration Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M
	True	Found	%R(1)	True	Found	%R(1)	Found	
Arsenic				50.0	51.1	102.2	48.6	97.2 M
Selenium				50.0	47.3	94.6	48.7	97.4 M

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

**Dissolved Metals Analysis
-2B-
CRDL STANDARD FOR AA AND ICP**

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020227

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP			
	True	Found	%R	Initial	Found	%R	Final
Arsenic				1.00	1.007	100.7	
Selenium				2.00			1.708 85.4

Comments:

Northgate Environmental Management, Inc.**Dissolved Metals Analysis Data Sheet**Lab Name: TESTAMERICA DENVER

Client Sample ID:

Lot/SDG Number: D9G020227D9G060000-175BMatrix: WATER

Lab Sample ID:

% Moisture:

LF30GBasis: Wet

Date/Time Collected:

Analysis Method: 6020

Date/Time Received:

Unit: ug/L

Date Leached:

QC Batch ID: 9187175Date/Time Extracted: 07/07/09 06:00Sample Aliquot: 50 mLDate/Time Analyzed: 07/08/09 02:22Dilution Factor: 1Instrument ID: 024

CAS No.	Analyte	Conc.	MDL	RL	Q
7440-38-2	Arsenic	0.21	0.21	5.0	U
7782-49-2	Selenium	0.70	0.70	5.0	U

Dissolved Metals Analysis

-3-

BLANKSContract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C	C	
Arsenic	0.210	U	0.210	U	0.210	U	0.210	U	0.21	U
Selenium	0.700	U	0.700	U	0.700	U	0.700	U	0.70	U

Comments:

Dissolved Metals Analysis

-3-

BLANKS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Arsenic			0.210	U							M
Selenium			-0.761	B							M

Comments:

Dissolved Metals Analysis

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227ICP ID Number: Agilent 7500 ICS Source: Inorganic VenturesConcentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic	0.0	100.0	0.16	101.20	101.2			
Selenium	0.0	100.0	-0.20	111.30	111.3			

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>M-12ABDISS</u>
Lot/SDG Number:	<u>D9G020227</u>	MS Lab Sample ID:	<u>D9G020227-003S</u>
Matrix:	<u>WATER</u>	MS Lab WorkOrder:	<u>LF1WA</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>06/30/09 10:10</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>07/02/09 09:00</u>
Analysis Method:	<u>6020</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>07/07/09 06:00</u>
QC Batch ID:	<u>9187175</u>	Date/Time Analyzed:	<u>07/08/09 02:38</u>
MS Sample Aliquot:	<u>50 mL</u>	Instrument ID:	<u>024</u>
MS Dilution Factor:	<u>10</u>		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Arsenic	40.0	750		756	MSB	17	N	85 - 117
Selenium	40.0	7.0	U	51.8		130	N	77 - 122

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	Client Sample ID:	M-12ABDISS
Lot/SDG Number:	D9G020227	MSD Lab Sample ID:	D9G020227-003D
Matrix:	WATER	MSD Lab WorkOrder:	LF1WA
% Moisture:	N/A	Date/Time Collected:	06/30/09 10:10
Basis:	Wet	Date/Time Received:	07/02/09 09:00
Analysis Method:	6020	Date Leached:	
Unit:	ug/L	Date/Time Extracted:	07/07/09 06:00
QC Batch ID:	9187175	Date/Time Analyzed:	07/08/09 02:41
MSD Sample Aliquot:	50 mL	Instrument ID:	024
MSD Dilution Factor:	10		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Arsenic	40.0	750		755	MSB	16	N	0.090		85 - 117	20
Selenium	40.0	7.0	U	52.0		130	N	0.25		77 - 122	20

Dissolved Metals Analysis
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

M-12ABDISS PDS

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic	75 - 125	269.100		74.860		200.00	97.1		M
Selenium	75 - 125	205.600		0.700	U	200.00	102.8		M

Comments:

Northgate Environmental Management, Inc.

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER **Client Sample ID:** _____
Lot/SDG Number: D9G020227 **Lab Sample ID:** D9G060000-175C
Matrix: WATER **Lab WorkOrder:** LF30G
% Moisture: N/A **Date/Time Collected:** _____
Basis: Wet **Date/Time Received:** _____
Analysis Method: 6020 **Date Leached:** _____
Unit: ug/L **Date/Time Extracted:** 07/07/09 06:00
QC Batch ID: 9187175 **Date/Time Analyzed:** 07/08/09 02:25
Sample Aliquot: 50 mL **Instrument ID:** 024
Dilution Factor: 1

Analyte	True	Found	%Rec	Q	Limits
Arsenic	40.0	42.5	106		85 - 117
Selenium	40.0	44.1	110		77 - 122

Dissolved Metals Analysis

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

M-12ABDISS SER

Contract: Northgate Environmental Management, Inc.

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence		Q	M
					Q	M		
Arsenic	74.860		71.400		4.6			M
Selenium	0.700 U		3.500 U					M

Comments: _____

Dissolved Metals Analysis

-10-

DETECTION LIMITS

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227ICP ID Number: Agilent 7500 Date: 4/23/2009

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Isotope	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Arsenic	⁷⁵		5.000	0.2100	M
Selenium	⁷⁸		5.000	0.7000	M

Comments: _____

Dissolved Metals Analysis

-12-

ICP LINEAR RANGES (QUARTERLY)

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9G020227ICP ID Number: Agilent 7500 Date: 7/7/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Arsenic	0.001	3600	M
Selenium	0.001	3600	M

Comments:

Dissolved Metals Analysis

-13-

PREPARATION LOG

Contract: Northgate Environmental Management, Inc.

Lab Code:

Case No.:

SAS No.:

SDG NO.: D9G020227

Method: MS

Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
M-12ABDISS	7/7/2009	50.0	50.0
M-12ABDISS MS	7/7/2009	50.0	50.0
M-12ABDISS MSD	7/7/2009	50.0	50.0
MB9187175	7/7/2009	50.0	50.0
Check Sample	7/7/2009	50.0	50.0

Comments:

Dissolved Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: Northgate Environmental Management, Inc.Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9G020227Instrument ID Number: Agilent 7500 Method: MStart Date: 7/7/2009 End Date: 7/8/2009

Sample ID.	D/F	Time	% R	Analytes																								
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K G	S E	A G	N A	T G	V A	Z L	C N	N N
CAL BLANK	1.00	18:32				X																				X		
100 PPB	1.00	18:35				X																				X		
ICV	1.00	18:38				X																				X		
ICB	1.00	18:43				X																				X		
RL STD	1.00	18:46				X																						
ALTSE	1.00	18:51																								X		
ICSA	1.00	18:54				X																				X		
ICSB	1.00	18:57				X																				X		
RINSE	1.00	18:59				X																				X		
LR	1.00	19:02				X																				X		
RINSE	1.00	19:05				X																				X		
CCV	1.00	19:08				X																				X		
CCB	1.00	19:10				X																				X		
CAL BLANK	1.00	00:34				X																				X		
100 PPB	1.00	00:37				X																				X		
CCV	1.00	00:39				X																				X		
CCB	1.00	00:42				X																				X		
CCV	1.00	02:13				X																				X		
CCB	1.00	02:16				X																				X		
MB9187175	1.00	02:22				X																				X		
Check Sample	1.00	02:25				X																				X		
M-12ABDISS	10.00	02:30				X																				X		
M-12ABDISS SER	50.00	02:33				X																				X		
M-12ABDISS PDS	1.00	02:36				X																				X		
M-12ABDISS MS	10.00	02:38				X																				X		
M-12ABDISS MSD	10.00	02:41				X																				X		
CCV	1.00	02:44				X																				X		
CCB	1.00	02:47				X																				X		

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

COC No. 2027.001.00159
Page: 1 of 1
Cooler #: 1 of 1

Required Ship to Lab:

Lab Name: TestAmerica

Site ID #: TRONOX LLC, HENDERSON

Project #: 2027.001

Address: 4955 Yarrow Street

City: Henderson

State: NV

Site Address: 560 W. Lake Mead Drive

City/State: Henderson, NV 89009

Phone #: (949)260-9293

QC level Required: Standard

Special

EPA Stage 4

Mark One

TAT: Standard 30 day Rush

If Rush, Date due

NJ Reduced Deliverable Package?

MA MCP Cert?

CT RCP Cert?

Mark One

Send EDD to

Frank.Hagar@ngem.com

CC Hardcopy report to

PDF-Electronic Version Only

Lab Project ID (lab use)

Required Project Information:

Send Invoice to: Susan Crowley

Tronox LLC

Address: PO Box 55

Reimbursement project? Non-Reimbursement project?

Mark one

Send EDD to Frank.Hagar@ngem.com

CC Hardcopy report to

Derrick.Willis@ngem.com

Site PM Email: derrick.willis@ngem.com

CC Hardcopy report to see additional comments below

Valid Matrix Codes

MATRIX: MATRIX: Dimensions Water

Groundwater Surface Water

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9G010276 Date/Time Received: 7/1/9 0900

Company Name & Sampling Site: TGSNSY - Northgate

PM to Complete This Section:	Yes	No	Yes	No
Residual chlorine check required:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Quote #: 830416

Special Instructions:

Time Zone:

- EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): _____

Temperatures (°C): 3.4 _____

N/A Yes No

Initials

OHR

1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
2. Coolers scanned for radiation. Is the reading \leq to background levels? Yes: No:
3. Chain of custody present? If no, document on CUR.
4. Bottles broken and/or are leaking? If yes, document on CUR.
5. Multiphasic samples obvious? If yes, document on CUR.
6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
7. pH of all samples checked and meet requirements? If no, document on CUR.
8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
10. Were VOA samples without headspace? If no, document on CUR.
11. Were VOA vials preserved? Preservative HCl 4±2°C Sodium Thiosulfate Ascorbic Acid
12. Did samples require preservation with sodium thiosulfate?
13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
17. Are analyses with short holding times requested?
18. Was a quick Turn Around (TAT) requested?

TestAmerica Denver
Sample Receiving Checklist

Lot # D96010276

Login Checks:

N/A Yes No

Initials:
JK

19. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
20. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
21. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
22. Were special log in instructions read and followed?
23. Were AFCEE metals logged for refrigerated storage?
24. Were tests logged checked against the COC? Which samples were confirmed? All
25. Was a Rush form completed for quick TAT?
26. Was a Short Hold form completed for any short holds?
27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Labeling and Storage Checks:

Initials
CHK

28. Was the subcontract COC signed and sent with samples to bottle prep?
29. Were sample labels double-checked by a second person?
30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
31. Did the sample ID, Date, and Time from label match what was logged?
32. Were stickers for special archiving instructions affixed to each box? See #27
33. Were AFCEE metals stored, refrigerated?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

2.7°C
7/2/09
TRI
COC No.
2027.001.00170

Page:
1 of 1
Cooler #:

Required Ship to Lab:

Lab Name: **TestAmerica**

Site ID #: **TRONOX LLC. HENDERSON**

Send Invoice to: **Susan Crowley**

Tronox LLC

TAT: Standard 30 day Rush Mark One

If Rush, Date due

NJ Reduced Deliverable Package?

QC level Required: Standard Special EPA Stage 4 Mark one

MA MCP Cert?

CT RCP Cert?

Mark One

Lab Project ID (lab use)

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9G020221 Date/Time Received: 7/2/19 0900
Company Name & Sampling Site: Nor-Mignt - TRONOX

PM to Complete This Section: Yes

No

Yes

No

Residual chlorine check required:

Quarantined :

Quote #: 83046

Special Instructions:

Time Zone:

• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): _____

Temperatures (°C): 2.7 °C _____

N/A Yes No

Initials

dc

- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
- 2. Coolers scanned for radiation. Is the reading \leq to background levels? Yes: No: _____
- 3. Chain of custody present? If no, document on CUR.
- 4. Bottles broken and/or are leaking? If yes, document on CUR.
- 5. Multiphasic samples obvious? If yes, document on CUR.
- 6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
- 7. pH of all samples checked and meet requirements? If no, document on CUR.
- 8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 10. Were VOA samples without headspace? If no, document on CUR.
- 11. Were VOA vials preserved? Preservative HCl 4±2°C Sodium Thiosulfate Ascorbic Acid
 12. Did samples require preservation with sodium thiosulfate?
- 13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 17. Are analyses with short holding times requested?
- 18. Was a quick Turn Around (TAT) requested?

TestAmerica Denver
Sample Receiving Checklist

Lot # D96020221

Login Checks:

N/A Yes No

Initials
AG

19. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
20. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
21. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
22. Were special log in instructions read and followed?
23. Were AFCEE metals logged for refrigerated storage?
24. Were tests logged checked against the COC? Which samples were confirmed? All
25. Was a Rush form completed for quick TAT?
26. Was a Short Hold form completed for any short holds?
27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Labeling and Storage Checks:

Initials

CHF

28. Was the subcontract COC signed and sent with samples to bottle prep?
29. Were sample labels double-checked by a second person?
30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
31. Did the sample ID, Date, and Time from label match what was logged?
32. Were stickers for special archiving instructions affixed to each box? See #27
33. Were AFCEE metals stored refrigerated?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

2.7

Northgate

environmental management, inc.

1100 Quail Street, Suite 102, Newport Beach, CA 92660
(949) 260-9293

CHAIN-OF-CUSTODY / Analytical Request Document

COC No. 2027.001.00169
Page: 1 of 1
Cooler #: 1 of 1

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Required Ship to Lab:
Lab Name: TestAmerica
Address: 4955 Yarrow Street
Avista, CO 80002

Required Project Information:
Site ID #: TRONOX LLC, HENDERSON
Project #: 2027.001
Site Address: 560 W. Lake Mead Drive
City: Henderson State: NV
Site PM Name: Derrick Willis
Phone/Fax: 949-375-7004

Required Invoice Information:
Send invoice to: Susan Crowley
Tronox LLC
Address: PO Box 55
Reimbursement project? X Non-reimbursement project? Mark one
Frank Hagan Northgate Environmental Management, Inc
Send EDD to frank.hagan@ngem.com
CC Hardcopy report to PDF Electronic Version Only

TAT: Standard 30 day X Rush Mark One
If Rush, Date due
QC level Required: Standard Special EPA Stage 4 Mark one
NJ Reduced Deliverable Package?
MA MCP Cert? CT RCP Cert? Mark One

Lab Project ID (Lab Use)

Applicable Lab Quote#:

Site PM Email: derrick.willis@ngem.com

CC Hardcopy report to see additional comments below

Preservatives

Comments/Lab Sample I.D.

Sample I.D.

EPA 6020/Collision Cell
EPA 8141A OSP/Pest

500 ml Plastic

</

Northgate

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CHAIN-OF-CUSTODY / Analytical Request Document

COG No. 2027.001.00163
Page: 1 of 1
Goojarrat

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9G020227 Date/Time Received: 07/2/9 0900

Company Name & Sampling Site: Norngate - TRONOX

PM to Complete This Section: Yes

No

Yes

No

Residual chlorine check required:

Quarantined :

Quote #: 83046

Special Instructions:

Time Zone:

- EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler # (s): 1.3

34

Temperatures (°C): 2.7 °C

34

N/A Yes No

CR 21 July 09
MPP 7/22/09

Initials

JL

- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
- 2. Coolers scanned for radiation. Is the reading \leq to background levels? Yes: _____ No: _____
- 3. Chain of custody present? If no, document on CUR.
- 4. Bottles broken and/or are leaking? If yes, document on CUR.
- 5. Multiphasic samples obvious? If yes, document on CUR.
- 6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
- 7. pH of all samples checked and meet requirements? If no, document on CUR.
- 8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 10. Were VOA samples without headspace? If no, document on CUR.
- 11. Were VOA vials preserved? Preservative HCl 4±2°C Sodium Thiosulfate Ascorbic Acid
- 12. Did samples require preservation with sodium thiosulfate?
- 13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 17. Are analyses with short holding times requested?
- 18. Was a quick Turn Around (TAT) requested?

TestAmerica Denver
Sample Receiving Checklist

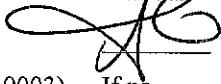
Lot # D96020227

Login Checks:

N/A Yes No

19. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
20. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
21. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
22. Were special log in instructions read and followed?
23. Were AFCEE metals logged for refrigerated storage?
24. Were tests logged checked against the COC? Which samples were confirmed? All
25. Was a Rush form completed for quick TAT?
26. Was a Short Hold form completed for any short holds?
27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Initials



If no,

Labeling and Storage Checks:

Initials

CHW

28. Was the subcontract COC signed and sent with samples to bottle prep?
29. Were sample labels double-checked by a second person?
30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
31. Did the sample ID, Date, and Time from label match what was logged?
32. Were stickers for special archiving instructions affixed to each box? See #27
33. Were AFCEE metals stored refrigerated?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

Phillips, Michael

From: Howard, Matt
Sent: Wednesday, July 08, 2009 11:37 AM
To: Middleditch, Eric; Phillips, Michael
Subject: FW: SCR/COC for D9G020227 - Tronox Henderson
Attachments: TA CoC 2027.001.00169 amended.pdf; D9G020227.pdf

FYI See below.

From: Victoria Hansen [mailto:Victoria.Hansen@gesnevada.com]
Sent: Wednesday, July 08, 2009 11:22 AM
To: frank.hagar@ngem.com; Cindy.Arnold@ngem.com; Howard, Matt
Cc: Derrick Willis; Vivian Willis; Dana.Brown@ngem.com
Subject: FW: SCR/COC for D9G020227 - Tronox Henderson

Hi Frank,

Regarding D9G020227.pdf, I sent this out Monday, July 06, 2009 5:56 AM; then again Tuesday, July 07, 2009 5:13 AM (please see attached emails below), and now for a third time. Other than Matt Howard, who else receives the CoC??

-Victoria Hansen-

GES - Geotechnical & Environmental Services, Inc.
Environmental Staff Scientist
Office: 702.365.1001
Cell: 702.275.8386
Fax: 702.341.7120
Email: victoria.hansen@gesnevada.com
www.gesnevada.com



We make the ground work for you...SM

From: Victoria Hansen
Sent: Tuesday, July 07, 2009 5:13 AM
To: 'frank.hagar@ngem.com'; Dana.Brown@ngem.com
Cc: 'Derrick Willis'
Subject: FW: SCR/COC for D9G020227 - Tronox Henderson

Frank,

Dana mentioned there was a chain amendment needed for a CoC from last week. I sent this to everyone yesterday morning, if there is another requiring correction please let me know.

Thank you, Frank.

-Victoria Hansen-

GES - Geotechnical & Environmental Services, Inc.
Environmental Staff Scientist
Office: 702.365.1001
Cell: 702.275.8386
Fax: 702.341.7120
Email: victoria.hansen@gesnevada.com
www.gesnevada.com



We make the ground work for you...SM

From: Victoria Hansen
Sent: Monday, July 06, 2009 5:56 AM
To: 'frank.hagar@ngem.com'; Dana.Brown@ngem.com
Cc: 'Derrick Willis'; 'Cindy Arnold'; 'Vivian Willis'; matt.howard@testamericainc.com
Subject: RE: SCR/COC for D9G020227 - Tronox Henderson

Hello,

Here is the amended Coc, TA CoC 2027.001.00169.

-Victoria Hansen-

GES - Geotechnical & Environmental Services, Inc.
Environmental Staff Scientist
Office: 702.365.1001
Cell: 702.275.8386
Fax: 702.341.7120
Email: victoria.hansen@gesnevada.com
www.gesnevada.com



We make the ground work for you...SM

From: frank.hagar@ngem.com [mailto:frank.hagar@ngem.com]
Sent: Thursday, July 02, 2009 2:16 PM
To: Dana.Brown@ngem.com; Victoria Hansen
Cc: 'Derrick Willis'; 'Cindy Arnold'; 'Vivian Willis'; matt.howard@testamericainc.com
Subject: FW: SCR/COC for D9G020227 - Tronox Henderson

Dana

Can you correct this COC and send it back to TestAmerica please

Thanks

Frank

From: Howard, Matt [mailto:Matt.Howard@testamericaninc.com]
Sent: Thursday, July 02, 2009 2:59 PM
To: cindy.arnold@ngem.com; frank.hagar@ngem.com
Cc: Phillips, Michael; Middleditch, Eric
Subject: SCR/COC for D9G020227 - Tronox Henderson

RECEIPT DISCREPANCIES:

Sampling times were logged per the sample container labels, as this information was not present on the chain-of-custody.

<<D9G020227.pdf>>

MATTHEW F. HOWARD

Project Manager Assistant

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4955 Yarrow St

Arvada, CO 80002

Tel 303.736.0126 | Fax 303.431.7171

www.testamericaninc.com

TestAmerica Denver will be closed on Friday, July 3rd and Saturday, July 4th and will not be accepting samples.

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Please consider the environment before printing this e-mail.

Phillips, Michael

From: Howard, Matt
Sent: Thursday, July 02, 2009 4:47 PM
To: Cindy Arnold; cindy.arnold@ngem.com; frank.hagar@ngem.com
Cc: Phillips, Michael; Middleditch, Eric; derrick.willis@ngem.com
Subject: RE: SCR/COC for D9G020227 - Tronox Henderson

Sample M-25B -- Time = 07:45
Samples M-12AB and M-12ABDISS – Time = 10:10

From: Cindy Arnold [mailto:carnold@ngem.com]
Sent: Thursday, July 02, 2009 4:42 PM
To: Howard, Matt; cindy.arnold@ngem.com; frank.hagar@ngem.com
Cc: Phillips, Michael; Middleditch, Eric; derrick.willis@ngem.com
Subject: RE: SCR/COC for D9G020227 - Tronox Henderson

Matt, Please send us the sampling times listed on the bottles and we will have the COC amended.
Thanks, Cindy

----- Original Message ----- On 7/2/2009 9:58 PM Howard, Matt wrote:
SCR/COC for D9G020227 - Tronox Henderson

RECEIPT DISCREPANCIES:

Sampling times were logged per the sample container labels, as this information was not present on the chain-of-custody.

<>

MATTHEW F. HOWARD

Project Manager Assistant

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

4955 Yarrow St

Arvada, CO 80002

Tel 303.736.0126 | Fax 303.431.7171

www.testamericaninc.com

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Please consider the environment before printing this e-mail.

Semivolatile GC

Supporting Documentation

Sample Sequence, Chromatograms

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9G01D276

Client: Northgate

Method: 8141

Associated Samples: 1, 2

Batch #(s): 9182412

*I certify that, to the best of my knowledge, the attached package
represents a complete and accurate copy of the original data.*

Signature/Date: MJM 7/10/09

**GC SEMIVOLATILE
ORGANIC EXTRACTION
LOG SHEETS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 7/02/09
Time: 16:27:41

<u>LEV</u>	<u>LEV</u>
<u>1</u>	<u>1</u>
Y	Y
Y	Y
-	Y
Blank	Weights / Volumes
Check	Spike & Surrogate Worksheet
MS/MSD	Vial contains correct volume
-	Labels, greenbars, worksheets
-	Computer, batch: correct & all match

Expanded COC	Deliverable Completed
Bench Sheet	Copied
Package	Submitted to AnalyticalGroup
Bench Sheet	Copied per coC

Reviewer/Date: FLEISCHK / 7/02/09

<u>EXTR EXPR</u>	<u>ANL DUE</u>	<u>LOT# WORK ORDER</u>	<u>TEST FLGS</u>	<u>INIT EXT</u>	<u>FIN MTH</u>	<u>MATRIX</u>	<u>INIT/FIN WT/VOL</u>	<u>PH"S ADJT</u>	<u>INIT ADJ2</u>	<u>SOLVENTS EXTRACTION VOL</u>	<u>EXCHANGE VOL</u>	<u>VOL</u>	<u>SPike STANDARD/ SURROGATE ID</u>		
7/06/09 COMMENTS:	7/13/09	D9G010276-001 LFX9W-1-AA	DR	09	P2	WATER	1057mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML GSV0675 06/04/09

7/06/09 COMMENTS:	7/13/09 D9G010276-002 LFX90-1-AA	DR	09	P2	WATER 2.00mL	1053mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML	GSV0675	06/04/09
7/06/09 COMMENTS:	D9G010000-412 LF0FF-1-AAB	09	P2	WATER	1000mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML	GSV0675	06/04/09	
7/06/09 COMMENTS:	0/00/00 D9G010000-412 LF0FF-1-ACC	09	P2	WATER	1000mL 2.00mL	7.0	NA	NA	MECL2	180.0	HEXANE	50.0	1ML	GSV0753	06/24/09	

7/06/09 COMMENTS:	0/00/00 COMMENTS:	D9G010000-412 LFOFF-1-ACC	09 P2	WATER	1000mL 2.00mL	7.0	NA	NA	MECL2	180.0 HEXANE	50.0 1ML GSV0675	06/04/09
7/06/09 COMMENTS:	0/00/00 COMMENTS:	D9G010000-412 LFOFF-1-ADL	R 09 P2	WATER	1000mL 2.00mL	7.0	NA	NA	MECL2	180.0 HEXANE	50.0 1ML GSV0753 1ML GSV0675	06/24/09 06/04/09

DV-OP-0006/7 BAI:M27995 H2O:ELGA+NACL:G47616 NA2SO4:G45627 MECL2:H22J00
S7/S:KH-E W:CRC SHARE QC:9182442 TURBOVAP A:40C PIP:CON-6 HEX:HTIE04

→ E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH:

**GC SEMIVOLATILE
INSTRUMENT
LOG SHEETS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	PRIMER				
2	Vial 2	HEXANE				
3	Vial 3	OPP SS GSV0826				
4	Vial 4	OPP CCV GSV0827				
5	Vial 5	LF0E51AA, MB				
6	Vial 6	LF0E51AC, LCS				
7	Vial 7	LF0E51AD, LCSD				
8	Vial 8	LERN72AF, 115-1				
9	Vial 9	LERPQ2AF, 115-2				
10	Vial 10	LERPX2AF, 115-3				
11	Vial 11	LF0J71AA, MB				
12	Vial 12	LF0J71AC, LCS				
13	Vial 13	LF0J71AD, LCSD				
14	Vial 14	LF0FC1AA, 300-1				
15	Vial 15	LF0FE1AA, 300-2				
16	Vial 16	LF0FF1AA, MB				
17	Vial 17	LF0FF1AC, LCS				
18	Vial 18	LF0FF1AD, LCSD				
19	Vial 19	LFX9W1AA, 276-1				
20	Vial 20	LFX901AA, 276-2				
21	Vial 21	OPP CCV GSV0827				
22	Vial 22	LF20F1AA, MB				
23	Vial 23	LF20F1AC, LCS				
24	Vial 24	LF20F1AD, LCSD				
25	Vial 25	LF1JG1CX, 189-1				
26	Vial 26	LF1KV1C1, 189-3				
27	Vial 27	LF1K51C1, 189-5				
28	Vial 28	LF1LC1C1, 189-7				
29	Vial 29	LF1LF1C1, 189-9				
30	Vial 30	LF1LK1C1, 189-11				
31	Vial 31	LF1LN1C1, 189-13				
32	Vial 32	LF1LT1C1, 189-15				
33	Vial 33	LF1LW1C1, 189-17				
34	Vial 34	OPP CCV GSV0827				
35	Vial 2	HEXANE/ACETONE				

Sequence Table (Back Injector):

No entries - empty table!

GC SEMIVOLATILE CONTINUING CALIBRATION DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
1 o,o,O-TEPT	2.5000	2.3801	4.8	15.0
2 Dichlorvos	2.5000	2.4145	3.4	15.0
3 Mevinphos	2.5000	2.4680	1.3	15.0
4 Chlormefos	2.5000	2.7923	11.7	15.0
5 Thionazin	2.5000	2.4505	2.0	15.0
6 Demeton-O	0.8125	0.8579	5.6	15.0
7 Ethoprop	2.5000	2.7316	9.3	15.0
8 Naled	2.5000	3.6112	44.4	15.0 <-
9 Sulfotepp	2.5000	2.5992	4.0	15.0
10 Phorate	2.5000	2.5677	2.7	15.0
11 Dimethoate	2.5000	2.8221	12.9	15.0
12 Demeton-S	1.7000	1.7242	1.4	15.0
13 Simazine	2.5000	2.8153	12.6	15.0
14 Atrazine	2.5000	2.7425	9.7	15.0
15 propazine	2.5000	2.5384	1.5	15.0
17 Disulfoton	2.5000	2.4886	0.5	15.0
16 Diazinon	2.5000	2.4844	0.6	15.0
18 Methyl Parathion	2.5000	2.7969	11.9	15.0
19 Ronnel	2.5000	2.3151	7.4	15.0
20 Malathion	2.5000	2.5578	2.3	15.0
21 Fenthion	2.5000	2.5020	0.1	15.0
22 Parathion	2.5000	2.6951	7.8	15.0
23 Chlorpyrifos	2.5000	2.5461	1.8	15.0
24 Trichloronate	2.5000	2.5016	0.1	15.0
25 Anilazine	2.5000	2.8213	12.9	15.0
148 Merphos-A (Merphos)	2.5000	2.2859	8.6	999.0
26 Tetrachlorvinphos (Stirophos)	2.5000	2.5382	1.5	15.0
28 Tokuthion	2.5000	2.5521	2.1	15.0
149 Merphos-B (Merphos Oxone)	2.5000	3.1859	27.4	999.0
29 Carbophenothion-methyl	2.5000	2.5256	1.0	15.0
29 Fensulfothion	2.5000	2.0589	17.6	15.0 <-
30 Bolstar / Famphur	5.0000	4.9826	0.3	15.0
32 Carbophenothion	2.5000	2.4923	0.3	15.0
31 Triphenyl phosphate	2.5000	2.5141	0.6	15.0
34 Phosmet	2.5000	2.6189	4.8	15.0
32 EPN	2.5000	2.7617	10.5	15.0
33 Azinphos-methyl	2.5000	2.6484	5.9	15.0
35 Azinphos-ethyl	2.5000	2.5066	0.3	15.0
36 Coumaphos	2.5000	2.5503	2.0	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B/004F0401.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 Morphos	2.5000	2.4877	0.5	15.0
40 Total Demeton	2.5000	2.5821	3.3	15.0

Average %D = 6.32

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\004F0401.D
Lab Smp Id: OPP CCV GSV0827 Client Smp ID: OPP CCV GSV0827
Inj Date : 07-JUL-2009 21:09
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP CCV GSV0827
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Meth Date : 08-Jul-2009 18:19 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.255	3.254 (0.183)		321016	2.50000	2.380
2 Dichlorvos	4.072	4.074 (0.228)		202226	2.50000	2.414
3 Mevinphos	5.742	5.739 (0.322)		113549	2.50000	2.468
\$ 4 Chlormefos	5.828	5.836 (0.327)		292861	2.50000	2.792
5 Thionazin	7.500	7.507 (0.421)		234553	2.50000	2.450
6 Demeton-O	7.640	7.649 (0.428)		78602	0.81250	0.8579
7 Ethoprop	7.845	7.852 (0.440)		229122	2.50000	2.732
8 Naled	8.052	8.057 (0.452)		77527	2.50000	3.611
* 9 Tributylphosphate	8.140	8.187 (1.000)		186566	2.00000	
10 Sulfotep	8.430	8.442 (0.473)		311259	2.50000	2.599
11 Phorate	8.522	8.532 (0.478)		223047	2.50000	2.568
12 Dimethoate	8.652	8.652 (0.485)		284776	2.50000	2.822
13 Demeton-S	8.843	8.846 (0.496)		126167	1.70000	1.724
14 Simazine	8.912	8.924 (0.500)		95771	2.50000	2.815
15 Atrazine	9.082	9.094 (0.509)		107309	2.50000	2.742
16 propazine	9.228	9.241 (0.518)		91643	2.50000	2.538
17 Disulfoton	9.855	9.869 (0.553)		146269	2.50000	2.489
18 Diazinon	9.892	9.902 (0.555)		231824	2.50000	2.484
19 Methyl Parathion	10.703	10.717 (0.600)		165516	2.50000	2.797
20 Ronnel	11.227	11.241 (0.630)		141621	2.50000	2.315
21 Malathion	11.790	11.804 (0.661)		142369	2.50000	2.558
22 Fenthion	11.917	11.932 (0.668)		150509	2.50000	2.502
23 Parathion	12.005	12.019 (0.673)		172546	2.50000	2.695
24 Chlorpyrifos	12.055	12.067 (0.676)		197212	2.50000	2.546
25 Trichloronate	12.480	12.496 (0.700)		173177	2.50000	2.502
26 Anilazine	12.802	12.817 (0.718)		17558	2.50000	2.821
27 Merphos-A (Merphos)	13.183	13.199 (0.739)		132026	2.50000	2.286
28 Tetrachlorvinphos (Stirophos)	13.808	13.824 (0.774)		97432	2.50000	2.538
29 Tokuthion	14.430	14.449 (0.809)		169363	2.50000	2.552
30 Merphos-B (Merphos Oxone)	14.638	14.651 (0.821)		49439	2.50000	3.186
31 Carbophenothion-methyl	15.215	15.239 (0.853)		128828	2.50000	2.526
32 Fensulfothion	15.353	15.361 (0.861)		111657	2.50000	2.059
33 Bolstar / Famphur	16.038	16.053 (0.899)		316324	5.00000	4.982

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.182	16.197 (0.907)		158736	2.50000	2.492
\$ 35 Triphenyl phosphate	16.698	16.712 (0.936)		121685	2.50000	2.514 (A)
36 Phosmet	16.950	16.963 (0.951)		142769	2.50000	2.619
37 EPN	17.137	17.151 (0.961)		144706	2.50000	2.762
38 Azinphos-methyl	17.467	17.480 (0.980)		153846	2.50000	2.648
* 39 TOCP	17.832	17.846 (1.000)		95733	2.00000	
40 Azinphos-ethyl	17.912	17.926 (1.004)		160610	2.50000	2.507
41 Coumaphos	18.352	18.366 (1.029)		119493	2.50000	2.550
S 42 Merphos				181465	2.50000	2.488
M 43 Total Demeton				204769	2.50000	2.582

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Lab Smp Id: OPP CCV GSV0827
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 07-JUL-2009
Calibration Time: 20:42
Client Smp ID: OPP CCV GSV0827
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	219201	109601	438402	186566	-14.89
39 TOCP	118472	59236	236944	95733	-19.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.14	7.64	8.64	8.14	-0.00
39 TOCP	17.83	17.33	18.33	17.83	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

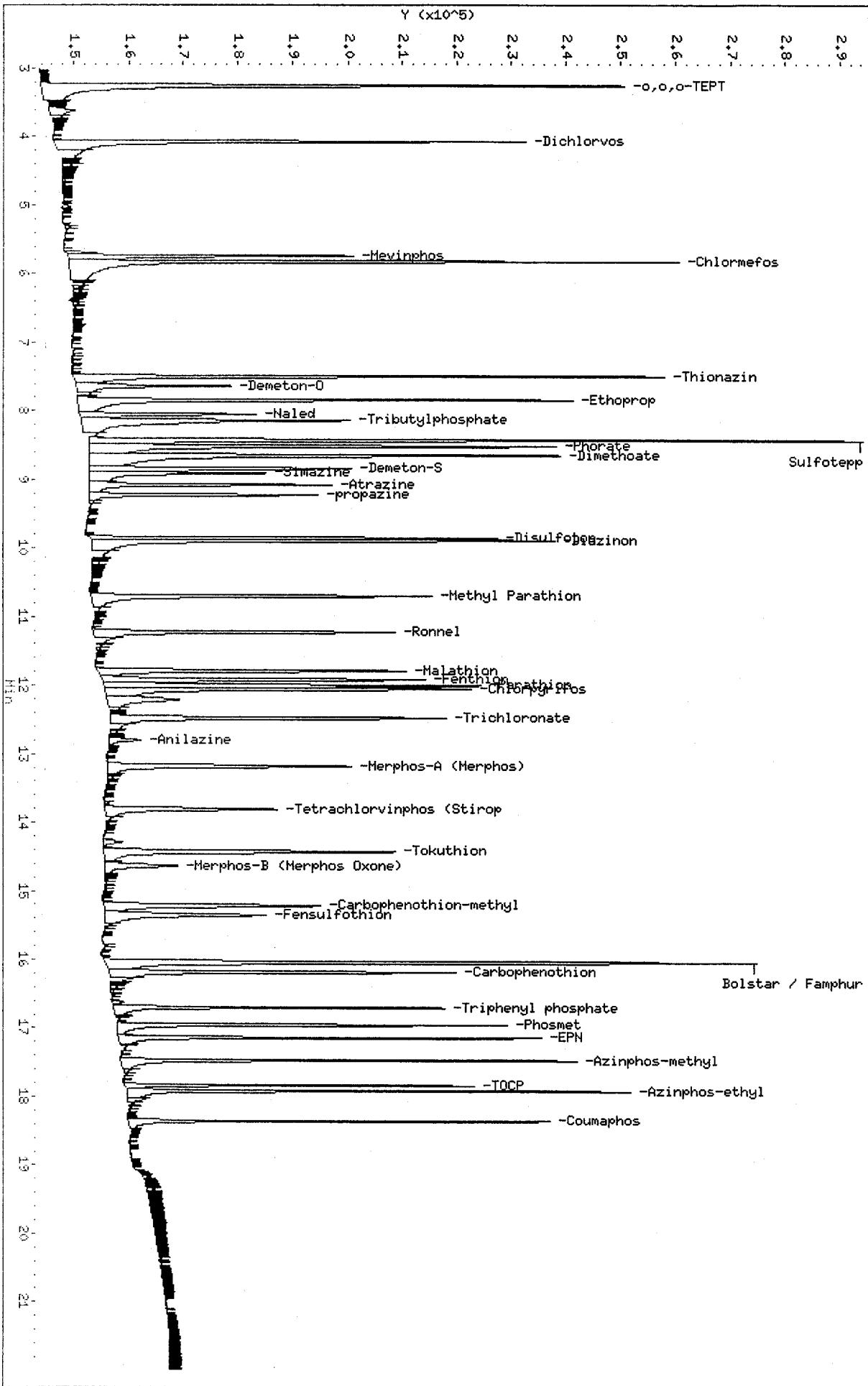
AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Column phase: RTx-1MS
Instrument: GC_D2.i
Operator: MPK/TLM
Column diameter: 0.32

\\DenSvr03\Public\Chem\GCS\GC_D2.i\0707091.B\004F0401.D



CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
1 o,o,o-TEPT	2.5000	2.4400	2.4	15.0
2 Dichlorvos	2.5000	2.4117	3.5	15.0
3 Chlormefos	2.5000	2.4017	3.9	15.0
4 Mevinphos	2.5000	2.6786	7.1	15.0
5 Demeton-O	0.8125	0.8298	2.1	15.0
6 Thionazin	2.5000	2.5529	2.1	15.0
7 Ethoprop	2.5000	2.4557	1.8	15.0
8 Phorate	2.5000	2.4980	0.1	15.0
10 Naled	2.5000	3.1000	24.0	15.0 <-
146 Sulfotepp	2.5000	2.5298	1.2	15.0
10 Simazine	2.5000	2.3655	5.4	15.0
12 Diazinon	2.5000	2.5530	2.1	15.0
150 Atrazine	2.5000	2.6596	6.4	15.0
13 Propazine	2.5000	2.5633	2.5	15.0
14 Disulfoton	2.5000	2.5168	0.7	15.0
15 Demeton-S	1.7000	1.6466	3.1	15.0
16 Dimethoate	2.5000	2.5157	0.6	15.0
17 Ronnel	2.5000	2.4456	2.2	15.0
148 Morphos-A (Morphos)	2.5000	2.3011	8.0	999.0
18 Chlorpyrifos	2.5000	2.3494	6.0	15.0
19 Fenthion	2.5000	2.4193	3.2	15.0
20 Trichloronate	2.5000	2.3667	5.3	15.0
21 Anilazine	2.5000	3.4591	38.4	15.0 <-
23 Methyl Parathion	2.5000	2.5392	1.6	15.0
24 Malathion	2.5000	2.4454	2.2	15.0
25 Tokuthion	2.5000	2.4300	2.8	15.0
26 Parathion	2.5000	2.7066	8.3	15.0
149 Morphos-B (Morphos Oxone)	2.5000	3.4149	36.6	999.0
27 Tetrachlorvinphos (stirophos)	2.5000	2.6254	5.0	15.0
28 Carbophenothion methyl	2.5000	2.3557	5.8	15.0
28 Bolstar	2.5000	2.4788	0.8	15.0
30 Carbophenothion	2.5000	2.5795	3.2	15.0
29 Triphenyl phosphate	2.5000	2.5189	0.8	15.0
30 Fensulfothion	2.5000	2.3196	7.2	15.0
35 Phosmet / EPN	5.0000	5.0440	0.9	15.0
33 Famphur	2.5000	2.3411	6.4	15.0
34 Azinphos-methyl	2.5000	2.5077	0.3	15.0
35 Azinphos-ethyl	2.5000	2.3177	7.3	15.0
36 Coumaphos	2.5000	2.4326	2.7	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B/004F0401.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Analysis Type: NONE

Injection Date: 07-JUL-2009 21:09
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED	MEASURED	MAX	
	CONC.	CONC.	%D	%D
22 Morphos	2.5000	2.5014	0.1	15.0
40 Total Demeton	2.5000	2.4764	0.9	15.0

Average %D = 5.49

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\004F0401.D
Lab Smp Id: OPP CCV GSV0827 Client Smp ID: OPP CCV GSV0827
Inj Date : 07-JUL-2009 21:09
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP CCV GSV0827
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Meth Date : 08-Jul-2009 18:30 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.730	4.731 (0.252)		275992	2.50000	2.440
2 Dichlorvos	6.547	6.546 (0.348)		213003	2.50000	2.412
\$ 3 Chlormefos	7.382	7.384 (0.392)		213533	2.50000	2.402
4 Mevinphos	9.234	9.234 (0.491)		159366	2.50000	2.679
5 Demeton-O	9.732	9.734 (0.517)		47046	0.81250	0.8298
6 Thionazin	9.982	9.984 (0.531)		227132	2.50000	2.553
7 Ethoprop	10.497	10.499 (0.558)		163255	2.50000	2.456
8 Phorate	10.534	10.539 (0.560)		192579	2.50000	2.498
9 Naled	10.937	10.939 (0.581)		60759	2.50000	3.100
10 Sulfotepp	11.014	11.017 (0.586)		294153	2.50000	2.530 (A)
* 11 Tributylphosphate	11.125	11.116 (1.000)		150069	2.00000	
12 Simazine	11.397	11.399 (0.606)		39394	2.50000	2.366 (A)
13 Diazinon	11.537	11.541 (0.613)		159407	2.50000	2.553
14 Atrazine	11.579	11.584 (0.616)		88507	2.50000	2.660 (A)
15 Propazine	11.742	11.747 (0.624)		74538	2.50000	2.563
16 Disulfoton	12.044	12.049 (0.640)		154327	2.50000	2.517
17 Demeton-S	12.125	12.124 (0.645)		118091	1.70000	1.647
18 Dimethoate	13.277	13.282 (0.706)		206749	2.50000	2.516
19 Ronnel	13.580	13.587 (0.722)		135284	2.50000	2.446
20 Merphos-A (Merphos)	13.682	13.689 (1.230)		125130	2.50000	2.301 (A)
21 Chlorpyrifos	14.402	14.409 (0.766)		131817	2.50000	2.349
22 Fenthion	14.652	14.662 (0.779)		125899	2.50000	2.419
23 Trichloronate	14.700	14.711 (0.782)		171920	2.50000	2.367
24 Anilazine	15.204	15.216 (0.808)		16611	2.50000	3.459
25 Methyl Parathion	15.510	15.519 (0.825)		142655	2.50000	2.539 (A)
26 Malathion	15.717	15.724 (0.836)		128707	2.50000	2.445
27 Tokuthion	16.337	16.344 (0.869)		149742	2.50000	2.430
28 Parathion	16.487	16.494 (0.877)		149839	2.50000	2.707 (M)
29 Merphos-B (Merphos Oxone)	16.509	16.517 (1.484)		57178	2.50000	3.415 (AM)
30 Tetrachlorvinphos (stirophos)	16.970	16.977 (0.902)		94021	2.50000	2.625
31 Carbophenothion methyl	17.074	17.082 (0.908)		120915	2.50000	2.356
32 Bolstar	17.434	17.440 (0.927)		134023	2.50000	2.479
33 Carbophenothion	17.515	17.524 (0.931)		137142	2.50000	2.579 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.274	18.281	(0.972)	109896	2.50000	2.519
35 Fensulfothion	18.552	18.559	(0.986)	92919	2.50000	2.320
* 36 TOCP	18.809	18.816	(1.000)	87450	2.00000	
37 Phosmet / EPN	18.902	18.909	(1.005)	225438	5.00000	5.044 (A)
38 Famphur	19.004	19.011	(1.010)	134277	2.50000	2.341
39 Azinphos-methyl	19.139	19.147	(1.018)	131579	2.50000	2.508
40 Azinphos-ethyl	19.357	19.366	(1.029)	115818	2.50000	2.318
41 Coumaphos	20.337	20.347	(1.081)	93466	2.50000	2.433
S 42 Merphos				182308	2.50000	2.501 (A)
M 43 Total Demeton				165137	2.50000	2.476

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Lab Smp Id: OPP CCV GSV0827
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Calibration Date: 07-JUL-2009
Calibration Time: 20:42
Client Smp ID: OPP CCV GSV0827
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	184655	92328	369310	150069	-18.73
36 TOCP	113858	56929	227716	87450	-23.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.13	10.63	11.63	11.13	-0.00
36 TOCP	18.81	18.31	19.31	18.81	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

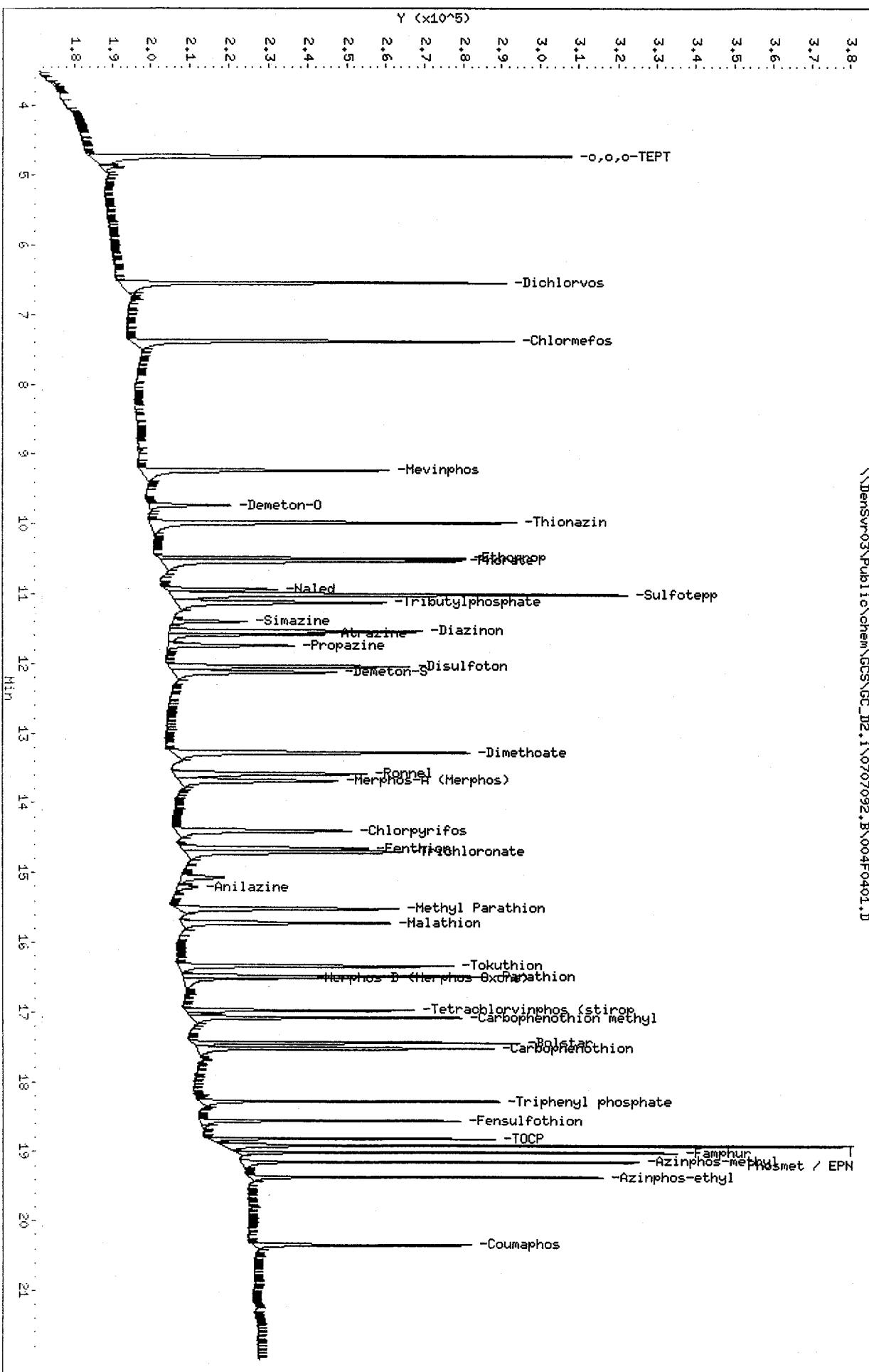
Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\004F0401.D

Page 4

Date : 07-JUL-2009 21:09
Client ID: OPP CCV GSv0827
Sample Info: OPP CCV GSv0827

Column phase: RTx-OPPest

Instrument: GC_D2,i



Data File Name: 004F0401.D

Inj. Date and Time: 07-JUL-2009 21:09

Instrument ID: GC_D2.i

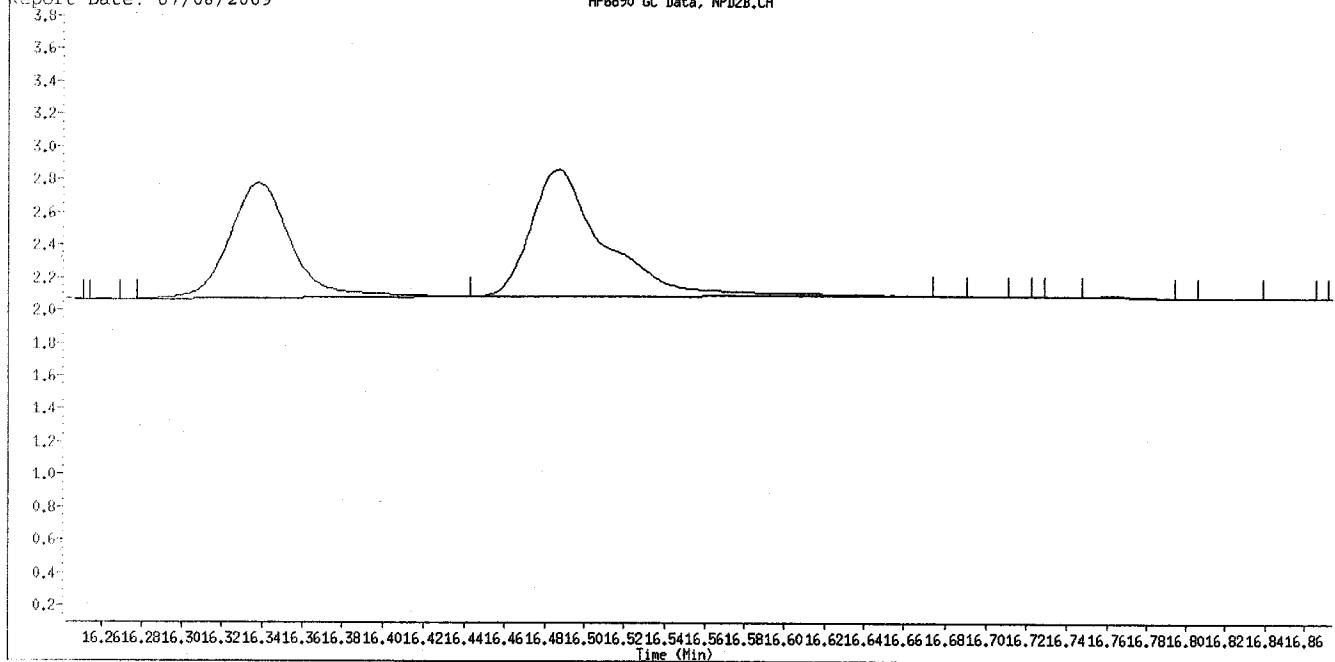
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Compound Name: Parathion

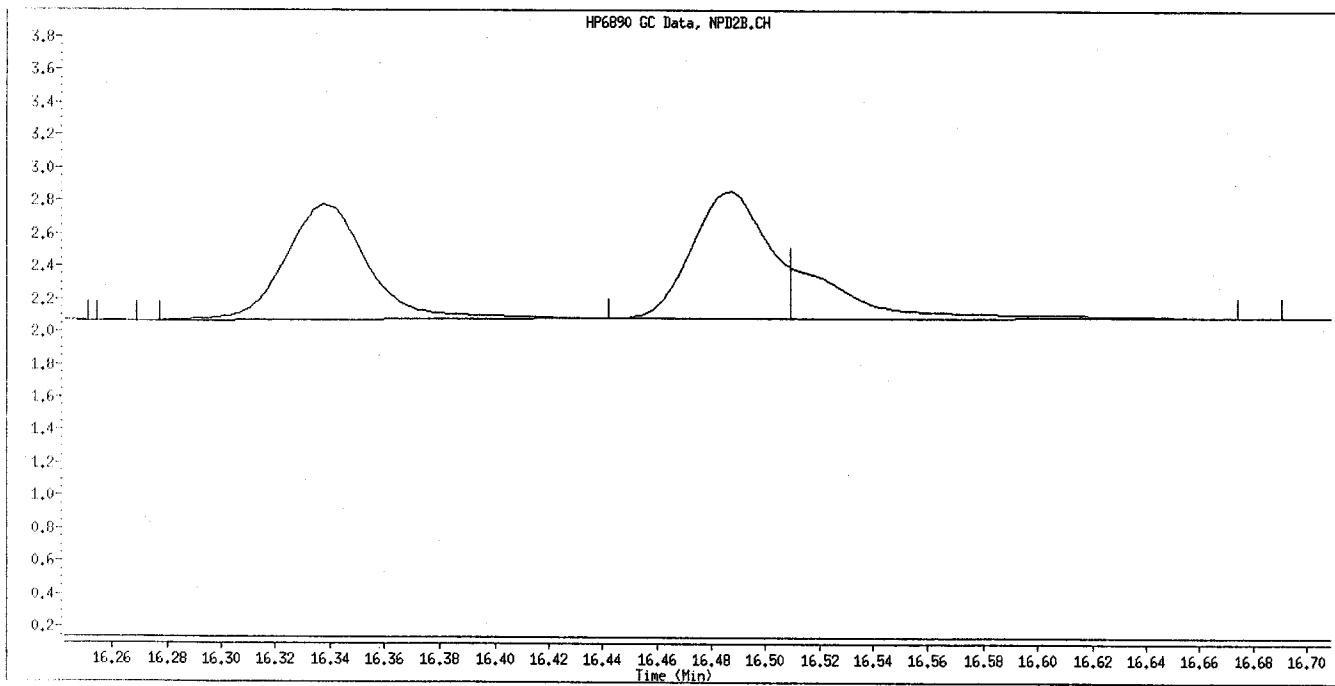
CAS #:

Report Date: 07/08/2009

HP6890 GC Data, NPD2B.CH



Original Integration



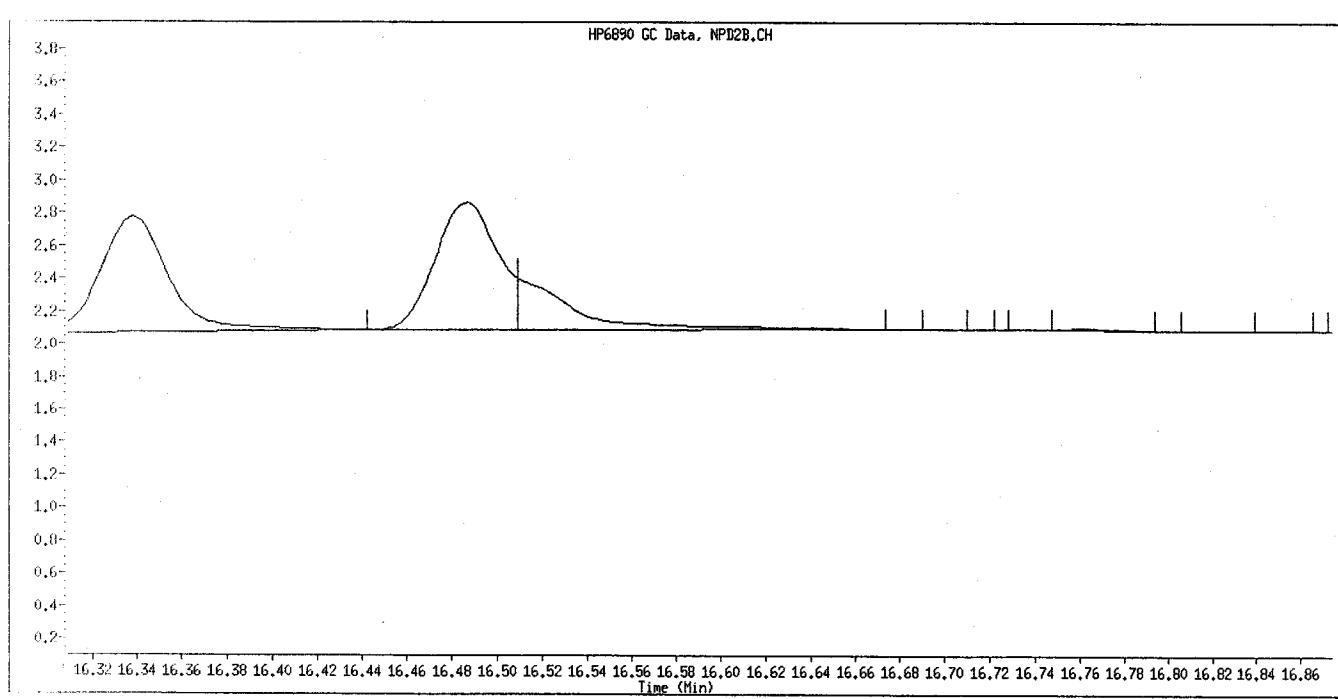
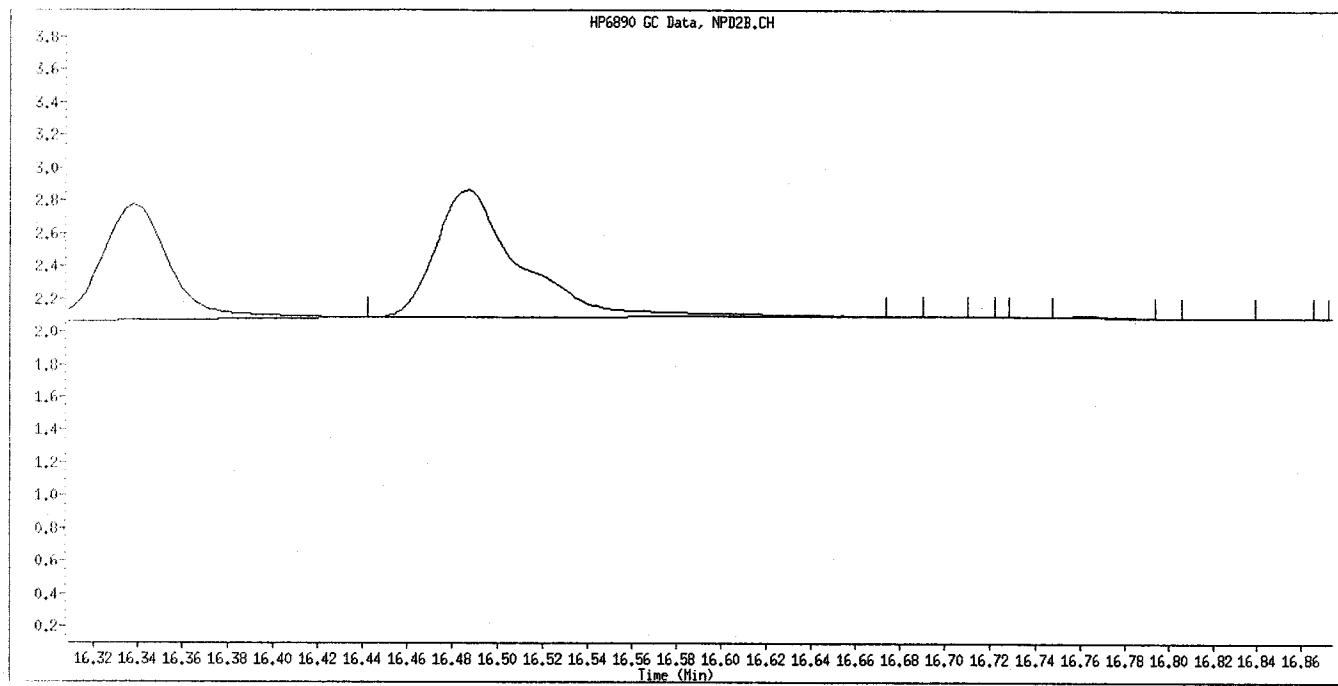
Manual Integration

Manually Integrated By: williamst

Manual Integration Reason: Baseline Event

g
7/9/09

Data File Name: 004F0401.D
Inj. Date and Time: 07-JUL-2009 21:09
Instrument ID: GC_D2.i
Client ID: OPP CCV GSV0827
Compound Name: Merphos-B (Merphos Oxone)
CAS #:
Report Date: 07/08/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

g
7/9/09

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
1 o,o,o-TEPT	2.5000	2.0957	16.2	15.0 <-
2 Dichlorvos	2.5000	2.3485	6.1	15.0
3 Mevinphos	2.5000	2.2839	8.6	15.0
4 Chlormefos	2.5000	2.2168	11.3	15.0
5 Thionazin	2.5000	2.2691	9.2	15.0
6 Demeton-O	0.8125	0.7832	3.6	15.0
7 Ethoprop	2.5000	2.5209	0.8	15.0
8 Naled	2.5000	2.9159	16.6	15.0 <-
9 Sulfotepp	2.5000	2.4689	1.2	15.0
10 Phorate	2.5000	2.4188	3.2	15.0
11 Dimethoate	2.5000	2.5569	2.3	15.0
12 Demeton-S	1.7000	1.6661	2.0	15.0
13 Simazine	2.5000	2.6529	6.1	15.0
14 Atrazine	2.5000	2.4986	0.1	15.0
15 propazine	2.5000	2.3227	7.1	15.0
17 Disulfoton	2.5000	2.4129	3.5	15.0
16 Diazinon	2.5000	2.2665	9.3	15.0
18 Methyl Parathion	2.5000	2.5382	1.5	15.0
19 Ronnel	2.5000	2.1933	12.3	15.0
20 Malathion	2.5000	2.4067	3.7	15.0
21 Fenthion	2.5000	2.2915	8.3	15.0
22 Parathion	2.5000	2.4513	1.9	15.0
23 Chlorpyrifos	2.5000	2.3749	5.0	15.0
24 Trichloronate	2.5000	2.3590	5.6	15.0
25 Anilazine	2.5000	1.6167	35.3	15.0 <-
148 Merphos-A (Merphos)	2.5000	2.0041	19.8	999.0
26 Tetrachlorvinphos (Stirophos)	2.5000	2.3864	4.5	15.0
28 Tokuthion	2.5000	2.3038	7.8	15.0
149 Merphos-B (Merphos Oxone)	2.5000	3.5899	43.6	999.0
29 Carbophenothion-methyl	2.5000	2.3435	6.3	15.0
29 Fensulfothion	2.5000	2.1212	15.2	15.0 <-
30 Bolstar / Famphur	5.0000	4.6803	6.4	15.0
32 Carbophenothion	2.5000	2.5732	2.9	15.0
31 Triphenyl phosphate	2.5000	2.3296	6.8	15.0
34 Phosmet	2.5000	2.3603	5.6	15.0
32 EPN	2.5000	2.4855	0.6	15.0
33 Azinphos-methyl	2.5000	2.3383	6.5	15.0
35 Azinphos-ethyl	2.5000	2.3396	6.4	15.0
36 Coumaphos	2.5000	2.3572	5.7	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B/021F2101.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
27 Mephos	2.5000	2.3511	6.0	15.0
40 Total Demeton	2.5000	2.4493	2.0	15.0

Average %D = 7.98

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\021F2101.D
Lab Smp Id: OPP CCV GSV0827 Client Smp ID: OPP CCV GSV0827
Inj Date : 08-JUL-2009 04:54
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP CCV GSV0827
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Meth Date : 08-Jul-2009 18:19 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 21 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1. o,o,o-TEPT	3.253	3.254 (0.182)	301186	2.50000	2.096	
2 Dichlorvos	4.072	4.074 (0.228)	209591	2.50000	2.348	
3 Mevinphos	5.740	5.739 (0.322)	111965	2.50000	2.284	
\$ 4 Chlormefos	5.830	5.836 (0.327)	247738	2.50000	2.217	
5 Thionazin	7.500	7.507 (0.421)	231428	2.50000	2.269	
6 Demeton-O	7.642	7.649 (0.429)	76676	0.81250	0.7832	
7 Ethoprop	7.845	7.852 (0.440)	225306	2.50000	2.521	
8 Naled	8.052	8.057 (0.452)	65806	2.50000	2.916	
* 9 Tributylphosphate		Compound Not Detected.				
10 Sulfotep	8.432	8.442 (0.473)	315467	2.50000	2.469	
11 Phorate	8.523	8.532 (0.478)	223887	2.50000	2.419	
12 Dimethoate	8.650	8.652 (0.485)	274930	2.50000	2.557	
13 Demeton-S	8.840	8.846 (0.496)	129900	1.70000	1.666	
14 Simazine	8.912	8.924 (0.500)	95990	2.50000	2.653	
15 Atrazine	9.082	9.094 (0.509)	104170	2.50000	2.498	
16 propazine	9.228	9.241 (0.518)	89352	2.50000	2.323	
17 Disulfoton	9.857	9.869 (0.553)	151184	2.50000	2.413	
18 Diazinon	9.890	9.902 (0.555)	225349	2.50000	2.266	
19 Methyl Parathion	10.705	10.717 (0.600)	160050	2.50000	2.538	
20 Ronnel	11.227	11.241 (0.630)	142957	2.50000	2.193	
21 Malathion	11.790	11.804 (0.661)	142884	2.50000	2.407	
22 Fenthion	11.918	11.932 (0.668)	146882	2.50000	2.292	
23 Parathion	12.005	12.019 (0.673)	167217	2.50000	2.451	
24 Chlorpyrifos	12.053	12.067 (0.676)	196004	2.50000	2.375	
25 Trichloronate	12.480	12.496 (0.700)	174007	2.50000	2.359	
26 Anilazine	12.800	12.817 (0.718)	9620	2.50000	1.617	
27 Merphos-A (Merphos)	13.182	13.199 (0.739)	123340	2.50000	2.004	
28 Tetrachlorvinphos (Stirophos)	13.808	13.824 (0.774)	97608	2.50000	2.386	
29 Tokuthion	14.432	14.449 (0.809)	162903	2.50000	2.304	
30 Merphos-B (Merphos Oxone)	14.635	14.651 (0.821)	59404	2.50000	3.590	
31 Carbophenothion-methyl	15.218	15.239 (0.853)	127631	2.50000	2.344	
32 Fensulfothion	15.350	15.361 (0.861)	122745	2.50000	2.121	
33 Bolstar / Famphur	16.038	16.053 (0.899)	316608	5.00000	4.680	

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.182	16.197 (0.907)		174632	2.50000	2.573
\$ 35 Triphenyl phosphate	16.698	16.712 (0.936)		120143	2.50000	2.330 (A)
36 Phosmet	16.952	16.963 (0.951)		137106	2.50000	2.360
37 EPN	17.137	17.151 (0.961)		138489	2.50000	2.485
38 Azinphos-methyl	17.467	17.480 (0.980)		144737	2.50000	2.338
* 39 TOCP	17.832	17.846 (1.000)		102007	2.00000	
40 Azinphos-ethyl	17.912	17.926 (1.004)		160366	2.50000	2.340
41 Coumaphos	18.353	18.366 (1.029)		117684	2.50000	2.357
S 42 Merphos				182744	2.50000	2.351
M 43 Total Demeton				206576	2.50000	2.449

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 021F2101.D
Lab Smp Id: OPP CCV GSV0827
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: OPP CCV GSV0827
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	190357	95179	380714	0	-100.00
39 TOCP	95733	47867	191466	102007	6.55

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.19	7.69	8.69	0.00	-100.00
39 TOCP	17.83	17.33	18.33	17.83	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

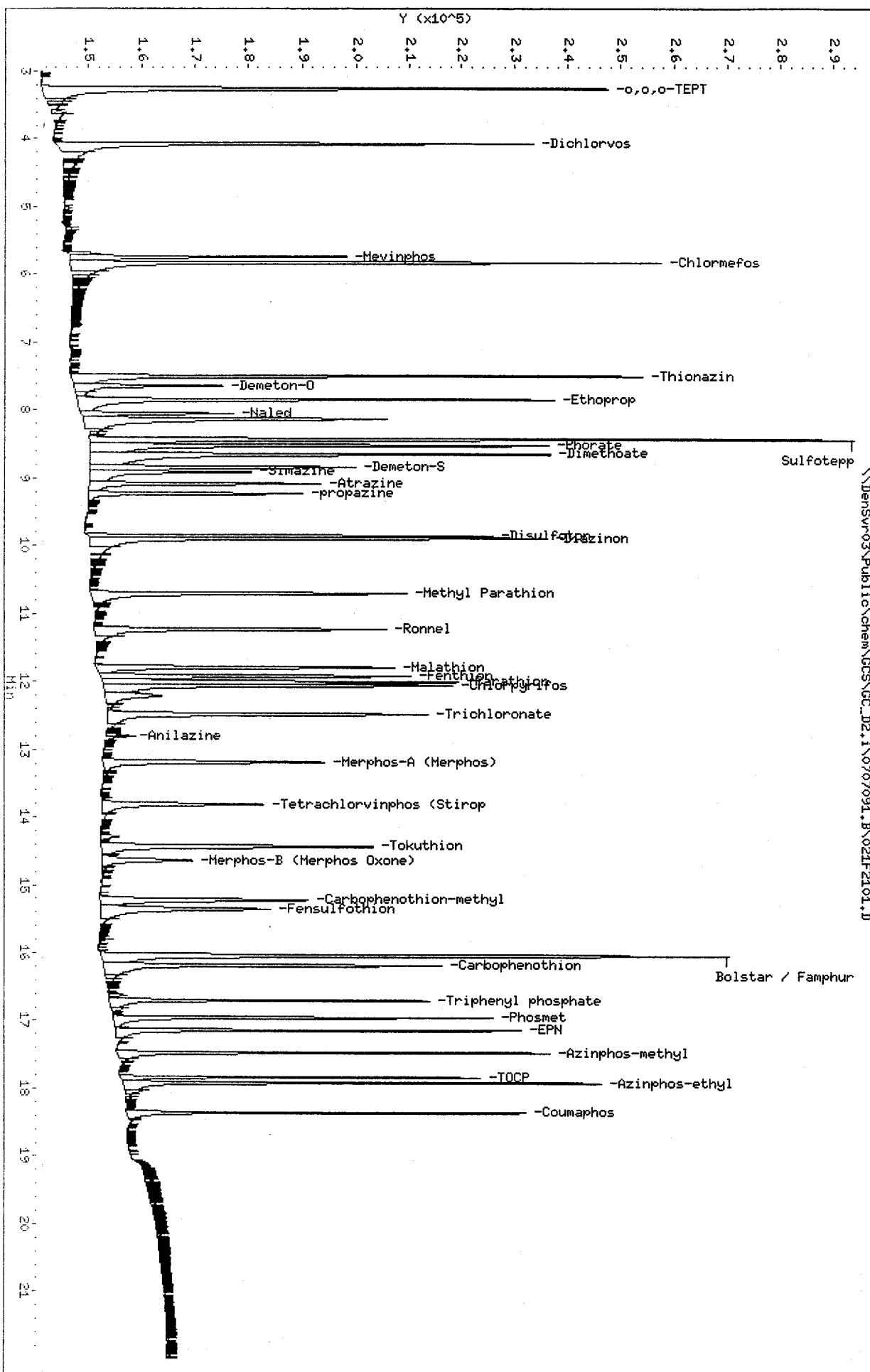
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Client ID: OPP CCV GSV0827
Sample Info: OPP CCV GSV0827

Instrument: GC_D2.i
Operator: HPK/TLW
Column diameter: 0.32

Column phase: RTx-1MS



CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
1 O,O,O-TEPT	2.5000	2.3037	7.9	15.0
2 Dichlorvos	2.5000	2.1228	15.1	15.0 <-
3 Chlormefos	2.5000	2.2394	10.4	15.0
4 Mevinphos	2.5000	2.4681	1.3	15.0
5 Demeton-O	0.8125	0.7943	2.2	15.0
6 Thionazin	2.5000	2.4365	2.5	15.0
7 Ethoprop	2.5000	2.2272	10.9	15.0
8 Phorate	2.5000	2.6787	7.1	15.0
10 Naled	2.5000	2.5277	1.1	15.0
146 Sulfotepp	2.5000	2.3702	5.2	15.0
10 Simazine	2.5000	2.0855	16.6	15.0 <-
12 Diazinon	2.5000	2.3382	6.5	15.0
150 Atrazine	2.5000	2.3968	4.1	15.0
13 Propazine	2.5000	2.2503	10.0	15.0
14 Disulfoton	2.5000	2.3697	5.2	15.0
15 Demeton-S	1.7000	1.5252	10.3	15.0
16 Dimethoate	2.5000	2.4617	1.5	15.0
17 Ronnel	2.5000	2.2334	10.7	15.0
148 Merphos-A (Merphos)	2.5000	1.9678	21.3	999.0
18 Chlorpyrifos	2.5000	2.3218	7.1	15.0
19 Fenthion	2.5000	2.2406	10.4	15.0
20 Trichloronate	2.5000	2.1378	14.5	15.0
21 Anilazine	2.5000	2.1401	14.4	15.0
23 Methyl Parathion	2.5000	2.5957	3.8	15.0
24 Malathion	2.5000	2.6227	4.9	15.0
25 Tokuthion	2.5000	2.3205	7.2	15.0
26 Parathion	2.5000	2.5594	2.4	15.0
149 Merphos-B (Merphos Oxone)	2.5000	3.5261	41.0	999.0
27 Tetrachlorvinphos (stirophos)	2.5000	2.3986	4.1	15.0
28 Carbophenothion methyl	2.5000	2.3825	4.7	15.0
28 Bolstar	2.5000	2.3707	5.2	15.0
30 Carbophenothion	2.5000	2.6830	7.3	15.0
29 Triphenyl phosphate	2.5000	2.4182	3.3	15.0
30 Fensulfothion	2.5000	2.2902	8.4	15.0
35 Phosmet / EPN	5.0000	4.6533	6.9	15.0
33 Famphur	2.5000	2.2054	11.8	15.0
34 Azinphos-methyl	2.5000	2.2190	11.2	15.0
35 Azinphos-ethyl	2.5000	2.3181	7.3	15.0
36 Coumaphos	2.5000	2.3598	5.6	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B/021F2101.D
Report Date: 07/08/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 021F2101.D
Analysis Type: NONE

Injection Date: 08-JUL-2009 04:54
Lab Sample ID: OPP CCV GSV0827
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED	MEASURED	%D	MAX
	CONC.	CONC.		
22 Morphos	2.5000	2.3257	7.0	15.0
40 Total Demeton	2.5000	2.3195	7.2	15.0

Average %D = 8.43

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\021F2101.D
 Lab Smp Id: OPP CCV GSV0827 Client Smp ID: OPP CCV GSV0827
 Inj Date : 08-JUL-2009 04:54
 Operator : MPK/TLW Inst ID: GC_D2.i
 Smp Info : OPP CCV GSV0827
 Misc Info :
 Comment :
 Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
 Meth Date : 08-Jul-2009 18:31 GC_D2.i Quant Type: ISTD
 Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
 Als bottle: 21 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 8141A.sub
 Target Version: 4.14
 Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.730	4.731 (0.252)		266954	2.50000	2.304
2 Dichlorvos	6.547	6.546 (0.348)		192079	2.50000	2.123
\$ 3 Chlormefos	7.384	7.384 (0.393)		203983	2.50000	2.239
4 Mevinphos	9.235	9.234 (0.491)		150433	2.50000	2.468
5 Demeton-O	9.732	9.734 (0.517)		46134	0.81250	0.7943
6 Thionazin	9.982	9.984 (0.531)		222089	2.50000	2.436
7 Ethoprop	10.499	10.499 (0.558)		151695	2.50000	2.227
8 Phorate	10.535	10.539 (0.560)		211571	2.50000	2.679
9 Naled	10.939	10.939 (0.582)		49664	2.50000	2.528
10 Sulfotep	11.014	11.017 (0.586)		282345	2.50000	2.370 (A)
* 11 Tributylphosphate	11.124	11.116 (1.000)		156990	2.00000	
12 Simazine	11.399	11.399 (0.606)		35581	2.50000	2.086 (A)
13 Diazinon	11.539	11.541 (0.613)		149413	2.50000	2.338
14 Atrazine	11.580	11.584 (0.616)		80856	2.50000	2.397 (A)
15 Propazine	11.742	11.747 (0.624)		66822	2.50000	2.250
16 Disulfoton	12.045	12.049 (0.640)		148867	2.50000	2.370
17 Demeton-S	12.124	12.124 (0.645)		111367	1.70000	1.525
18 Dimethoate	13.277	13.282 (0.706)		207266	2.50000	2.462
19 Ronnel	13.582	13.587 (0.722)		126571	2.50000	2.233
20 Merphos-A (Merphos)	13.684	13.689 (1.230)		111943	2.50000	1.968 (A)
21 Chlorpyrifos	14.404	14.409 (0.766)		133459	2.50000	2.322
22 Fenthion	14.654	14.662 (0.779)		119456	2.50000	2.241
23 Trichloronate	14.702	14.711 (0.782)		158297	2.50000	2.138
24 Anilazine	15.210	15.216 (0.809)		10531	2.50000	2.140 (M)
25 Methyl Parathion	15.512	15.519 (0.825)		149401	2.50000	2.596 (A)
26 Malathion	15.719	15.724 (0.836)		141418	2.50000	2.623
27 Tokuthion	16.339	16.344 (0.869)		146498	2.50000	2.320
28 Parathion	16.485	16.494 (0.876)		145157	2.50000	2.559 (M)
29 Merphos-B (Merphos Oxone)	16.509	16.517 (1.484)		61705	2.50000	3.526 (AM)
30 Tetrachlorvinphos (stirophos)	16.970	16.977 (0.902)		88000	2.50000	2.398
31 Carbophenothion methyl	17.075	17.082 (0.908)		125288	2.50000	2.382
32 Bolstar	17.434	17.440 (0.927)		131316	2.50000	2.371
33 Carbophenothion	17.515	17.524 (0.931)		146137	2.50000	2.683 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.274	18.281	(0.972)	108087	2.50000	2.418
35 Fensulfothion	18.552	18.559	(0.986)	93989	2.50000	2.290
* 36 TOCP	18.809	18.816	(1.000)	89591	2.00000	
37 Phosmet / EPN	18.900	18.909	(1.005)	213365	5.00000	4.653
38 Famphur	19.002	19.011	(1.010)	129594	2.50000	2.205
39 Azinphos-methyl	19.137	19.147	(1.017)	119280	2.50000	2.219
40 Azinphos-ethyl	19.357	19.366	(1.029)	118674	2.50000	2.318
41 Coumaphos	20.335	20.347	(1.081)	92888	2.50000	2.360
S 42 Merphos				173648	2.50000	2.326 (A)
M 43 Total Demeton				157501	2.50000	2.320

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 021F2101.D
Lab Smp Id: OPP CCV GSV0827
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: OPP CCV GSV0827
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	150069	75035	300138	156990	4.61
36 TOCP	87450	43725	174900	89591	2.45

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.13	10.63	11.63	11.12	-0.01
36 TOCP	18.81	18.31	19.31	18.81	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

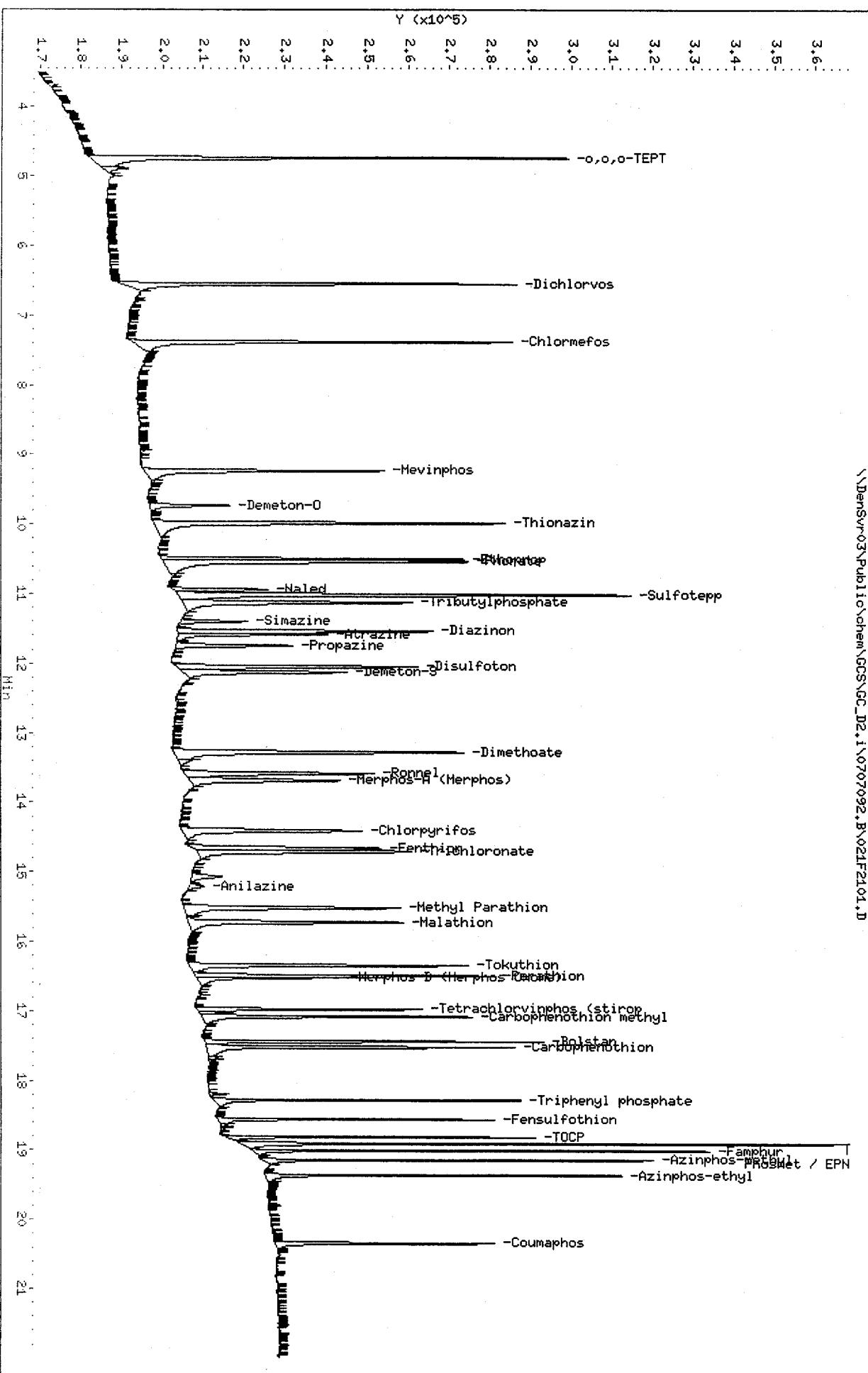
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Instrument: GC_D2.i

Operator: MPK/TLW

Column diameter: 0.32



Data File Name: 021F2101.D

Inj. Date and Time: 08-JUL-2009 04:54

Instrument ID: GC_D2.i

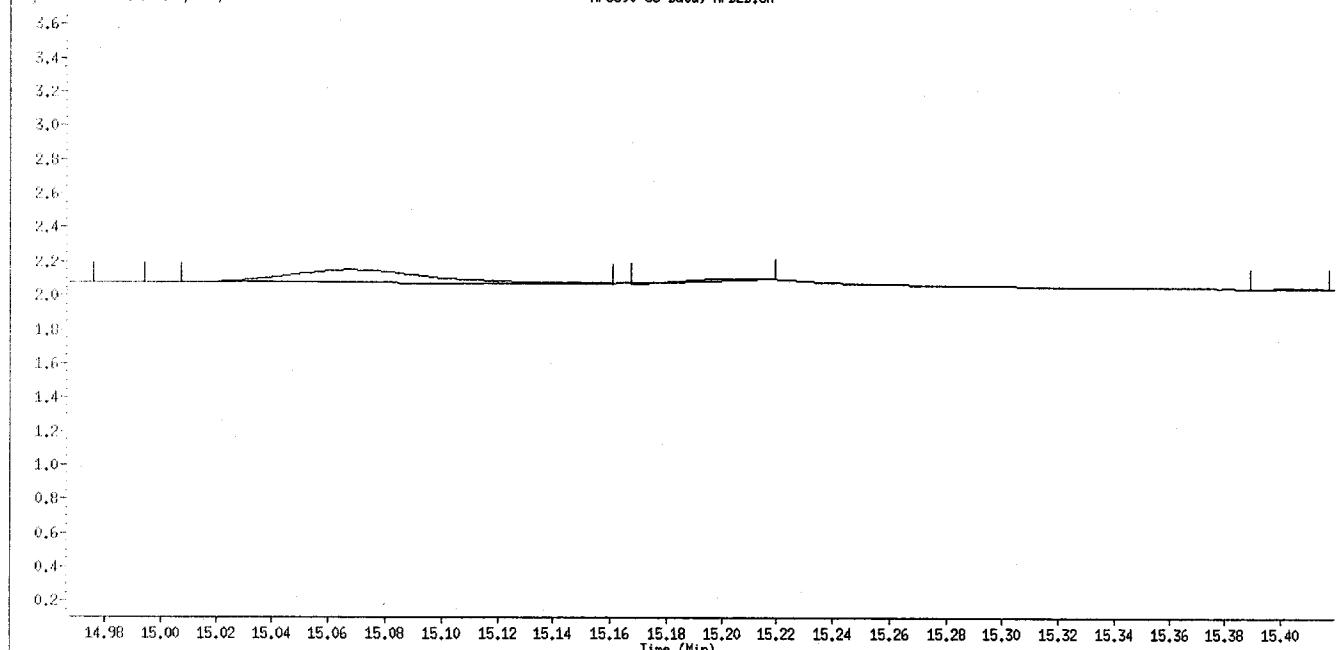
Client ID: OPP CCV GSV0827

Compound Name: Anilazine

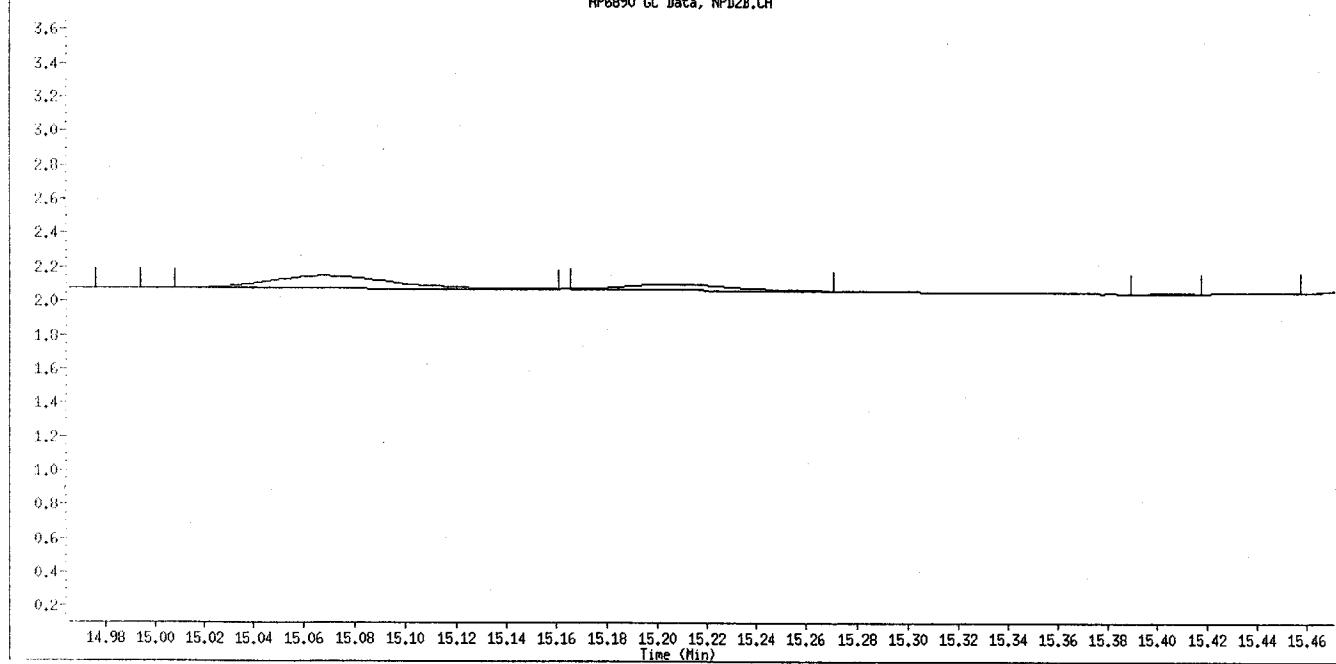
CAS #:

Report Date: 07/08/2009

HP6890 GC Data, NPD2B.CH



HP6890 GC Data, NPD2B.CH

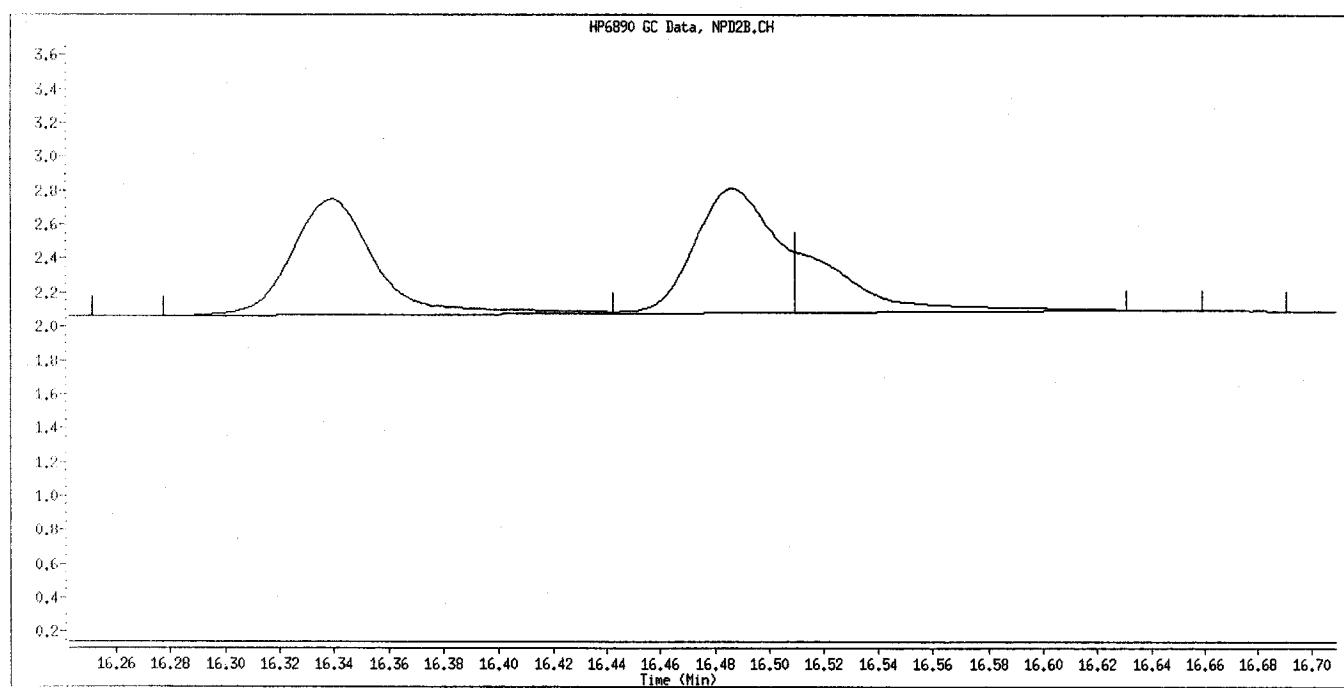
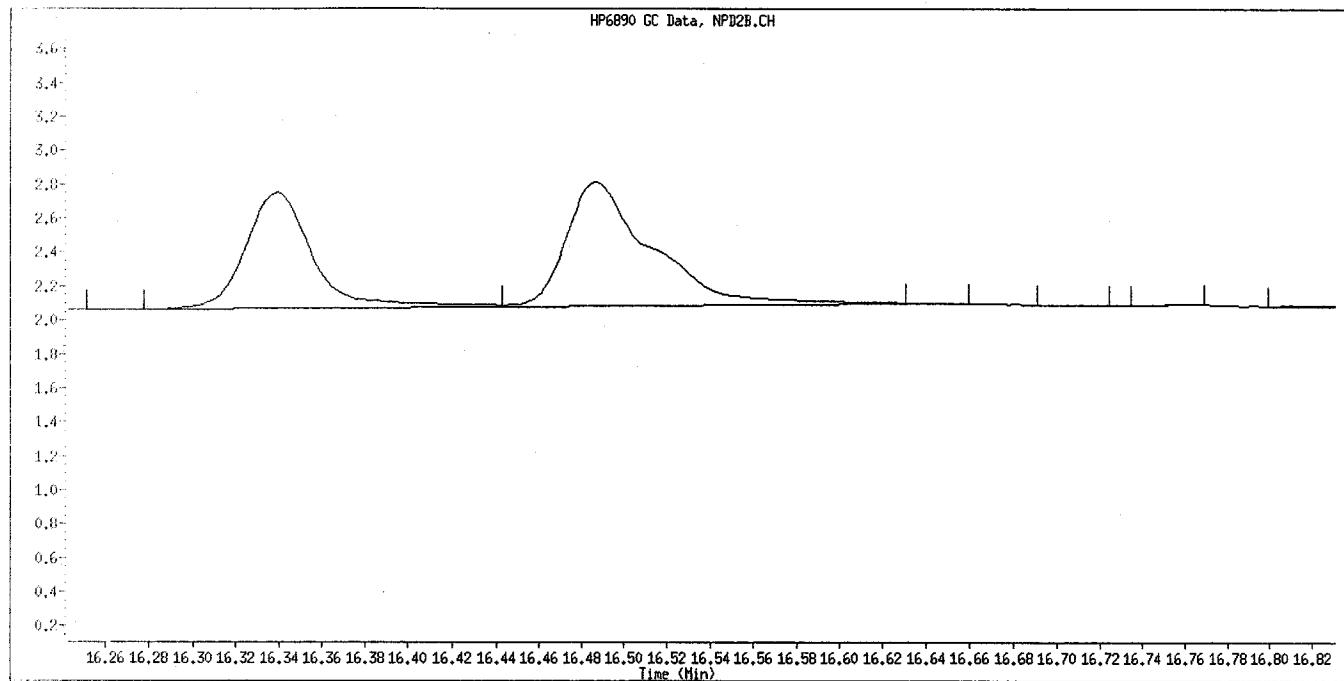


Manually Integrated By: williamst

Manual Integration Reason: Baseline Event

J
7/9/09

Data File Name: 021F2101.D
Inj. Date and Time: 08-JUL-2009 04:54
Instrument ID: GC_D2.i
Client ID: OPP CCV GSV0827
Compound Name: Parathion
CAS #:
Report Date: 07/08/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

7/9/09

Data File Name: 021F2101.D

Inj. Date and Time: 08-JUL-2009 04:54

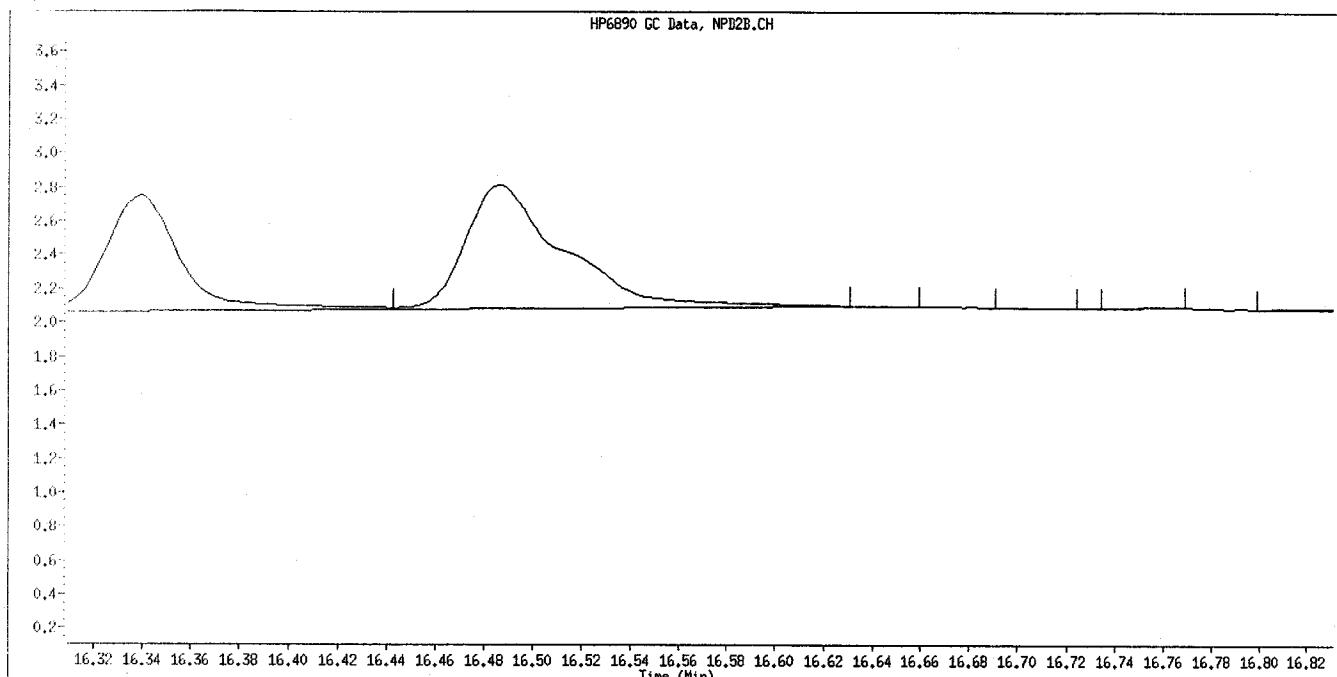
Instrument ID: GC_D2.i

Client ID: OPP CCV GSV0827

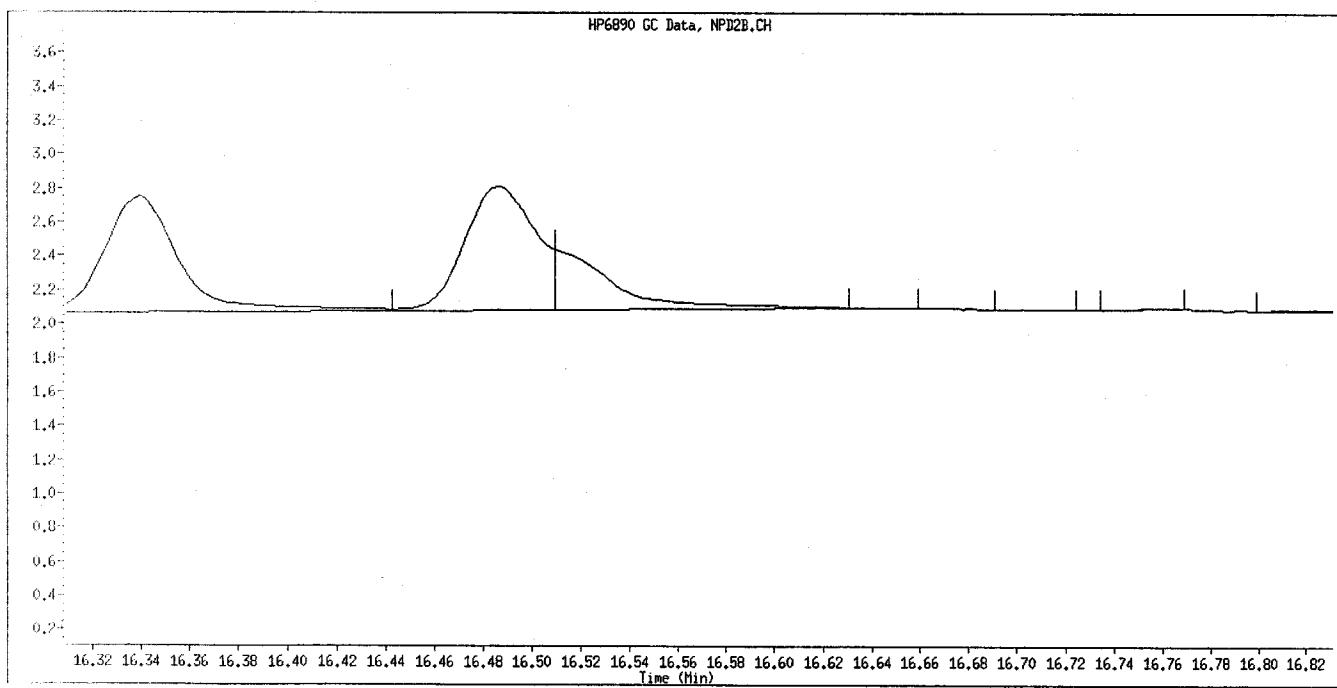
Compound Name: Merphos-B (Merphos Oxone)

CAS #:

Report Date: 07/08/2009



Original Integration



Manual Integration

Manually Integrated By: williamst

Manual Integration Reason: Baseline Event

7/19/09

GC SEMIVOLATILE SAMPLE DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\016F1601.D
Lab Smp Id: LF0FF1AA Client Smp ID: BLANK
Inj Date : 08-JUL-2009 02:37
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LF0FF1AA,MB
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Meth Date : 08-Jul-2009 18:19 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1000.000	Volume of Sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT				Compound Not Detected.		
2 Dichlorvos				Compound Not Detected.		
3 Mevinphos				Compound Not Detected.		
\$ 4 Chlormefos	5.830	5.836 (0.327)		72644	0.54596	1.092
5 Thionazin				Compound Not Detected.		
6 Demeton-O				Compound Not Detected.		
7 Ethoprop				Compound Not Detected.		
8 Naled	8.070	8.057 (0.453)		62	0.19480	0.2896 <i>WT a peak</i>
* 9 Tributylphosphate	8.147	8.187 (1.000)		181613	2.00000	
10 Sulfotepp				Compound Not Detected.		
11 Phorate				Compound Not Detected.		
12 Dimethoate				Compound Not Detected.		
13 Demeton-S				Compound Not Detected.		
14 Simazine				Compound Not Detected.		
15 Atrazine				Compound Not Detected.		
16 propazine				Compound Not Detected.		
17 Disulfoton				Compound Not Detected.		
18 Diazinon				Compound Not Detected.		
19 Methyl Parathion				Compound Not Detected.		
20 Ronnel				Compound Not Detected.		
21 Malathion				Compound Not Detected.		
22 Fenthion				Compound Not Detected.		

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion				Compound Not Detected.		
24 Chlорpyrifos	12.053	12.067 (0.676)		159	0.00162	0.003236 (a)
25 Trichloronate				Compound Not Detected.		
26 Anilazine				Compound Not Detected.		
27 Merphos-A (Merphos)	13.187	13.199 (0.740)		256	0.00349	0.006988
28 Tetrachlorvinphos (Stirophos)	13.847	13.824 (0.777)		172	0.00353	0.007064
29 Tokuthion				Compound Not Detected.		
30 Merphos-B (Merphos Oxone)	14.613	14.651 (0.820)		138	0.02785	0.05570
31 Carbophenothion-methyl				Compound Not Detected.		
32 Fensulfothion				Compound Not Detected.		
33 Bolstar / Famphur				Compound Not Detected.		
34 Carbophenothion				Compound Not Detected.		
\$ 35 Triphenyl phosphate	16.700	16.712 (0.937)		51208	0.83396	1.668
36 Phosmet				Compound Not Detected.		
37 EPN				Compound Not Detected.		
38 Azinphos-methyl				Compound Not Detected.		
* 39 TOCP	17.832	17.846 (1.000)		121451	2.00000	
40 Azinphos-ethyl				Compound Not Detected.		
41 Coumaphos				Compound Not Detected.		
S 42 Merphos					394	0.00426 0.008515
M 43 Total Demeton				Compound Not Detected.		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ) .

TestAmerica

INTERNAL STANDARD COMPOUNDS AREA AND RT SUMMARY

Instrument ID: GC_D2.i Calibration Date: 07-JUL-2009
Lab File ID: 016F1601.D Calibration Time: 21:09
Lab Smp Id: LF0FF1AA Client Smp ID: BLANK
Analysis Type: SV Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	186566	93283	373132	181613	-2.65
39 TOCP	95733	47867	191466	121451	26.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.14	7.64	8.64	8.15	0.08
39 TOCP	17.83	17.33	18.33	17.83	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9G010000
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LF0FF1AA Client Smp ID: BLANK
Level: LOW Operator: MPK/TLW
Data Type: GC DATA SampleType: BLANK
SpikeList File: fullDFCwater.spk Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	2.000	1.092	54.60	48-114
\$ 35 Triphenyl phosphat	2.000	1.668	83.40	50-150

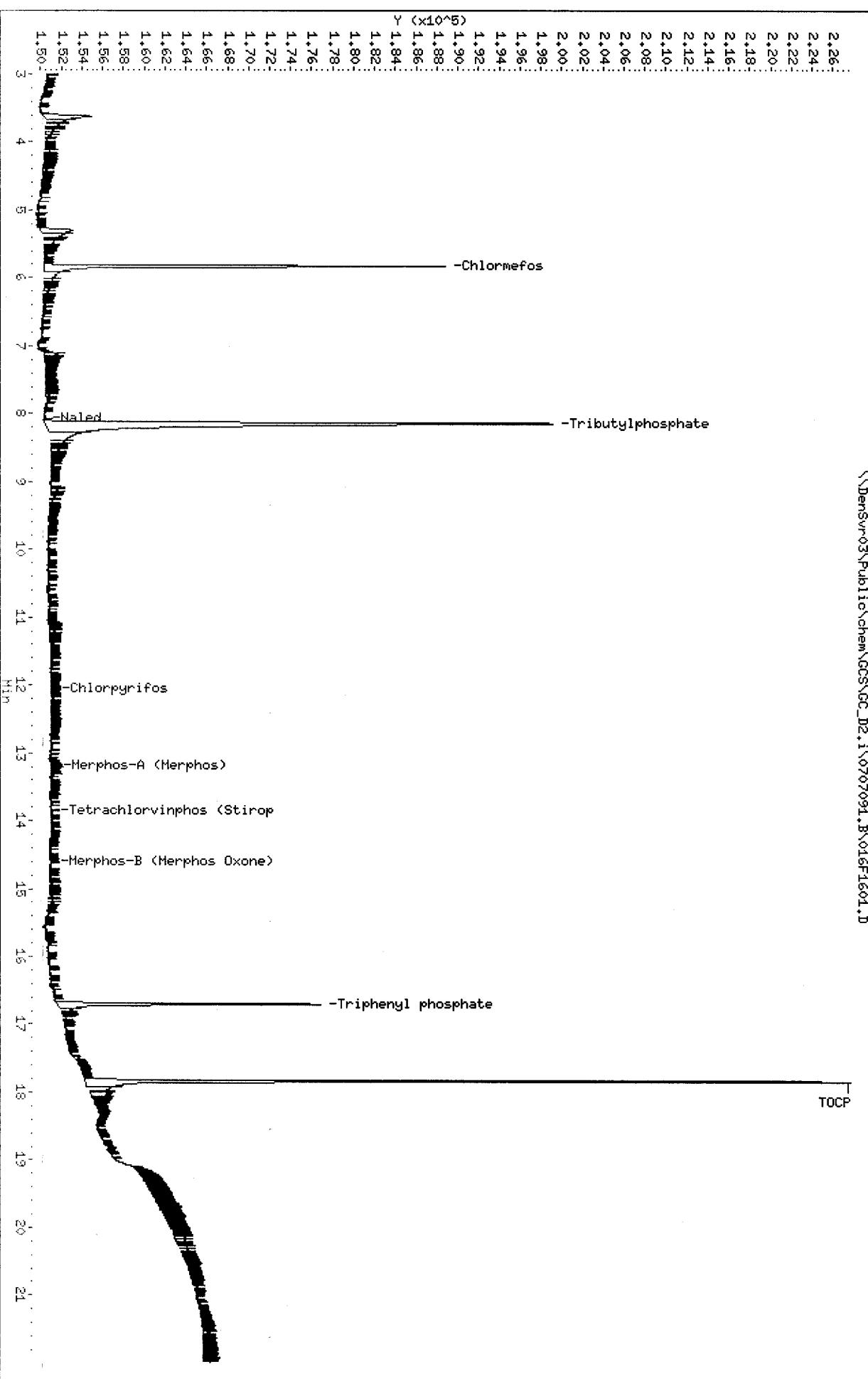
Client ID: BLANK

Sample Info: LF0FF1AA.MB

Column phase: RTx-1HS

Instrument: GC_D2.i
Operator: MPK/TLW
Column diameter: 0.32

\\DenSurv03\Public\chem\GCS\GC_D2.i\0707091.B\016F1601.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\016F1601.D
Lab Smp Id: LF0FF1AA Client Smp ID: BLANK
Inj Date : 08-JUL-2009 02:37
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LF0FF1AA, MB
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Meth Date : 08-Jul-2009 18:30 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1000.000	Volume of Sample Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS				
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL) FINAL (ug/L)
1 o,o,o-TEPT				Compound Not Detected.	
2 Dichlorvos				Compound Not Detected.	
\$ 3 Chlormefos	7.382	7.384 (0.392)		69921	0.67174 1.343
4 Mevinphos				Compound Not Detected.	
5 Demeton-O				Compound Not Detected.	
6 Thionazin				Compound Not Detected.	
7 Ethoprop				Compound Not Detected.	
8 Phorate				Compound Not Detected.	
9 Naled	10.952	10.939 (0.582)		52	0.27080 0.5416
10 Sulfotepp	11.020	11.017 (0.586)		116	9e-004 0.001704 (aA)
* 11 Tributylphosphate	11.127	11.116 (1.000)		167250	2.00000
12 Simazine	11.425	11.399 (0.607)		70	0.00359 0.007181 (aA)
13 Diazinon				Compound Not Detected.	
14 Atrazine	11.572	11.584 (0.615)		58	0.23377 0.4675 (aA)
15 Propazine				Compound Not Detected.	
16 Disulfoton				Compound Not Detected.	
17 Demeton-S	12.112	12.124 (0.644)		81	0.11998 0.2400
18 Dimethoate				Compound Not Detected.	
19 Ronnel				Compound Not Detected.	
20 Merphos-A (Merphos)	13.722	13.689 (1.233)		50	8e-004 0.001650 (aA)
21 Chloryrifos				Compound Not Detected.	
22 Fenthion				Compound Not Detected.	

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Trichloronate	14.697	14.711 (0.781)		90	0.10627	0.2125
24 Anilazine				Compound Not Detected.		
25 Methyl Parathion				Compound Not Detected.		
26 Malathion	15.732	15.724 (0.836)		79	0.00128	0.002564 (a)
27 Tokuthion				Compound Not Detected.		
28 Parathion	16.494	16.494 (0.877)		53	8e-004	0.001636 (a)
29 Merphos-B (Merphos Oxone)				Compound Not Detected.		
30 Tetrachlorvinphos (stirophos)				Compound Not Detected.		
31 Carbophenothon methyl				Compound Not Detected.		
32 Bolstar				Compound Not Detected.		
33 Carbophenothon				Compound Not Detected.		
\$ 34 Triphenyl phosphate	18.274	18.281 (0.972)		43273	0.84722	1.694
35 Fensulfothion				Compound Not Detected.		
* 36 TOCP	18.809	18.816 (1.000)		102379	2.00000	
37 Phosmet / EPN				Compound Not Detected.		
38 Fampur				Compound Not Detected.		
39 Azinphos-methyl				Compound Not Detected.		
40 Azinphos-ethyl				Compound Not Detected.		
41 Coumaphos				Compound Not Detected.		
S 42 Merphos				Compound Not Detected.		
M 43 Total Demeton				81	0.11998	0.2400

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ) .
- A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 016F1601.D
Lab Smp Id: LF0FF1AA
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: BLANK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	150069	75035	300138	167250	11.45
36 TOCP	87450	43725	174900	102379	17.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.13	10.63	11.63	11.13	0.01
36 TOCP	18.81	18.31	19.31	18.81	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LF0FF1AA
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Client SDG: D9G010000
Fraction: SV
Client Smp ID: BLANK
Operator: MPK/TLW
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	2.000	1.343	67.17	48-114
\$ 34 Triphenyl phosphat	2.000	1.694	84.72	50-150

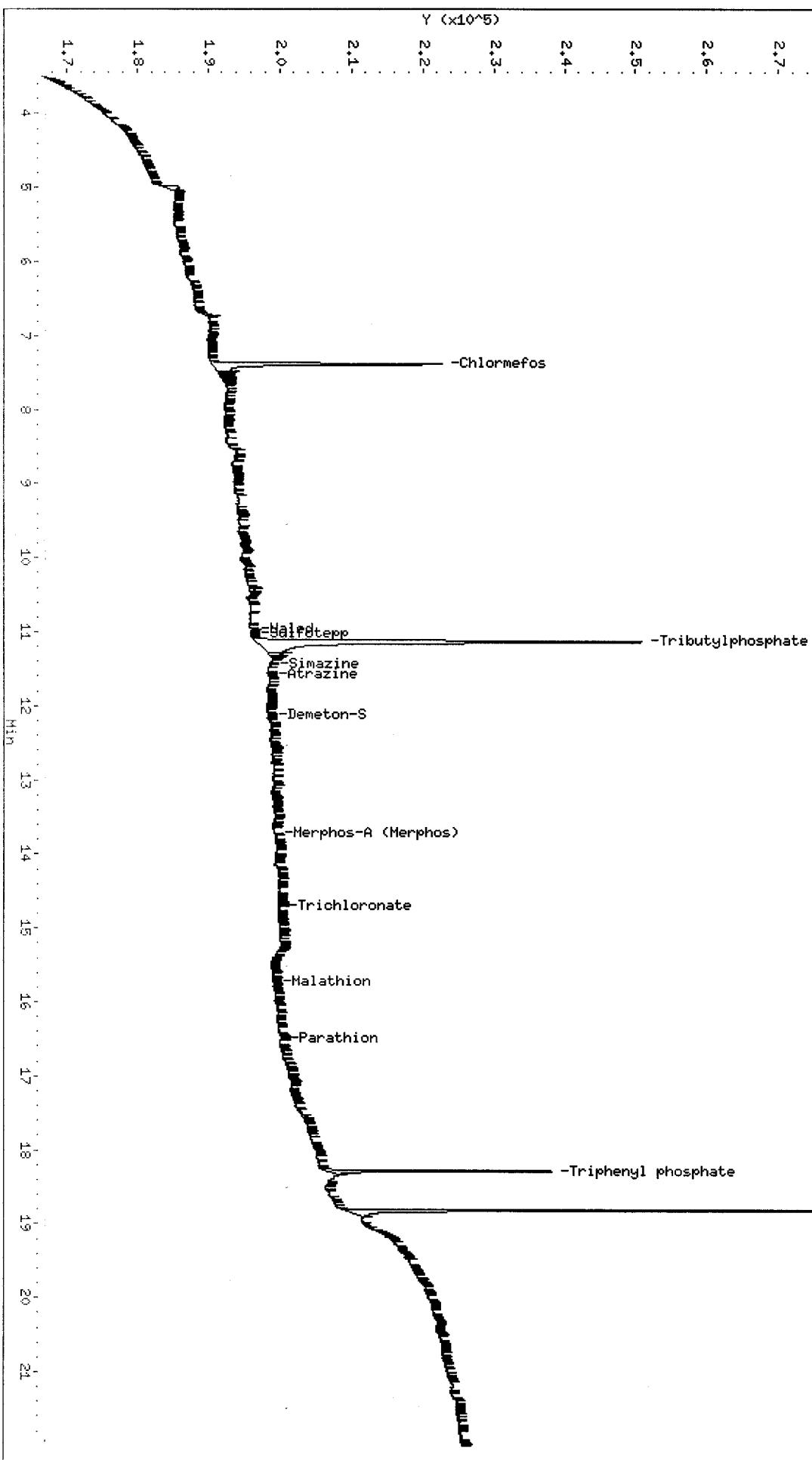
Client ID: BLANK
Sample Info: LFOFFIAA.MB

Instrument: GC_D2.i

Operator: MPK/TLW
Column diameter: 0.32

\\DenSvr-03\Public\chem\GCS\GC_D2.i\0707092.B\016F1601.D

\\DenSvr-03\Public\chem\GCS\GC_D2.i\0707092.B\016F1601.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\017F1701.D
Lab Smp Id: LF0FF1AC Client Smp ID: LCS
Inj Date : 08-JUL-2009 03:05
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LF0FF1AC, LCS
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Meth Date : 08-Jul-2009 18:19 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1000.000	Volume of Sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT	3.257	3.254 (0.183)	231452	1.46813	2.936	
2 Dichlorvos	4.077	4.074 (0.229)	178002	1.81826	3.636	
3 Mevinphos	5.747	5.739 (0.322)	72484	1.34788	2.696	
\$ 4. Chlormefos	5.830	5.836 (0.327)	98929	0.80698	1.614	
5 Thionazin	7.502	7.507 (0.421)	170669	1.52549	3.051	
6 Demeton-O	7.642	7.649 (0.429)	133384	1.25714	2.514	
7 Ethoprop	7.847	7.852 (0.440)	164364	1.67648	3.353	
8 Naled	8.055	8.057 (0.452)	49086	2.04444	4.089	
* 9 Tributylphosphate	8.138	8.187 (1.000)	203815	2.00000		
10 Sulfotepp	8.432	8.442 (0.473)	203720	1.42492	2.850	
11 Phorate	8.523	8.532 (0.478)	126518	1.24607	2.492	
12 Dimethoate	8.655	8.652 (0.485)	160594	1.36157	2.723	
13 Demeton-S	8.857	8.846 (0.497)	9042	0.10572	0.2114	
14, Simazine	8.913	8.924 (0.500)	59775	1.54050	3.081	
15 Atrazine	9.083	9.094 (0.509)	67491	1.47572	2.951	
16 propazine	9.230	9.241 (0.518)	60236	1.42744	2.855	
17 Disulfoton	9.857	9.869 (0.553)	104369	1.50419	3.008	
18 Diazinon	9.893	9.902 (0.555)	152648	1.39958	2.799	
19 Methyl Parathion	10.705	10.717 (0.600)	117958	1.70535	3.411	
20 Ronnel	11.228	11.241 (0.630)	102521	1.43386	2.868	
21 Malathion	11.792	11.804 (0.661)	88680	1.34375	2.688	
22 Fenthion	11.918	11.932 (0.668)	102640	1.45977	2.920	

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	12.005	12.019 (0.673)		115805	1.54756	3.095
24 Chlорpyrifos	12.057	12.067 (0.676)		138935	1.53460	3.069
25 Trichloronate	12.480	12.496 (0.700)		113121	1.39802	2.796
26 Anilazine	12.802	12.817 (0.718)		13670	2.02291	4.046
27 Merphos-A (Merphos)	13.190	13.199 (0.740)		278	0.00412	0.008236
28 Tetrachlorvinphos (Stirophos)	13.807	13.824 (0.774)		70667	1.57500	3.150
29 Tokuthion	14.430	14.449 (0.809)		116800	1.50581	3.012
30 Merphos-B (Merphos Oxone)	14.633	14.651 (0.821)		118340	6.50237	13.00 (A)
31 Carbophenothion-methyl	15.218	15.239 (0.853)		90608	1.49303	2.986
32 Fensulfothion	15.353	15.361 (0.861)		77609	1.26268	2.525
33 Bolistar / Famphur	16.038	16.053 (0.899)		231978	3.12615	6.252
34 Carbophenothion	16.180	16.197 (0.907)		112573	1.51217	3.024
\$ 35 Triphenyl phosphate	16.697	16.712 (0.936)		41516	0.73385	1.468
36 Phosmet	16.950	16.963 (0.951)		103758	1.62835	3.257
37 EPN	17.137	17.151 (0.961)		98975	1.63643	3.273
38 Azinphos-methyl	17.467	17.480 (0.980)		100105	1.47432	2.949
* 39 TOCP	17.832	17.846 (1.000)		111897	2.00000	
40 Azinphos-ethyl	17.912	17.926 (1.004)		113501	1.45692	2.914
41 Coumaphos	18.352	18.366 (1.029)		85342	1.55834	3.117
S 42 Merphos				118618	1.39122	2.782
M 43 Total Demeton				142426	1.36286	2.726

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i Calibration Date: 07-JUL-2009
Lab File ID: 017F1701.D Calibration Time: 21:09
Lab Smp Id: LF0FF1AC Client Smp ID: LCS
Analysis Type: SV Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	186566	93283	373132	203815	9.25
39 TOCP	95733	47867	191466	111897	16.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.14	7.64	8.64	8.14	-0.02
39 TOCP	17.83	17.33	18.33	17.83	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9G010000
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LF0FF1AC Client Smp ID: LCS
Level: LOW Operator: MPK/TLW
Data Type: GC DATA SampleType: LCS
SpikeList File: fullDFCwater.spk Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 o,o,o-TEPT	4.000	2.936	73.41	36-119
2 Dichlorvos	4.000	3.636	90.91	50-120
3 Mevinphos	4.000	2.696	67.39	35-108
\$ 4 Chlormefos	2.000	1.614	80.70	48-114
5 Thionazin	4.000	3.051	76.27	65-116
7 Ethoprop	4.000	3.353	83.82	65-108
8 Naled	4.000	4.089	102.22	36-119
10 Sulfotepp	4.000	2.850	71.25	69-103
11 Phorate	4.000	2.492	62.30	62-104
12 Dimethoate	4.000	2.723	68.08	28-115
14 Simazine	4.000	3.081	77.03	47-109
15 Atrazine	4.000	2.951	73.79	36-119
16 propazine	4.000	2.855	71.37	36-119
17 Disulfoton	4.000	3.008	75.21	36-119
18 Diazinon	4.000	2.799	69.98	36-119
19 Methyl Parathion	4.000	3.411	85.27	68-119
20 Ronnel	4.000	2.868	71.69	62-115
21 Malathion	4.000	2.688	67.19	67-115
22 Fenthion	4.000	2.920	72.99	36-119
23 Parathion	4.000	3.095	77.38	36-119
24 Chlorpyrifos	4.000	3.069	76.73	36-119
25 Trichloronate	4.000	2.796	69.90	36-119
26 Anilazine	4.000	4.046	101.15	47-115
28 Tetrachlorvinphos	4.000	3.150	78.75	36-119
29 Tokuthion	4.000	3.012	75.29	36-119
31 Carbophenothion-me	4.000	2.986	74.65	36-119
32 Fensulfothion	4.000	2.525	63.13	61-115
33 Bolstar / Famphur	8.000	6.252	78.15	36-119
\$ 34 Carbophenothion	4.000	3.024	75.61	36-119
\$ 35 Triphenyl phosphat	2.000	1.468	73.38	50-150
36 Phosmet	4.000	3.257	81.42	36-119
37 EPN	4.000	3.273	81.82	36-119
38 Azinphos-methyl	4.000	2.949	73.72	55-115
40 Azinphos-ethyl	4.000	2.914	72.85	36-119
41 Coumaphos	4.000	3.117	77.92	62-115
S 42 Merphos	4.000	2.782	69.56	36-119
M 43 Total Demeton	4.000	2.726	68.14	47-115

TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LF0FF1AC
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

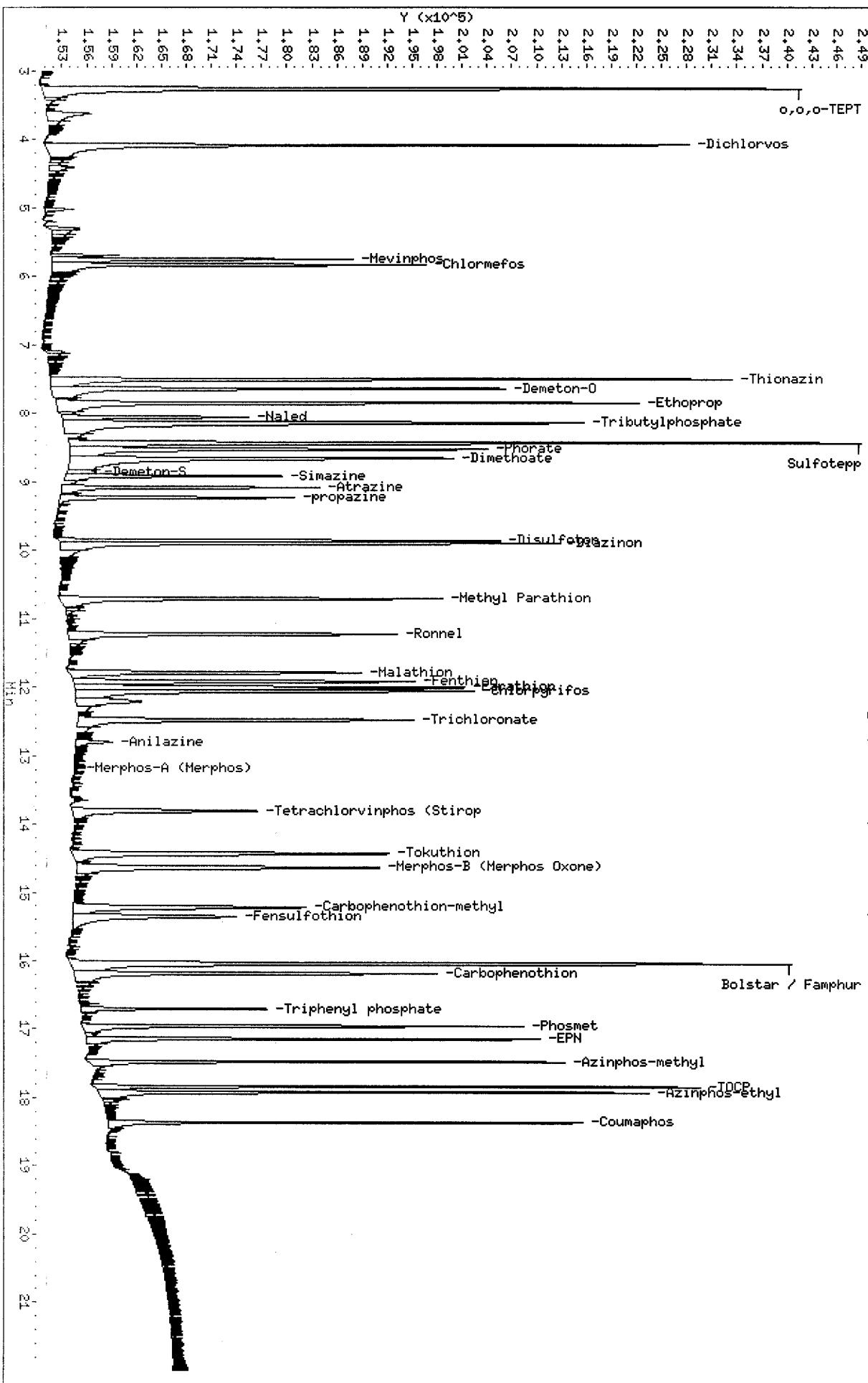
Client SDG: D9G010000
Fraction: SV
Client Smp ID: LCS
Operator: MPK/TLW
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	2.000	1.614	80.70	48-114
\$ 35 Triphenyl phosphat	2.000	1.468	73.38	50-150

Sample Info: LF0FF1AC,LCS
Column phase: RTx-1MS

Instrument: GC_D2+i
Operator: MPK/TLM
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D2.i\\0707091.E\\017F1701.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\017F1701.D
Lab Smp Id: LF0FF1AC Client Smp ID: LCS
Inj Date : 08-JUL-2009 03:05
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LF0FF1AC,LCS
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Meth Date : 08-Jul-2009 18:30 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1000.000	Volume of Sample Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT	4.730	4.731 (0.252)		191127	1.47758	2.955
2 Dichlorvos	6.549	6.546 (0.348)		153823	1.52296	3.046
\$ 3 Chlormefos	7.384	7.384 (0.393)		65111	0.64038	1.281
4 Mevinphos	9.235	9.234 (0.491)		95787	1.40786	2.816
5 Demeton-O	9.732	9.734 (0.517)		98216	1.51492	3.030
6 Thionazin	9.982	9.984 (0.531)		142023	1.39588	2.792
7 Ethoprop	10.497	10.499 (0.558)		115906	1.52456	3.049
8 Phorate	10.534	10.539 (0.560)		96420	1.09367	2.187
9 Naled	10.939	10.939 (0.582)		38523	1.83845	3.677
10 Sulfotepp	11.014	11.017 (0.586)		178391	1.34161	2.683 (A)
* 11 Tributylphosphate	11.124	11.116 (1.000)		161791	2.00000	
12 Simazine	11.397	11.399 (0.606)		36471	1.91507	3.830 (A)
13 Diazinon	11.537	11.541 (0.613)		101474	1.43405	2.868
14 Atrazine	11.579	11.584 (0.616)		49338	1.41558	2.831 (A)
15 Propazine	11.744	11.747 (0.624)		42694	1.31293	2.626
16 Disulfoton	12.044	12.049 (0.640)		116106	1.65575	3.311
17 Demeton-S	12.130	12.124 (0.645)		7550	0.20448	0.4090 (R)
18 Dimethoate	13.277	13.282 (0.706)		115995	1.23422	2.468
19 Ronnel	13.582	13.587 (0.722)		97648	1.54361	3.087
20 Merphos-A (Merphos)	13.697	13.689 (1.231)		547	0.00933	0.01866 (aA)
21 Chloryrifos	14.402	14.409 (0.766)		97905	1.52589	3.052
22 Fenthion	14.652	14.662 (0.779)		83700	1.40646	2.813

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Trichloronate	14.702	14.711 (0.782)		110326	1.37431	2.749
24 Anilazine	15.209	15.216 (0.809)		12155	2.21297	4.426
25 Methyl Parathion	15.512	15.519 (0.825)		105144	1.63654	3.273
26 Malathion	15.717	15.724 (0.836)		74929	1.24493	2.490
27 Tokuthion	16.337	16.344 (0.869)		102418	1.45335	2.907
28 Parathion	16.487	16.494 (0.877)		88660	1.40045	2.801
29 Merphos-B (Merphos Oxone)	16.514	16.517 (1.485)		134699	7.58440	15.17(A)
30 Tetrachlorvinphos (stirophos)	16.970	16.977 (0.902)		65050	1.58841	3.177
31 Carbophenothion methyl	17.074	17.082 (0.908)		80242	1.36701	2.734
32 Bolstar	17.434	17.440 (0.927)		98914	1.59975	3.200
33 Carbophenothion	17.515	17.524 (0.931)		90326	1.48563	2.971(A)
\$ 34 Triphenyl phosphate	18.274	18.281 (0.972)		41541	0.83262	1.665
35 Fensulfothion	18.552	18.559 (0.986)		58972	1.28732	2.575
* 36 TOCP	18.809	18.816 (1.000)		100005	2.00000	
37 Phosmet / EPN	18.900	18.909 (1.005)		165681	3.21115	6.422
38 Fampur	19.002	19.011 (1.010)		93661	1.42793	2.856
39 Azinphos-methyl	19.139	19.147 (1.018)		85832	1.43047	2.861
40 Azinphos-ethyl	19.357	19.366 (1.029)		76652	1.34133	2.683
41 Coumaphos	20.335	20.347 (1.081)		71243	1.62145	3.243
S 42 Merphos				135246	1.62273	3.245
M 43 Total Demeton				105766	1.71941	3.439

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 017F1701.D
Lab Smp Id: LF0FF1AC
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: LCS
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	150069	75035	300138	161791	7.81
36 TOCP	87450	43725	174900	100005	14.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.13	10.63	11.63	11.12	-0.01
36 TOCP	18.81	18.31	19.31	18.81	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name:
 Sample Matrix: LIQUID
 Lab Smp Id: LF0FF1AC
 Level: LOW
 Data Type: GC DATA
 SpikeList File: fullDFCwater.spk
 Sublist File: 8141A.sub
 Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
 Misc Info:

Client SDG: D9G010000
 Fraction: SV
 Client Smp ID: LCS
 Operator: MPK/TLW
 SampleType: LCS
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 o,o,o-TEPT	4.000	2.955	73.88	36-119
2 Dichlorvos	4.000	3.046	76.15	50-120
\$ 3 Chlormefos	2.000	1.281	64.04	58-114
4 Mevinphos	4.000	2.816	70.39	35-108
5 Demeton-O	2.800	3.030	108.21	36-119
6 Thionazin	4.000	2.792	69.79	65-116
7 Ethoprop	4.000	3.049	76.23	36-119
8 Phorate	4.000	2.187	54.68	36-119
9 Naled	4.000	3.677	91.92	36-119
10 Sulfotep	4.000	2.683	67.08	36-119
12 Simazine	4.000	3.830	95.75	36-119
13 Diazinon	4.000	2.868	71.70	36-119
14 Atrazine	4.000	2.831	70.78	36-119
15 Propazine	4.000	2.626	65.65	36-119
16 Disulfoton	4.000	3.311	82.79	61-103
17 Demeton-S	1.200	0.4090	34.08*	36-119
18 Dimethoate	4.000	2.468	61.71	28-82
19 Ronnel	4.000	3.087	77.18	62-99
21 Chlorpyrifos	4.000	3.052	76.29	66-101
22 Fenthion	4.000	2.813	70.32	36-119
23 Trichloronate	4.000	2.749	68.72	36-119
24 Anilazine	4.000	4.426	110.65	36-119
25 Methyl Parathion	4.000	3.273	81.83	36-119
26 Malathion	4.000	2.490	62.25	36-119
27 Tokuthion	4.000	2.907	72.67	36-119
28 Parathion	4.000	2.801	70.02	36-119
30 Tetrachlorvinphos	4.000	3.177	79.42	36-119
31 Carbophenothion me	4.000	2.734	68.35	36-119
32 Bolstar	4.000	3.200	79.99	36-119
33 Carbophenothion	4.000	2.971	74.28	36-119
\$ 34 Triphenyl phosphat	2.000	1.665	83.26	36-119
35 Fensulfothion	4.000	2.575	64.37	20-105
37 Phosmet / EPN	8.000	6.422	80.28	36-119
38 Famphur	4.000	2.856	71.40	61-108
39 Azinphos-methyl	4.000	2.861	71.52	55-103
40 Azinphos-ethyl	4.000	2.683	67.07	36-119
41 Coumaphos	4.000	3.243	81.07	36-119
S 42 Merphos	4.000	3.245	81.14	36-119
M 43 Total Demeton	4.000	3.439	85.97	47-100

TestAmerica

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LF0FF1AC
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Client SDG: D9G010000
Fraction: SV
Client Smp ID: LCS
Operator: MPK/TLW
SampleType: LCS
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	2.000	1.281	64.04	48-114
\$ 34 Triphenyl phosphat	2.000	1.665	83.26	50-150

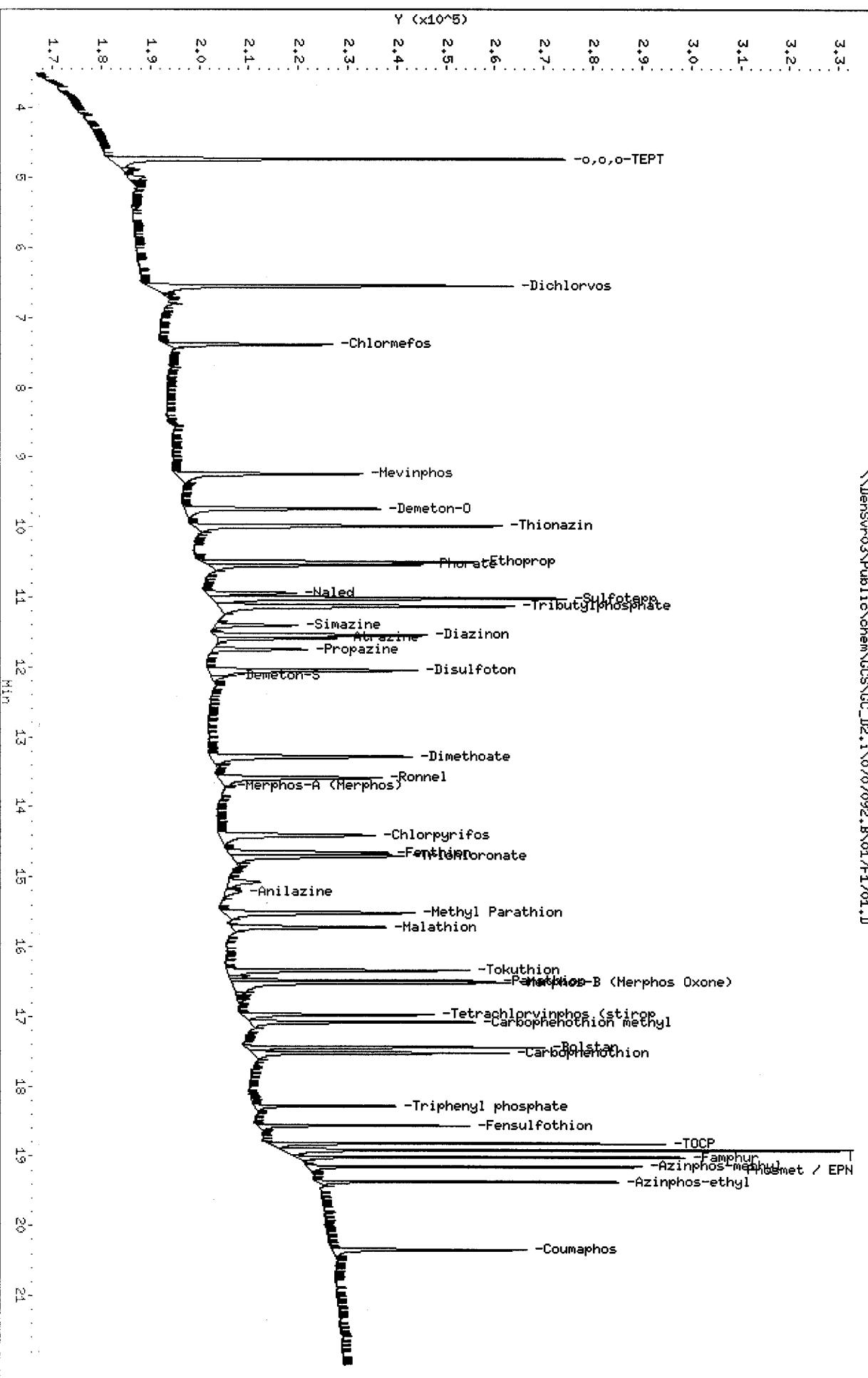
Sample Info: LF0FF1AC,LCS

Column phase: RTx-OPPest

Instrument: GC_D2.i

Operator: MPK/TLW
Column diameter: 0.32

\\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0707092.B\\01F1701.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\018F1801.D
Lab Smp Id: LF0FF1AD Client Smp ID: LCSD
Inj Date : 08-JUL-2009 03:32
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LF0FF1AD,LCSD
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Meth Date : 08-Jul-2009 18:19 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 18 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1000.000	Volume of Sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT	3.256	3.254 (0.183)		304217	2.20888	4.418
2 Dichlorvos	4.076	4.074 (0.229)		217362	2.54155	5.083 (R)
3 Mevinphos	5.745	5.739 (0.322)		88274	1.87899	3.758
\$ 4 Chlormefos	5.830	5.836 (0.327)		122729	1.14597	2.292 (RR)
5 Thionazin	7.501	7.507 (0.421)		184343	1.88610	3.772
6 Demeton-O	7.641	7.649 (0.429)		141177	1.52855	3.057
7 Ethoprop	7.846	7.852 (0.440)		175158	2.04505	4.090
8 Naled	8.053	8.057 (0.452)		51595	2.42070	4.841 (R)
* 9 Tributylphosphate	8.138	8.187 (1.000)		188780	2.00000	
10 Sulfotepp	8.431	8.442 (0.473)		212516	1.71497	3.430
11 Phorate	8.523	8.532 (0.478)		126568	1.42692	2.854
12 Dimethoate	8.653	8.652 (0.485)		166498	1.61586	3.232
13 Demeton-S	8.858	8.846 (0.497)		8677	0.11613	0.2323
14 Simazine	8.913	8.924 (0.500)		62958	1.84088	3.682
15 Atrazine	9.083	9.094 (0.509)		70797	1.77197	3.544
16 propazine	9.230	9.241 (0.518)		63555	1.72399	3.448
17 Disulfoton	9.856	9.869 (0.553)		109489	1.81403	3.628
18 Diazinon	9.893	9.902 (0.555)		162810	1.70872	3.417
19 Methyl Parathion	10.705	10.717 (0.600)		114928	1.90194	3.804
20 Ronnel	11.228	11.241 (0.630)		109098	1.74661	3.493
21 Malathion	11.790	11.804 (0.661)		92536	1.61309	3.226
22 Fenthion	11.918	11.932 (0.668)		105998	1.72563	3.451

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion	12.005	12.019 (0.673)		117191	1.79266	3.585
24 Chlорpyrifos	12.056	12.067 (0.676)		138877	1.75589	3.512
25 Trichloronate	12.480	12.496 (0.700)		118920	1.68232	3.365
26 Anilazine	12.803	12.817 (0.718)		10844	1.86235	3.725
27 Morphos-A (Morphos)	13.193	13.199 (0.740)		158	0.00268	0.005358
28 Tetrachlorvinphos (Stirophos)	13.806	13.824 (0.774)		71330	1.81978	3.640
29 Tokuthion	14.431	14.449 (0.809)		116911	1.72530	3.451
30 Morphos-B (Morphos Oxone)	14.633	14.651 (0.821)		122297	7.68819	15.38 (A)
31 Carbophenothon-methyl	15.218	15.239 (0.853)		90222	1.71113	3.422
32 Fensulfothion	15.350	15.361 (0.861)		85728	1.57156	3.143
33 Bolstar / Famphur	16.038	16.053 (0.899)		222836	3.43742	6.875
34 Carbophenothon	16.181	16.197 (0.907)		97134	1.49355	2.987
\$ 35 Triphenyl phosphate	16.698	16.712 (0.936)		41208	0.83379	1.668
36 Phosmet	16.950	16.963 (0.951)		103123	1.85253	3.705
37 EPN	17.136	17.151 (0.961)		98682	1.86070	3.721
38 Azinphos-methyl	17.466	17.480 (0.980)		102570	1.72918	3.458
* 39 TOCP	17.831	17.846 (1.000)		97754	2.00000	
40 Azinphos-ethyl	17.911	17.926 (1.004)		109133	1.61844	3.237
41 Coumaphos	18.353	18.366 (1.029)		83022	1.73531	3.471
S 42 Morphos				122455	1.64401	3.288
M 43 Total Demeton				149854	1.64468	3.289

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 018F1801.D
Lab Smp Id: LF0FF1AD
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: LCSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	186566	93283	373132	188780	1.19
39 TOCP	95733	47867	191466	97754	2.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.14	7.64	8.64	8.14	-0.02
39 TOCP	17.83	17.33	18.33	17.83	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name:
 Sample Matrix: LIQUID
 Lab Smp Id: LF0FF1AD
 Level: LOW
 Data Type: GC DATA
 SpikeList File: fullDFCwater.spk
 Sublist File: 8141A.sub
 Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
 Misc Info: IS - GSV0633-09

Client SDG: D9G010000
 Fraction: SV
 Client Smp ID: LCSD
 Operator: MPK/TLW
 SampleType: LCSD
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 o,o,o-TEPT	4.000	4.418	110.44	36-119
2 Dichlorvos	4.000	5.083	127.08*	50-120
3 Mevinphos	4.000	3.758	93.95	35-108
\$ 4 Chlormefos	2.000	2.292	114.60*	48-114
5 Thionazin	4.000	3.772	94.31	65-116
7 Ethoprop	4.000	4.090	102.25	65-108
8 Naled	4.000	4.841	121.04*	36-119
10 Sulfotepp	4.000	3.430	85.75	69-103
11 Phorate	4.000	2.854	71.35	62-104
12 Dimethoate	4.000	3.232	80.79	28-115
14 Simazine	4.000	3.682	92.04	47-109
15 Atrazine	4.000	3.544	88.60	36-119
16 propazine	4.000	3.448	86.20	36-119
17 Disulfoton	4.000	3.628	90.70	36-119
18 Diazinon	4.000	3.417	85.44	36-119
19 Methyl Parathion	4.000	3.804	95.10	68-119
20 Ronnel	4.000	3.493	87.33	62-115
21 Malathion	4.000	3.226	80.65	67-115
22 Fenthion	4.000	3.451	86.28	36-119
23 Parathion	4.000	3.585	89.63	36-119
24 Chlorpyrifos	4.000	3.512	87.79	36-119
25 Trichloronate	4.000	3.365	84.12	36-119
26 Anilazine	4.000	3.725	93.12	47-115
28 Tetrachlorvinphos	4.000	3.640	90.99	36-119
29 Tokuthion	4.000	3.451	86.27	36-119
31 Carbophenothion-me	4.000	3.422	85.56	36-119
32 Fensulfothion	4.000	3.143	78.58	61-115
33 Bolstar / Famphur	8.000	6.875	85.94	36-119
\$ 34 Carbophenothion	4.000	2.987	74.68	36-119
35 Triphenyl phosphat	2.000	1.668	83.38	50-150
36 Phosmet	4.000	3.705	92.63	36-119
37 EPN	4.000	3.721	93.03	36-119
38 Azinphos-methyl	4.000	3.458	86.46	55-115
40 Azinphos-ethyl	4.000	3.237	80.92	36-119
41 Coumaphos	4.000	3.471	86.77	62-115
S 42 Merphos	4.000	3.288	82.20	36-119
M 43 Total Demeton	4.000	3.289	82.23	47-115

TestAmerica

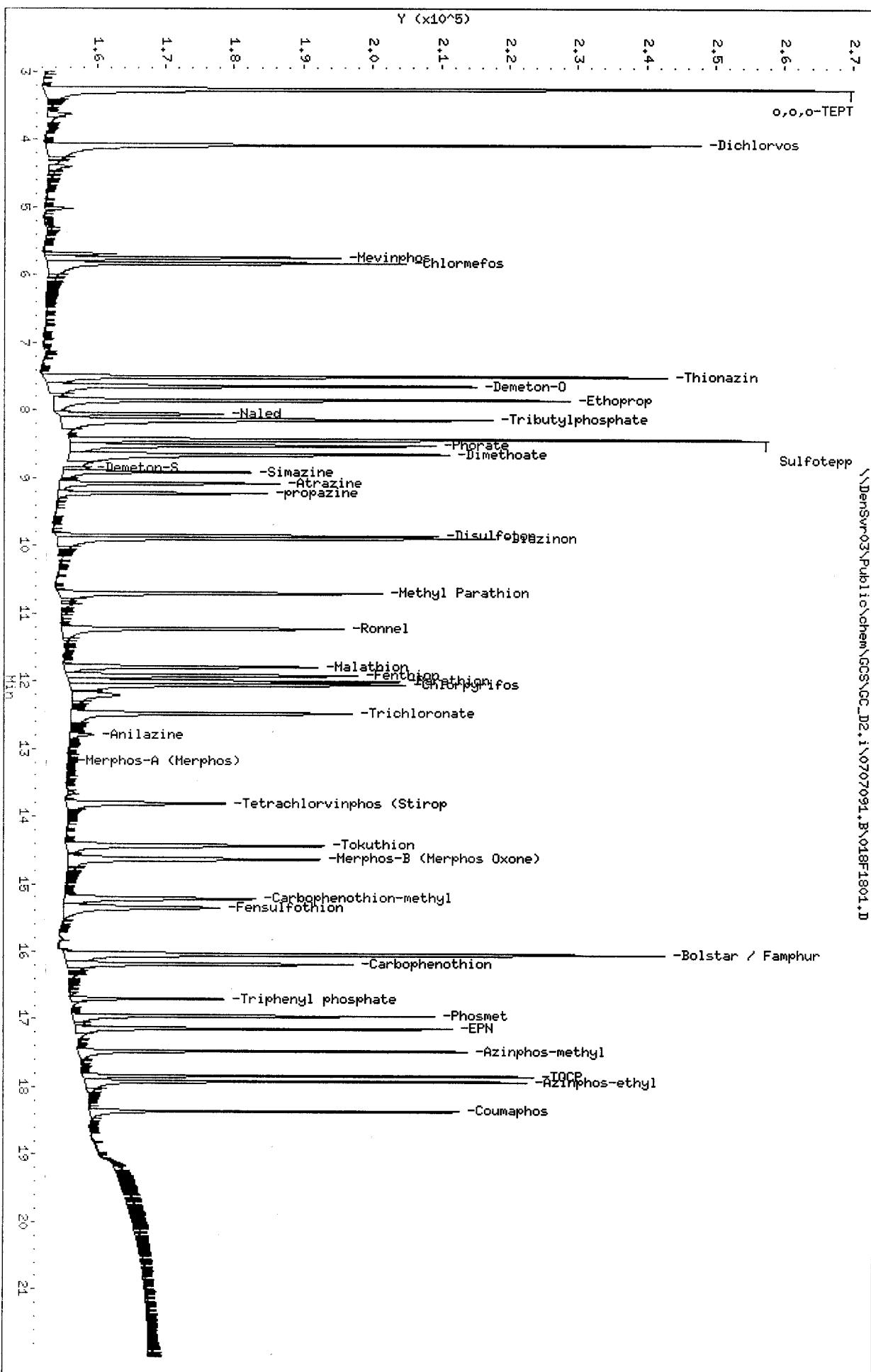
RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LF0FF1AD
Level: LOW
Data Type: GC DATA
SpikeList File: fullDFCwater.spk
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Client SDG: D9G010000
Fraction: SV
Client Smp ID: LCSD
Operator: MPK/TLW
SampleType: LCSD
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	2.000	2.292	114.60*	48-114
\$ 35 Triphenyl phosphat	2.000	1.668	83.38	50-150

Instrument: GC_D2.i
Operator: HPK/TLW
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D2.i\\0707091.B\\018F1801.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\018F1801.D
Lab Smp Id: LF0FF1AD Client Smp ID: LCSD
Inj Date : 08-JUL-2009 03:32
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LF0FF1AD,LCSD
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Meth Date : 08-Jul-2009 18:30 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 18 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1000.000	Volume of Sample Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/L)
1 o,o,o-TEPT	4.730	4.731 (0.252)	223303	1.95783	3.916	
2 Dichlorvos	6.548	6.546 (0.348)	184806	2.07508	4.150	
\$ 3 Chlormefos	7.383	7.384 (0.393)	83339	0.92957	1.859	
4 Mevinphos	9.235	9.234 (0.491)	106418	1.77387	3.548	
5 Demeton-O	9.732	9.734 (0.517)	106629	1.86524	3.730 (R)	
6 Thionazin	9.983	9.984 (0.531)	152817	1.70338	3.407	
7 Ethoprop	10.498	10.499 (0.558)	125884	1.87785	3.756	
8 Phorate	10.533	10.539 (0.560)	107656	1.38487	2.770	
9 Naled	10.938	10.939 (0.582)	41811	2.20090	4.402	
10 Sulfotepp	11.013	11.017 (0.586)	195483	1.66730	3.334 (A)	
* 11 Tributylphosphate	11.125	11.116 (1.000)	167317	2.00000		
12 Simazine	11.398	11.399 (0.606)	38910	2.31713	4.634 (A)	
13 Diazinon	11.538	11.541 (0.613)	108937	1.73963	3.479	
14 Atrazine	11.580	11.584 (0.616)	53442	1.68586	3.372 (A)	
15 Propazine	11.743	11.747 (0.624)	46376	1.60391	3.208	
16 Disulfoton	12.045	12.049 (0.640)	105785	1.71086	3.422	
17 Demeton-S	12.125	12.124 (0.645)	880	0.13037	0.2607 (R)	
18 Dimethoate	13.277	13.282 (0.706)	139536	1.68380	3.368 (R)	
19 Ronnel	13.582	13.587 (0.722)	105072	1.88371	3.767	
20 Merphos-A (Merphos)	13.720	13.689 (1.233)	497	0.00820	0.01639 (aA)	
21 Chlорpyrifos	14.403	14.409 (0.766)	90993	1.60834	3.217	
22 Fenthion	14.653	14.662 (0.779)	86520	1.64881	3.298	

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Trichloronate	14.702	14.711 (0.782)		103996	1.46192	2.924
24 Anilazine				Compound Not Detected.		
25 Methyl Parathion	15.512	15.519 (0.825)		114699	2.02467	4.049(A)
26 Malathion	15.718	15.724 (0.836)		87172	1.64256	3.285
27 Tokuthion	16.338	16.344 (0.869)		94153	1.51524	3.030
28 Parathion	16.487	16.494 (0.877)		85566	1.53283	3.066
29 Merphos-B (Merphos Oxone)	16.515	16.517 (1.484)		101536	5.50027	11.00(A)
30 Tetrachlorvinphos (stirophos)	16.970	16.977 (0.902)		69399	1.92186	3.844
31 Carbophenothion methyl	17.075	17.082 (0.908)		87592	1.69234	3.385
32 Bolstar	17.433	17.440 (0.927)		96782	1.77518	3.550
33 Carbophenothion	17.517	17.524 (0.931)		93880	1.75115	3.502(A)
\$ 34 Triphenyl phosphate	18.273	18.281 (0.972)		35850	0.81491	1.630
35 Fensulfothion	18.552	18.559 (0.986)		65861	1.63050	3.261
* 36 TOCP	18.808	18.816 (1.000)		88180	2.00000	
37 Phosmet / EPN	18.902	18.909 (1.005)		159957	3.52404	7.048
38 Fampdur	19.003	19.011 (1.010)		89895	1.55430	3.109
39 Azinphos-methyl	19.138	19.147 (1.018)		84525	1.59760	3.195
40 Azinphos-ethyl	19.357	19.366 (1.029)		79667	1.58104	3.162
41 Coumaphos	20.335	20.347 (1.081)		66266	1.71043	3.421
S 42 Merphos				102033	1.38839	2.777
M 43 Total Demeton				107509	1.99562	3.991

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 018F1801.D
Lab Smp Id: LF0FF1AD
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: LCSD
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	150069	75035	300138	167317	11.49
36 TOCP	87450	43725	174900	88180	0.83

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.13	10.63	11.63	11.13	-0.00
36 TOCP	18.81	18.31	19.31	18.81	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Client SDG: D9G010000
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: LF0FF1AD Client Smp ID: LCSD
 Level: LOW Operator: MPK/TLW
 Data Type: GC DATA SampleType: LCSD
 SpikeList File: fullDFCwater.spk Quant Type: ISTD
 Sublist File: 8141A.sub
 Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 o,o,o-TEPT	4.000	3.916	97.89	36-119
2 Dichlorvos	4.000	4.150	103.75	50-120
\$ 3 Chlormefos	2.000	1.859	92.96	58-114
4 Mevinphos	4.000	3.548	88.69	35-108
5 Demeton-O	2.800	3.730	133.23*	36-119
6 Thionazin	4.000	3.407	85.17	65-116
7 Ethoprop	4.000	3.756	93.89	36-119
8 Phorate	4.000	2.770	69.24	36-119
9 Naled	4.000	4.402	110.04	36-119
10 Sulfotepp	4.000	3.334	83.36	36-119
12 Simazine	4.000	4.634	115.86	36-119
13 Diazinon	4.000	3.479	86.98	36-119
14 Atrazine	4.000	3.372	84.29	36-119
15 Propazine	4.000	3.208	80.20	36-119
16 Disulfoton	4.000	3.422	85.54	61-103
17 Demeton-S	1.200	0.2607	21.73*	36-119
18 Dimethoate	4.000	3.368	84.19*	28-82
19 Ronnel	4.000	3.767	94.19	62-99
21 Chlorpyrifos	4.000	3.217	80.42	66-101
22 Fenthion	4.000	3.298	82.44	36-119
23 Trichloronate	4.000	2.924	73.10	36-119
24 Anilazine	4.000	0.0000	*	36-119
25 Methyl Parathion	4.000	4.049	101.23	36-119
26 Malathion	4.000	3.285	82.13	36-119
27 Tokuthion	4.000	3.030	75.76	36-119
28 Parathion	4.000	3.066	76.64	36-119
30 Tetrachlorvinphos	4.000	3.844	96.09	36-119
31 Carbophenothion me	4.000	3.385	84.62	36-119
32 Bolstar	4.000	3.550	88.76	36-119
33 Carbophenothion	4.000	3.502	87.56	36-119
\$ 34 Triphenyl phosphat	2.000	1.630	81.49	36-119
35 Fensulfothion	4.000	3.261	81.52	20-105
37 Phosmet / EPN	8.000	7.048	88.10	36-119
38 Famphur	4.000	3.109	77.72	61-108
39 Azinphos-methyl	4.000	3.195	79.88	55-103
40 Azinphos-ethyl	4.000	3.162	79.05	36-119
41 Coumaphos	4.000	3.421	85.52	36-119
S 42 Merphos	4.000	2.777	69.42	36-119
M 43 Total Demeton	4.000	3.991	99.78	47-100

TestAmerica

RECOVERY REPORT

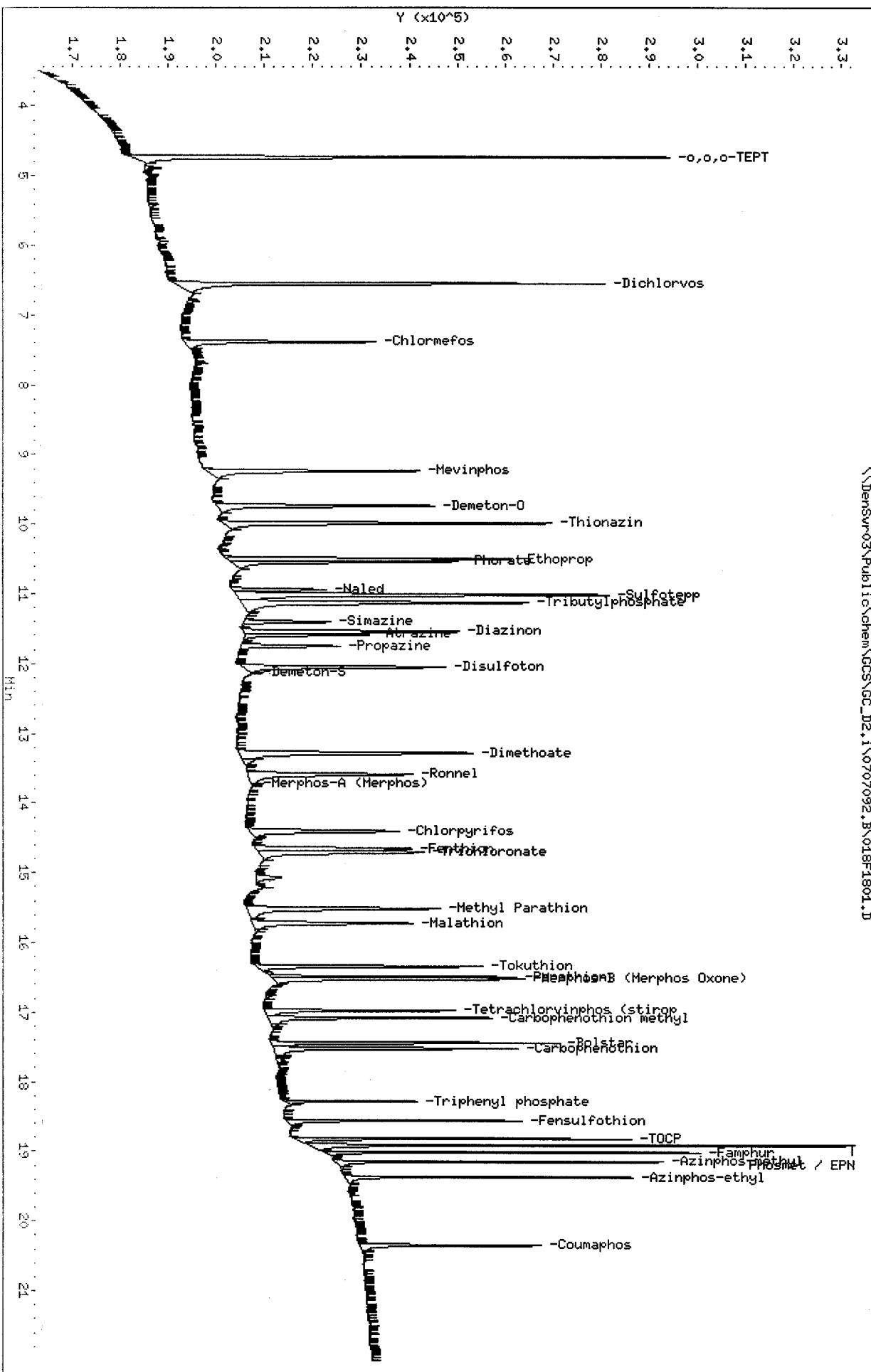
Client Name: Client SDG: D9G010000
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LF0FF1AD Client Smp ID: LCSD
Level: LOW Operator: MPK/TLW
Data Type: GC DATA SampleType: LCSD
SpikeList File: fullDFCwater.spk Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	2.000	1.859	92.96	48-114
\$ 34 Triphenyl phosphat	2.000	1.630	81.49	50-150

\\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.F\018F1801.D

Instrument: GC_D2.i
Operator: MPK/TLM
Column diameter: 0.32

Page 6



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\019F1901.D
Lab Smp Id: LFX9W1AA Client Smp ID: M-111AB
Inj Date : 08-JUL-2009 03:59
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LFX9W1AA, 276-1
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Meth Date : 08-Jul-2009 18:19 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1057.000	Volume of Sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT					Compound Not Detected.	
2 Dichlorvos					Compound Not Detected.	
3 Mevinphos					Compound Not Detected.	
\$ 4 Chlormefos	5.829	5.836 (0.327)		82305	0.60353	1.142
5 Thionazin					Compound Not Detected.	
6 Demeton-O					Compound Not Detected.	
7 Ethoprop					Compound Not Detected.	
8 Naled	8.057	8.057 (0.452)		86	0.19557	0.3700 <i>Not a result</i>
* 9 Tributylphosphate	8.141	8.187 (1.000)		196859	2.00000	
10 Sulfotepp					Compound Not Detected.	
11 Phorate					Compound Not Detected.	
12 Dimethoate					Compound Not Detected.	
13 Demeton-S					Compound Not Detected.	
14 Simazine					Compound Not Detected.	
15 Atrazine					Compound Not Detected.	
16 propazine					Compound Not Detected.	
17 Disulfoton					Compound Not Detected.	
18 Diazinon					Compound Not Detected.	
19 Methyl Parathion					Compound Not Detected.	
20 Ronnel					Compound Not Detected.	
21 Malathion					Compound Not Detected.	
22 Fenthion					Compound Not Detected.	

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion				Compound Not Detected.		
24 Chlорpyrifos	12.056	12.067 (0.676)		56	6e-004	0.001052(a)
25 Trichloronate				Compound Not Detected.		
26 Anilazine				Compound Not Detected.		
27 Merphos-A (Merphos)	13.199	13.199 (0.740)		252	0.00336	0.006349
28 Tetrachlorvinphos (Stirophos)	13.806	13.824 (0.774)		77	0.00154	0.002919
29 Tokuthion				Compound Not Detected.		
30 Merphos-B (Merphos Oxone)	14.646	14.651 (0.821)		289	0.03512	0.06644
31 Carbophenothion-methyl				Compound Not Detected.		
32 Fensulfothion				Compound Not Detected.		
33 Bolstar / Famphur				Compound Not Detected.		
34 Carbophenothion				Compound Not Detected.		
\$ 35 Triphenyl phosphate	16.699	16.712 (0.936)		48263	0.76690	1.451
36 Phosmet				Compound Not Detected.		
37 EPN				Compound Not Detected.		
38 Azinphos-methyl				Compound Not Detected.		
* 39 TOCP	17.832	17.846 (1.000)		124476	2.00000	
40 Azinphos-ethyl				Compound Not Detected.		
41 Coumaphos				Compound Not Detected.		
S 42 Merphos					541	0.00570
M 43 Total Demeton				Compound Not Detected.		0.01079

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ) .

TestAmerica

INTERNAL STANDARD COMPOUNDS AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 019F1901.D
Lab Smp Id: LFX9W1AA
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/LWL
Method File: \\DenSvr03
Misc Info: IS - GSV0633

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: M-111AB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	186566	93283	373132	196859	5.52
39 TOCP	95733	47867	191466	124476	30.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.14	7.64	8.64	8.14	0.01
39 TOCP	17.83	17.33	18.33	17.83	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-JUL-2009 00:00 Client SDG: 8304609
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LFX9W1AA Client Smp ID: M-111AB
Level: LOW Operator: MPK/TLW
Data Type: GC DATA SampleType: SAMPLE
SpikeList File: fullDFCwater.spk Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	1.892	1.142	60.35	48-114
\$ 35 Triphenyl phosphat	1.892	1.451	76.69	50-150

Date : 08-JUL-2009 03:59

Client ID: M-411AB

Sample Info: LFX9W1AH,276-1

Column Phase: RTx-1HS

Instrument: GC_D2.i
Operator: HPK/TLW
Column diameter: 0.32

\\DernSvr03\Public\chem\GCS\GC_D2.i \0707091.B\019F1901.D

Y ($\times 10^5$)

2.28
2.26
2.24
2.22
2.20
2.18
2.16
2.14
2.12
2.10
2.08
2.06
2.04
2.02
2.00
1.98
1.96
1.94
1.92
1.90
1.88
1.86
1.84
1.82
1.80
1.78
1.76
1.74
1.72
1.70
1.68
1.66
1.64
1.62
1.60
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1.02
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0.90
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0.86
0.84
0.82
0.80
0.78
0.76
0.74
0.72
0.70
0.68
0.66
0.64
0.62
0.60
0.58
0.56
0.54
0.52
0.50
0.48
0.46
0.44
0.42
0.40
0.38
0.36
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00

-Chlormefos

-Tributylphosphate

-Chlorpyrifos

-Mephos-A (Mephos)

-Tetrachlorvinphos (Stirop

-Mephos-B (Mephos Oxone)

-Triphenyl phosphate

TOCP

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\019F1901.D
Lab Smp Id: LFX9W1AA Client Smp ID: M-111AB
Inj Date : 08-JUL-2009 03:59
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LFX9W1AA, 276-1
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Meth Date : 08-Jul-2009 18:30 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1057.000	Volume of Sample Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT				Compound Not Detected.		
2 Dichlorvos				Compound Not Detected.		
\$ 3 Chlormefos	7.383	7.384 (0.393)		70664	0.63886	1.209
4 Mevinphos				Compound Not Detected.		
5 Demeton-O				Compound Not Detected.		
6 Thionazin				Compound Not Detected.		
7 Ethoprop				Compound Not Detected.		
8 Phorate				Compound Not Detected.		
9 Naled	10.986	10.939 (0.584)		76	0.27158	0.5139
10 Sulfotepp	11.034	11.017 (0.587)		89	6e-004	0.001164 (aA)
* 11 Tributylphosphate	11.124	11.116 (1.000)		158567	2.00000	
12 Simazine	11.391	11.399 (0.606)		73	0.00352	0.006667 (aA)
13 Diazinon				Compound Not Detected.		
14 Atrazine	11.581	11.584 (0.616)		63	0.23380	0.4424 (aA)
15 Propazine				Compound Not Detected.		
16 Disulfoton				Compound Not Detected.		
17 Demeton-S	12.111	12.124 (0.644)		236	0.12154	0.2300
18 Dimethoate				Compound Not Detected.		
19 Ronnel				Compound Not Detected.		
20 Morphos-A (Morphos)	13.693	13.689 (1.231)		58	0.00101	0.001910 (aA)
21 Chlorpyrifos				Compound Not Detected.		
22 Fenthion				Compound Not Detected.		

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Trichloronate	14.689	14.711 (0.781)		83	0.10614	0.2008
24 Anilazine		Compound Not Detected.				
25 Methyl Parathion		Compound Not Detected.				
26 Malathion	15.728	15.724 (0.836)		68	0.00104	0.001965(a)
27 Tokuthion		Compound Not Detected.				
28 Parathion	16.489	16.494 (0.877)		83	0.00121	0.002280(a)
29 Merphos-B (Merphos Oxone)		Compound Not Detected.				
30 Tetrachlorvinphos (stirophos)		Compound Not Detected.				
31 Carbophenothion methyl		Compound Not Detected.				
32 Bolstar		Compound Not Detected.				
33 Carbophenothion		Compound Not Detected.				
\$ 34 Triphenyl phosphate	18.274	18.281 (0.972)		41926	0.77246	1.462
35 Fensulfothion		Compound Not Detected.				
* 36 TOCP	18.809	18.816 (1.000)		108792	2.00000	
37 Phosmet / EPN		Compound Not Detected.				
38 Famphur		Compound Not Detected.				
39 Azinphos-methyl		Compound Not Detected.				
40 Azinphos-ethyl		Compound Not Detected.				
41 Coumaphos		Compound Not Detected.				
S 42 Merphos		Compound Not Detected.				
M 43 Total Demeton				236	0.12154	0.2300

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ) .
- A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 019F1901.D
Lab Smp Id: LFX9W1AA
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: M-111AB
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	150069	75035	300138	158567	5.66
36 TOCP	87450	43725	174900	108792	24.40

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.13	10.63	11.63	11.12	-0.01
36 TOCP	18.81	18.31	19.31	18.81	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-JUL-2009 00:00 Client SDG: 8304609
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LFX9W1AA Client Smp ID: M-111AB
Level: LOW Operator: MPK/TLW
Data Type: GC DATA SampleType: SAMPLE
SpikeList File: fullDFCwater.spk Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

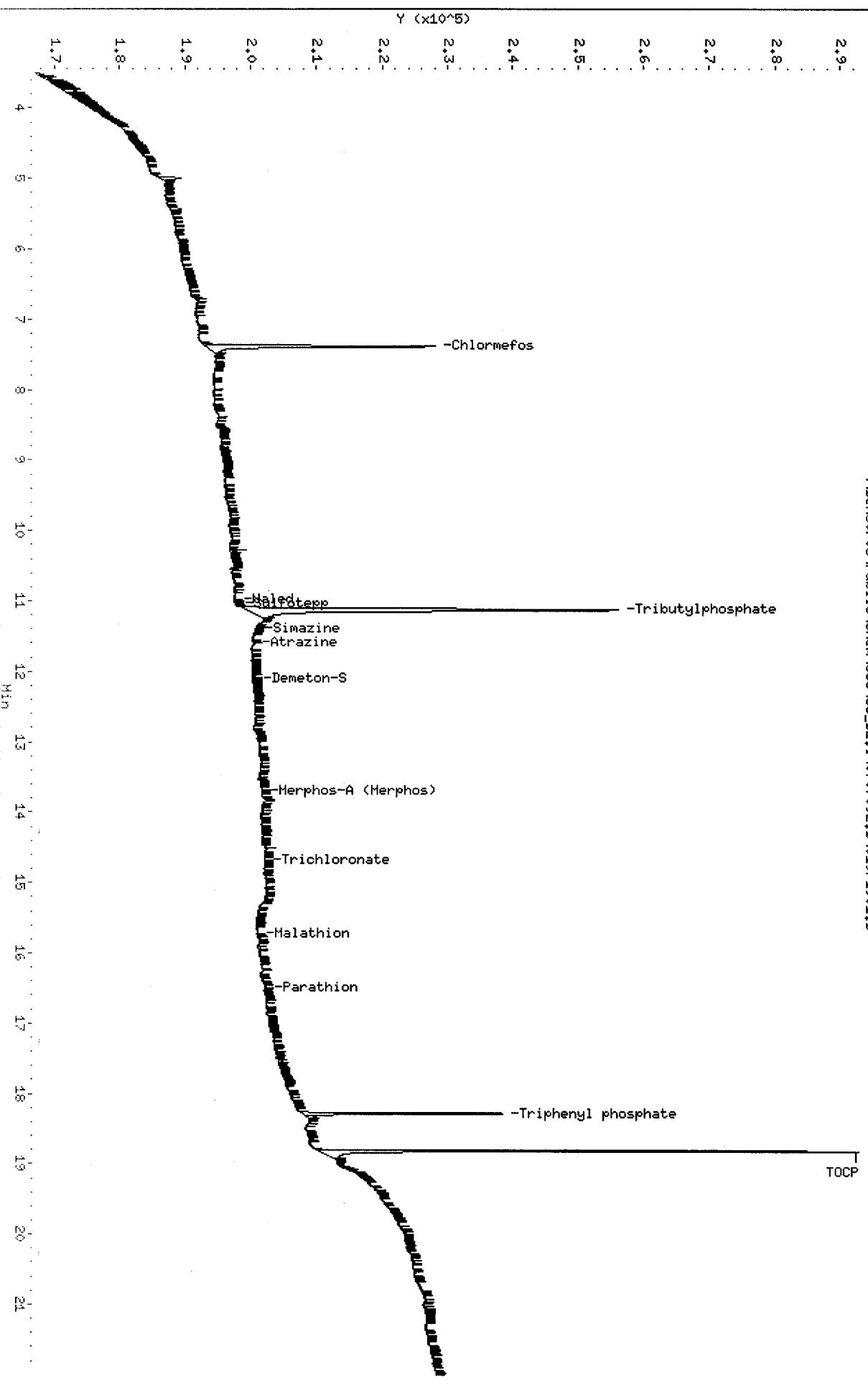
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	1.892	1.209	63.89	48-114
\$ 34 Triphenyl phosphat	1.892	1.462	77.25	50-150

Data File: \\DenSvr03\Public\chem\GC\GC_D2.i\0707092.B\019F1901.D
Date : 08-JUL-2009 03:59
Client ID: M-111AB

Sample Info: LF93W1A9,276-1
Column phase: RTx-OPPest

Instrument: GC_D2.i
Operator: MPK/TLW
Column diameter: 0.32

\\DenSvr03\Public\chem\GC\GC_D2.i\0707092.B\019F1901.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\020F2001.D
Lab Smp Id: LFX901AA Client Smp ID: EB062909-GW
Inj Date : 08-JUL-2009 04:27
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LFX901AA,276-2
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Meth Date : 08-Jul-2009 18:19 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1053.000	Volume of Sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT				Compound Not Detected.		
2 Dichlorvos				Compound Not Detected.		
3 Mevinphos				Compound Not Detected.		
\$ 4 Chlormefos	5.830	5.836 (0.327)		76959	0.60384	1.147
5 Thionazin				Compound Not Detected.		
6 Demeton-O				Compound Not Detected.		
7 Ethoprop				Compound Not Detected.		
8 Naled	8.067	8.057 (0.452)		67	0.19508	0.3705 <i>not a plant</i>
* 9 Tributylphosphate				Compound Not Detected.		
10 Sulfotep				Compound Not Detected.		
11 Phorate				Compound Not Detected.		
12 Dimethoate				Compound Not Detected.		
13 Demeton-S				Compound Not Detected.		
14 Simazine				Compound Not Detected.		
15 Atrazine				Compound Not Detected.		
16 propazine				Compound Not Detected.		
17 Disulfoton				Compound Not Detected.		
18 Diazinon				Compound Not Detected.		
19 Methyl Parathion				Compound Not Detected.		
20 Ronnel				Compound Not Detected.		
21 Malathion				Compound Not Detected.		
22 Fenthion				Compound Not Detected.		

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Parathion				Compound Not Detected.		
24 Chlorpyrifos	12.060	12.067 (0.676)		83	9e-004	0.001675(a)
25 Trichloronate				Compound Not Detected.		
26 Anilazine				Compound Not Detected.		
27 Merphos-A (Molphos)	13.195	13.199 (0.740)		160	0.00228	0.004330
28 Tetrachlorvinphos (Stirophos)	13.852	13.824 (0.777)		57	0.00122	0.002321
29 Tokuthion				Compound Not Detected.		
30 Merphos-B (Molphos Oxone)	14.633	14.651 (0.821)		121	0.02726	0.05178
31 Carbophenothion-methyl				Compound Not Detected.		
32 Fensulfothion				Compound Not Detected.		
33 Bolstar / Famphur				Compound Not Detected.		
34 Carbophenothion				Compound Not Detected.		
\$ 35 Triphenyl phosphate	16.700	16.712 (0.937)		49818	0.84702	1.609
36 Phosmet				Compound Not Detected.		
37 EPN				Compound Not Detected.		
38 Azinphos-methyl				Compound Not Detected.		
* 39 TOCP	17.832	17.846 (1.000)		116332	2.00000	
40 Azinphos-ethyl				Compound Not Detected.		
41 Coumaphos				Compound Not Detected.		
S 42 Merphos				281	0.00317	0.006021
M 43 Total Demeton				Compound Not Detected.		

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ) .

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 020F2001.D
Lab Smp Id: LFX901AA
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: EB062909-GW
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	186566	93283	373132	0	-100.00
39 TOCP	95733	47867	191466	116332	21.52

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.14	7.64	8.64	0.00	-100.00
39 TOCP	17.83	17.33	18.33	17.83	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-JUL-2009 00:00 Client SDG: 8304609
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LFX901AA Client Smp ID: EB062909-GW
Level: LOW Operator: MPK/TLW
Data Type: GC DATA SampleType: SAMPLE
SpikeList File: fullDFCwater.spk Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\8141A-1.m
Misc Info: IS - GSV0633-09

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 4 Chlormefos	1.899	1.147	60.38	48-114
\$ 35 Triphenyl phosphat	1.899	1.609	84.70	50-150

Sample Info: LFX901AA,276-2
Column phase: RTx-1MS

Instrument: GC_D2.i
Operator: MPK/TLW
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D2.i\0707091.B\020F2001.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\020F2001.D
Lab Smp Id: LFX901AA Client Smp ID: EB062909-GW
Inj Date : 08-JUL-2009 04:27
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : LFX901AA,276-2
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Meth Date : 08-Jul-2009 18:30 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Concentration Formula: Amt * DF * Vf / Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	2000.000	Final Extract Volume (uL)
Vs	1053.000	Volume of Sample Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
1 o,o,o-TEPT				Compound Not Detected.		
2 Dichlorvos				Compound Not Detected.		
\$ 3 Chlormefos	7.384	7.384 (0.393)		63106	0.58490	1.111
4 Mevinphos				Compound Not Detected.		
5 Demeton-O				Compound Not Detected.		
6 Thionazin				Compound Not Detected.		
7 Ethoprop				Compound Not Detected.		
8 Phorate				Compound Not Detected.		
9 Naled	10.912	10.939 (0.580)		111	0.27299	0.5185
10 Sulfotepp	10.995	11.017 (0.585)		122	9e-004	0.001642 (aA)
* 11 Tributylphosphate	11.122	11.116 (1.000)		169698	2.00000	
12 Simazine	11.400	11.399 (0.606)		238	0.01178	0.02237 (aA)
13 Diazinon				Compound Not Detected.		
14 Atrazine	11.557	11.584 (0.614)		143	0.23564	0.4476 (aA)
15 Propazine				Compound Not Detected.		
16 Disulfoton				Compound Not Detected.		
17 Demeton-S	12.140	12.124 (0.645)		134	0.12051	0.2289
18 Dimethoate				Compound Not Detected.		
19 Ronnel				Compound Not Detected.		
20 Morphos-A (Morphos)	13.682	13.689 (1.230)		109	0.00177	0.003367 (aA)
21 Chlorpyrifos				Compound Not Detected.		
22 Fenthion				Compound Not Detected.		

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/mL)	FINAL (ug/L)
23 Trichloronate	14.715	14.711	(0.782)	85	0.10618	0.2017
24 Anilazine				Compound Not Detected.		
25 Methyl Parathion				Compound Not Detected.		
26 Malathion	15.737	15.724	(0.837)	170	0.00266	0.005056 (a)
27 Tokuthion				Compound Not Detected.		
28 Parathion	16.490	16.494	(0.877)	71	0.00106	0.002007 (a)
29 Merphos-B (Merphos Oxone)				Compound Not Detected.		
30 Tetrachlorvinphos (stirophos)				Compound Not Detected.		
31 Carbophenothion methyl				Compound Not Detected.		
32 Bolstar				Compound Not Detected.		
33 Carbophenothion				Compound Not Detected.		
\$ 34 Triphenyl phosphate	18.274	18.281	(0.972)	43603	0.82360	1.564
35 Fensulfothion				Compound Not Detected.		
* 36 TOCP	18.809	18.816	(1.000)	106119	2.00000	
37 Phosmet / EPN				Compound Not Detected.		
38 Famphur				Compound Not Detected.		
39 Azinphos-methyl				Compound Not Detected.		
40 Azinphos-ethyl				Compound Not Detected.		
41 Coumaphos				Compound Not Detected.		
S 42 Merphos				Compound Not Detected.		
M 43 Total Demeton				134	0.12051	0.2289

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 020F2001.D
Lab Smp Id: LFX901AA
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

Calibration Date: 07-JUL-2009
Calibration Time: 21:09
Client Smp ID: EB062909-GW
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	150069	75035	300138	169698	13.08
36 TOCP	87450	43725	174900	106119	21.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.13	10.63	11.63	11.12	-0.03
36 TOCP	18.81	18.31	19.31	18.81	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

Client Name: Northgate Environmen01-JUL-2009 00:00 Client SDG: 8304609
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: LFX901AA Client Smp ID: EB062909-GW
Level: LOW Operator: MPK/TLW
Data Type: GC DATA SampleType: SAMPLE
SpikeList File: fullDFCwater.spk Quant Type: ISTD
Sublist File: 8141A.sub
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0707092.B\8141A-2.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 Chlormefos	1.899	1.111	58.49	48-114
\$ 34 Triphenyl phosphat	1.899	1.564	82.36	50-150

Data File: \\JensSvr03\\Public\\chem\\GCS\\GC_D2.i\\0707092.B\\020F2001.D

Date : 08-JUL-2009 04:27

Client ID: EB62909-GW

Sample Info: LFX901AA,276-2

Column phase: RTx-OPPest

Page 5

Instrument: GC_D2.i

Operator: MPK/TLW

Column diameter: 0.32

\\JensSvr03\\Public\\chem\\GCS\\GC_D2.i\\0707092.B\\020F2001.D



GC SEMIVOLATILE INITIAL CALIBRATION DATA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC and HPLC ICAL Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

608 8081 8082 8151 8141
 TPH/DRO Other SV CofM
 8310 8330 Other HPLC _____

601 602 8021 BTEX
 TPH/GRO Other Volatile GC _____

Calibration Date: 08/26/09
 Instrument ID: D2

Review Items	Level 1		Comments
	Yes	No	
Initial Calibration			
1. Are correct data files used?	✓		
2. Is there a sufficient number of calibration points used?	✓		
3. Are reasons for removal of points documented?	✓		<i>Batch Unsaturation</i>
4. Is linearity acceptable,			
8000 Series: linear least-squares regression with $r \geq 0.990$, (DOD projects require $r \geq 0.995$)	✓		
600 Series: quadratic fit COD $r^2 > 0.990$, or average response factors with RSD $\leq 20\%$? < 10% RSD or linear regression	✓		
5. Are the correct RT windows applied to the ICAL integration?	✓		
6. Are DDT & Endrin breakdown $< 15\%$?		✓	N/A
7. Is each manual integration completely documented, signed and appropriate?	✓		
8. Is traceability of standards properly documented?		✓	
9. Was second level hand calculation performed? (document analyte checked)	---	---	---
10. Was second-source ICV performed & recovery 85-115%?	✓		<i>Primary Include %R Naled - 40.1%, Simazine + 31.1%, Disulfoton - 20.6%, Malathion - 18.8%, Anilazine - 49.2%, Carbophenothion-methyl - 32.3%, Phosmet - 17.6% Secondary Include %R Naled - 47.6%, Simazine + 80.1%, Anilazine - 39.9%, Malathion - 23.2%, Carbophenothion-methyl - 39.9%, Mephos - 19.3%</i>

1st Level Reviewer: JONATHAN WILSON Date: 10/30/09

2nd Level Reviewer: JL Date: 10/30/09

Revision 1.1

10/17/2008

G:\QA\Edit\FORMS\Data Review\GC HPLC ICAL Review

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	PRIMER				
2	Vial 2	HEXANE				
3	Vial 3	OPP L7 GSV0634				
4	Vial 4	OPP L6 GSV0637				
5	Vial 5	OPP L5 GSV0635				
6	Vial 6	OPP L4 GSV0638				
7	Vial 7	OPP L3 GSV0639				
8	Vial 8	OPP L2 GSV0640				
9	Vial 9	OPP L1 GSV0641				
10	Vial 10	OPP SS GSV0633				
11	Vial 11	GSV075309 SPK				
12	Vial 12	LE2931AA, MB				
13	Vial 13	LE2931AC, LCS				
14	Vial 14	LE2931AD, LCSD				
15	Vial 15	LEQA91AC, 222-15			10	
16	Vial 16	LEQA91AC, 222-15			3	
17	Vial 17	LEQCQ1AC, 222-18			2	
18	Vial 18	LERD61AD, 377-1				
19	Vial 19	LERD81AH, 377-3				
20	Vial 20	LERN71AF, 115-1				
21	Vial 21	LERPQ1AF, 115-2				
22	Vial 22	LERPX1AF, 115-3				
23	Vial 23	LE1F91AJ, 138-1				
24	Vial 24	OPP L5 GSV0635				
25	Vial 25	LE29M1AA, MB				
26	Vial 26	LE29M1AC, LCS				
27	Vial 27	LE29M1AD, LCSD				
28	Vial 28	LEQA91AA, 222-15			10	
29	Vial 29	LEQA91AA, 222-15			3	
30	Vial 30	LEQCQ1AA, 222-18			2	
31	Vial 31	LFARC1AA, MB				
32	Vial 32	LFARC1AC, LCS				
33	Vial 33	LFARC1AD, LCSD				
34	Vial 34	LEKLO2AA, 185-1				
35	Vial 35	LE29L1AA, MB				
36	Vial 36	LE29L1AC, LCS				
37	Vial 37	LE29L1AD, LCSD				
38	Vial 38	LERCV1AA, 370-1				
39	Vial 39	LEWJG1AA, 143-1				
40	Vial 40	OPP L5 GSV0635				
41	Vial 41	LE5PX1AA, MB				
42	Vial 42	LE5PX1AC, LCS				
43	Vial 43	LE5PX1AD, LCSD				
44	Vial 44	LE39F1AA, 179-1				
45	Vial 45	LE3PF1AA, 179-2				
46	Vial 46	LE39L1AA, 179-3				
47	Vial 47	LFARL1AA, MB				
48	Vial 48	LFARL1AC, LCS				
49	Vial 49	LFARL1AD, LCSD				
50	Vial 50	LEKLE2AE, 180-2				
51	Vial 51	LEKLF2AE, 180-3				
52	Vial 52	LEKLL2AE, 180-4				
53	Vial 53	LEKLO2AE, 180-5				
54	Vial 54	LENR72AD, 322-1				
55	Vial 55	LEPG32AJ, 161-1				
56	Vial 56	OPP L5 GSV0635				
57	Vial 57	LFD4N1AA, MB				
58	Vial 58	LFD4N1AC, LCS				

Line	Location	SampleName	SampleAmount	ISTDAmnt	Multiplier	Dilution
59	Vial 59	LFD4N1AD,LCSD				
60	Vial 60	LE3041AJ,158-1				
61	Vial 61	LFD4W1AA,MB				
62	Vial 62	LFD4W1AC,LCS				
63	Vial 63	LFD4W1AD,LCSD				
64	Vial 64	LE7EE1AA,266-2				
65	Vial 65	LE9Q61AA,216-2				
66	Vial 66	LE9RA1AA,216-3				
67	Vial 67	LFC4Q1AD,199-2				
68	Vial 68	OPP L5 GSV0635				
69	Vial 69	LFAN01AA,MB				
70	Vial 70	LFAN01AC,LCS				
71	Vial 71	LFAN01AD,LCSD				
72	Vial 72	LE4291AA,273-1				
73	Vial 73	LE4291AD,273-1S				
74	Vial 74	LE4291AE,273-1D				
75	Vial 75	LE9PJ1AA,215-1				
76	Vial 76	OPP L5 GSV0635				
77	Vial 77	OPP L1 GSV0641				
78	Vial 100	HEXANE/ACETONE				

Sequence Table (Back Injector):

No entries - empty table!

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Calibration File Names:

Level 1: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\009F0901.D
 Level 2: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\008F0801.D
 Level 3: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\007F0701.D
 Level 4: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\006F0601.D
 Level 5: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\005F0501.D
 Level 6: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\004F0401.D
 Level 7: \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\003F0301.D

SEE CALIBRATION HISTORY

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD	or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
1 o,o,O-TEPT	3.11591	2.63737	2.67945	2.89876	2.71623	2.90430			2.81778		5.91149
2 Dichlorvos	2.01706	1.62225	1.58545	1.76366	1.71981	1.74982	AVRG		1.74977		7.99554
3 Mevinphos	0.94429	0.91295	0.90158	0.91760	0.95159	0.98250			0.96118		4.85992
5 Thionazin	2.12707	1.94605	1.94866	2.08214	1.96051	2.00095	AVRG		1.99965		3.79705

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
5.0000										
6 Demeton-O	9836	17553	30145	62341	96004	113108	WLINR	-0.01288	1.85831	0.99594
7 Ethoprop	1.93480	1.70823	1.62324	1.73203	1.74110	1.78272	AVRG		1.75235	5.38512
8 Naled	1.992	6103	15042	36940	67594	90892	WLINR	0.09632	0.47378	0.98961
10 Sulfoatepp	34658	70885	131347	259970	395078	486417	WLINR	-0.03469	2.43674	0.99856
11 Phorate	609341									
12 Dimethoate	2.02801	1.82946	1.73796	1.82370	1.76374	1.79146	AVRG		1.81476	5.60901
13 Demeton-S	1.49306	1.46224	1.49173	1.58543	1.55216	1.58919	AVRG		1.52869	3.21407

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
5.0000										
Level 7										
14 Simazine	4819	16248	29382	64611	115426	147784	WLINR	0.0398	0.73140	0.99336
15 Atrazine	0.70185	0.76532	0.75073	0.84628	0.85434	0.90844	AVRG		0.81743	9.61085
16 propazine	0.73887	0.70136	0.69239	0.78178	0.7551	0.81417	AVRG		0.75424	6.13423
17 Disulfoton	0.79462									
	15404	33208	61920	127893	193050	247845	WLINR	-0.01928	1.20917	0.99576
18 Diazinon	290419									
	2.20234	1.83553	1.83772	2.01856	1.98676	1.84115	AVRG		1.94942	6.88114
19 Methyl Parathion	1.22644	1.10389	1.13741	1.32395	1.30344	1.29686	AVRG		1.23630	6.92144
20 Rommel	1.42863	1.23369	1.21320	1.29342	1.24446	1.34650	AVRG		1.27796	6.65504
	1.18584									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DensSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
21 Malathion	5.0000									
	15443	30581	57103	119836	186013	228260	WLINR	-0.02066	1.14436	0.99783
22 Fenthion	1.46442	1.18458	1.16481	1.29096	1.25584	1.25506	AVRG		1.25674	8.19381
23 Parathion	1.42438	1.25387	1.23322	1.38998	1.36508	1.38514	AVRG		1.33749	5.43501
24 Chlорpyrifos	1.85614	1.56747	1.47379	1.62915	1.61527	1.62330	AVRG		1.61818	7.28314
25 Trichloronate	1.44751	1.42551	1.34762	1.48171	1.46256	1.52450	AVRG		1.44624	3.78186
26 Anilazine	1.43428									
	1493	2095	5311	12790	19893	29375	QUAD	0.02107	9.16488	-8.66056
27 Morphos-A (Morphos)	1.24844	1.15527	1.15956	1.23989	1.21263	1.24409	AVRG		1.20664	3.30523
	1.18648									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method File : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	Coefficients					%RSD or R^2				
	Level 1	Level 2	Level 3	Level 4	Level 5		Curve	b	m1	m2
28 Tetrachlorvinphos (Stirophos)	0.76814	0.74606	0.73464	0.83451	0.85233	0.85150	AVRG	0.80195	6.32809	
29 Tokuthion	1.50295	1.28283	1.29501	1.44234	1.39452	1.40891	AVRG	1.38639	5.62055	
30 Morphos-B (Morphos Oxone)	3884	7933	11676	34113	50056	65974	WLINR	0.01044	0.32634	0.98820
31 Carbophenothion-methyl	14924	30542	55023	105577	167145	206137	WLINR	-0.03349	1.03813	0.99979
32 Fensulfothion	266724						WLINR			X
33 Bolistar / Famphur	8319	23000	51304	104440	185778	229856	WLINR	0.04728	1.18751	0.99821
34 Carbophenothion	295978						WLINR			X
	1.54988	1.27794	1.32328	1.33835	1.27633	1.28540	AVRG	1.32632	7.86825	
	1.23307									
	1.57916	1.19992	1.27687	1.32336	1.26122	1.41398	AVRG	1.33059	9.63398	
	1.25966									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD	
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	or R^2
35 Phosmet	5.0000										
	Level 7										
	1.22087	1.01385	1.11032	1.20586	1.12340	1.16129	AVRG		1.13890	6.04111	
37 EPN	9525	23196	48705	111165	171283	220388	WLINR	0.02456	1.11450	0.99317	
	294020										
38 Azinphos-methyl	1.19565	1.13516	1.16767	1.28235	1.23551	1.26700	AVRG		1.21360	4.33999	
	1.21185										
40 Azinphos-ethyl	23154	43578	74071	134607	205971	2533982	WLINR	-0.07409	1.26388	0.99928	X ²
	318459										
41 Coumaphos	1.00140	0.89806	0.92250	1.01947	1.01017	1.01013	AVRG		0.97884	4.92558	
	0.99015										
S 42 Morphos	1.61523	1.45962	1.38820	1.59026	1.52873	1.58626	AVRG		1.52393	5.34513	
	1.49925										
M 43 Total Deteton	1.94415	1.66775	1.60440	1.71838	1.66174	1.66727	AVRG		1.70696	6.44185	
	1.68503										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date	:	26-JUN-2009	18:28
End Cal Date	:	26-JUN-2009	21:13
Quant Method	:	ISTD	
Target Version	:	4.14	
Integrator	:	Falcon	
Method file	:	\DenSvr03\Public\chem\gcs\GC_D2.i	
Last Edit	:	30-Jun-2009 12:45	GC_D2.1

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
\$ 4 Chlormefos	5.0000									
	2.28223	2.03679	2.0000	2.26084	2.35620	2.24671	AVRG	2.19114	6.04132	
\$ 35 Triphenyl phosphate	1.09980	0.99217	0.96977	1.05450	0.99627	1.00900	AVRG	1.01117	4.94580	

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCs\\GC_D2.i\\0626091.B\\8141A-1.m
 Last Edit : 30-Jun-2009 12:45 GC_D2.i

Curve	Formula	Units
Averaged	Ant = Rsp/m1	Response
Wt Linear	Ant = b + Rsp/m1	Response
Quad	Ant = b + m1*Rsp + m2*Rsp^2	Response

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Start Cal Date: 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
26-JUN-2009 21:13	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
26-JUN-2009 20:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
26-JUN-2009 20:18	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
26-JUN-2009 19:50	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
26-JUN-2009 19:23	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
26-JUN-2009 18:55	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
26-JUN-2009 18:28	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\003F0301.D

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

26-JUN-2009 21:40	8141A	
\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\010F1001.D		
26-JUN-2009 19:50	8141A	
\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\006F0601.D		
26-JUN-2009 19:23	8141A	
\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\005F0501.D		

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method File : \\DenSvr03\Public\chem\GCS\GC_D2.i\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\009F0901.D
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Calibration File Names:

Level 1: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\009F0901.D
 Level 2: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\008F0801.D
 Level 3: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\007F0701.D
 Level 4: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\006F0601.D
 Level 5: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\005F0501.D
 Level 6: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\004F0401.D
 Level 7: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\003F0301.D

SEE CALIBRATION HISTORY

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	m ₁	m ₂	%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6						
1 o,o,o-TEPT	5.0000											
		2.92648	2.44243	2.35582	2.65851	2.57132	2.61478					
		2.53900						AVRG		2.58691		7.02274
2 Dichlorvos		1.96421	1.82228	1.84036	2.17503	2.12732	2.04712					
		2.16332						AVRG		2.01995		7.32345
4 Mevinphos		1.44354	1.24995	1.21811	1.44363	1.32123	1.40873					
		1.43954						AVRG		1.36067		7.12634
5 Demeton-O		1.19821	1.29971	1.18493	1.34261	1.38330	1.37760					
		1.28370						AVRG		1.29658		6.26552

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
5.0000										
6 Thionazin	2.15838	1.84195	1.93751	1.98059	2.08762	2.20076	AVRG	2.03479	6.19054	
7 Ethoprop	1.70034	1.41105	1.44674	1.51565	1.56615	1.54046	AVRG	1.52044	6.33190	
8 Phorate	1.89356	1.60276	1.58391	1.69691	1.82591	1.99241	AVRG	1.76315	8.53946	X
9 Naled	94.00000	1666	10859	28010	46004	58330	WLINR	0.13436	0.49080	0.99248
10 Sulfotep		78857								
	2.79835	2.53605	2.59328	2.75080	2.67397	2.68532	AVRG	2.65923	3.59851	
12 Simazine	0.36415	0.34683	0.35351	0.38559	0.39087	0.41510	AVRG	0.38086	7.05346	X
13 Diazinon	12067	15923	49407	98649	155648	181790	WLINR	0.01456	1.44446	0.99190
	228810									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GCS\\GC_D2.i\\0626092.B\\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
5.0000	5.0000									
14 Atrazine	5427	1231	21316	49088	85997	98759	LINR	0.11621	0.83396	0.99221
15 Propazine	4880	8102	20907	43235	72628	85745	WLINR	0.02910	0.68050	0.99492
16 Disulfoton	110050									
17 Demeton-S	1.39584	1.32983	1.36835	1.41433	1.46581	1.46415	AVRG		1.40239	3.56764
18 Dimethoate	1.37843									
19 Ronnel	667	15766	33785	70921	121463	157195	WLINR	0.05954	1.76807	0.99272
20 Mephos A (Mephos)	1.75573									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\\Public\\chem\\GC_D2.i\\0626092.B\\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	
5.0000										
Level 7										
21 Chlорpirifos	1.28253	1.15885	1.24944	1.20702	1.32365	1.38773	AVRG	1	1.28319	6.60140
22 Fenthion	1.20874	1.15890	1.17283	1.16181	1.25398	1.18816	AVRG	1	1.19016	2.76871
23 Trichloroerate	6944	26053	49357	106326	170976	208762	WLINR	0.05263	1.73863	0.99738
24 Anilazine	1634	2256	3581	6899	11039	13112	LINR	-0.00058	0.10979	0.99085
25 Methyl Parathion	19108									
26 Malathion	1.21391	1.12059	1.22102	1.33829	1.35198	1.32937	AVRG	1	1.28489	8.00353
27 Tokuthion	1.41908									
	1.23986	1.19694	1.15056	1.17724	1.17540	1.20726	AVRG	1	1.20369	3.60449
	1.27856									
	1.50291	1.31056	1.35261	1.35076	1.45106	1.48916	AVRG	1	1.40933	5.28420
	1.40826									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method File : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	
5.0000										
Level 7										
28 Parathion	1.27111	1.15628	1.24872	1.23420	1.30817	1.35972	AVRG		1.26610	5.02432
29 Mephos-B (Mephos Oxone)	3793	6271	15065	23458	40683	62127	WLINR	-0.05169	0.21659	0.96366
30 Tetrachlorvinphos (stirophos)	0.86036	0.73114	0.73243	0.80291	0.86664	0.87311	AVRG		0.81902	7.82425
31 Carbophenothion methyl	1.16513	1.02032	1.04699	1.17159	1.27808	1.26831	AVRG		1.17392	9.08251
32 Bolstar	1.26700									
33 Carbophenothion	1.33280	1.22387	1.19075	1.20501	1.27262	1.22830	AVRG		1.23655	4.05030
35 Pensulfothion	0.88346	0.80409	0.88036	0.97346	0.94597	1.00424	AVRG		0.91615	7.30438

NTC,
Mephos

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method File : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2	or R^2
	5.0000									
	Level 7									
37 Phosmet / EPN	19707	35826	68186	146012	207459	263604	WLINR	-0.04262	1.00518	0.99785
38 Fampur	330448									
	1.4536	1.20800	1.18770	1.39816	1.20947	1.39569	AVRG			8.35158
	1.32805									
39 Azinphos-methyl	1.25589	1.08970	1.07858	1.30240	1.20427	1.27709	AVRG			7.33978
	1.19199									
40 Azinphos-ethyl	1.14013	1.11628	1.12015	1.18786	1.16269	1.14594	AVRG			2.23350
	1.12699									
41 Coumaphos	0.78930	0.81655	0.85887	0.90448	0.89897	0.94628	AVRG			6.77030
	0.93653									
S 42 Merphos	1.56460	1.43887	1.64263	1.66880	1.73437	1.91569	AVRG			8.85773
	1.70275									
M 43 Total demeton	3533	23328	47171	100663	168375	213468	WLINR	0.06780	1.63923	0.99469
	244812									

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
 End Cal Date : 26-JUN-2009 21:13
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
 Last Edit : 30-Jun-2009 12:58 GC_D2.i

Compound	0.200000	0.500000	1.0000	2.0000	3.0000	4.0000	Curve	b	Coefficients	%RSD	or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		m1	m2		
\$ 3 Chlormefos	5.0000										
	Level 7										
	2.19506	1.83698	1.78322	2.03418	2.29040	2.05386	AVRG	2.03341		8.83890	
\$ 34 Triphenyl phosphate	2.04016										
	1.10969	0.86972	0.91132	1.07710	1.01080	0.99885	AVRG	0.99779		8.47904	
	1.00703										

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Quant Method : ISTD
Target Version : 4.14
Integrator : Falcon
Method file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Last Edit : 30-Jun-2009 12:58 GC_D2.i

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response
Wt Linear	Amt = b + Rsp/ml	Response

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Start Cal Date: 26-JUN-2009 18:28
End Cal Date : 26-JUN-2009 21:13
Last Cal Level: 1
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
26-JUN-2009 21:13	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\009F0901.D
Cal Level: 2 , Cal Amount: 0.50000		
26-JUN-2009 20:45	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\008F0801.D
Cal Level: 3 , Cal Amount: 1.00000		
26-JUN-2009 20:18	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\007F0701.D
Cal Level: 4 , Cal Amount: 2.00000		
26-JUN-2009 19:50	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\006F0601.D
Cal Level: 5 , Cal Amount: 3.00000		
26-JUN-2009 19:23	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\005F0501.D
Cal Level: 6 , Cal Amount: 4.00000		
26-JUN-2009 18:55	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\004F0401.D
Cal Level: 7 , Cal Amount: 5.00000		
26-JUN-2009 18:28	8141A	\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\003F0301.D

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

26-JUN-2009 21:40	8141A	
		\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\010F1001.D
26-JUN-2009 19:50	8141A	
		\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\006F0601.D
26-JUN-2009 19:23	8141A	
		\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\005F0501.D

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	%D	MAX
1 o,o,o-TEPT	2.0000	2.0577	2.9	15.0	
2 Dichlorvos	2.0000	1.9061	4.7	15.0	
3 Mevinphos	2.0000	1.6977	15.1	15.0	<-OK
4 Chlormefos	2.0000	1.7808	11.0	15.0	
5 Thionazin	2.0000	1.9740	1.3	15.0	
6 Demeton-O	0.6500	1.8707	187.8	15.0	<-OK, see total demeton
7 Ethoprop	2.0000	2.0536	2.7	15.0	
8 Naled	2.0000	1.1983	40.1	15.0	<-
9 Sulfotepp	2.0000	1.7932	10.3	15.0	
10 Phorate	2.0000	2.0180	0.9	15.0	
11 Dimethoate	2.0000	2.0859	4.3	15.0	
12 Demeton-S	1.3600	0.2313	83.0	15.0	<-OK, see total demeton
13 Simazine	2.0000	2.6218	31.1	15.0	<-
14 Atrazine	2.0000	1.9566	2.2	15.0	
15 propazine	2.0000	1.9127	4.4	15.0	
17 Disulfoton	2.0000	1.5890	20.6	15.0	<-
16 Diazinon	2.0000	2.1583	7.9	15.0	
18 Methyl Parathion	2.0000	2.0404	2.0	15.0	
19 Ronnel	2.0000	2.1513	7.6	15.0	
20 Malathion	2.0000	1.6248	18.8	15.0	<-
21 Fenthion	2.0000	1.8840	5.8	15.0	
22 Parathion	2.0000	1.9436	2.8	15.0	
23 Chlorpyrifos	2.0000	1.9720	1.4	15.0	
24 Trichloronate	2.0000	1.8619	6.9	15.0	
25 Anilazine	2.0000	1.0151	49.2	15.0	<-
148 Merphos-A (Merphos)	2.0000	0.4078	79.6	999.0	
26 Tetrachlorvinphos (Stirophos)	2.0000	2.0880	4.4	15.0	
28 Tokuthion	2.0000	2.0254	1.3	15.0	
149 Merphos-B (Merphos Oxone)	2.0000	6.6232	231.2	999.0	
29 Carbophenothion-methyl	2.0000	1.3536	32.3	15.0	<-
29 Fensulfothion	2.0000	1.9235	3.8	15.0	
30 Bolstar / Famphur	4.0000	4.0636	1.6	15.0	
32 Carbophenothion	2.0000	1.8639	6.8	15.0	
31 Triphenyl phosphate	2.0000	1.7170	14.2	15.0	
34 Phosmet	2.0000	1.6471	17.6	15.0	<-
32 EPN	2.0000	1.7931	10.3	15.0	
33 Azinphos-methyl	2.0000	1.9226	3.9	15.0	
35 Azinphos-ethyl	2.0000	1.8331	8.3	15.0	
36 Coumaphos	2.0000	2.0063	0.3	15.0	

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B/010F1001.D
Report Date: 06/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 Morphos	2.0000	1.7215	13.9	15.0
40 Total Demeton	2.0000	2.1021	5.1	15.0

Average %D = 23.4

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 o,o,o-TEPT	2.0000	2.0069	0.3	15.0
2 Dichlorvos	2.0000	1.7707	11.5	15.0
3 Chlormefos	2.0000	1.6957	15.2	15.0 <-OK
4 Mevinphos	2.0000	1.8364	8.2	15.0
5 Demeton-O	0.6500	2.0472	215.0	15.0 <-OK, see total demeton
6 Thionazin	2.0000	1.8758	6.2	15.0
7 Ethoprop	2.0000	1.8962	5.2	15.0
8 Phorate	2.0000	1.9509	2.5	15.0
10 Naled	2.0000	1.0486	47.6	15.0 <-
146 Sulfotep	2.0000	1.7143	14.3	15.0
10 Simazine	2.0000	3.6013	80.1	15.0 <-
12 Diazinon	2.0000	2.0803	4.0	15.0
150 Atrazine	2.0000	1.9693	1.5	15.0
13 Propazine	2.0000	1.8742	6.3	15.0
14 Disulfoton	2.0000	1.6970	15.1	15.0 <-OK
15 Demeton-S	1.3600	0.2011	85.2	15.0 <-OK, see total demeton
16 Dimethoate	2.0000	1.8701	6.5	15.0
17 Ronnel	2.0000	2.0112	0.6	15.0
148 Merphos-A (Merphos)	2.0000	0.5348	73.3	999.0
18 Chlorpyrifos	2.0000	2.1084	5.4	15.0
19 Fenthion	2.0000	2.0634	3.2	15.0
20 Trichloronate	2.0000	1.8617	6.9	15.0
21 Anilazine	2.0000	1.2425	37.9	15.0 <-
23 Methyl Parathion	2.0000	2.0228	1.1	15.0
24 Malathion	2.0000	1.5362	23.2	15.0 <-
25 Tokuthion	2.0000	1.8925	5.4	15.0
26 Parathion	2.0000	2.1337	6.7	15.0
149 Merphos-B (Merphos Oxone)	2.0000	5.0080	150.4	999.0
27 Tetrachlorvinphos (stirophos)	2.0000	2.0814	4.1	15.0
28 Carbophenothion methyl	2.0000	1.2466	37.7	15.0 <-
28 Bolstar	2.0000	2.0778	3.9	15.0
30 Carbophenothion	2.0000	1.7496	12.5	15.0
29 Triphenyl phosphate	2.0000	1.7275	13.6	15.0
30 Fensulfothion	2.0000	2.0824	4.1	15.0
35 Phosmet / EPN	4.0000	3.4695	13.3	15.0
33 Famphur	2.0000	1.7579	12.1	15.0
34 Azinphos-methyl	2.0000	1.8108	9.5	15.0
35 Azinphos-ethyl	2.0000	1.7982	10.1	15.0
36 Coumaphos	2.0000	1.9588	2.1	15.0

Data File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B/010F1001.D
Report Date: 06/30/2009

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Analysis Type: NONE

Injection Date: 26-JUN-2009 21:40
Lab Sample ID: OPP SS GSV0633
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	%D	MAX
22 Morphos	2.0000	1.6146	19.3	15.0	<-
40 Total Demeton	2.0000	2.2483	12.4	15.0	

Average %D = 24.2

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\003F0301.D
Lab Smp Id: OPP L7 GSV0634 Client Smp ID: OPP L7 GSV0634
Inj Date : 26-JUN-2009 18:28
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L7 GSV0634
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 20:18 Cal File: 007F0701.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.256	3.254 (0.183)		707938	5.00000	4.923
2 Dichlorvos	4.075	4.074 (0.228)		456822	5.00000	5.116 (A)
3 Mevinphos	5.736	5.739 (0.322)		240948	5.00000	4.912
\$ 4 Chlormefos	5.835	5.836 (0.327)		549929	5.00000	4.918
5 Thionazin	7.505	7.507 (0.421)		493034	5.00000	4.831
6 Demeton-O	7.645	7.649 (0.428)		165003	1.62500	1.714
7 Ethoprop	7.846	7.852 (0.440)		445084	5.00000	4.977
8 Naled	8.053	8.057 (0.451)		121152	5.00000	5.203 (A)
* 9 Tributylphosphate	8.110	8.135 (1.000)		206876	2.00000	
10 Sulfotep	8.440	8.442 (0.473)		609341	5.00000	4.831
11 Phorate	8.530	8.532 (0.478)		441181	5.00000	4.764
12 Dimethoate	8.655	8.659 (0.485)		565436	5.00000	5.256 (A)
13 Demeton-S	8.838	8.846 (0.495)		264954	3.40000	3.396
14 Simazine	8.921	8.924 (0.500)		190219	5.00000	5.176 (A)
15 Atrazine	9.091	9.094 (0.510)		228392	5.00000	5.475 (A)
16 propazine	9.236	9.241 (0.518)		202756	5.00000	5.268 (A)
17 Disulfoton	9.866	9.869 (0.553)		290419	5.00000	4.668
18 Diazinon	9.900	9.902 (0.555)		490902	5.00000	4.934
19 Methyl Parathion	10.715	10.717 (0.601)		322048	5.00000	5.104 (A)
20 Ronnel	11.238	11.241 (0.630)		302582	5.00000	4.640
21 Malathion	11.801	11.804 (0.661)		283462	5.00000	4.812
22 Fenthion	11.930	11.932 (0.669)		301476	5.00000	4.701
23 Parathion	12.020	12.019 (0.674)		334974	5.00000	4.908
24 Chlorpyrifos	12.068	12.067 (0.676)		398604	5.00000	4.827
25 Trichloronate	12.493	12.496 (0.700)		365975	5.00000	4.959
26 Anilazine	12.815	12.817 (0.718)		34322	5.00000	4.247
27 Merphos-A (Merphos)	13.196	13.199 (0.740)		302744	5.00000	4.916
28 Tetrachlorvinphos (Stirophos)	13.818	13.824 (0.774)		210886	5.00000	5.153 (A)
29 Tokuthion	14.448	14.449 (0.810)		351657	5.00000	4.970
30 Merphos-B (Merphos Oxone)	14.646	14.651 (0.821)		79809	5.00000	4.813
31 Carbophenothion-methyl	15.235	15.239 (0.854)		266724	5.00000	4.968
32 Fensulfothion	15.356	15.361 (0.861)		295978	5.00000	4.978
33 Bolstar / Famphur	16.053	16.053 (0.900)		629265	10.00000	9.297

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.196	16.197	(0.908)	321417	5.00000	4.733
\$ 35 Triphenyl phosphate	16.710	16.712	(0.936)	244102	5.00000	4.730 (A)
36 Phosmet	16.963	16.963	(0.951)	290049	5.00000	4.990
37 EPN	17.150	17.151	(0.961)	294020	5.00000	5.219 (A)
38 Azinphos-methyl	17.478	17.480	(0.980)	309219	5.00000	4.993
* 39 TOCP	17.843	17.846	(1.000)	102065	2.00000	
40 Azinphos-ethyl	17.923	17.926	(1.004)	318459	5.00000	4.789
41 Coumaphos	18.363	18.366	(1.029)	252650	5.00000	5.058 (A)
S 42 Merphos				382553	5.00000	4.876
M 43 Total Demeton				429957	5.00000	5.110

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 003F0301.D
Lab Smp Id: OPP L7 GSV0634
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 21:40
Client Smp ID: OPP L7 GSV0634
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	166572	83286	333144	206876	24.20
39 TOCP	99647	49824	199294	102065	2.43

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	-0.03
39 TOCP	17.84	17.34	18.34	17.84	0.01

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

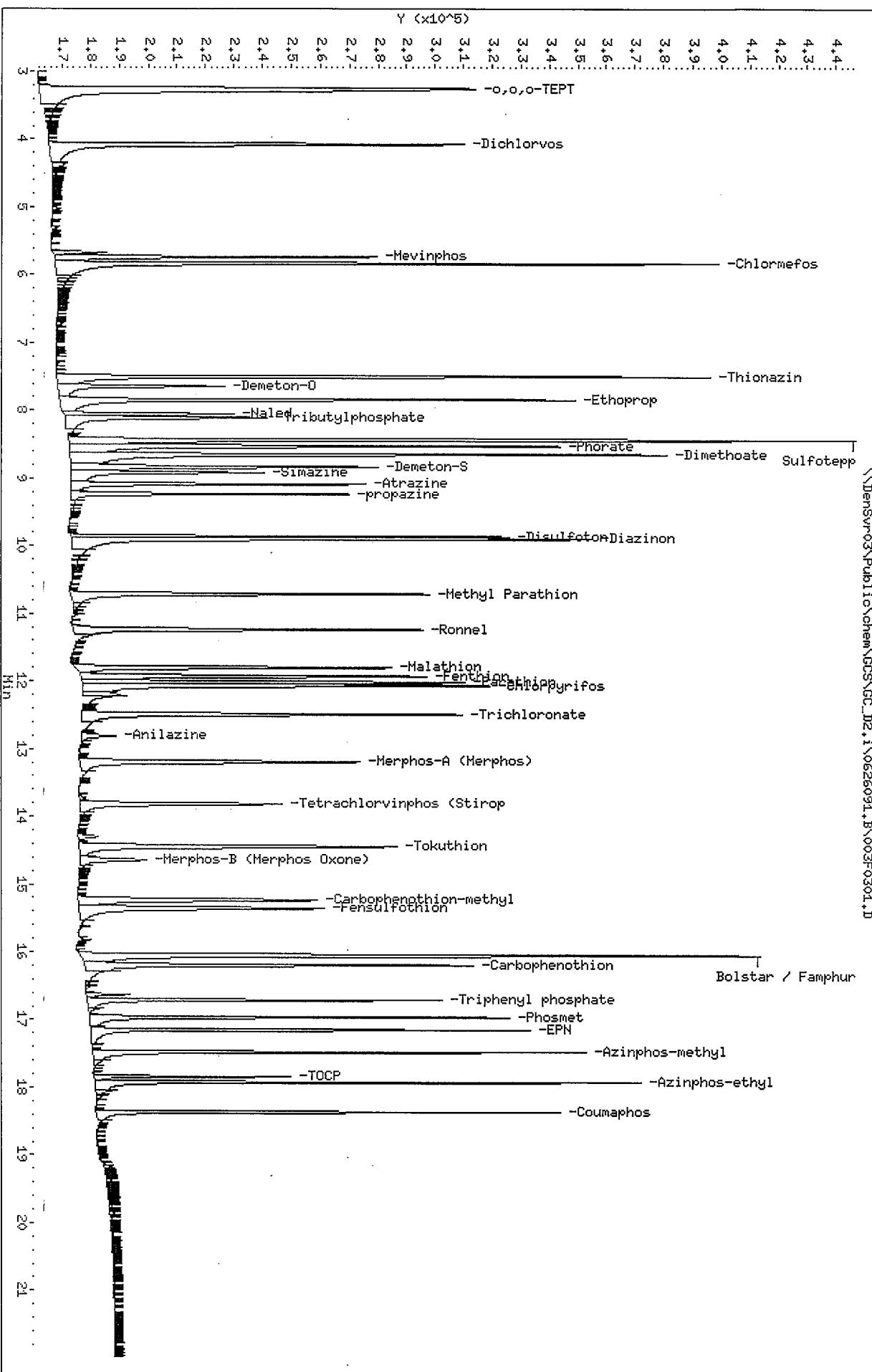
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Sample Info: OPP L7 GSV0634
Column phase: RTx-1MS

Instrument: GC_D2.i
Operator: MPK/TLM
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\003F0301.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\004F0401.D
Lab Smp Id: OPP L6 GSV0637 Client Smp ID: OPP L6 GSV0637
Inj Date : 26-JUN-2009 18:55
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L6 GSV0637
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 18:28 Cal File: 003F0301.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.254	3.254 (0.182)		559984	4.00000	4.123
2 Dichlorvos	4.074	4.074 (0.228)		337386	4.00000	4.000
3 Mevinphos	5.736	5.739 (0.321)		189437	4.00000	4.089
\$ 4 Chlormefos	5.834	5.836 (0.327)		433193	4.00000	4.101
5 Thionazin	7.504	7.507 (0.421)		385808	4.00000	4.002
6 Demeton-O	7.646	7.649 (0.429)		113108	1.30000	1.237
7 Ethoprop	7.848	7.852 (0.440)		343730	4.00000	4.069
8 Naled	8.054	8.057 (0.451)		90892	4.00000	4.172
* 9 Tributylphosphate	8.111	8.135 (1.000)		190710	2.00000	
10 Sulfotep	8.439	8.442 (0.473)		486417	4.00000	4.072
11 Phorate	8.531	8.532 (0.478)		345415	4.00000	3.949
12 Dimethoate	8.654	8.659 (0.485)		445385	4.00000	4.383
13 Demeton-S	8.838	8.846 (0.495)		208362	2.72000	2.828
14 Simazine	8.919	8.924 (0.500)		147784	4.00000	4.272
15 Atrazine	9.089	9.094 (0.509)		175159	4.00000	4.445
16 propazine	9.236	9.241 (0.518)		156982	4.00000	4.318
17 Disulfoton	9.868	9.869 (0.553)		247845	4.00000	4.214
18 Diazinon	9.901	9.902 (0.555)		354996	4.00000	3.778
19 Methyl Parathion	10.714	10.717 (0.601)		250051	4.00000	4.196
20 Ronnel	11.239	11.241 (0.630)		259621	4.00000	4.214
21 Malathion	11.799	11.804 (0.661)		228260	4.00000	4.097
22 Fenthion	11.931	11.932 (0.669)		241990	4.00000	3.995
23 Parathion	12.018	12.019 (0.674)		267071	4.00000	4.142
24 Chlorpyrifos	12.066	12.067 (0.676)		312992	4.00000	4.013
25 Trichloronate	12.493	12.496 (0.700)		293942	4.00000	4.216
26 Anilazine	12.814	12.817 (0.718)		29375	4.00000	4.019
27 Merphos-A (Merphos)	13.196	13.199 (0.740)		239875	4.00000	4.124
28 Tetrachlorvinphos (Stirophos)	13.818	13.824 (0.774)		164180	4.00000	4.247
29 Tokuthion	14.446	14.449 (0.810)		271654	4.00000	4.065
30 Merphos-B (Merphos Oxone)	14.648	14.651 (0.821)		65974	4.00000	4.215
31 Carbophenothion-methyl	15.234	15.239 (0.854)		206137	4.00000	4.052
32 Fensulfothion	15.358	15.361 (0.861)		229856	4.00000	4.110
33 Bolstar / Famphur	16.053	16.053 (0.900)		495681	8.00000	7.753

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.194	16.197 (0.908)		272632	4.00000	4.251
\$ 35 Triphenyl phosphate	16.711	16.712 (0.937)		194548	4.00000	3.991(A)
36 Phosmet	16.963	16.963 (0.951)		223910	4.00000	4.079
37 EPN	17.148	17.151 (0.961)		220388	4.00000	4.152
38 Azinphos-methyl	17.478	17.480 (0.980)		244293	4.00000	4.176
* 39 TOCP	17.843	17.846 (1.000)		96406	2.00000	
40 Azinphos-ethyl	17.923	17.926 (1.004)		253982	4.00000	4.021
41 Coumaphos	18.363	18.366 (1.029)		194765	4.00000	4.128
S 42 Merphos				305849	4.00000	4.161
M 43 Total Demeton				321470	4.00000	4.064

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Lab Smp Id: OPP L6 GSV0637
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 21:40
Client Smp ID: OPP L6 GSV0637
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	166572	83286	333144	190710	14.49
39 TOCP	99647	49824	199294	96406	-3.25

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	-0.01
39 TOCP	17.84	17.34	18.34	17.84	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

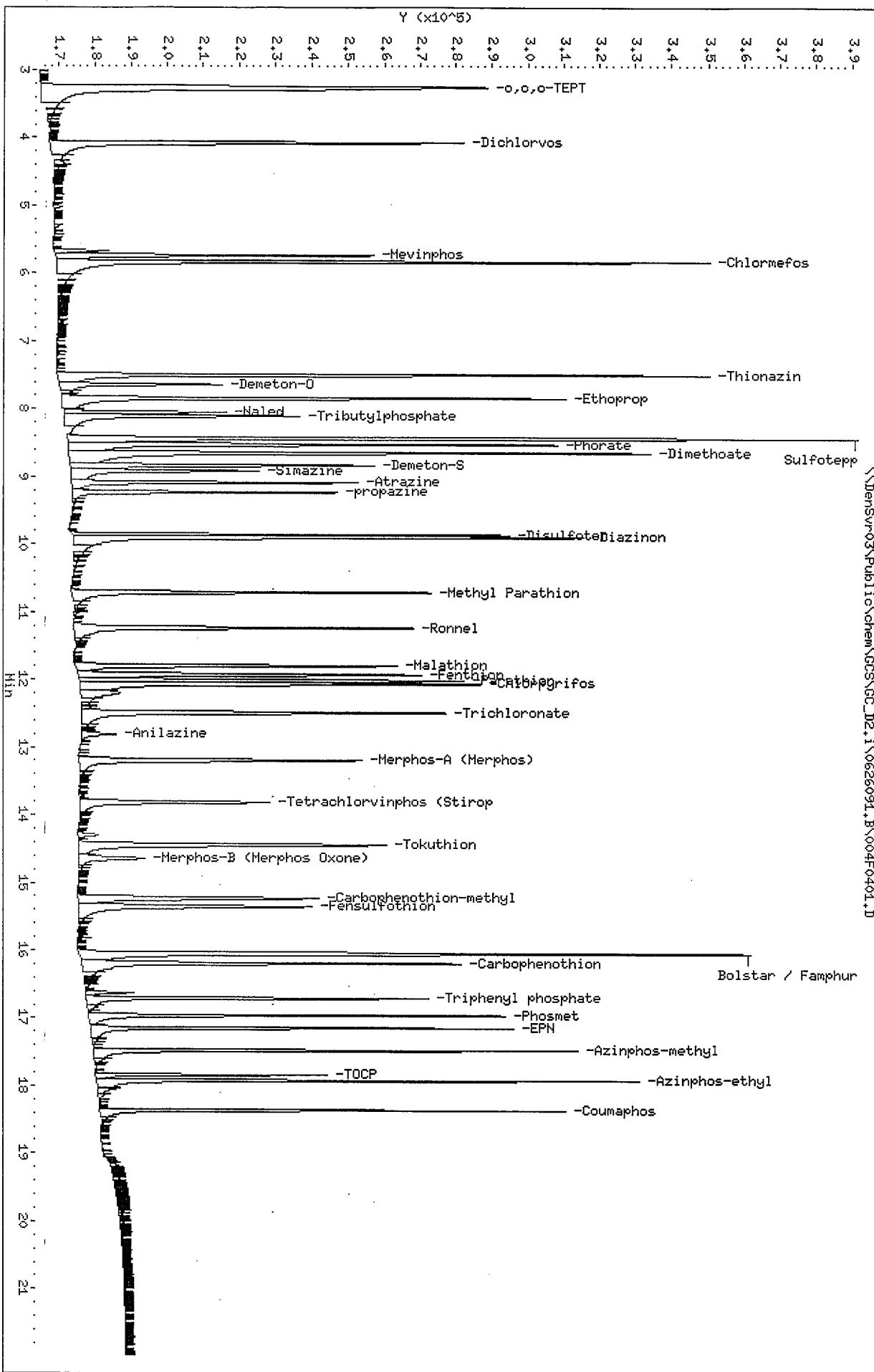
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Sample Info: OPP L6 GSV0637
Column phase: RTx-1MS

Instrument: GC_D2.i
Operator: MPK/TLM
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\004F0401.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\005F0501.D
Lab Smp Id: OPP L5 GSV0635 Client Smp ID: OPP L5 GSV0635
Inj Date : 26-JUN-2009 19:23
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L5 GSV0635
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 18:55 Cal File: 004F0401.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.254	3.254 (0.182)	430120	3.00000	2.892	
2 Dichlorvos	4.074	4.074 (0.228)	272336	3.00000	2.949	
3 Mevinphos	5.737	5.739 (0.322)	150686	3.00000	2.970	
\$ 4 Chlormefos	5.834	5.836 (0.327)	373109	3.00000	3.226	
5 Thionazin	7.504	7.507 (0.421)	310451	3.00000	2.941	
6 Demeton-O	7.646	7.649 (0.429)	96004	0.97500	0.9530	
7 Ethoprop	7.847	7.852 (0.440)	275706	3.00000	2.981	
8 Naled	8.054	8.057 (0.451)	67594	3.00000	2.896	
* 9 Tributylphosphate	8.111	8.135 (1.000)	190357	2.00000		
10 Sulfotep	8.439	8.442 (0.473)	393078	3.00000	2.987	
11 Phorate	8.531	8.532 (0.478)	279291	3.00000	2.916	
12 Dimethoate	8.654	8.659 (0.485)	354003	3.00000	3.181	
13 Demeton-S	8.837	8.846 (0.495)	167136	2.04000	2.071	
14 Simazine	8.919	8.924 (0.500)	115426	3.00000	3.070	
15 Atrazine	9.089	9.094 (0.509)	135287	3.00000	3.135	
16 propazine	9.236	9.241 (0.518)	119795	3.00000	3.009	
17 Disulfoton	9.867	9.869 (0.553)	193050	3.00000	2.986	
18 Diazinon	9.901	9.902 (0.555)	314608	3.00000	3.057	
19 Methyl Parathion	10.714	10.717 (0.600)	206402	3.00000	3.163	
20 Ronnel	11.239	11.241 (0.630)	197062	3.00000	2.921	
21 Malathion	11.799	11.804 (0.661)	186013	3.00000	3.038	
22 Fenthion	11.931	11.932 (0.669)	198864	3.00000	2.998	
23 Parathion	12.017	12.019 (0.674)	215846	3.00000	3.057	
24 Chlorpyrifos	12.066	12.067 (0.676)	255782	3.00000	2.995	
25 Trichloronate	12.494	12.496 (0.700)	231599	3.00000	3.034	
26 Anilazine	12.812	12.817 (0.718)	19893	3.00000	2.881	
27 Morphos-A (Morphos)	13.196	13.199 (0.740)	192022	3.00000	3.015	
28 Tetrachlorvinphos (Stirophos)	13.816	13.824 (0.774)	134968	3.00000	3.188	
29 Tokuthion	14.447	14.449 (0.810)	220825	3.00000	3.018	
30 Morphos-B (Morphos Oxone)	14.647	14.651 (0.821)	50056	3.00000	2.927	
31 Carbophenothion-methyl	15.236	15.239 (0.854)	167145	3.00000	2.983	
32 Fensulfothion	15.356	15.361 (0.861)	185778	3.00000	3.058	
33 Bolstar / Famphur	16.051	16.053 (0.900)	404218	6.00000	5.774	

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.194	16.197	(0.908)	199717	3.00000	2.844
\$ 35 Triphenyl phosphate	16.711	16.712	(0.937)	157761	3.00000	2.956 (A)
36 Phosmet	16.962	16.963	(0.951)	177892	3.00000	2.959
37 EPN	17.149	17.151	(0.961)	171283	3.00000	2.961
38 Azinphos-methyl	17.476	17.480	(0.979)	195645	3.00000	3.054
* 39 TOCP	17.842	17.846	(1.000)	105568	2.00000	
40 Azinphos-ethyl	17.922	17.926	(1.004)	209971	3.00000	2.999
41 Coumaphos	18.364	18.366	(1.029)	159962	3.00000	3.096
S 42 Merphos				242078	3.00000	2.978
M 43 Total Demeton				263140	3.00000	3.024

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 005F0501.D
Lab Smp Id: OPP L5 GSV0635
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 21:40
Client Smp ID: OPP L5 GSV0635
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	166572	83286	333144	190357	14.28
39 TOCP	99647	49824	199294	105568	5.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	-0.02
39 TOCP	17.84	17.34	18.34	17.84	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

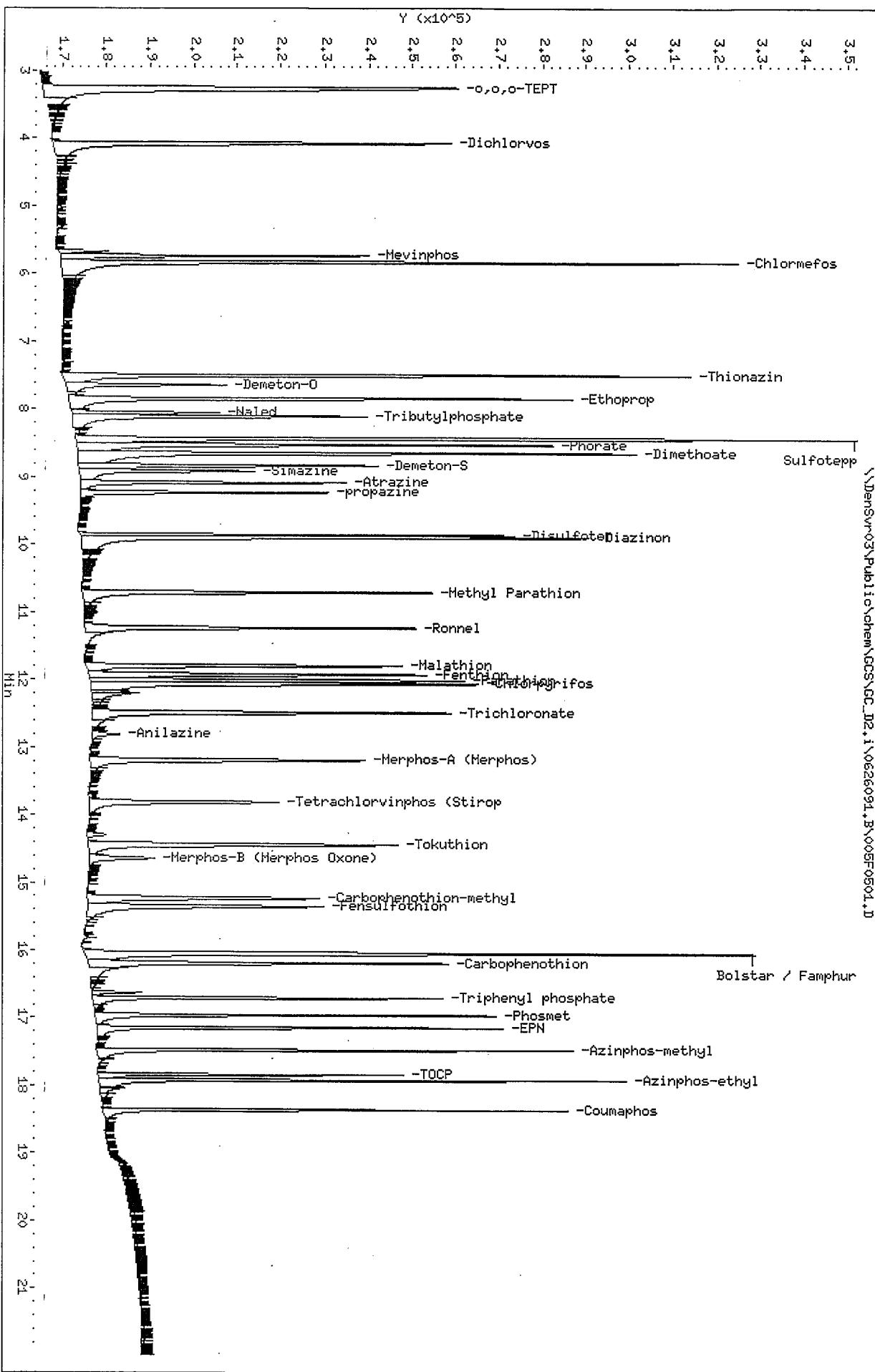
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Sample Info: OPP L5 GSV0635

Column phase: RTx-1MS

Instrument: GC_D2.i
Operator: HPK/TLW
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\005F0501.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\006F0601.D
Lab Smp Id: OPP L4 GSV0638 Client Smp ID: OPP L4 GSV0638
Inj. Date : 26-JUN-2009 19:50
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L4 GSV0638
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 19:23 Cal File: 005F0501.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.255	3.254 (0.182)	282037	2.00000	2.056	
2 Dichlorvos	4.075	4.074 (0.228)	171715	2.00000	2.016	
3 Mevinphos	5.737	5.739 (0.322)	99077	2.00000	2.117	
\$ 4 Chlormefos	5.834	5.836 (0.327)	220122	2.00000	2.064	
5 Thionazin	7.504	7.507 (0.421)	202723	2.00000	2.082	
6 Demeton-O	7.647	7.649 (0.429)	62341	0.65000	0.6633	
7 Ethoprop	7.849	7.852 (0.440)	168636	2.00000	1.977	
8 Naled	8.055	8.057 (0.451)	36940	2.00000	1.794	
* 9 Tributylphosphate	8.112	8.135 (1.000)	160310	2.00000		
10 Sulfotep	8.439	8.442 (0.473)	259970	2.00000	2.122	
11 Phorate	8.530	8.532 (0.478)	177561	2.00000	2.010	
12 Dimethoate	8.655	8.659 (0.485)	219744	2.00000	2.141	
13 Demeton-S	8.840	8.846 (0.495)	104966	1.36000	1.410	
14 Simazine	8.919	8.924 (0.500)	64611	2.00000	1.894	
15 Atrazine	9.089	9.094 (0.509)	82396	2.00000	2.070	
16 propazine	9.235	9.241 (0.518)	76116	2.00000	2.073	
17 Disulfoton	9.867	9.869 (0.553)	127893	2.00000	2.134	
18 Diazinon	9.902	9.902 (0.555)	196533	2.00000	2.071	
19 Methyl Parathion	10.714	10.717 (0.600)	128904	2.00000	2.142	
20 Ronnel	11.239	11.241 (0.630)	125931	2.00000	2.024	
21 Malathion	11.799	11.804 (0.661)	119836	2.00000	2.110	
22 Fenthion	11.930	11.932 (0.669)	125692	2.00000	2.054	
23 Parathion	12.017	12.019 (0.673)	135333	2.00000	2.078	
24 Chlorpyrifos	12.067	12.067 (0.676)	158619	2.00000	2.014	
25 Trichlororonate	12.494	12.496 (0.700)	144264	2.00000	2.049	
26 Anilazine	12.815	12.817 (0.718)	12790	2.00000	2.151	
27 Merphos-A (Merphos)	13.197	13.199 (0.740)	120719	2.00000	2.055	
28 Tetrachlorvinphos (Stirophos)	13.817	13.824 (0.774)	81250	2.00000	2.081	
29 Tokuthion	14.447	14.449 (0.810)	140431	2.00000	2.081	
30 Merphos-B (Merphos Oxone)	14.649	14.651 (0.821)	34113	2.00000	2.168	
31 Carbophenothon-methyl	15.235	15.239 (0.854)	105577	2.00000	2.022	
32 Fensulfofthion	15.357	15.361 (0.861)	104440	2.00000	1.901	
33 Bolstar / Famphur	16.052	16.053 (0.900)	260611	4.00000	4.036	

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.195	16.197	(0.908)	128846	2.00000	1.989
\$ 35. Triphenyl phosphate	16.710	16.712	(0.936)	102669	2.00000	2.086(A)
36 Phosmet	16.962	16.963	(0.951)	117406	2.00000	2.118
37 EPN	17.149	17.151	(0.961)	111165	2.00000	2.098
38 Azinphos-methyl	17.477	17.480	(0.979)	124853	2.00000	2.113
* 39 TOCP	17.844	17.846	(1.000)	97363	2.00000	
40 Azinphos-ethyl	17.924	17.926	(1.004)	134607	2.00000	2.040
41 Coumaphos	18.364	18.366	(1.029)	99259	2.00000	2.083
S 42 Merphos				154832	2.00000	2.068
M 43 Total Demeton				167307	2.00000	2.074

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 006F0601.D
Lab Smp Id: OPP L4 GSV0638
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L4 GSV0638
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	160310	80155	320620	160310	0.00
39 TOCP	97363	48682	194726	97363	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	0.00
39 TOCP	17.84	17.34	18.34	17.84	0.00

AREA UPPER LIMIT = +100% of internal standard area.

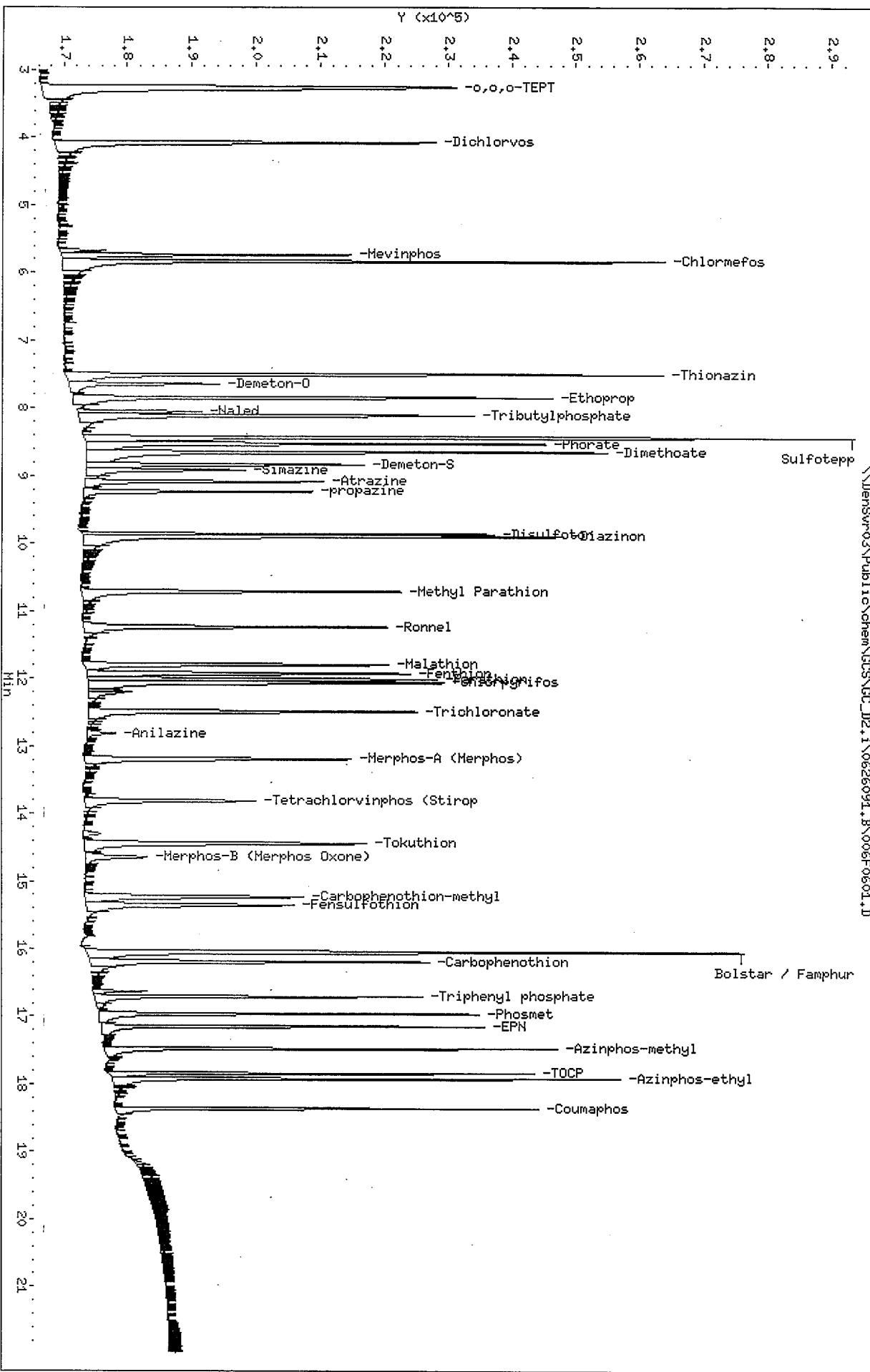
AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Column phase#: RTx-4MS
Sample Info#: OPP L4 GSW0638

Instrument#: GC_D2.i
Operator#: MPK/TLM
Column diameter#: 0.32
\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\006F0601.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\007F0701.D
Lab Smp Id: OPP L3 GSV0639 Client Smp ID: OPP L3 GSV0639
Inj Date : 26-JUN-2009 20:18
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L3 GSV0639
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 19:50 Cal File: 006F0601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.253	3.254 (0.182)		136897	1.00000	0.9509
2 Dichlorvos	4.075	4.074 (0.228)		81003	1.00000	0.9061
3 Mevinphos	5.738	5.739 (0.322)		46063	1.00000	0.9380
\$ 4 Chlormefos	5.833	5.836 (0.327)		102183	1.00000	0.9128
5 Thionazin	7.503	7.507 (0.421)		99560	1.00000	0.9745
6 Demeton-O	7.645	7.649 (0.429)		30145	0.32500	0.2917
7 Ethoprop	7.850	7.852 (0.440)		82934	1.00000	0.9263
8 Naled	8.055	8.057 (0.451)		15042	1.00000	0.8141
* 9 Tributylphosphate	8.113	8.135 (1.000)		156624	2.00000	
10 Sulfotepp	8.438	8.442 (0.473)		131347	1.00000	0.9856
11 Phorate	8.530	8.532 (0.478)		88795	1.00000	0.9577
12 Dimethoate	8.657	8.659 (0.485)		105981	1.00000	0.9840
13 Demeton-S	8.840	8.846 (0.495)		51826	0.68000	0.6636
14 Simazine	8.918	8.924 (0.500)		29382	1.00000	0.8660
15 Atrazine	9.088	9.094 (0.509)		38356	1.00000	0.9184
16 propazine	9.235	9.241 (0.518)		35375	1.00000	0.9180
17 Disulfoton	9.867	9.869 (0.553)		61920	1.00000	0.9637
18 Diazinon	9.902	9.902 (0.555)		93892	1.00000	0.9427
19 Methyl Parathion	10.715	10.717 (0.601)		58112	1.00000	0.9200
20 Ronnel	11.240	11.241 (0.630)		61984	1.00000	0.9493
21 Malathion	11.800	11.804 (0.661)		57103	1.00000	0.9353
22 Fenthion	11.930	11.932 (0.669)		59512	1.00000	0.9268
23 Parathion	12.017	12.019 (0.674)		63007	1.00000	0.9220
24 Chloryrifos	12.067	12.067 (0.676)		75298	1.00000	0.9108
25 Trichloronate	12.493	12.496 (0.700)		68852	1.00000	0.9318
26 Anilazine	12.817	12.817 (0.718)		5311	1.00000	0.9480
27 Merphos-A (Merphos)	13.198	13.199 (0.740)		59249	1.00000	0.9611
28 Tetrachlorvinphos (Stirophos)	13.818	13.824 (0.775)		37534	1.00000	0.9161
29 Tokuthion	14.448	14.449 (0.810)		66164	1.00000	0.9341
30 Merphos-B (Merphos Oxone)	14.647	14.651 (0.821)		11676	1.00000	0.7212
31 Carbophenothion-methyl	15.235	15.239 (0.854)		55023	1.00000	0.9704
32 Fensulfothion	15.360	15.361 (0.861)		51304	1.00000	0.9402
33 Bolstar / Famphur	16.050	16.053 (0.900)		135217	2.00000	1.995

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.193	16.197	(0.908)	65237	1.00000	0.9596
\$ 35 Triphenyl phosphate	16.708	16.712	(0.936)	49547	1.00000	0.9591
36 Phosmet	16.962	16.963	(0.951)	56728	1.00000	0.9749
37 EPN	17.148	17.151	(0.961)	48705	1.00000	0.9045
38 Azinphos-methyl	17.478	17.480	(0.980)	59658	1.00000	0.9622
* 39 TOCP	17.842	17.846	(1.000)	102183	2.00000	
40 Azinphos-ethyl	17.923	17.926	(1.005)	74071	1.00000	0.9989
41 Coumaphos	18.363	18.366	(1.029)	47132	1.00000	0.9424
S 42 Merphos				70925	1.00000	0.8976
M 43 Total Demeton				81971	1.00000	0.9553

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC D2.i
Lab File ID: 007F0701.D
Lab Smp Id: OPP L3 GSV0639
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L3 GSV0639
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	160310	80155	320620	156624	-2.30
39 TOCP	97363	48682	194726	102183	4.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	0.02
39 TOCP	17.84	17.34	18.34	17.84	-0.01

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date : 26-JUN-2009 20:18

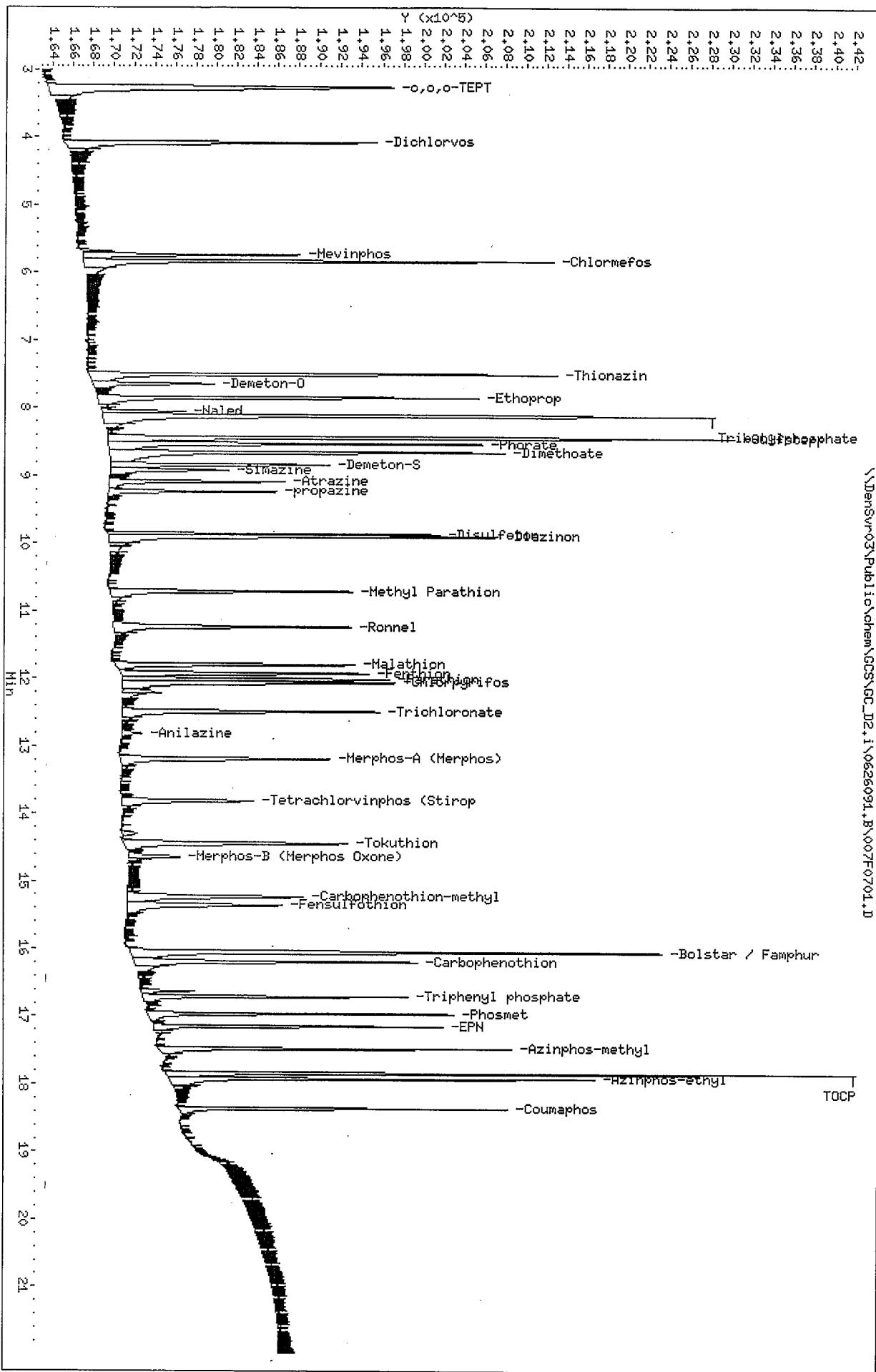
Client ID: OPP L3 CSV0639

Sample Info: OPP L3 CSV0639

Column phase: RTx-1HS

Instrument: GC_D2.i
Operator: MPK/TLW
Column diameter: 0.32

\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\007F0701.D



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\008F0801.D
Lab Smp Id: OPP L2 GSV0640 Client Smp ID: OPP L2 GSV0640
Inj Date : 26-JUN-2009 20:45
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L2 GSV0640
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 20:18 Cal File: 007F0701.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.255	3.254 (0.182)		68743	0.50000	0.4680
2 Dichlorvos	4.076	4.074 (0.228)		42284	0.50000	0.4636
3 Mevinphos	5.738	5.739 (0.322)		23796	0.50000	0.4749
\$ 4 Chlormefos	5.833	5.836 (0.327)		53089	0.50000	0.4648
5 Thionazin	7.505	7.507 (0.421)		50724	0.50000	0.4866
6 Demeton-O	7.646	7.649 (0.429)		17553	0.16250	0.1554
7 Ethoprop	7.851	7.852 (0.440)		44525	0.50000	0.4874
8 Naled	8.056	8.057 (0.452)		6103	0.50000	0.4398
* 9 Tributylphosphate	8.113	8.135 (1.000)		165852	2.00000	
10 Sulfotepp	8.438	8.442 (0.473)		70885	0.50000	0.4886
11 Phorate	8.530	8.532 (0.478)		47685	0.50000	0.5040
12 Dimethoate	8.660	8.659 (0.485)		46100	0.50000	0.4195
13 Demeton-S	8.843	8.846 (0.496)		25917	0.34000	0.3252
14 Simazine	8.920	8.924 (0.500)		16248	0.50000	0.5059
15 Atrazine	9.091	9.094 (0.510)		19948	0.50000	0.4681
16 propazine	9.236	9.241 (0.518)		18281	0.50000	0.4649
17 Disulfoton	9.866	9.869 (0.553)		33208	0.50000	0.4883
18 Diazinon	9.903	9.902 (0.555)		47843	0.50000	0.4708
19 Methyl Parathion	10.715	10.717 (0.601)		28773	0.50000	0.4464
20 Ronnel	11.240	11.241 (0.630)		32156	0.50000	0.4827
21 Malathion	11.800	11.804 (0.661)		30581	0.50000	0.4713
22 Fenthion	11.931	11.932 (0.669)		30876	0.50000	0.4713
23 Parathion	12.016	12.019 (0.673)		32682	0.50000	0.4687
24 Chlorpyrifos	12.066	12.067 (0.676)		40856	0.50000	0.4843
25 Trichloronate	12.493	12.496 (0.700)		37156	0.50000	0.4928
26 Anilazine	12.820	12.817 (0.718)		2095	0.50000	0.4035 (M)
27 Merphos-A (Merphos)	13.200	13.199 (0.740)		30112	0.50000	0.4787
28 Tetrachlorvinphos (Stirophos)	13.818	13.824 (0.774)		19446	0.50000	0.4652
29 Tokuthion	14.448	14.449 (0.810)		33437	0.50000	0.4626
30 Merphos-B (Merphos Oxone)	14.651	14.651 (0.821)		7933	0.50000	0.4872 (M)
31 Carbophenothion-methyl	15.235	15.239 (0.854)		30542	0.50000	0.4974
32 Fensulfothion	15.360	15.361 (0.861)		23000	0.50000	0.4661
33 Bolstar / Famphur	16.050	16.053 (0.899)		66619	1.00000	0.9635

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.193	16.197	(0.908)	31276	0.50000	0.4509
\$ 35 Triphenyl phosphate	16.710	16.712	(0.936)	25861	0.50000	0.4906
36 Phosmet	16.961	16.963	(0.951)	26426	0.50000	0.4451
37 EPN	17.148	17.151	(0.961)	23196	0.50000	0.4484
38 Azinphos-methyl	17.478	17.480	(0.980)	29588	0.50000	0.4677
* 39 TOCP	17.843	17.846	(1.000)	104260	2.00000	
40 Azinphos-ethyl	17.923	17.926	(1.004)	43578	0.50000	0.5132
41 Coumaphos	18.363	18.366	(1.029)	23408	0.50000	0.4587
S 42 Merphos				38045	0.50000	0.4789
M 43 Total Demeton				43470	0.50000	0.4806

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 008F0801.D
Lab Smp Id: OPP L2 GSV0640
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L2 GSV0640
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	160310	80155	320620	165852	3.46
39 TOCP	97363	48682	194726	104260	7.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	0.01
39 TOCP	17.84	17.34	18.34	17.84	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

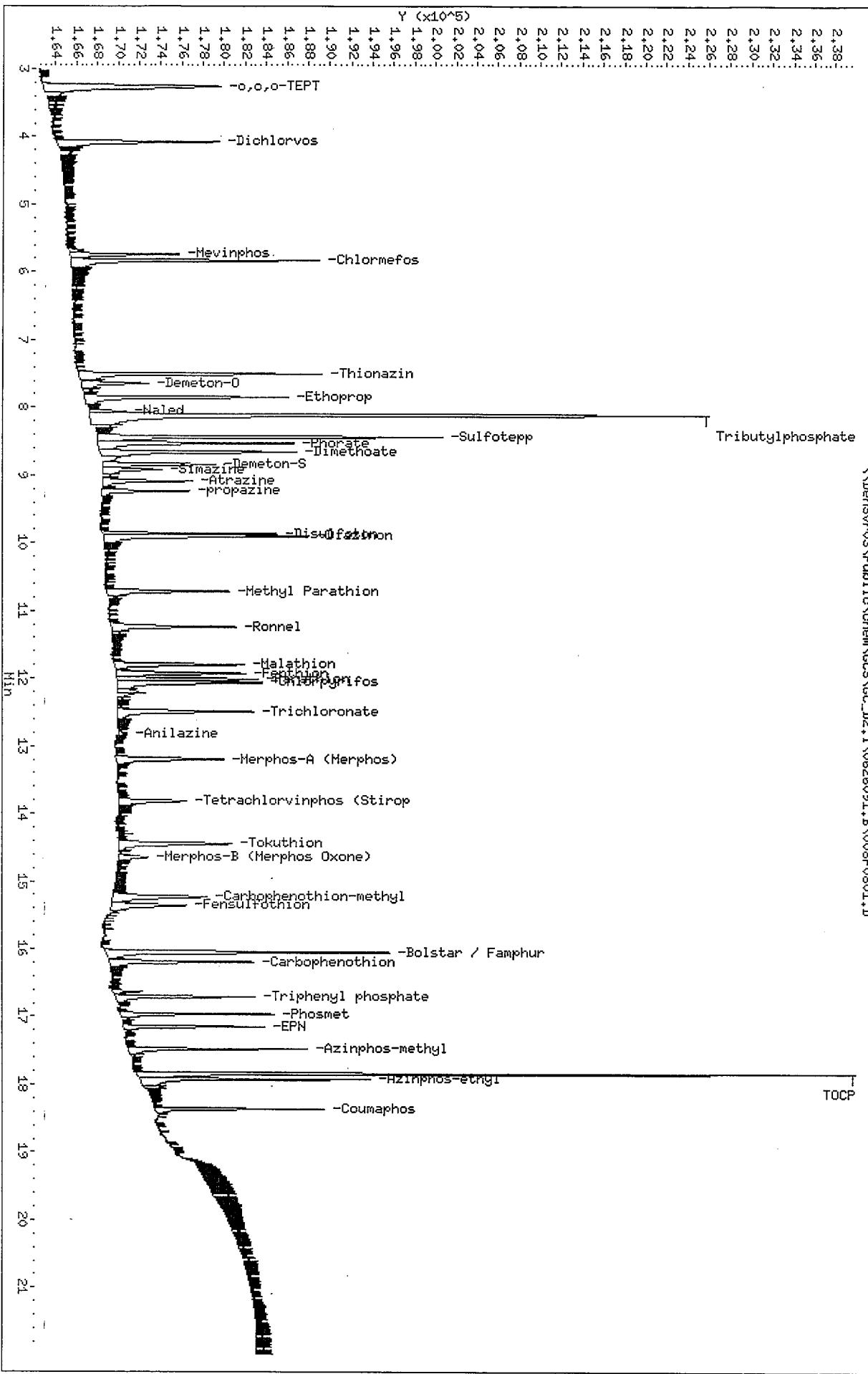
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

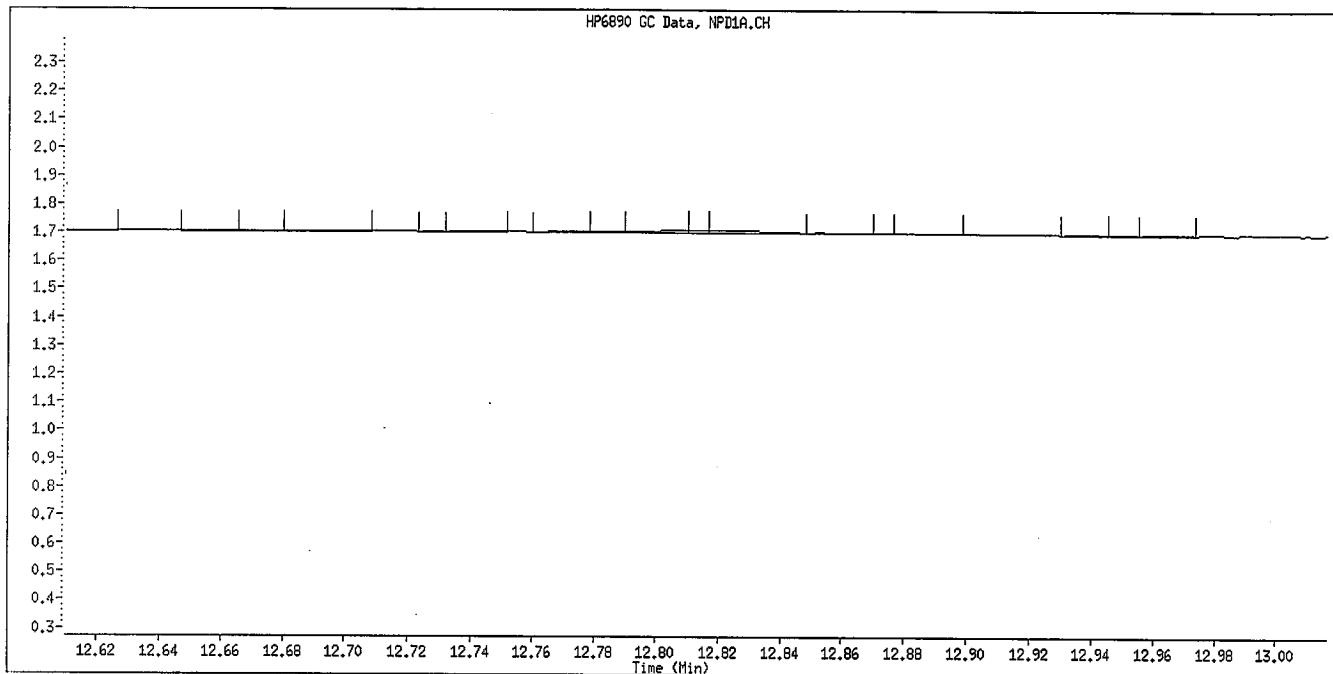
Column phase: RTx-1MS
Sample Info: OPP L2 CSV0640

Instrument: GC_D2.i
Operator: MPK/TLM
Column diameter: 0.32

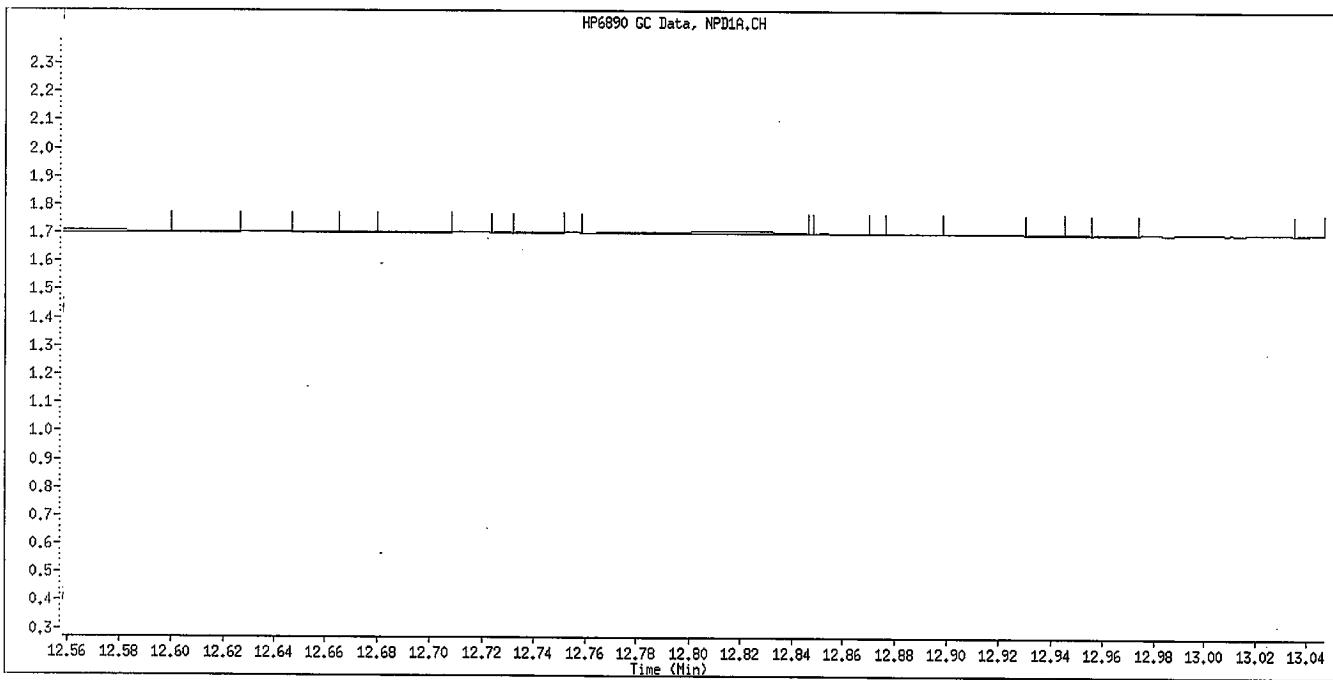
\\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\008F0801.D



Data File Name: 008F0801.D
Inj. Date and Time: 26-JUN-2009 20:45
Instrument ID: GC_D2.i
Client ID: OPP L2 GSV0640
Compound Name: Anilazine
CAS #:
Report Date: 06/30/2009



Original Integration

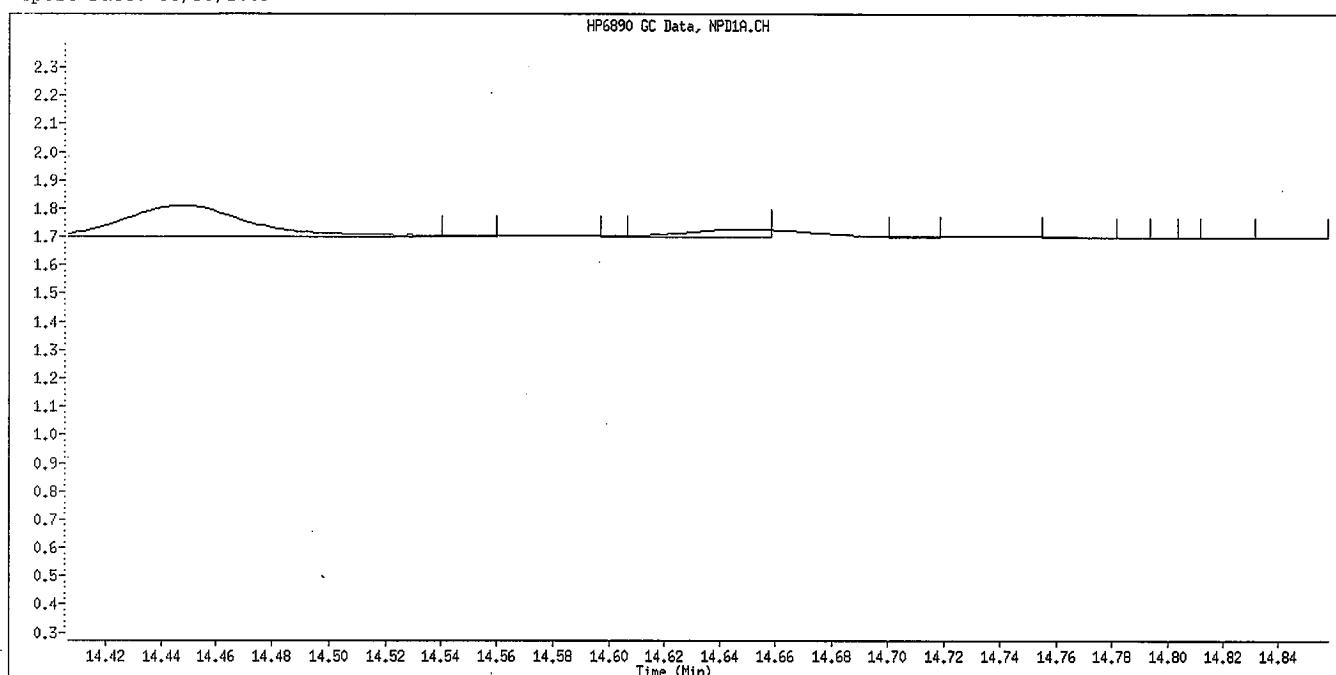


Manual Integration

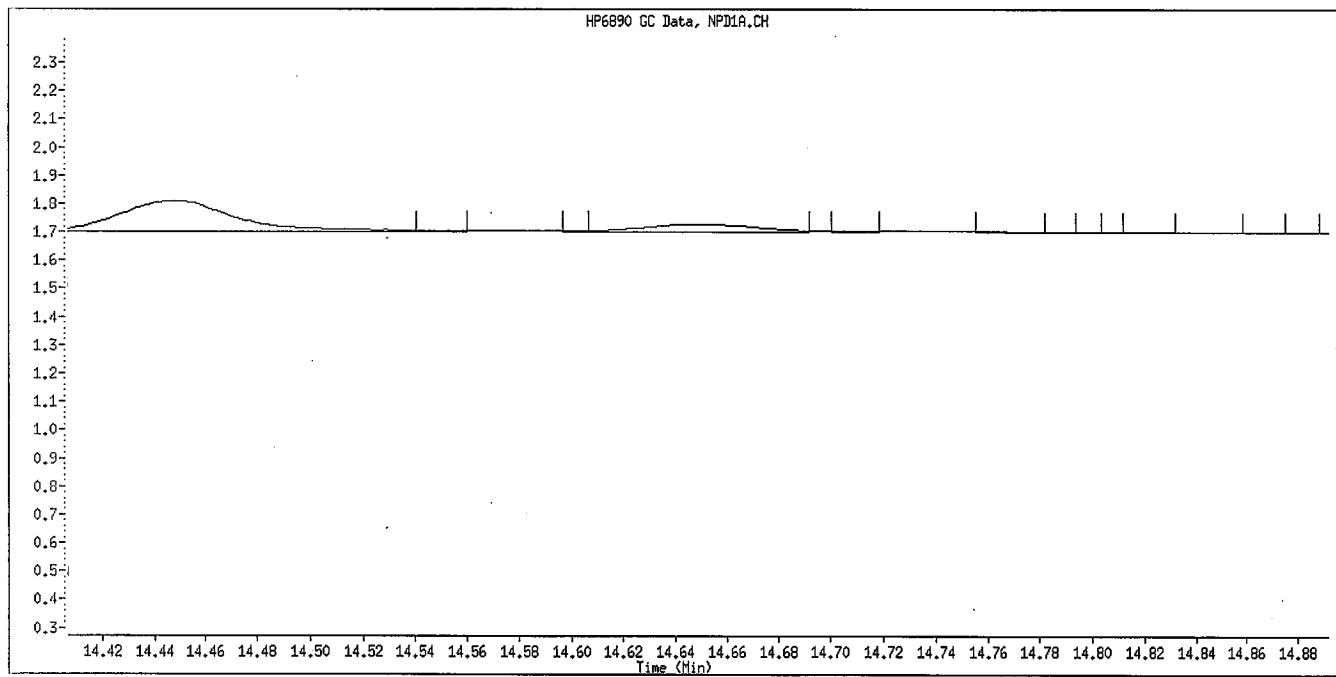
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

Joe
6/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 26-JUN-2009 20:45
Instrument ID: GC_D2.i
Client ID: OPP L2 GSV0640
Compound Name: Morphos-B (Morphos Oxone)
CAS #:
Report Date: 06/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\009F0901.D
Lab Smp Id: OPP L1 GSV0641 Client Smp ID: OPP L1 GSV0641
Inj Date : 26-JUN-2009 21:13
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L1 GSV0641
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 20:45 Cal File: 008F0801.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1, o,o,o-TEPT	3.258	3.254 (0.183)		32995	0.20000	0.2212
2 Dichlorvos	4.081	4.074 (0.229)		21359	0.20000	0.2306
3 Mevinphos	5.743	5.739 (0.322)		10777	0.20000	0.2118
\$ 4 Chlormefos	5.834	5.836 (0.327)		24167	0.20000	0.2083
5 Thionazin	7.506	7.507 (0.421)		22524	0.20000	0.2127
6 Demeton-O	7.646	7.649 (0.429)		9836	0.06500	0.07420
7 Ethoprop	7.854	7.852 (0.440)		20488	0.20000	0.2208
8 Naled	8.063	8.057 (0.452)		1992	0.20000	0.2720 (M)
* 9 Tributylphosphate	8.114	8.135 (1.000)		165799	2.00000	
10 Sulfotep	8.439	8.442 (0.473)		34658	0.20000	0.1992
11 Phorate	8.531	8.532 (0.478)		21475	0.20000	0.2235
12 Dimethoate	8.664	8.659 (0.486)		20073	0.20000	0.1798
13 Demeton-S	8.846	8.846 (0.496)		10751	0.13600	0.1328
14 Simazine	8.926	8.924 (0.500)		4819	0.20000	0.2042 (M)
15 Atrazine	9.093	9.094 (0.510)		7432	0.20000	0.1717
16 propazine	9.238	9.241 (0.518)		7824	0.20000	0.1959
17 Disulfoton	9.868	9.869 (0.553)		15404	0.20000	0.2020
18 Diazinon	9.904	9.902 (0.555)		23321	0.20000	0.2259
19 Methyl Parathion	10.716	10.717 (0.601)		12987	0.20000	0.1984
20 Ronnel	11.239	11.241 (0.630)		15128	0.20000	0.2236
21 Malathion	11.801	11.804 (0.661)		15443	0.20000	0.2136
22 Fenthion	11.931	11.932 (0.669)		15507	0.20000	0.2330
23 Parathion	12.019	12.019 (0.674)		15083	0.20000	0.2130
24 Chlorpyrifos	12.069	12.067 (0.676)		19655	0.20000	0.2294
25 Trichlororonate	12.494	12.496 (0.700)		15328	0.20000	0.2002
26 Anilazine	12.824	12.817 (0.719)		1493	0.20000	0.2971 (M)
27 Merphos-A (Merphos)	13.199	13.199 (0.740)		13220	0.20000	0.2069
28 Tetrachlorvinphos (Stirophos)	13.823	13.824 (0.775)		8134	0.20000	0.1916
29 Tokuthion	14.448	14.449 (0.810)		15915	0.20000	0.2168
30 Merphos-B (Merphos Oxone)	14.656	14.651 (0.821)		3884	0.20000	0.2457 (M)
31 Carbophenothion-methyl	15.238	15.239 (0.854)		14924	0.20000	0.2045
32 Fensulfothion	15.364	15.361 (0.861)		8319	0.20000	0.2269
33 Bolstar / Famphur	16.049	16.053 (0.899)		32824	0.40000	0.4674

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.193	16.197 (0.908)		16722	0.20000	0.2374
\$ 35, Triphenyl phosphate	16.709	16.712 (0.936)		11646	0.20000	0.2175
36 Phosmet	16.963	16.963 (0.951)		12928	0.20000	0.2144
37 EPN	17.148	17.151 (0.961)		9525	0.20000	0.2105
38 Azinphos-methyl	17.478	17.480 (0.980)		12661	0.20000	0.1970
* 39 TOCP	17.843	17.846 (1.000)		105892	2.00000	
40 Azinphos-ethyl	17.923	17.926 (1.004)		23154	0.20000	0.1978
41 Coumaphos	18.364	18.366 (1.029)		10604	0.20000	0.2046
S 42 Merphos				17104	0.20000	0.2120
M 43 Total Demeton				20587	0.20000	0.2070

QC Flag Legend

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 009F0901.D
Lab Smp Id: OPP L1 GSV0641
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L1 GSV0641
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	160310	80155	320620	165799	3.42
39 TOCP	97363	48682	194726	105892	8.76

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	0.03
39 TOCP	17.84	17.34	18.34	17.84	-0.01

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

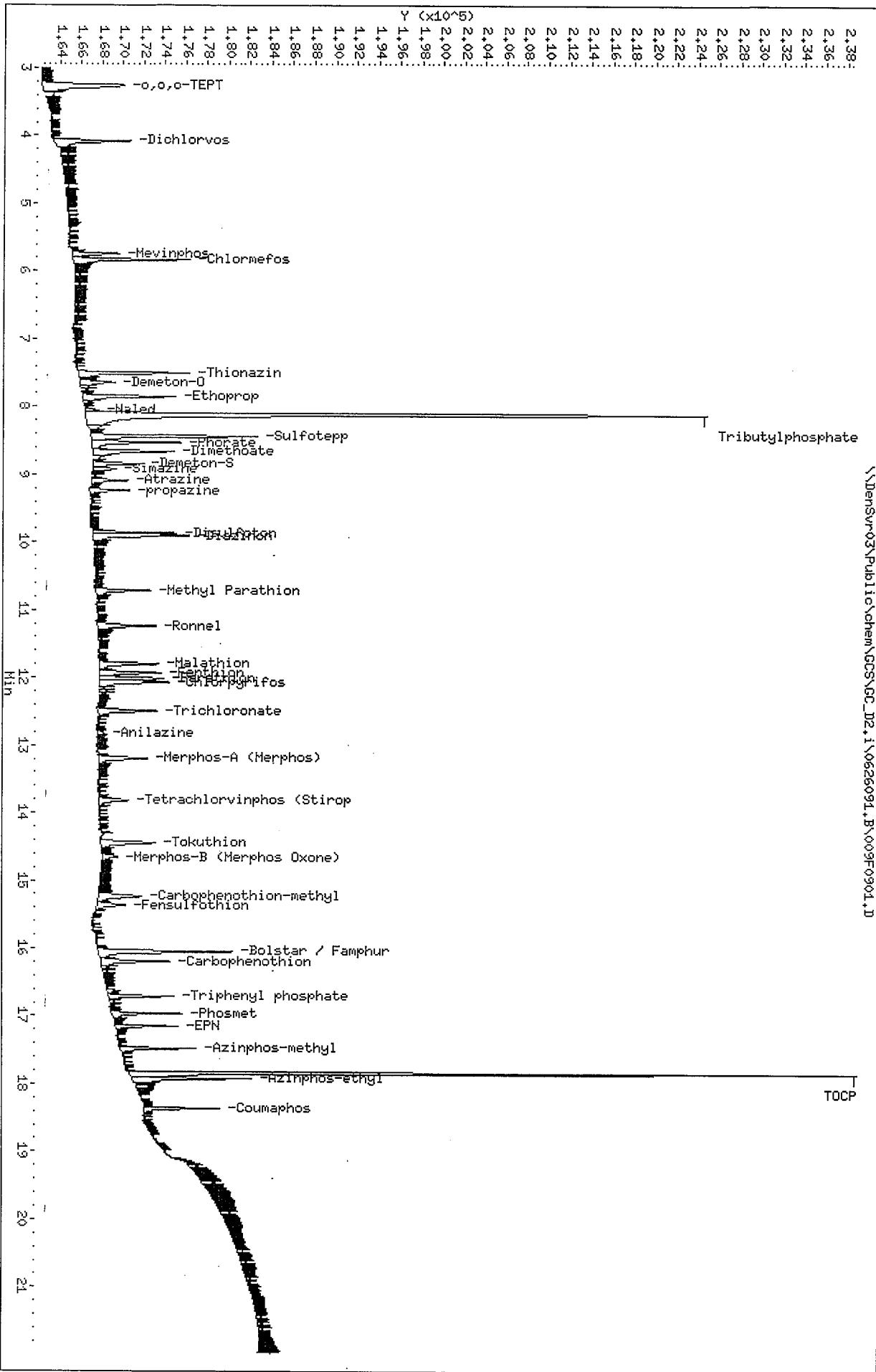
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

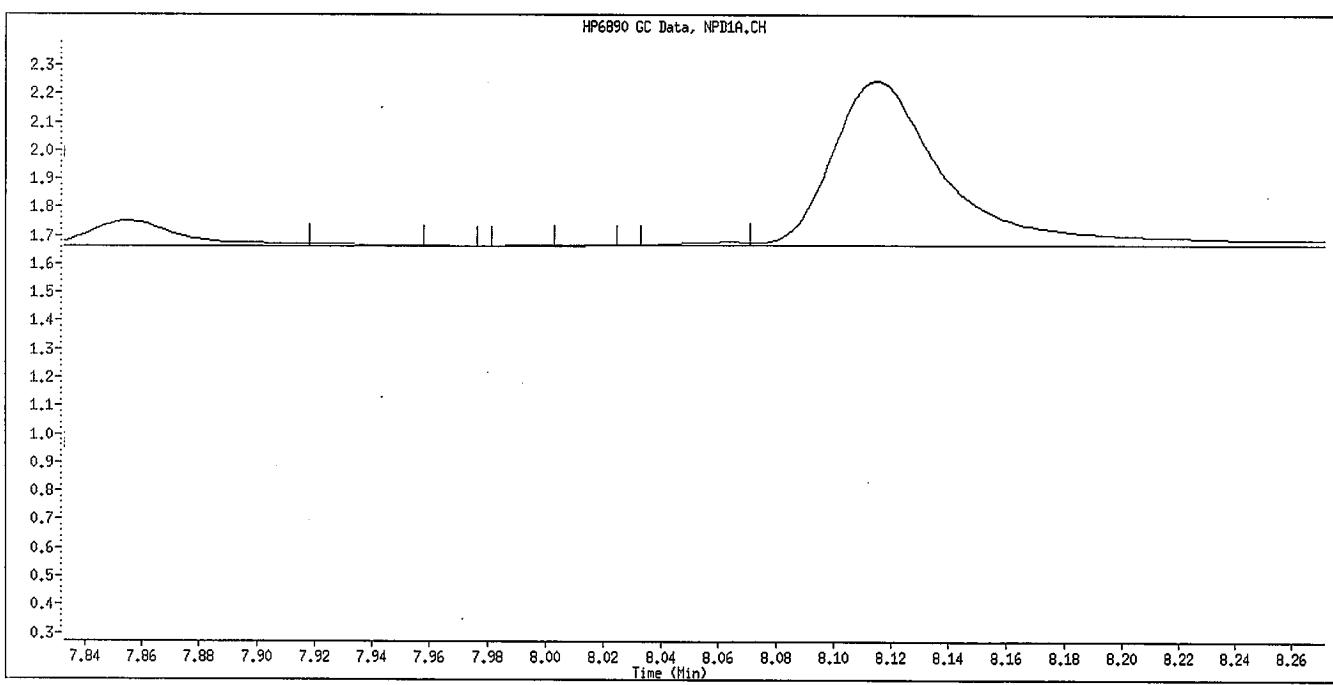
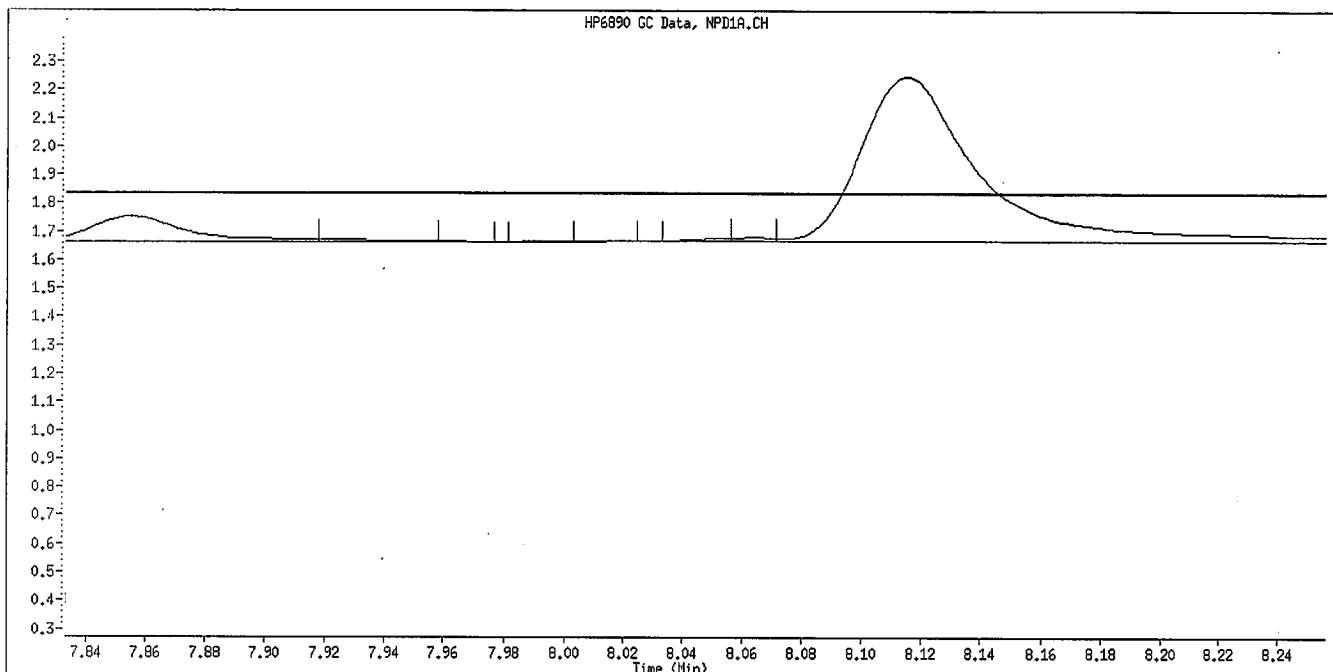
Sample Info: OPP L1 GSV0641

Column phase: RTx-1MS

Instrument: GC_D2.i
 Operator: HPK/TLW
 Column diameter: 0.32
 \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\009F0901.D



Data File Name: 009F0901.D
Inj. Date and Time: 26-JUN-2009 21:13
Instrument ID: GC_D2.i
Client ID: OPP L1 GSV0641
Compound Name: Naled
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 009F0901.D

Inj. Date and Time: 26-JUN-2009 21:13

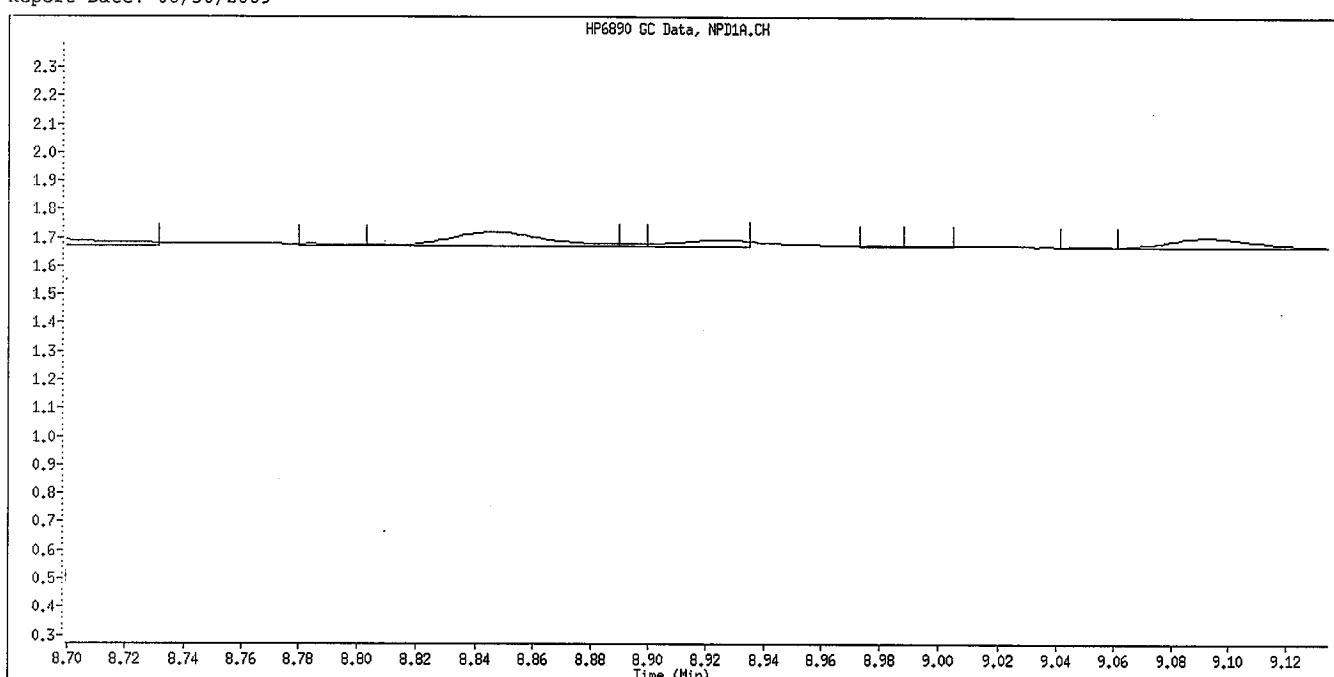
Instrument ID: GC_D2.i

Client ID: OPP L1 GSV0641

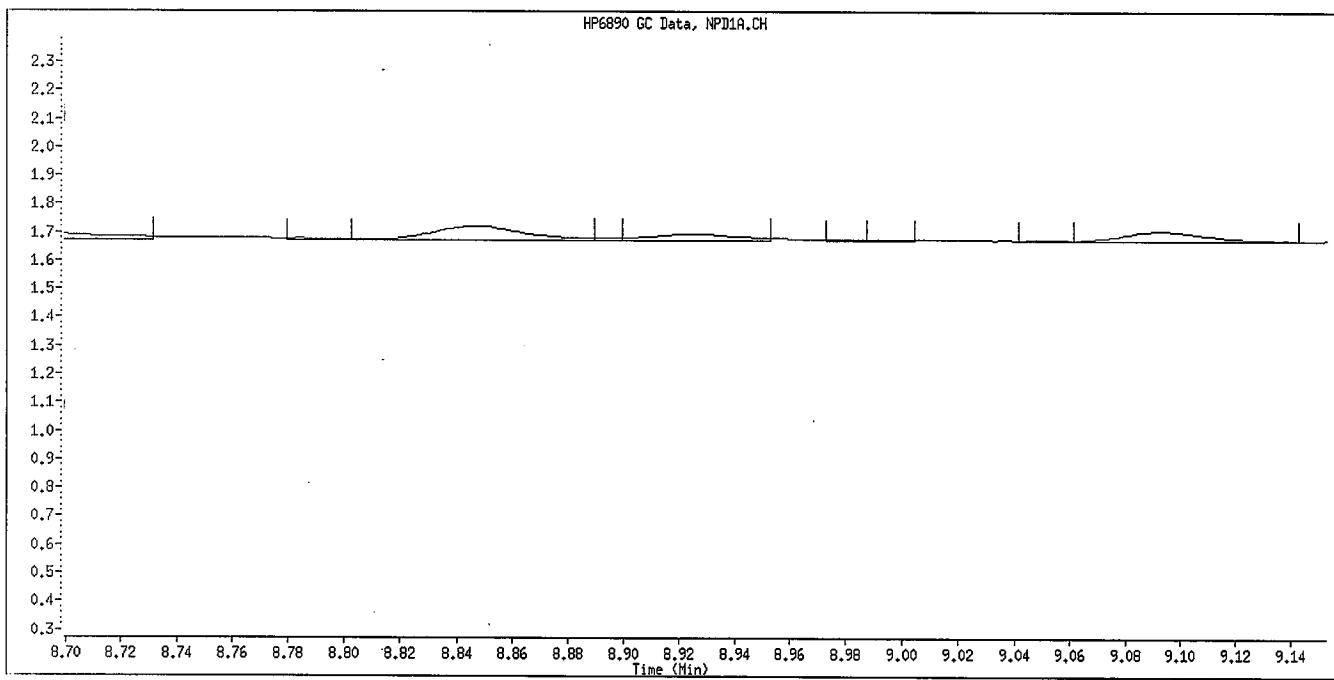
Compound Name: Simazine

CAS #:

Report Date: 06/30/2009



Original Integration



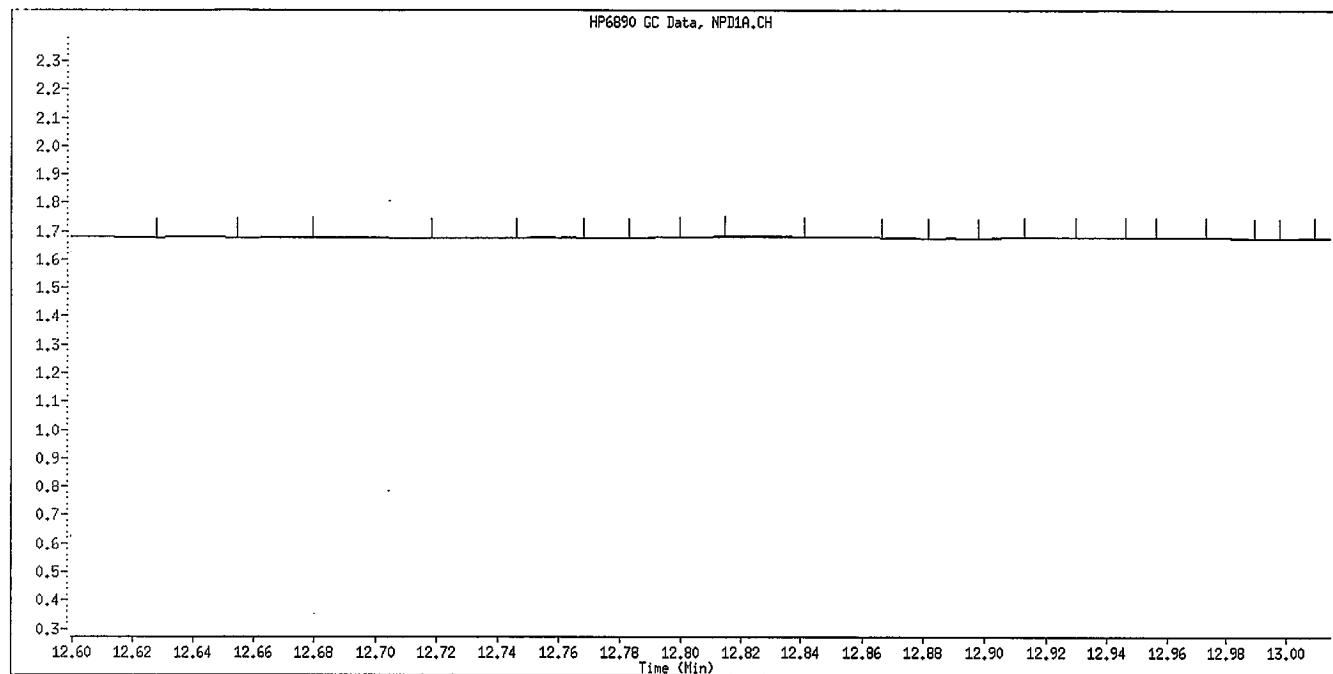
Manual Integration

Manually Integrated By: williamst

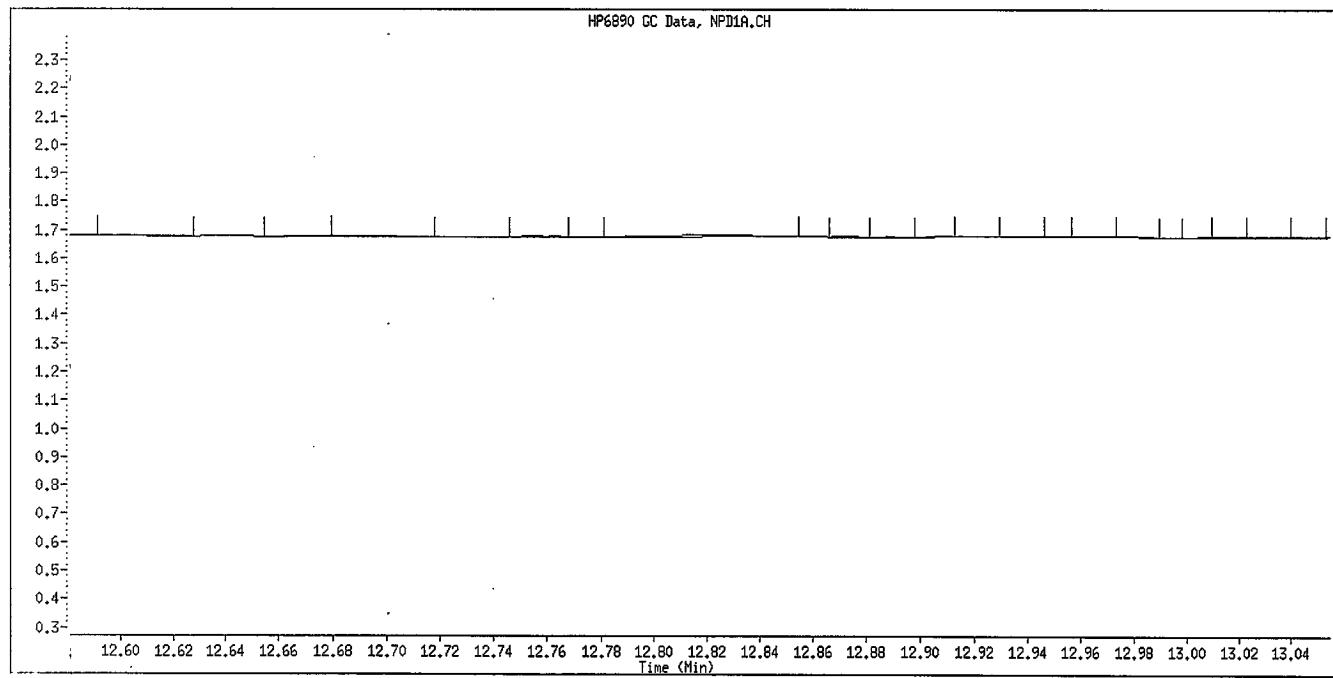
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 26-JUN-2009 21:13
Instrument ID: GC_D2.i
Client ID: OPP L1 GSV0641
Compound Name: Anilazine
CAS #:
Report Date: 06/30/2009



Original Integration

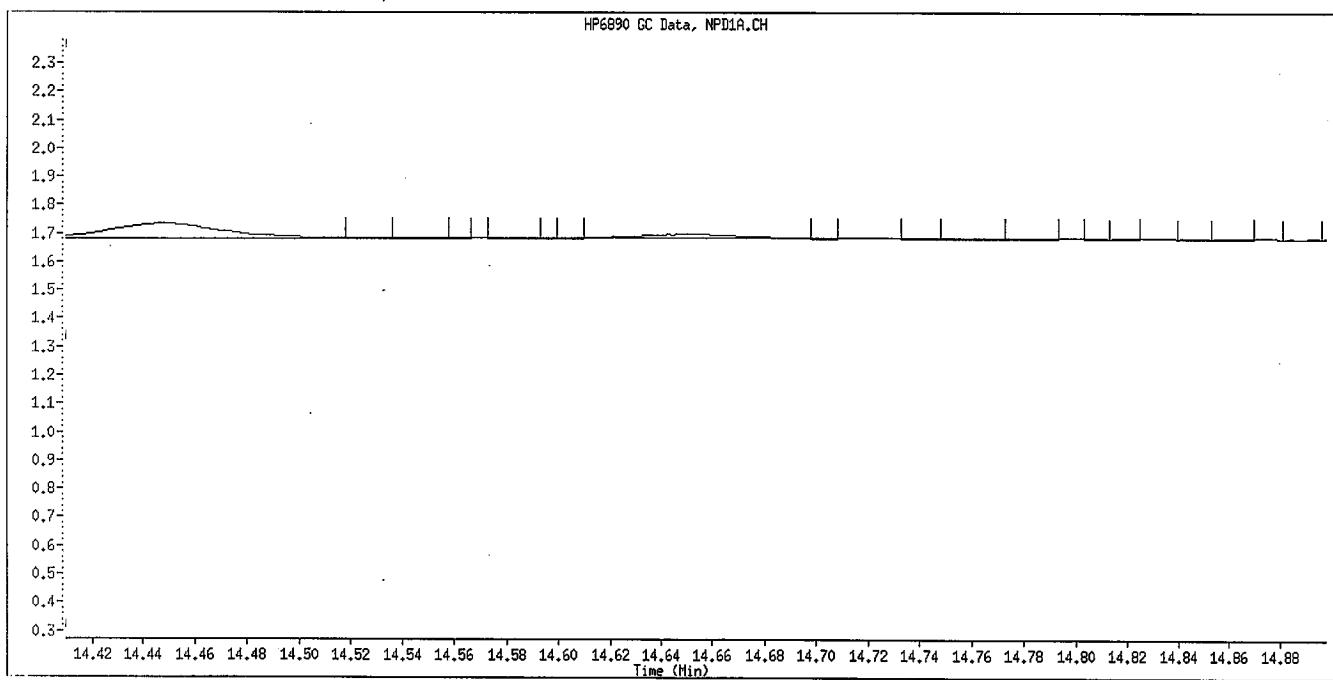
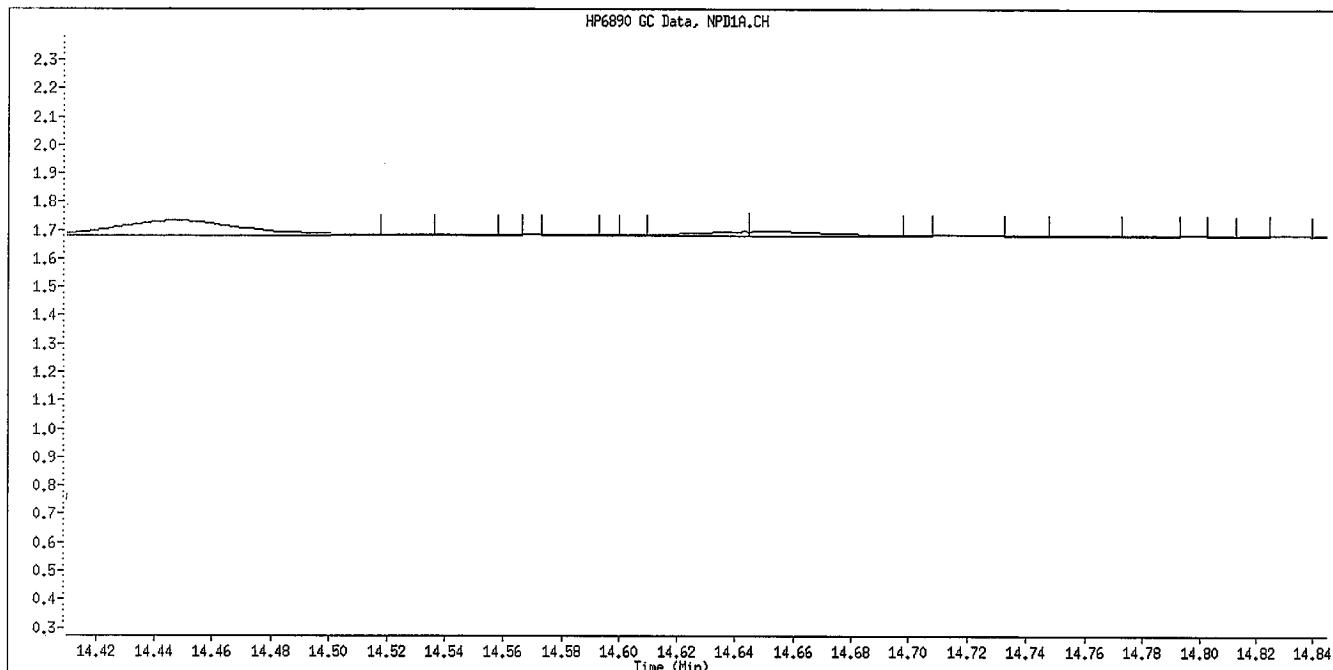


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 26-JUN-2009 21:13
Instrument ID: GC_D2.i
Client ID: OPP L1 GSV0641
Compound Name: Merphos-B (Merphos Oxone)
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\010F1001.D
Lab Smp Id: OPP SS GSV0633 Client Smp ID: OPP SS GSV0633
Inj Date : 26-JUN-2009 21:40
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP SS GSV0633
Misc Info : IS - GSV0633-09
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Meth Date : 30-Jun-2009 12:45 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	3.252	3.254 (0.182)		288886	2.00000	2.058
2 Dichlorvos	4.074	4.074 (0.228)		166172	2.00000	1.906
3 Mevinphos	5.737	5.739 (0.322)		81302	2.00000	1.698
\$ 4 Chlormefos	5.834	5.836 (0.327)		194413	2.00000	1.781
5 Thionazin	7.504	7.507 (0.421)		196672	2.00000	1.974
6 Demeton-O	7.645	7.649 (0.429)		175593	0.65000	1.871
7 Ethoprop	7.849	7.852 (0.440)		179292	2.00000	2.054
8 Naled	8.054	8.057 (0.451)		23739	2.00000	1.198
* 9 Tributylphosphate	8.112	8.135 (1.000)		166572	2.00000	
10 Sulfotepp	8.437	8.442 (0.473)		226133	2.00000	1.793
11 Phorate	8.529	8.532 (0.478)		182466	2.00000	2.018
12 Dimethoate	8.654	8.659 (0.485)		219089	2.00000	2.086
13 Demeton-S	8.842	8.846 (0.496)		17618	1.36000	0.2313
14 Simazine	8.919	8.924 (0.500)		92634	2.00000	2.622
15 Atrazine	9.089	9.094 (0.509)		79689	2.00000	1.957
16 propazine	9.235	9.241 (0.518)		71876	2.00000	1.913
17 Disulfoton	9.865	9.869 (0.553)		98052	2.00000	1.589
18 Diazinon	9.900	9.902 (0.555)		209627	2.00000	2.158
19 Methyl Parathion	10.714	10.717 (0.600)		125682	2.00000	2.040
20 Ronnel	11.237	11.241 (0.630)		136977	2.00000	2.151
21 Malathion	11.799	11.804 (0.661)		94998	2.00000	1.625
22 Fenthion	11.929	11.932 (0.669)		117968	2.00000	1.884
23 Parathion	12.017	12.019 (0.674)		129518	2.00000	1.944
24 Chlorpyrifos	12.067	12.067 (0.676)		158990	2.00000	1.972
25 Trichloronate	12.492	12.496 (0.700)		134163	2.00000	1.862
26 Anilazine	12.817	12.817 (0.718)		5585	2.00000	1.015
27 Merphos-A (Merphos)	13.195	13.199 (0.740)		24516	2.00000	0.4078
28 Tetrachlorvinphos (Stirophos)	13.817	13.824 (0.774)		83430	2.00000	2.088
29 Tokuthion	14.444	14.449 (0.810)		139904	2.00000	2.025
30 Merphos-B (Merphos Oxone)	14.647	14.651 (0.821)		107349	2.00000	6.623 (A)
31 Carbophenothion-methyl	15.234	15.239 (0.854)		73477	2.00000	1.354
32 Fensulfothion	15.355	15.361 (0.861)		108213	2.00000	1.924
33 Bolstar / Famphur	16.047	16.053 (0.899)		268528	4.00000	4.064

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 Carbophenothion	16.194	16.197 (0.908)		123570	2.00000	1.864
\$ 35 Triphenyl phosphate	16.709	16.712 (0.936)		86501	2.00000	1.717
36 Phosmet	16.960	16.963 (0.951)		93465	2.00000	1.647
37 EPN	17.147	17.151 (0.961)		96842	2.00000	1.793
38 Azinphos-methyl	17.477	17.480 (0.980)		116249	2.00000	1.922
* 39 TOCP	17.842	17.846 (1.000)		99647	2.00000	
40 Azinphos-ethyl	17.922	17.926 (1.004)		124764	2.00000	1.833
41 Coumaphos	18.362	18.366 (1.029)		97846	2.00000	2.006
S 42 Merphos				131865	2.00000	1.737
M 43 Total Demeton				193211	2.00000	2.102

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Lab Smp Id: OPP SS GSV0633
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626091.B\8141A-1.m
Misc Info: IS - GSV0633-09

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP SS GSV0633
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	160310	80155	320620	166572	3.91
39 TOCP	97363	48682	194726	99647	2.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
9 Tributylphosphate	8.11	7.61	8.61	8.11	0.00
39 TOCP	17.84	17.34	18.34	17.84	-0.01

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

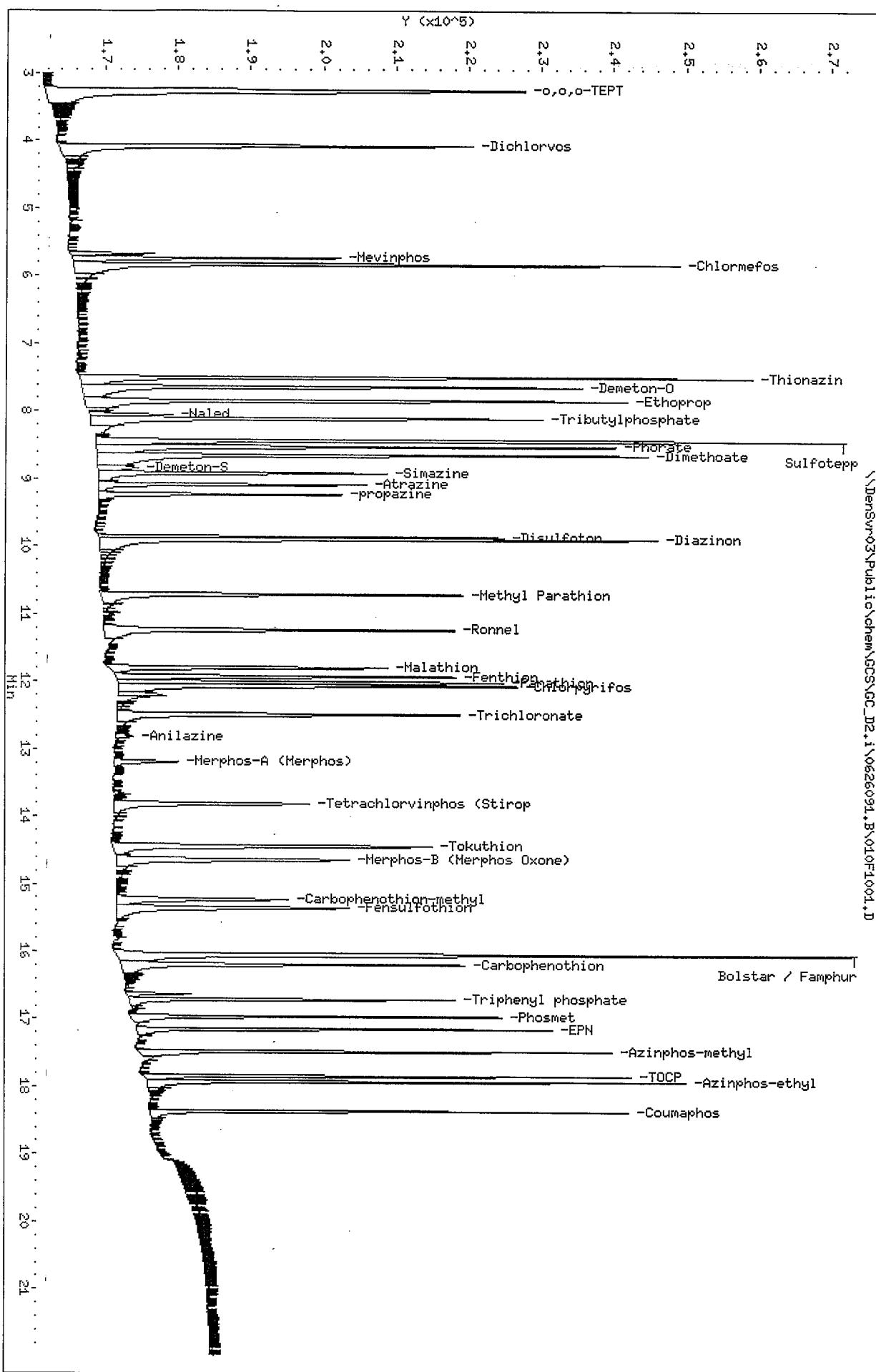
Client ID: OPP SS GSV0633
Sample Info: OPP SS GSV0633

Column Phase: RTX-1MS

Instrument: GC_D2.i

Operator: MPK/TLM

Column diameter: 0.32



TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\003F0301.D
Lab Smp Id: OPP L7 GSV0634 Client Smp ID: OPP L7 GSV0634
Inj Date : 26-JUN-2009 18:28
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L7 GSV0634
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 12:58 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.729	4.731 (0.251)		421372	5.00000	4.907
2 Dichlorvos	6.546	6.546 (0.348)		359024	5.00000	5.355 (A)
\$ 3 Chlormefos	7.383	7.384 (0.392)		338585	5.00000	5.016 (A)
4 Mevinphos	9.233	9.234 (0.491)		238906	5.00000	5.290 (A)
5 Demeton-O	9.733	9.734 (0.517)		69239	1.62500	1.609
6 Thionazin	9.984	9.984 (0.531)		338015	5.00000	5.005 (A)
7 Ethoprop	10.499	10.499 (0.558)		242747	5.00000	4.810
8 Phorate	10.538	10.539 (0.560)		289868	5.00000	4.953
9 Naled	10.939	10.939 (0.581)		78857	5.00000	5.109 (A)
10 Sulfotep	11.018	11.017 (0.586)		427657	5.00000	4.845 (A)
* 11 Tributylphosphate	11.116	11.116 (1.000)		139264	2.00000	
12 Simazine	11.401	11.399 (0.606)		68046	5.00000	5.383 (A)
13 Diazinon	11.541	11.541 (0.613)		228810	5.00000	4.801
14 Atrazine	11.584	11.584 (0.616)		128612	5.00000	4.879 (A)
15 Propazine	11.746	11.747 (0.624)		110050	5.00000	4.930
16 Disulfoton	12.049	12.049 (0.640)		228764	5.00000	4.914
17 Demeton-S	12.124	12.124 (0.644)		175573	3.40000	3.111
18 Dimethoate	13.283	13.282 (0.706)		319454	5.00000	5.120 (A)
19 Ronnel	13.588	13.587 (0.722)		211449	5.00000	5.035 (A)
20 Merphos-A (Merphos)	13.689	13.689 (1.231)		217509	5.00000	4.310 (A)
21 Chlorpyrifos	14.411	14.409 (0.766)		227882	5.00000	5.350 (A)
22 Fenthion	14.663	14.662 (0.779)		196942	5.00000	4.985
23 Trichloronate	14.711	14.711 (0.782)		296442	5.00000	5.242 (A)
24 Anilazine	15.214	15.216 (0.809)		19108	5.00000	5.242 (A)
25 Methyl Parathion	15.521	15.519 (0.825)		235511	5.00000	5.522 (A)
26 Malathion	15.724	15.724 (0.836)		212190	5.00000	5.311 (A)
27 Tokuthion	16.344	16.344 (0.869)		233715	5.00000	4.996
28 Parathion	16.493	16.494 (0.877)		213175	5.00000	5.073 (AM)
29 Merphos-B (Merphos Oxone)	16.514	16.517 (1.486)		65080	5.00000	4.212 (AM)
30 Tetrachlorvinphos (stirophos)	16.976	16.977 (0.902)		143806	5.00000	5.290 (A)
31 Carbophenothion methyl	17.081	17.082 (0.908)		210272	5.00000	5.396 (A)
32 Bolstar	17.441	17.440 (0.927)		199405	5.00000	4.858
33 Carbophenothion	17.523	17.524 (0.931)		212727	5.00000	5.271 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.279	18.281 (0.972)		167127	5.00000	5.046 (A)
35 Fensulfothion	18.558	18.559 (0.986)		152929	5.00000	5.029 (A)
* 36 TOCP	18.814	18.816 (1.000)		66384	2.00000	
37 Phosmet / EPN	18.908	18.909 (1.005)		330448	10.0000	9.819 (A)
38 Famphur	19.011	19.011 (1.010)		220404	5.00000	5.062 (A)
39 Azinphos-methyl	19.146	19.147 (1.018)		197822	5.00000	4.967
40 Azinphos-ethyl	19.364	19.366 (1.029)		187035	5.00000	4.930
41 Coumaphos	20.348	20.347 (1.081)		155426	5.00000	5.329 (A)
S 42 Merphos				282589	5.00000	5.108 (A)
M 43 Total Demeton				244812	5.00000	4.720

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 003F0301.D
Lab Smp Id: OPP L7 GSV0634
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 26-JUN-2009
Calibration Time: 21:40
Client Smp ID: OPP L7 GSV0634
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	123933	61967	247866	139264	12.37
36 TOCP	68831	34416	137662	66384	-3.56

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	0.01
36 TOCP	18.82	18.32	19.32	18.81	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

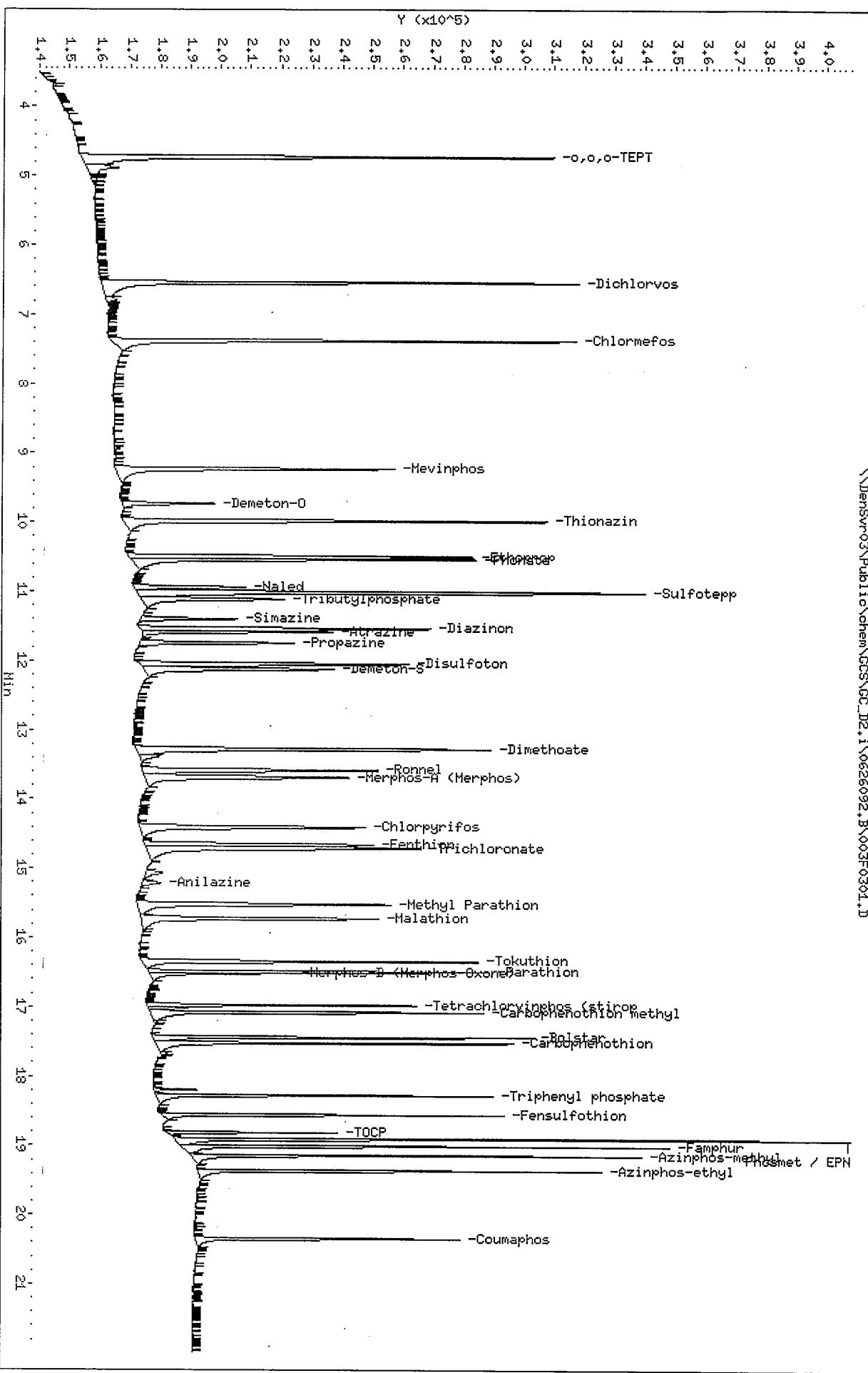
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Client ID#: OPP L7 GSV0634
Sample Info#: OPP L7 GSV0634

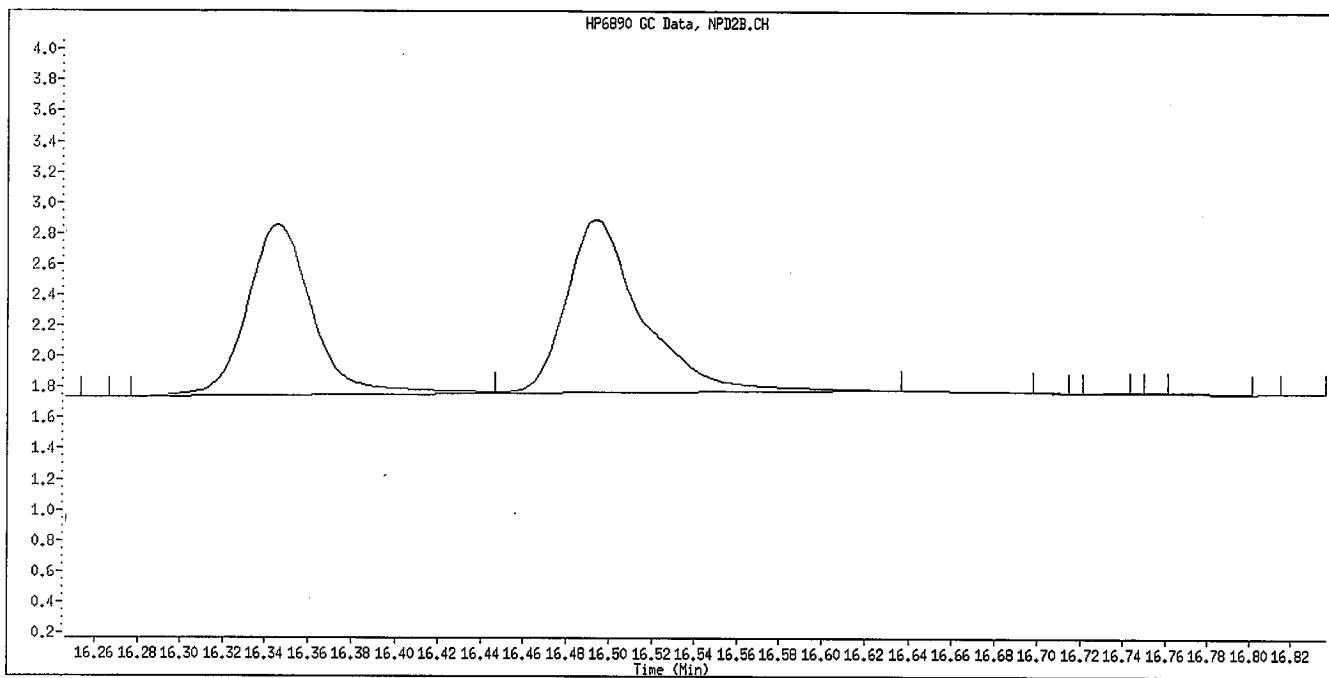
Column Phase#: RTx-OPPest

Instrument#: GC_D2.i
Operator#: MPK/TLM
Column diameter#: 0.32

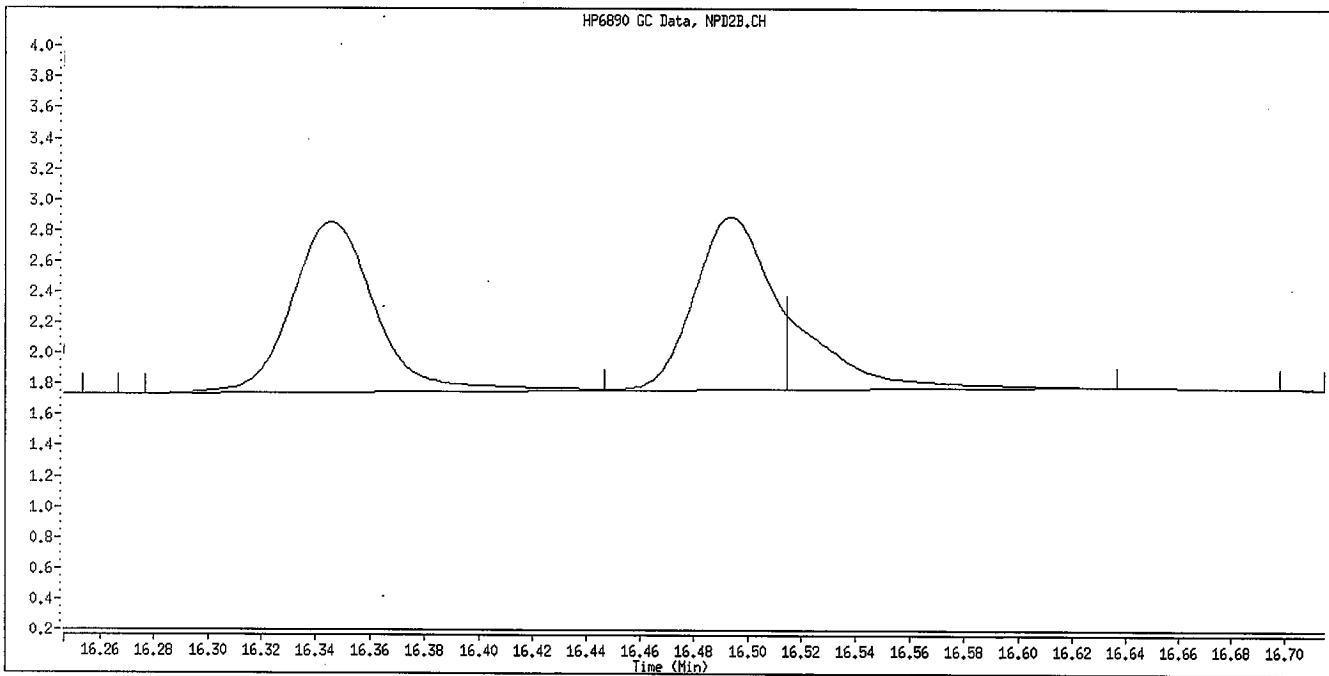
\\DensSvr03\Public\chem\GCS\GC_D2.i\\0626092.B\\003F0301.D



Data File Name: 003F0301.D
Inj. Date and Time: 26-JUN-2009 18:28
Instrument ID: GC_D2.i
Client ID: OPP L7 GSV0634
Compound Name: Parathion
CAS #:
Report Date: 06/30/2009



Original Integration

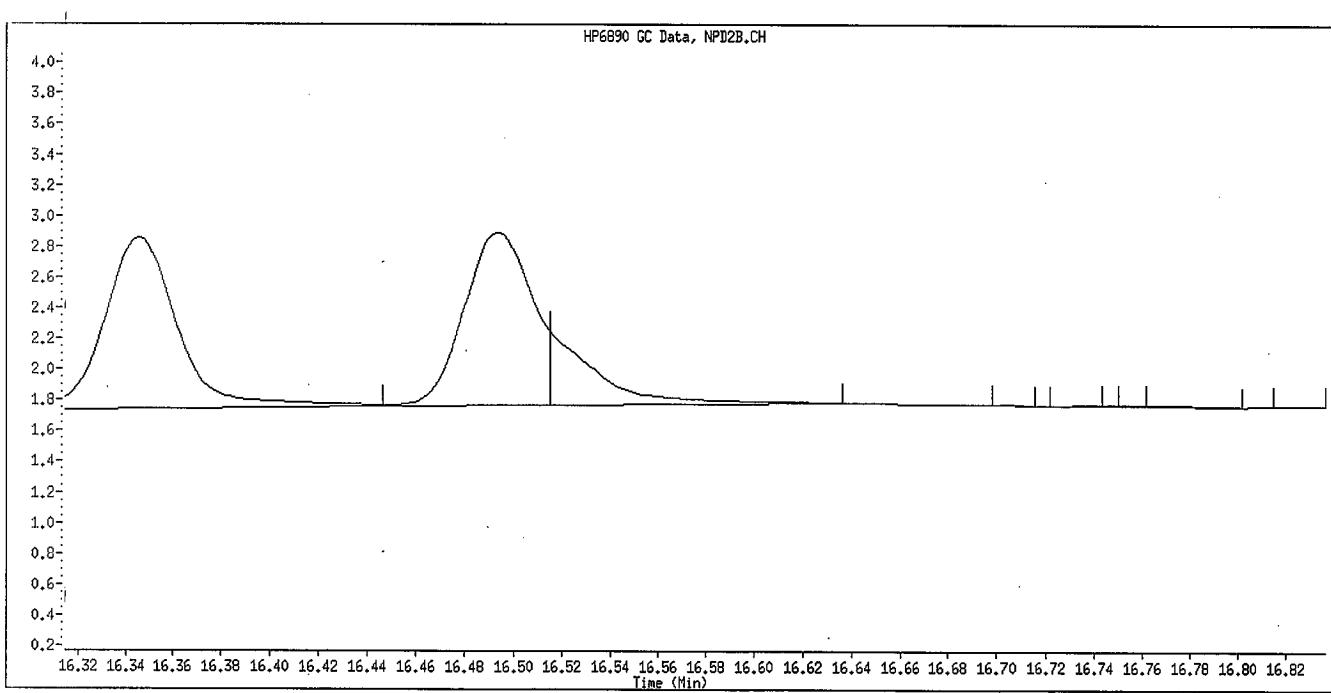
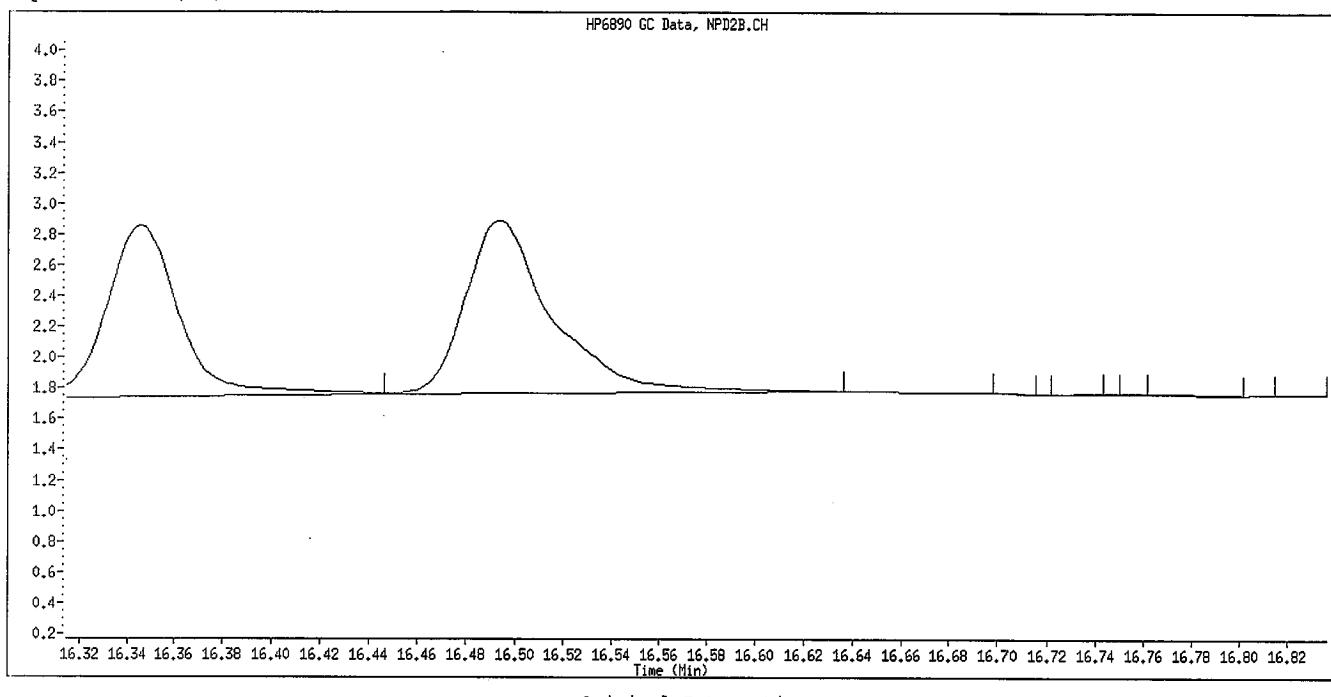


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

27
6/30/09

Data File Name: 003F0301.D
Inj. Date and Time: 26-JUN-2009 18:28
Instrument ID: GC_D2.i
Client ID: OPP L7 GSV0634
Compound Name: Merphos-B (Merphos Oxone)
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\004F0401.D
Lab Smp Id: OPP L6 GSV0637 Client Smp ID: OPP L6 GSV0637
Inj Date : 26-JUN-2009 18:55
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L6 GSV0637
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 12:58 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 18:28 Cal File: 003F0301.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.729	4.731 (0.251)		328646	4.00000	4.043
2 Dichlorvos	6.546	6.546 (0.348)		257298	4.00000	4.054
\$ 3 Chlormefos	7.384	7.384 (0.392)		258146	4.00000	4.040
4 Mevinphos	9.234	9.234 (0.491)		177060	4.00000	4.141
5 Demeton-O	9.734	9.734 (0.517)		56273	1.30000	1.381
6 Thionazin	9.984	9.984 (0.531)		276609	4.00000	4.326
7 Ethoprop	10.499	10.499 (0.558)		193617	4.00000	4.053
8 Phorate	10.537	10.539 (0.560)		250422	4.00000	4.520
9 Naled	10.941	10.939 (0.582)		58330	4.00000	4.051
10 Sulfotep	11.017	11.017 (0.586)		337512	4.00000	4.039 (A)
* 11 Tributylphosphate	11.116	11.116 (1.000)		118534	2.00000	
12 Simazine	11.401	11.399 (0.606)		52173	4.00000	4.360 (A)
13 Diazinon	11.541	11.541 (0.613)		181790	4.00000	4.034
14 Atrazine	11.582	11.584 (0.616)		98759	4.00000	4.001 (A)
15 Propazine	11.746	11.747 (0.624)		85745	4.00000	4.068
16 Disulfoton	12.049	12.049 (0.640)		184026	4.00000	4.176
17 Demeton-S	12.124	12.124 (0.644)		157195	2.72000	2.948
18 Dimethoate	13.282	13.282 (0.706)		236550	4.00000	4.005
19 Ronnel	13.589	13.587 (0.722)		165534	4.00000	4.164
20 Morphos-A (Morphos)	13.689	13.689 (1.231)		178652	4.00000	4.159 (A)
21 Chlorpyrifos	14.409	14.409 (0.766)		174421	4.00000	4.326
22 Fenthion	14.662	14.662 (0.779)		149338	4.00000	3.993
23 Trichloronate	14.709	14.711 (0.782)		208762	4.00000	3.926
24 Anilazine	15.216	15.216 (0.809)		13112	4.00000	3.800 (M)
25 Methyl Parathion	15.519	15.519 (0.825)		167086	4.00000	4.138 (A)
26 Malathion	15.724	15.724 (0.836)		151738	4.00000	4.012
27 Tokuthion	16.346	16.344 (0.869)		187169	4.00000	4.226
28 Parathion	16.492	16.494 (0.877)		170901	4.00000	4.296 (M)
29 Morphos-B (Morphos Oxone)	16.514	16.517 (1.486)		62127	4.00000	4.736 (AM)
30 Tetrachlorvinphos (stirophos)	16.976	16.977 (0.902)		109740	4.00000	4.264
31 Carbophenothion methyl	17.081	17.082 (0.908)		159411	4.00000	4.322
32 Bolstar	17.441	17.440 (0.927)		154382	4.00000	3.973
33 Carbophenothion	17.522	17.524 (0.931)		154486	4.00000	4.043 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.279	18.281 (0.972)		125543	4.00000	4.004
35 Fensulfothion	18.557	18.559 (0.986)		126221	4.00000	4.385
* 36 TOCP	18.814	18.816 (1.000)		62844	2.00000	
37 Phosmet / EPN	18.907	18.909 (1.005)		263604	8.00000	8.261 (A)
38 Famphur	19.009	19.011 (1.010)		175421	4.00000	4.256
39 Azinphos-methyl	19.144	19.147 (1.018)		160515	4.00000	4.257
40 Azinphos-ethyl	19.362	19.366 (1.029)		144031	4.00000	4.011
41 Coumaphos	20.346	20.347 (1.081)		118936	4.00000	4.308
S 42 Merphos				240779	4.00000	4.597 (A)
M 43 Total Demeton				213468	4.00000	4.330

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 004F0401.D
Lab Smp Id: OPP L6 GSV0637
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 26-JUN-2009
Calibration Time: 21:40
Client Smp ID: OPP L6 GSV0637
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	123933	61967	247866	118534	-4.36
36 TOCP	68831	34416	137662	62844	-8.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	0.01
36 TOCP	18.82	18.32	19.32	18.81	-0.01

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

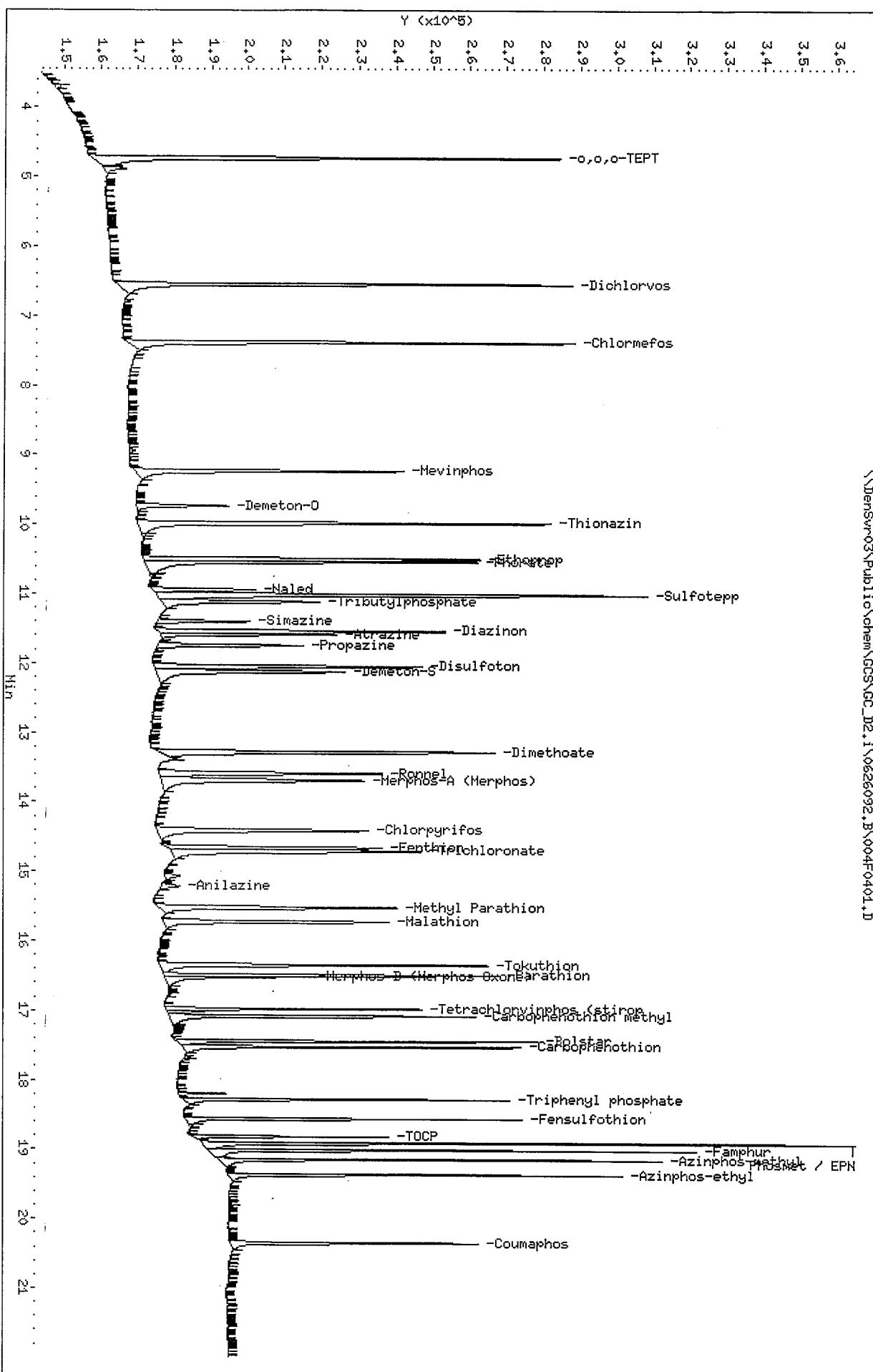
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Client ID#: OPP L6 GSV0637
Sample Info#: OPP L6 GSV0637

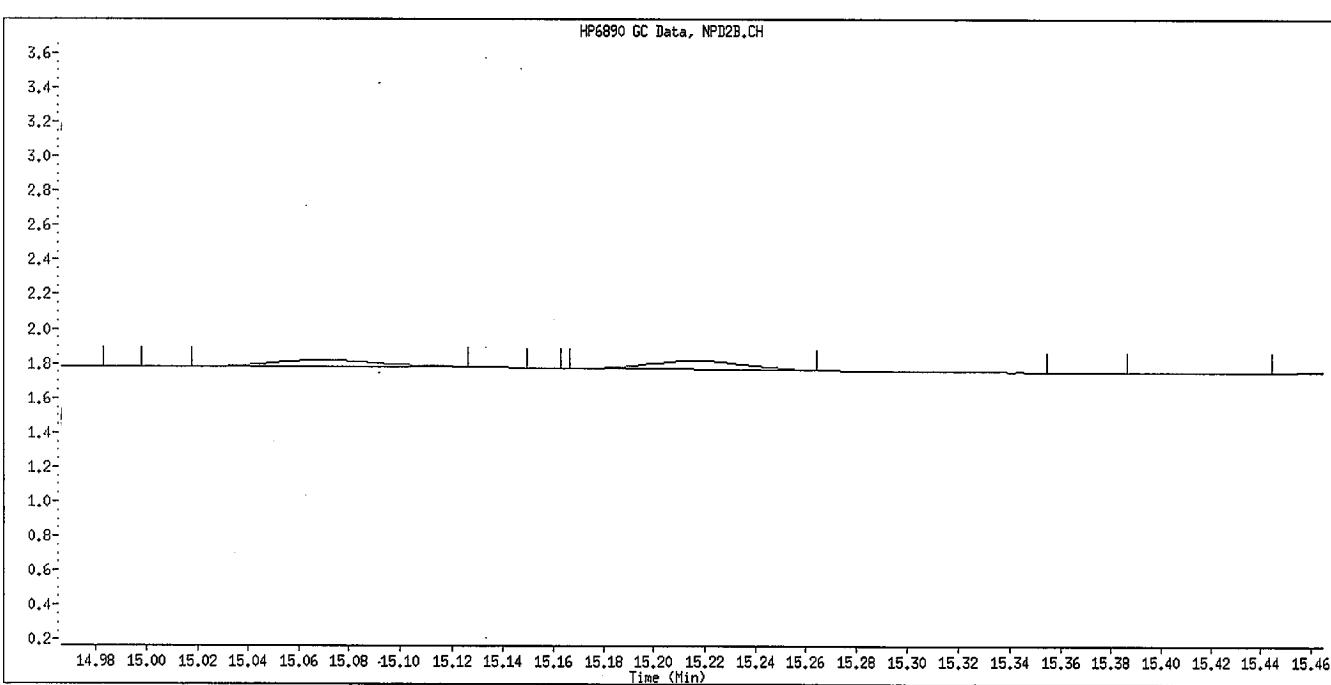
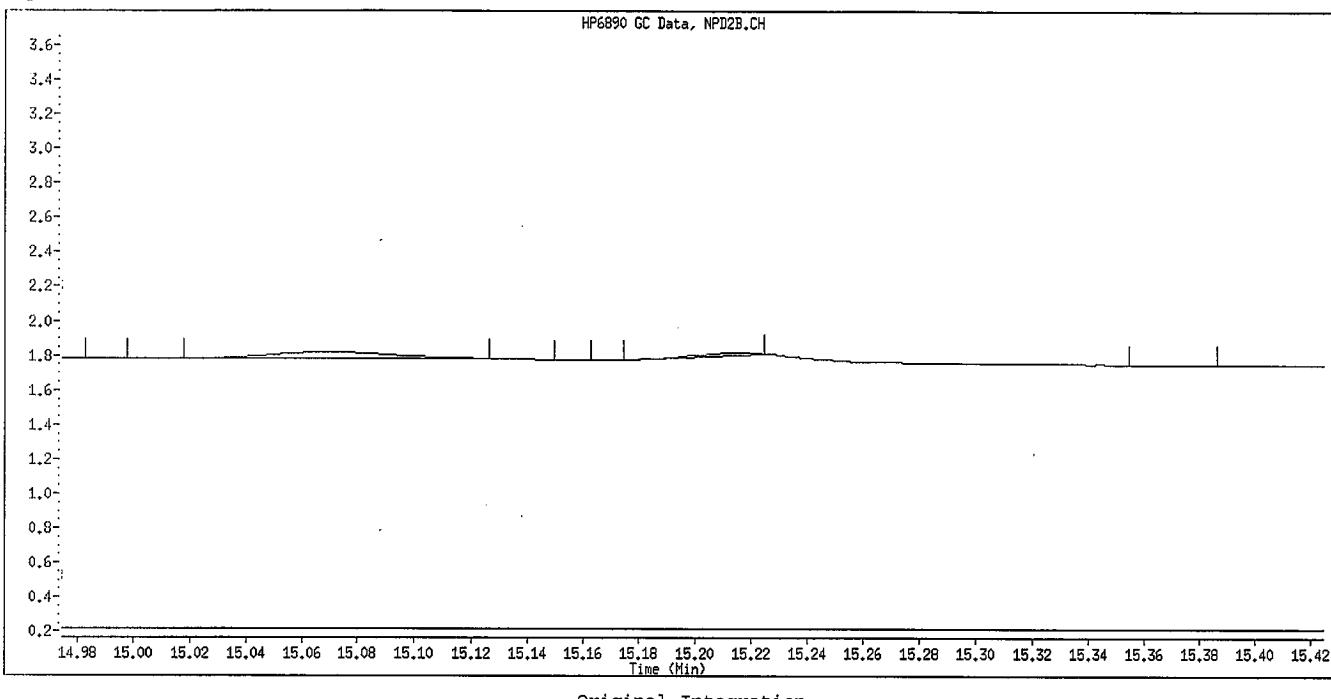
Column phase#: RTX-OPPest

\\DenSvr03\Public\chem\GCS\GC_D2.i\n0626092.B\004F0401.D

Instrument#: GC_D2.i
Operator#: MPK/TLW
Column diameter#: 0.32



Data File Name: 004F0401.D
Inj. Date and Time: 26-JUN-2009 18:55
Instrument ID: GC_D2.i
Client ID: OPP L6 GSV0637
Compound Name: Anilazine
CAS #:
Report Date: 06/30/2009

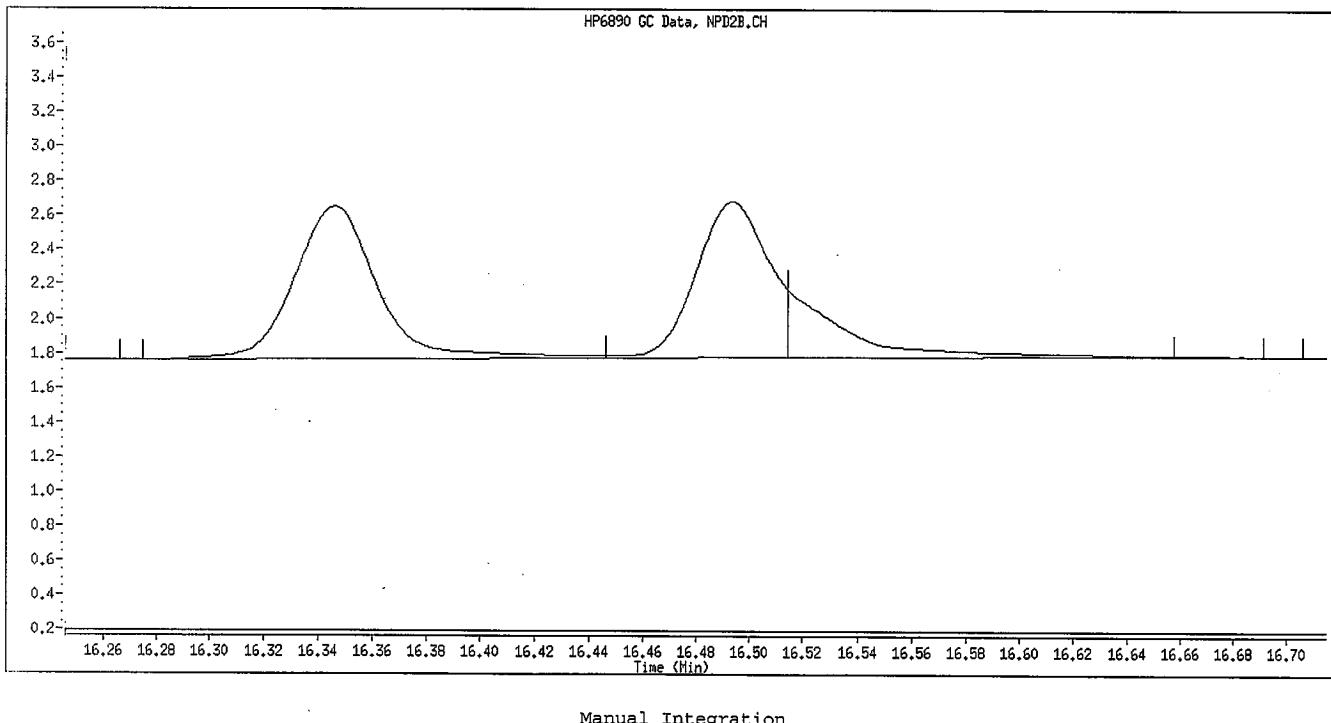
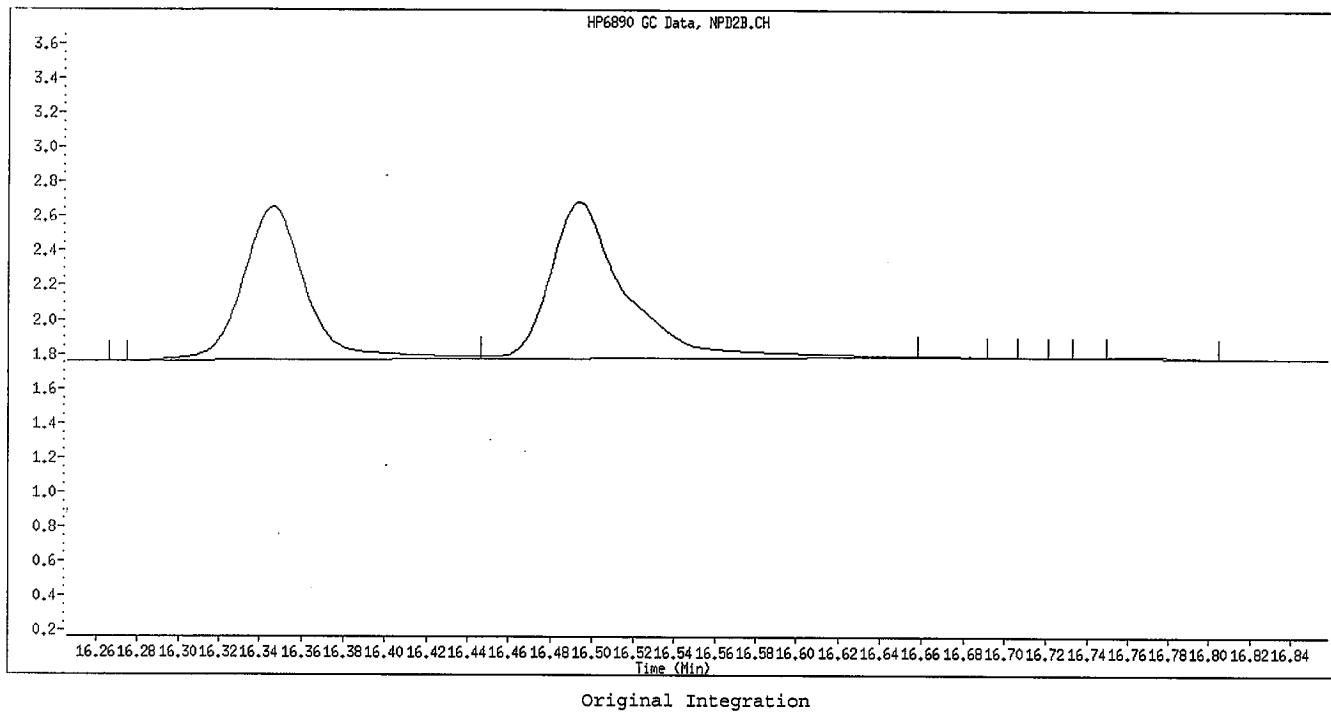


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

463050

Data File Name: 004F0401.D
Inj. Date and Time: 26-JUN-2009 18:55
Instrument ID: GC_D2.i
Client ID: OPP L6 GSV0637
Compound Name: Parathion
CAS #:
Report Date: 06/30/2009

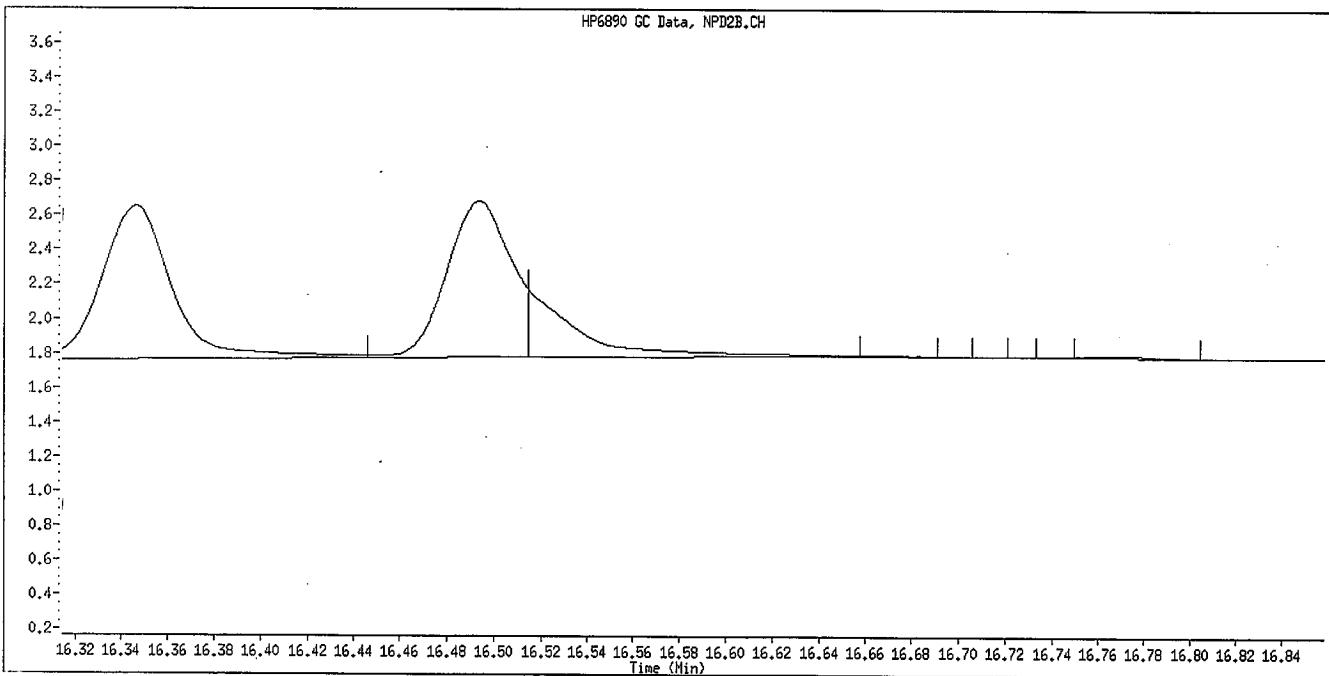
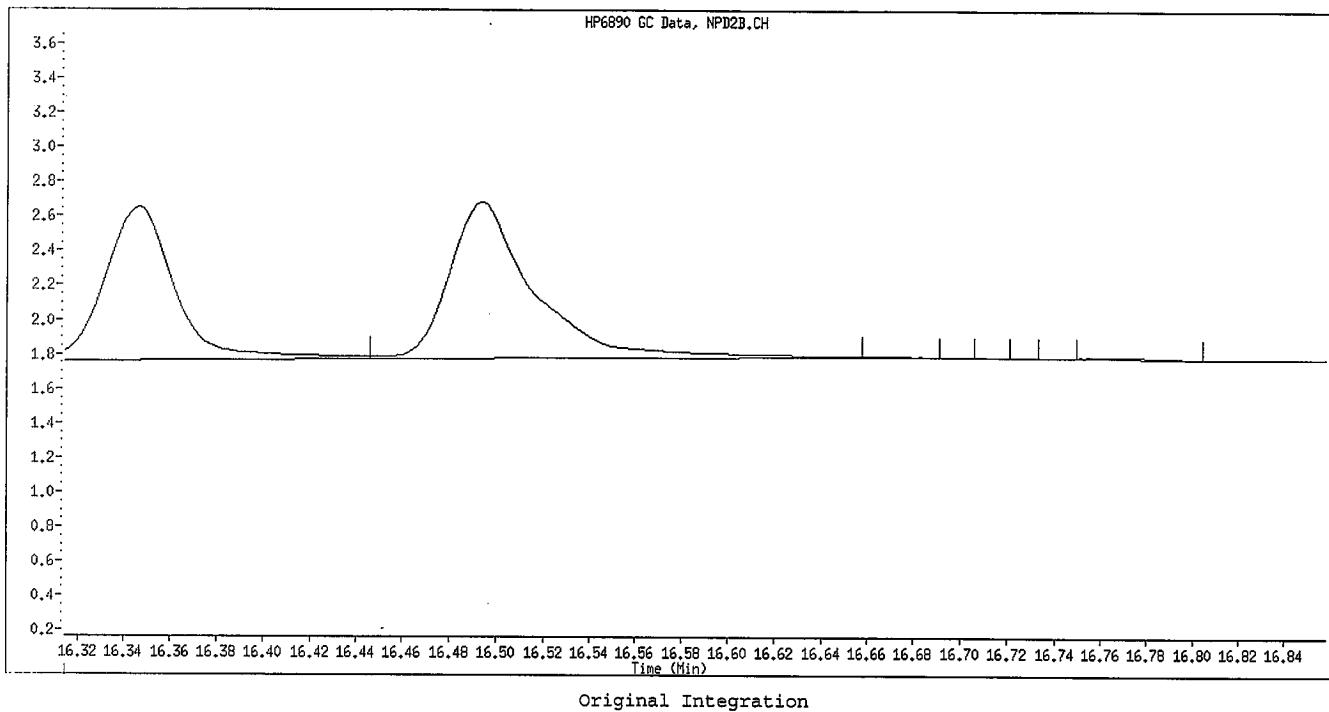


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 004F0401.D
Inj. Date and Time: 26-JUN-2009 18:55
Instrument ID: GC_D2.i
Client ID: OPP L6 GSV0637
Compound Name: Merphos-B (Merphos Oxone)
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\005F0501.D
Lab Smp Id: OPP L5 GSV0635 Client Smp ID: OPP L5 GSV0635
Inj Date : 26-JUN-2009 19:23
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L5 GSV0635
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 12:58 GC_D2.i Quant Type: ISTD
Cal. Date : 26-JUN-2009 18:55 Cal File: 004F0401.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.730	4.731 (0.251)		267154	3.00000	2.982
2 Dichlorvos	6.545	6.546 (0.348)		221023	3.00000	3.159
\$ 3 Chlormefos	7.384	7.384 (0.392)		237967	3.00000	3.379
4 Mevinphos	9.234	9.234 (0.491)		137272	3.00000	2.913
5 Demeton-O	9.734	9.734 (0.517)		46912	0.97500	1.045
6 Thionazin	9.984	9.984 (0.531)		216898	3.00000	3.078
7 Ethoprop	10.499	10.499 (0.558)		162719	3.00000	3.090
8 Phorate	10.539	10.539 (0.560)		189707	3.00000	3.107
9 Naled	10.939	10.939 (0.581)		46004	3.00000	2.975
10 Sulfotepp	11.017	11.017 (0.586)		277819	3.00000	3.017(A)
* 11 Tributylphosphate	11.115	11.116 (1.000)		123454	2.00000	
12 Simazine	11.399	11.399 (0.606)		40610	3.00000	3.079(A)
13 Diazinon	11.540	11.541 (0.613)		155648	3.00000	3.140
14 Atrazine	11.584	11.584 (0.616)		85997	3.00000	3.210(A)
15 Propazine	11.747	11.747 (0.624)		72628	3.00000	3.140
16 Disulfoton	12.049	12.049 (0.640)		152294	3.00000	3.136
17 Demeton-S	12.124	12.124 (0.644)		121463	2.04000	2.103
18 Dimethoate	13.282	13.282 (0.706)		206120	3.00000	3.166
19 Ronnel	13.587	13.587 (0.722)		134377	3.00000	3.067
20 Morphos-A (Morphos)	13.689	13.689 (1.232)		139514	3.00000	3.119(A)
21 Chlorpyrifos	14.409	14.409 (0.766)		137524	3.00000	3.094
22 Fenthion	14.662	14.662 (0.779)		130285	3.00000	3.161
23 Trichloronate	14.710	14.711 (0.782)		170976	3.00000	2.945
24 Anilazine	15.215	15.216 (0.809)		11039	3.00000	2.902
25 Methyl Parathion	15.519	15.519 (0.825)		140467	3.00000	3.157(A)
26 Malathion	15.724	15.724 (0.836)		122121	3.00000	2.929
27 Tokuthion	16.344	16.344 (0.869)		150762	3.00000	3.089
28 Parathion	16.494	16.494 (0.877)		135916	3.00000	3.100(M)
29 Morphos-B (Morphos Oxone)	16.514	16.517 (1.486)		40683	3.00000	2.940(AM)
30 Tetrachlorvinphos (stirophos)	16.977	16.977 (0.902)		90042	3.00000	3.174
31 Carbophenothion methyl	17.082	17.082 (0.908)		132789	3.00000	3.266
32 Bolstar	17.440	17.440 (0.927)		132222	3.00000	3.088
33 Carbophenothion	17.524	17.524 (0.931)		139939	3.00000	3.323(A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.280	18.281 (0.972)		105020	3.00000	3.039
35 Fensulfothion	18.559	18.559 (0.986)		98284	3.00000	3.098
* 36 TOCP	18.815	18.816 (1.000)		69265	2.00000	
37 Phosmet / EPN	18.909	18.909 (1.005)		207459	6.00000	5.874 (A)
38 Famphur	19.010	19.011 (1.010)		125661	3.00000	2.766
39 Azinphos-methyl	19.147	19.147 (1.018)		125121	3.00000	3.011
40 Azinphos-ethyl	19.365	19.366 (1.029)		120801	3.00000	3.052
41 Coumaphos	20.347	20.347 (1.081)		93401	3.00000	3.069
S 42 Merphos				180197	3.00000	3.122 (A)
M 43 Total Demeton				168375	3.00000	3.147

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 005F0501.D
Lab Smp Id: OPP L5 GSV0635
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 26-JUN-2009
Calibration Time: 21:40
Client Smp ID: OPP L5 GSV0635
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	123933	61967	247866	123454	-0.39
36 TOCP	68831	34416	137662	69265	0.63

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	0.00
36 TOCP	18.82	18.32	19.32	18.82	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

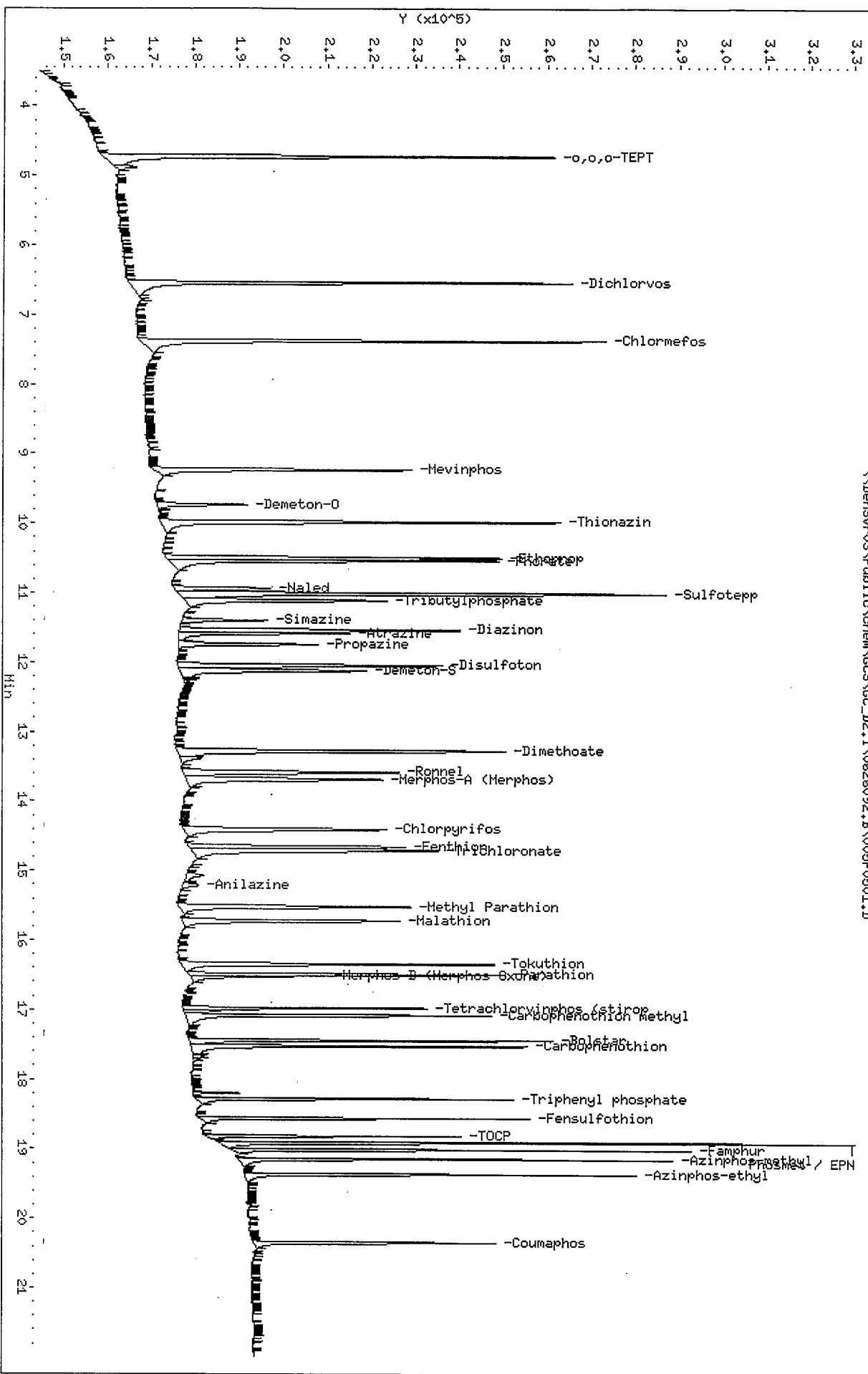
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Client ID: OPP LS GSv0635
 Sample Info: OPP LS GSv0635

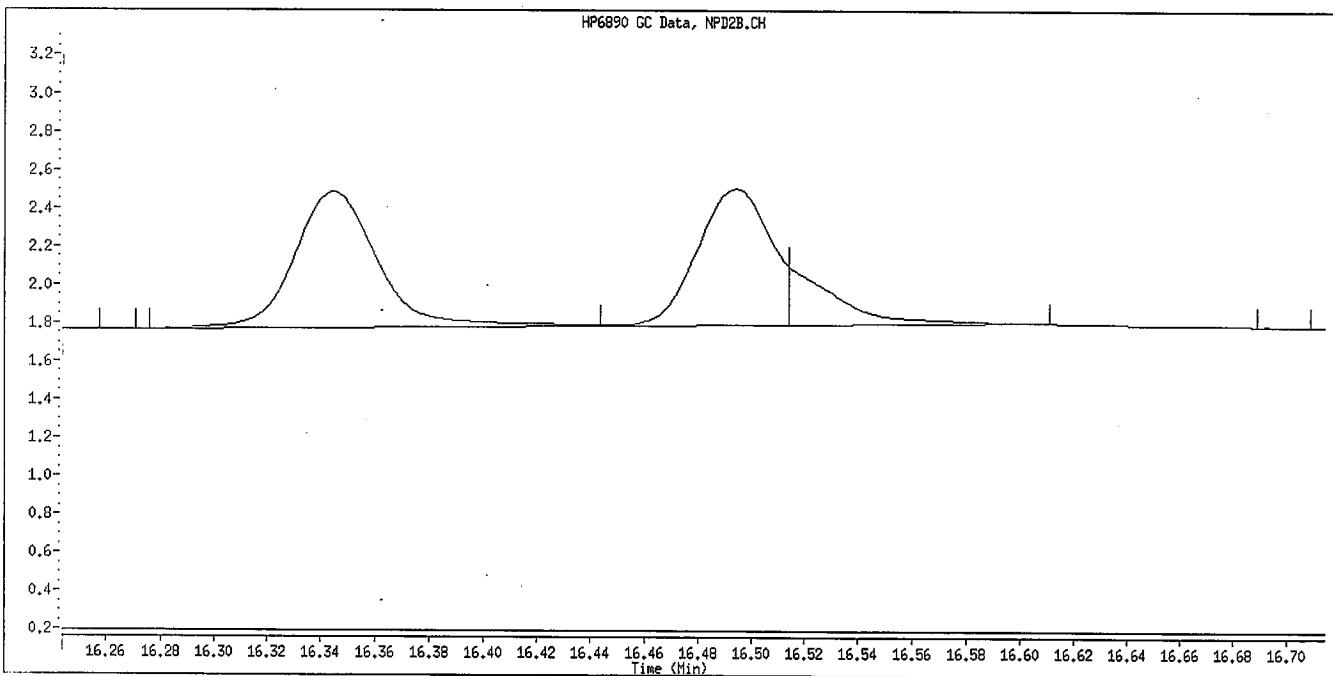
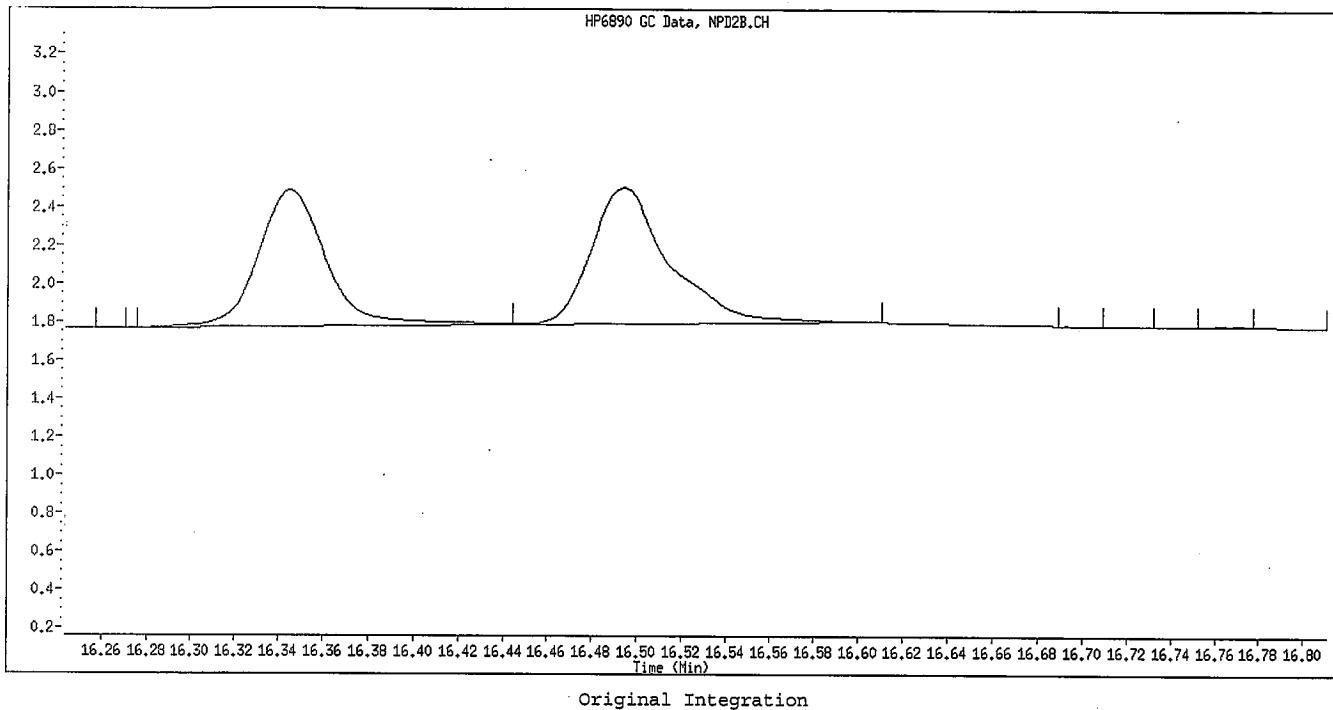
Column phase: RTx-OPPest

Instrument: GC_D2.i
 Operator: MPK/TLU
 Column diameter: 0.32

\\JensSurv03\Public\chem\GCS\GC_D2.i\\0626092.B\\005F0501.D



Data File Name: 005F0501.D
Inj. Date and Time: 26-JUN-2009 19:23
Instrument ID: GC_D2.i
Client ID: OPP L5 GSV0635
Compound Name: Parathion
CAS #:
Report Date: 06/30/2009

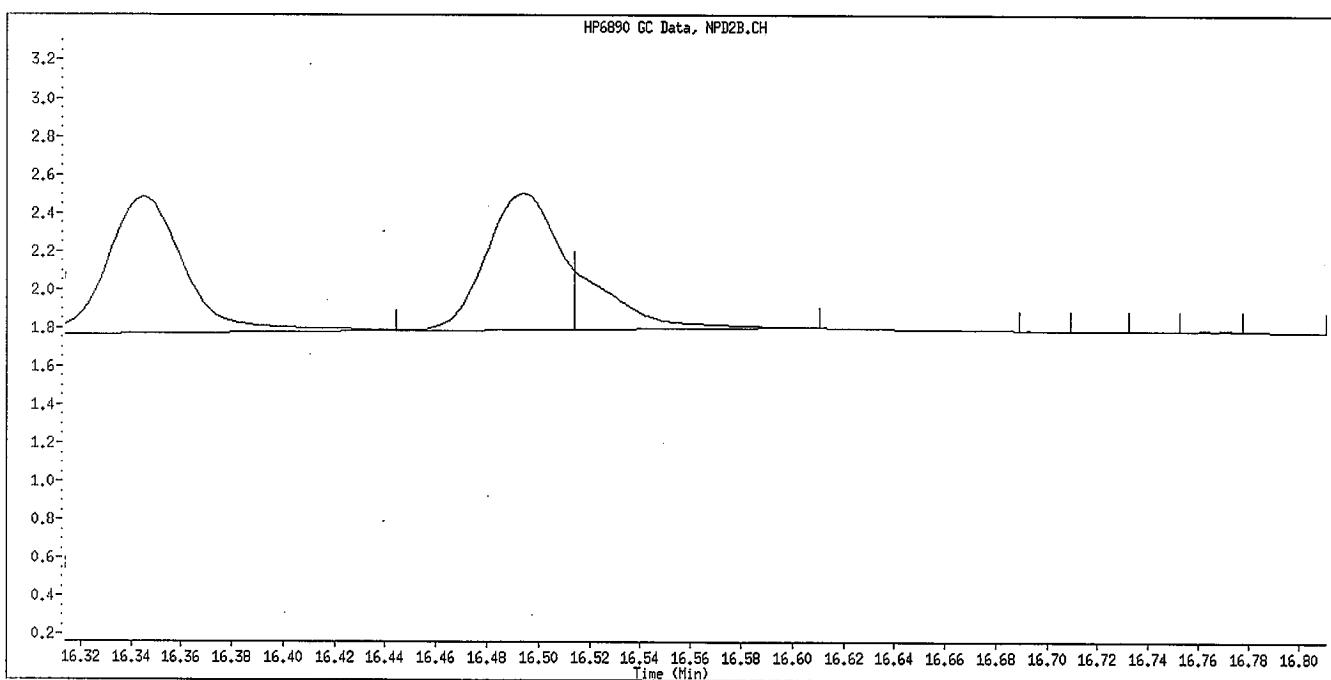
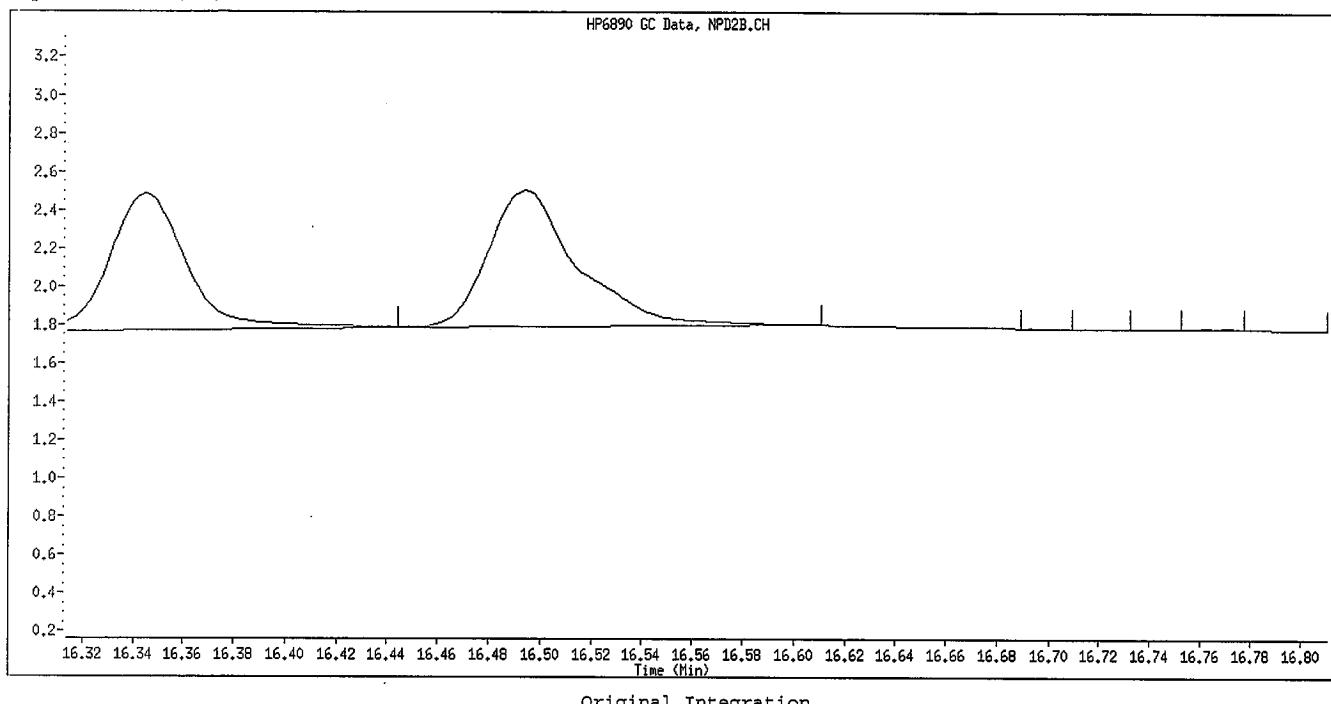


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

8666069

Data File Name: 005F0501.D
Inj. Date and Time: 26-JUN-2009 19:23
Instrument ID: GC_D2.i
Client ID: OPP LS GSV0635
Compound Name: Morphos-B (Morphos Oxone)
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\006F0601.D
Lab Smp Id: OPP L4 GSV0638 Client Smp ID: OPP L4 GSV0638
Inj Date : 26-JUN-2009 19:50
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L4 GSV0638
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 12:58 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 19:23 Cal File: 005F0501.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.730	4.731 (0.251)		181207	2.00000	2.055
2 Dichlorvos	6.545	6.546 (0.348)		148252	2.00000	2.154
\$ 3 Chlormefos	7.383	7.384 (0.392)		138652	2.00000	2.001
4 Mevinphos	9.233	9.234 (0.491)		98399	2.00000	2.122
5 Demeton-O	9.733	9.734 (0.517)		29742	0.65000	0.6731
6 Thionazin	9.983	9.984 (0.531)		134999	2.00000	1.947
7 Ethoprop	10.498	10.499 (0.558)		103308	2.00000	1.994
8 Phorate	10.537	10.539 (0.560)		115663	2.00000	1.925
9 Naled	10.940	10.939 (0.581)		28010	2.00000	1.943
10 Sulfoetpp	11.017	11.017 (0.586)		187497	2.00000	2.069 (A)
* 11 Tributylphosphate	11.115	11.116 (1.000)		126959	2.00000	
12 Simazine	11.398	11.399 (0.606)		26282	2.00000	2.025 (A)
13 Diazinon	11.540	11.541 (0.613)		98649	2.00000	2.033
14 Atrazine	11.582	11.584 (0.616)		49088	2.00000	1.960 (A)
15 Propazine	11.745	11.747 (0.624)		43235	2.00000	1.922
16 Disulfoton	12.050	12.049 (0.640)		96402	2.00000	2.017
17 Demeton-S	12.125	12.124 (0.644)		70921	1.36000	1.296
18 Dimethoate	13.280	13.282 (0.706)		123978	2.00000	1.935
19 Ronnel	13.588	13.587 (0.722)		84095	2.00000	1.950
20 Morphos-A (Morphos)	13.690	13.689 (1.232)		90289	2.00000	1.962 (A)
21 Chloryrifos	14.408	14.409 (0.766)		82272	2.00000	1.881
22 Fenthion	14.660	14.662 (0.779)		79190	2.00000	1.952
23 Trichloronate	14.708	14.711 (0.782)		106326	2.00000	1.900
24 Anilazine	15.212	15.216 (0.808)		6899	2.00000	1.843
25 Methyl Parathion	15.520	15.519 (0.825)		91219	2.00000	2.083 (A)
26 Malathion	15.725	15.724 (0.836)		80242	2.00000	1.956
27 Tokuthion	16.345	16.344 (0.869)		92069	2.00000	1.917
28 Parathion	16.493	16.494 (0.877)		84124	2.00000	1.950 (M)
29 Morphos-B (Morphos Oxone)	16.513	16.517 (1.486)		23458	2.00000	1.603 (AM)
30 Tetrachlorvinphos (stirophos)	16.977	16.977 (0.902)		54727	2.00000	1.961
31 Carbophenothion methyl	17.082	17.082 (0.908)		79857	2.00000	1.996
32 Bolstar	17.440	17.440 (0.927)		82203	2.00000	1.951
33 Carbophenothion	17.523	17.524 (0.931)		80431	2.00000	1.941 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.280	18.281 (0.972)		73416	2.00000	2.159
35 Fensulfothion	18.558	18.559 (0.986)		66352	2.00000	2.125
* 36 TOCP	18.815	18.816 (1.000)		68161	2.00000	
37 Phosmet / EPN	18.908	18.909 (1.005)		146012	4.00000	4.177
38 Famphur	19.012	19.011 (1.010)		95300	2.00000	2.132
39 Azinphos-methyl	19.147	19.147 (1.018)		88773	2.00000	2.171
40 Azinphos-ethyl	19.365	19.366 (1.029)		80966	2.00000	2.079
41 Coumaphos	20.347	20.347 (1.081)		61650	2.00000	2.059
S 42 Merphos				113747	2.00000	2.002(A)
M 43 Total Demeton				100663	2.00000	1.969

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 006F0601.D
Lab Smp Id: OPP L4 GSV0638
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L4 GSV0638
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	126959	63480	253918	126959	0.00
36 TOCP	68161	34081	136322	68161	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	0.00
36 TOCP	18.82	18.32	19.32	18.82	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

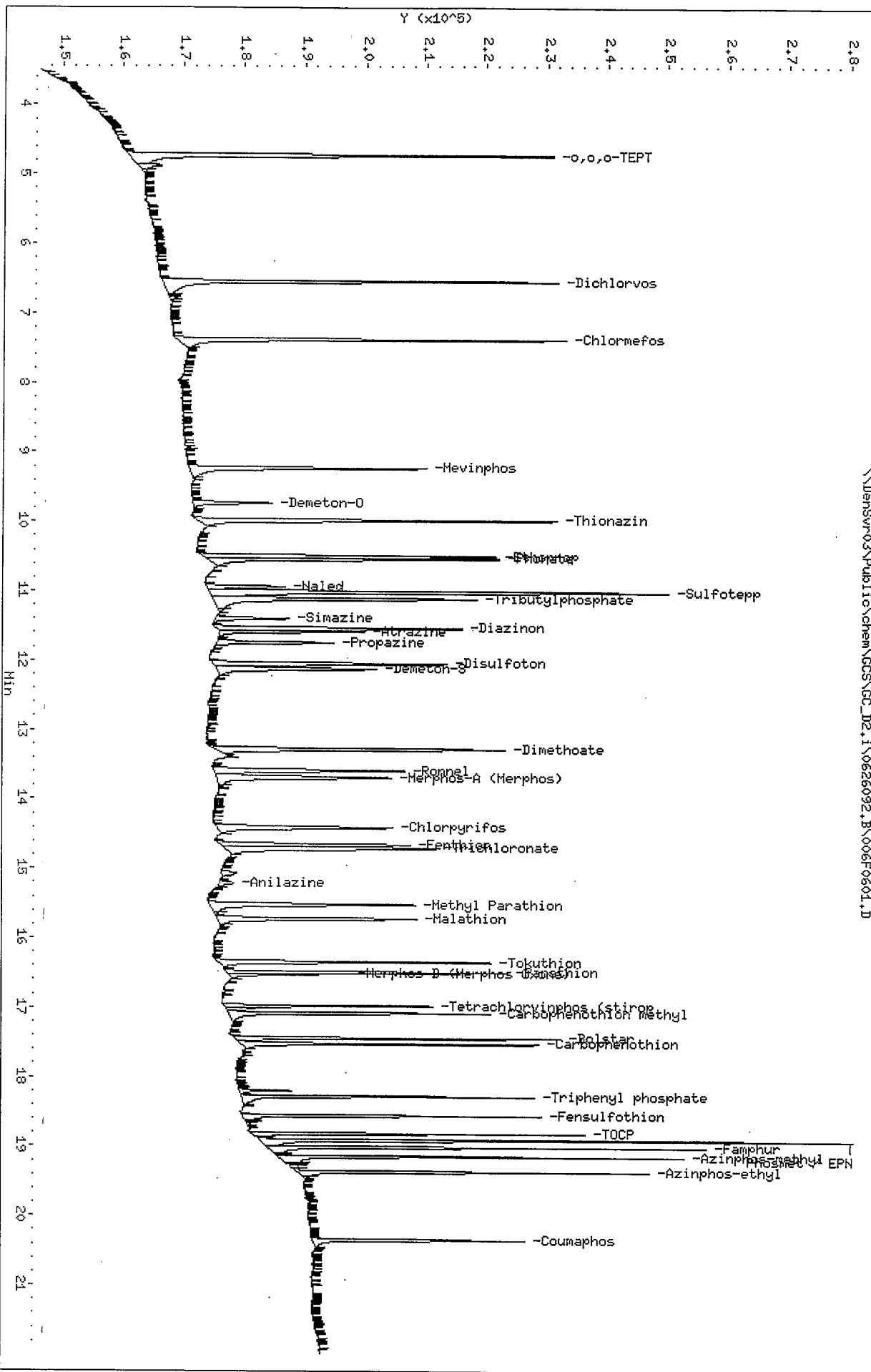
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Client ID: OPP L4 GSV0638

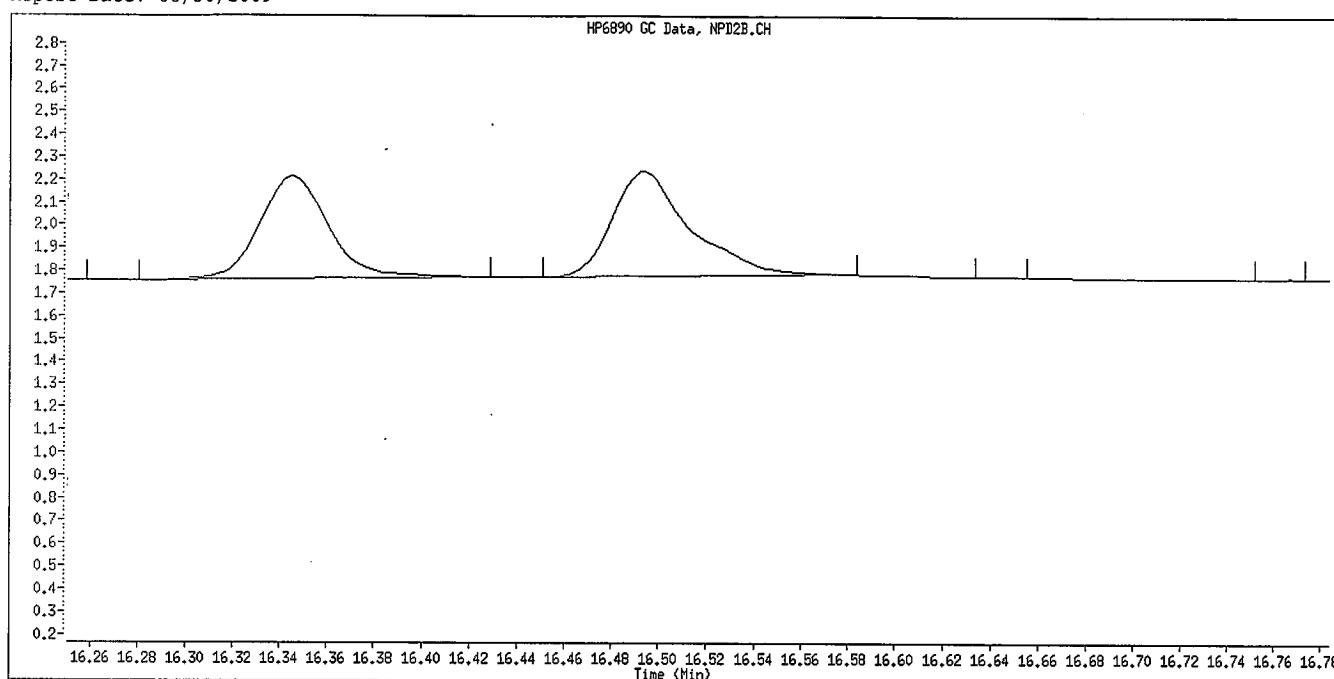
Sample Info: OPP L4 GSV0638

Column phase: RTx-OPPest

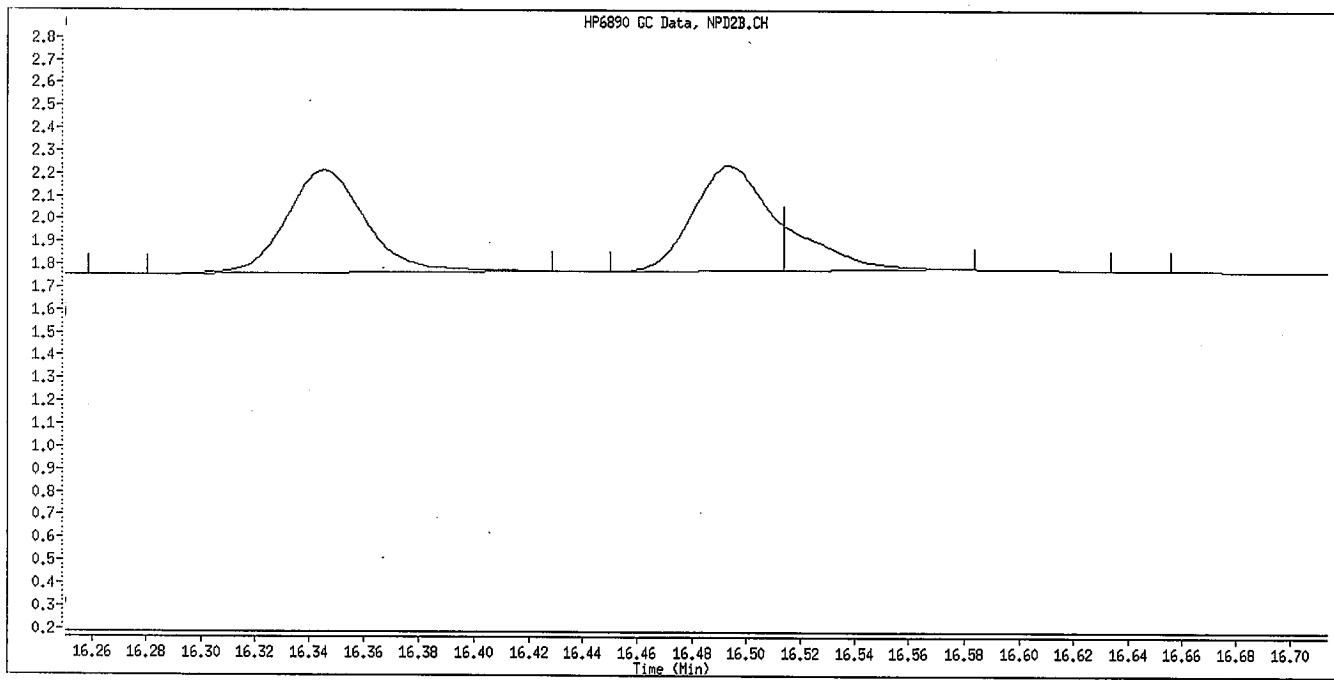
Instrument: GC_D2.i
Operator: HK/TLN
Column diameter: 0.32
\\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\006F0601.D



Data File Name: 006F0601.D
Inj. Date and Time: 26-JUN-2009 19:50
Instrument ID: GC_D2.i
Client ID: OPP L4 GSV0638
Compound Name: Parathion
CAS #:
Report Date: 06/30/2009



Original Integration

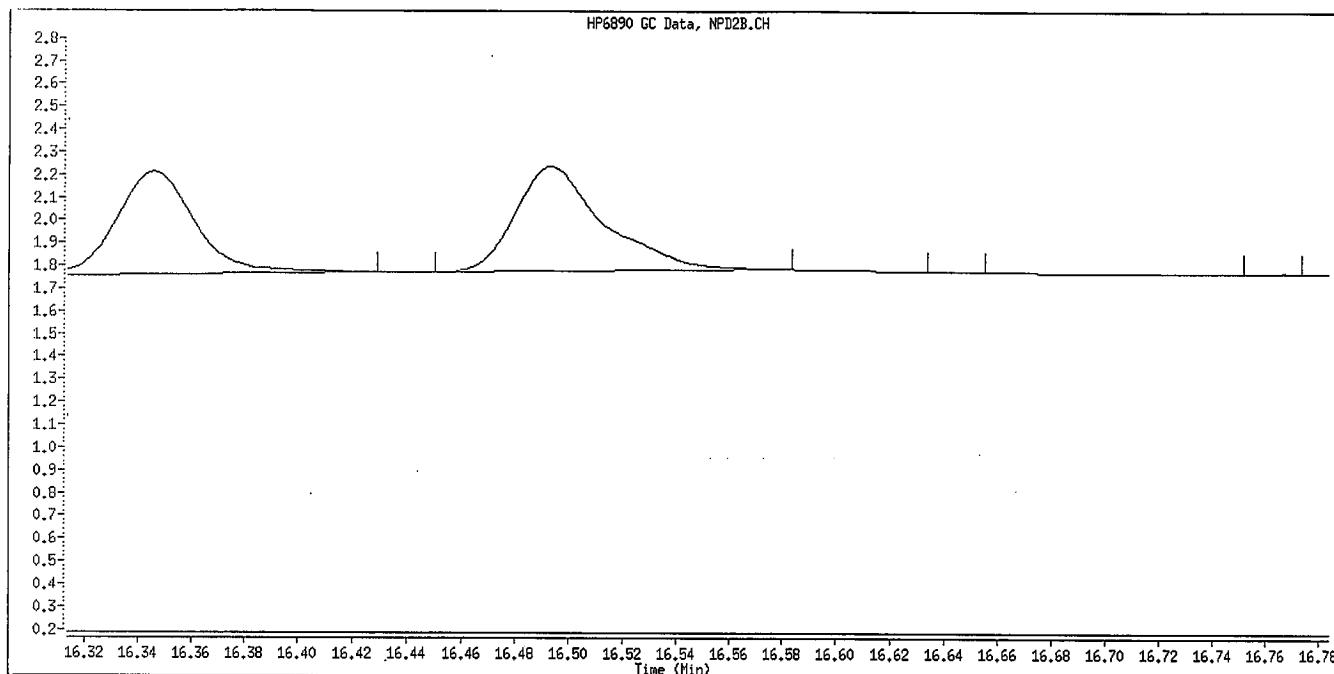


Manual Integration

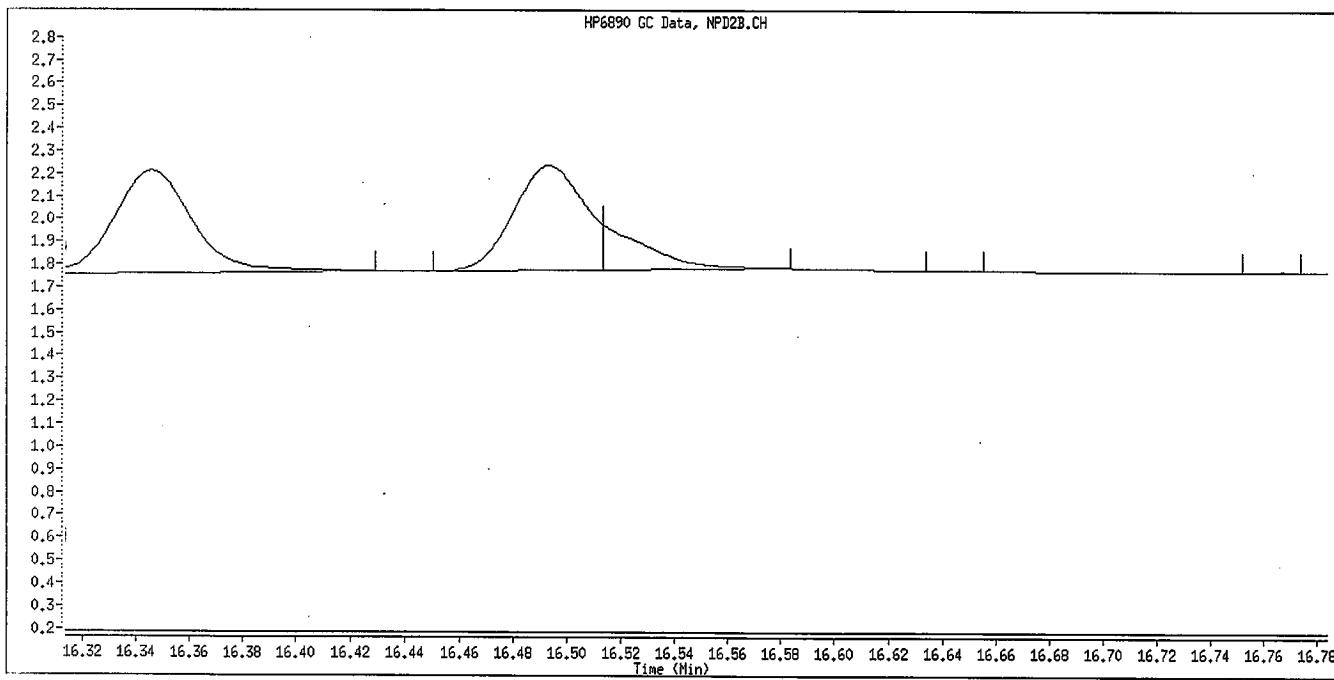
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 006F0601.D
Inj. Date and Time: 26-JUN-2009 19:50
Instrument ID: GC_D2.i
Client ID: OPP L4 GSV0638
Compound Name: Merphos-B (Merphos Oxone)
CAS #:
Report Date: 06/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\007F0701.D
Lab Smp Id: OPP L3 GSV0639 Client Smp ID: OPP L3 GSV0639
Inj Date : 26-JUN-2009 20:18
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L3 GSV0639
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 12:58 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 19:50 Cal File: 006F0601.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.728	4.731 (0.251)		81887	1.00000	0.9107
2 Dichlorvos	6.546	6.546 (0.348)		63970	1.00000	0.9111
\$ 3 Chlormefos	7.383	7.384 (0.392)		61984	1.00000	0.8770
4 Mevinphos	9.235	9.234 (0.491)		42341	1.00000	0.8952
5 Demeton-O	9.733	9.734 (0.517)		13386	0.32500	0.2970
6 Thionazin	9.985	9.984 (0.531)		67347	1.00000	0.9522
7 Ethoprop	10.500	10.499 (0.558)		50288	1.00000	0.9515
8 Phorate	10.536	10.539 (0.560)		55056	1.00000	0.8983
9 Naled	10.941	10.939 (0.582)		10859	1.00000	0.9052
10 Sulfotep	11.016	11.017 (0.586)		90141	1.00000	0.9752 (A)
* 11 Tributylphosphate	11.116	11.116 (1.000)		109941	2.00000	
12 Simazine	11.398	11.399 (0.606)		12288	1.00000	0.9282 (A)
13 Diazinon	11.541	11.541 (0.613)		49407	1.00000	1.013
14 Atrazine	11.581	11.584 (0.616)		21316	1.00000	0.9678 (A)
15 Propazine	11.746	11.747 (0.624)		20907	1.00000	0.9421
16 Disulfoton	12.050	12.049 (0.640)		47563	1.00000	0.9757
17 Demeton-S	12.126	12.124 (0.645)		33785	0.68000	0.6688
18 Dimethoate	13.283	13.282 (0.706)		60106	1.00000	0.9200
19 Ronnel	13.588	13.587 (0.722)		39845	1.00000	0.9061
20 Merphos-A (Merphos)	13.690	13.689 (1.231)		42032	1.00000	1.055 (A)
21 Chlorpyrifos	14.410	14.409 (0.766)		43430	1.00000	0.9737
22 Fenthion	14.663	14.662 (0.779)		40767	1.00000	0.9854
23 Trichloronate	14.710	14.711 (0.782)		49357	1.00000	0.9220
24 Anilazine	15.218	15.216 (0.809)		3581	1.00000	0.9372 (M)
25 Methyl Parathion	15.520	15.519 (0.825)		42442	1.00000	0.9503
26 Malathion	15.725	15.724 (0.836)		39993	1.00000	0.9559
27 Tokuthion	16.345	16.344 (0.869)		47016	1.00000	0.9598
28 Parathion	16.493	16.494 (0.877)		43405	1.00000	0.9863 (M)
29 Merphos-B (Merphos Oxone)	16.515	16.517 (1.486)		15065	1.00000	1.162 (AM)
30 Tetrachlorvinphos (stirophos)	16.976	16.977 (0.902)		25459	1.00000	0.8943
31 Carbophenothon methyl	17.081	17.082 (0.908)		36393	1.00000	0.8919
32 Bolstar	17.441	17.440 (0.927)		41390	1.00000	0.9630
33 Carbophenothon	17.523	17.524 (0.931)		40089	1.00000	0.9485 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.280	18.281 (0.972)		31677	1.00000	0.9133
35 Fensulfothion	18.558	18.559 (0.986)		30601	1.00000	0.9609
* 36 TOCP	18.815	18.816 (1.000)		69519	2.00000	
37 Phosmet / EPN	18.908	18.909 (1.005)		68186	2.00000	1.866
38 Famphur	19.010	19.011 (1.010)		41284	1.00000	0.9054
39 Azinphos-methyl	19.145	19.147 (1.018)		37491	1.00000	0.8988
40 Azinphos-ethyl	19.365	19.366 (1.029)		38936	1.00000	0.9801
41 Coumaphos	20.345	20.347 (1.081)		29854	1.00000	0.9774
S 42 Merphos				57097	1.00000	0.9855
M 43 Total Demeton				47171	1.00000	0.9658

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 007F0701.D
Lab Smp Id: OPP L3 GSV0639
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L3 GSV0639
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	126959	63480	253918	109941	-13.40
36 TOCP	68161	34081	136322	69519	1.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	0.01
36 TOCP	18.82	18.32	19.32	18.82	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date #: 26-JUN-2009 20:18

Client ID#: OPP L3 GSV0639

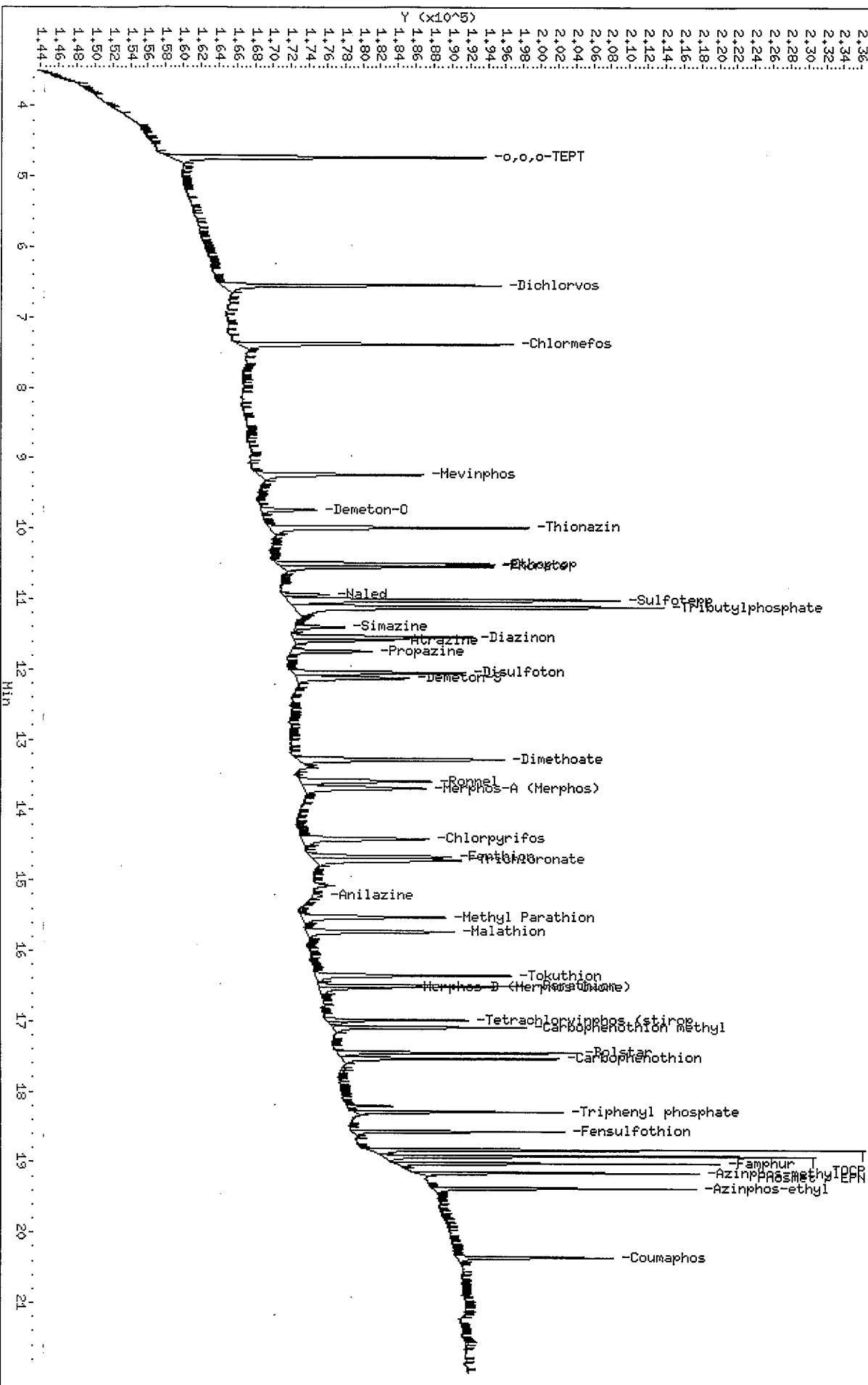
Sample Info#: OPP L3 GSV0639

Instrument#: GC_D2.i

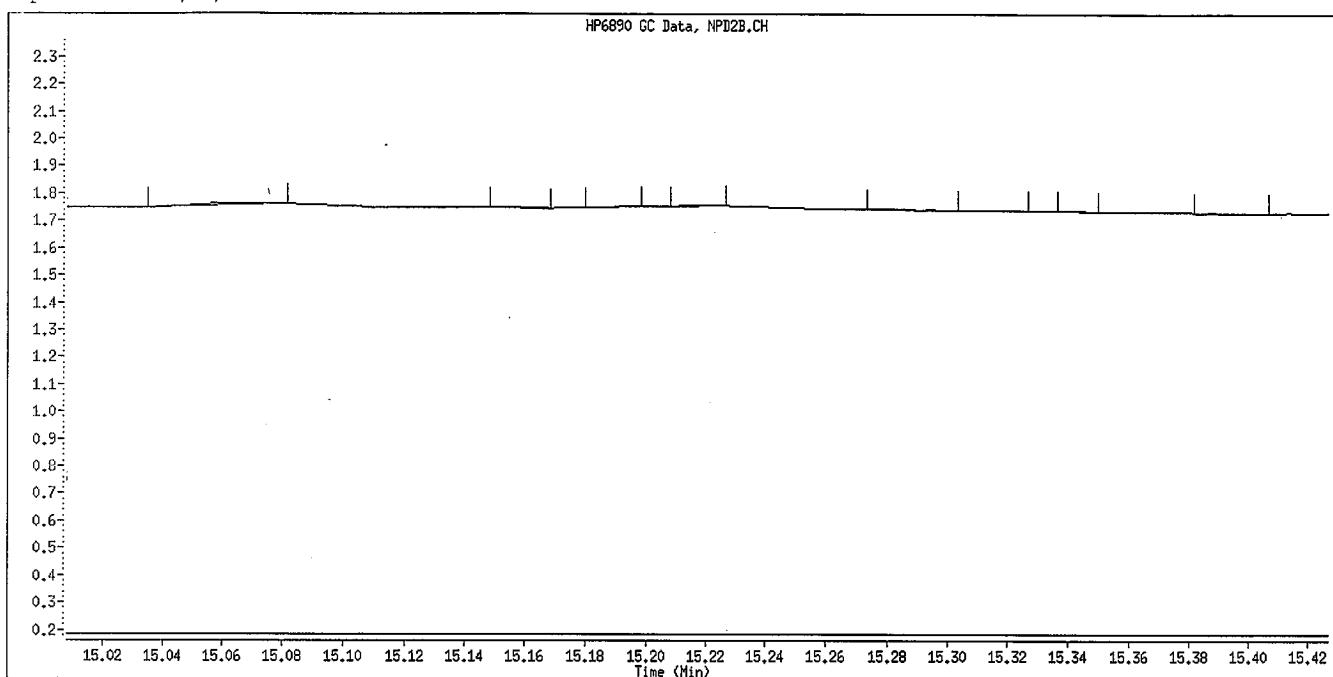
Operator#: MPK/TLM

Column diameter#: 0.32

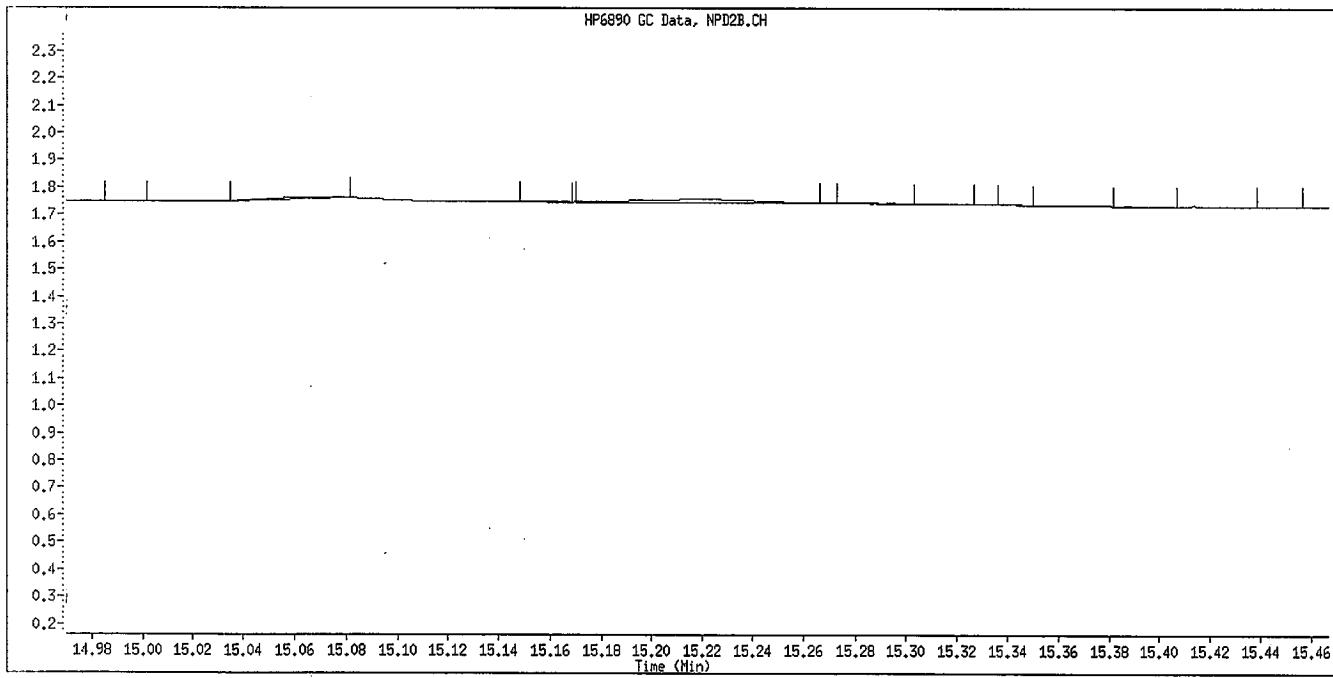
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Data File Name: 007F0701.D
Inj. Date and Time: 26-JUN-2009 20:18
Instrument ID: GC_D2.i
Client ID: OPP L3 GSV0639
Compound Name: Anilazine
CAS #:
Report Date: 06/30/2009



Original Integration

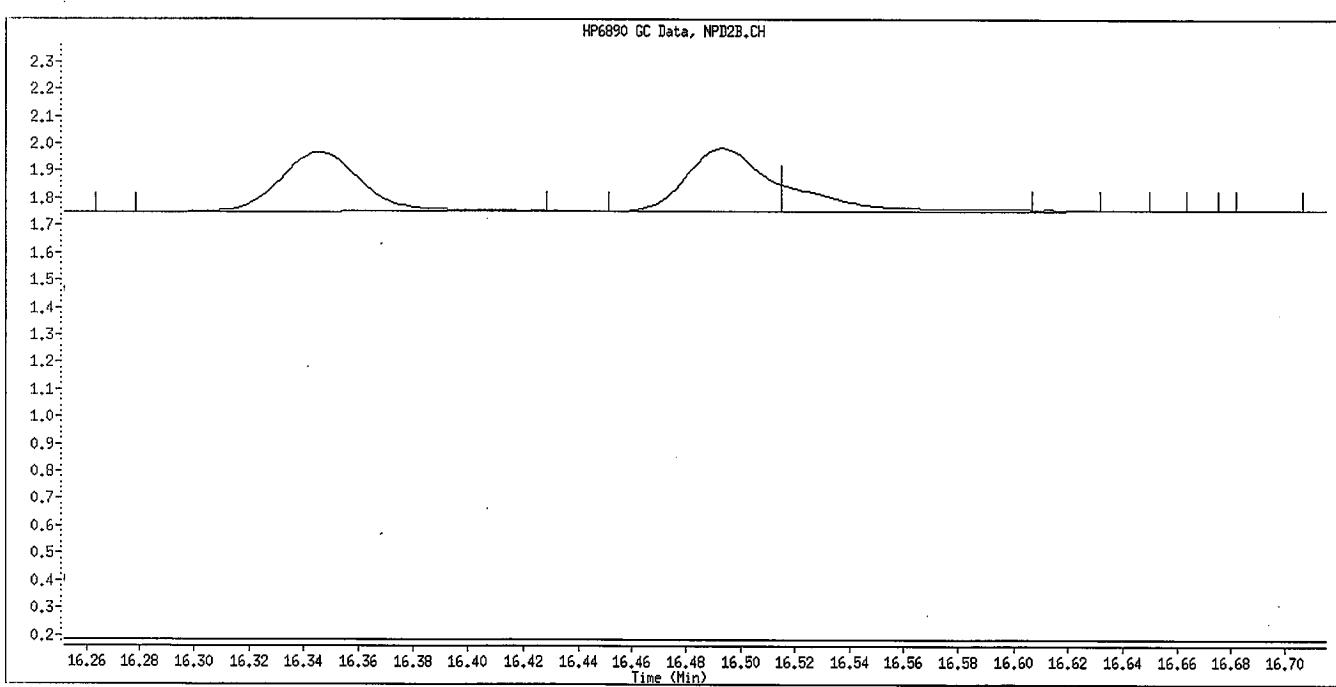
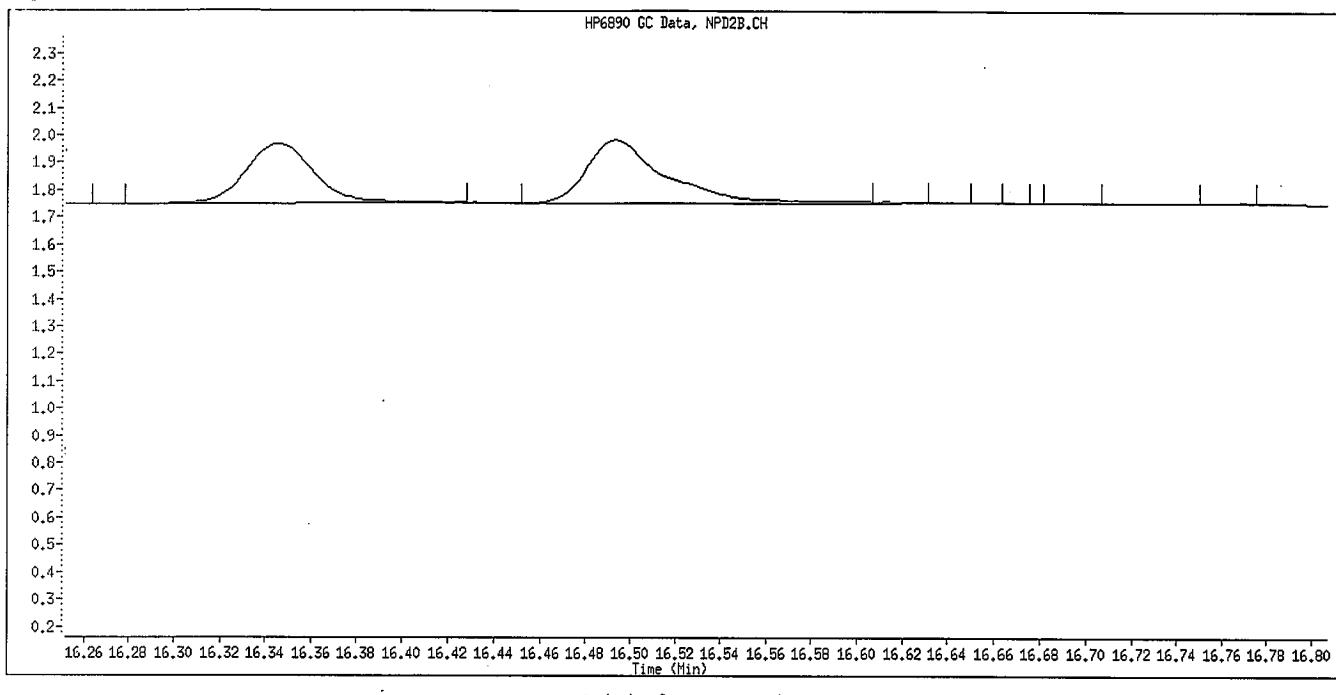


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 26-JUN-2009 20:18
Instrument ID: GC_D2.i
Client ID: OPP L3 GSV0639
Compound Name: Parathion
CAS #:
Report Date: 06/30/2009

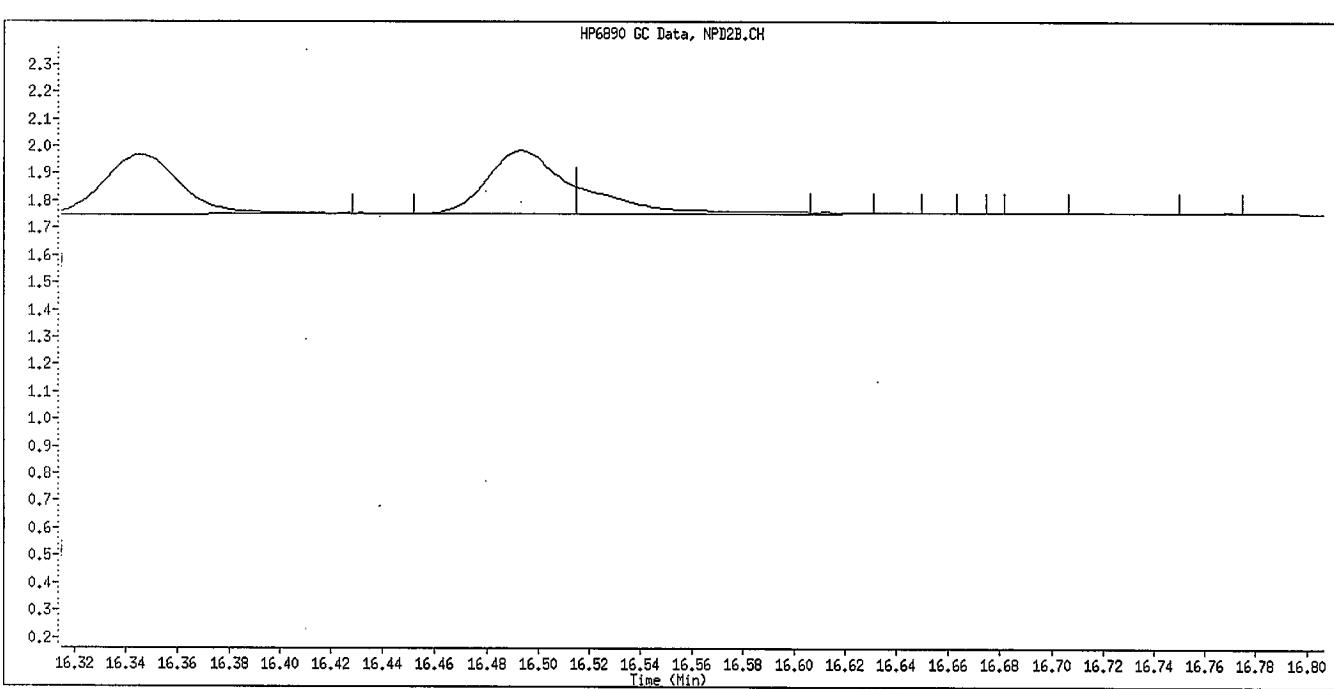
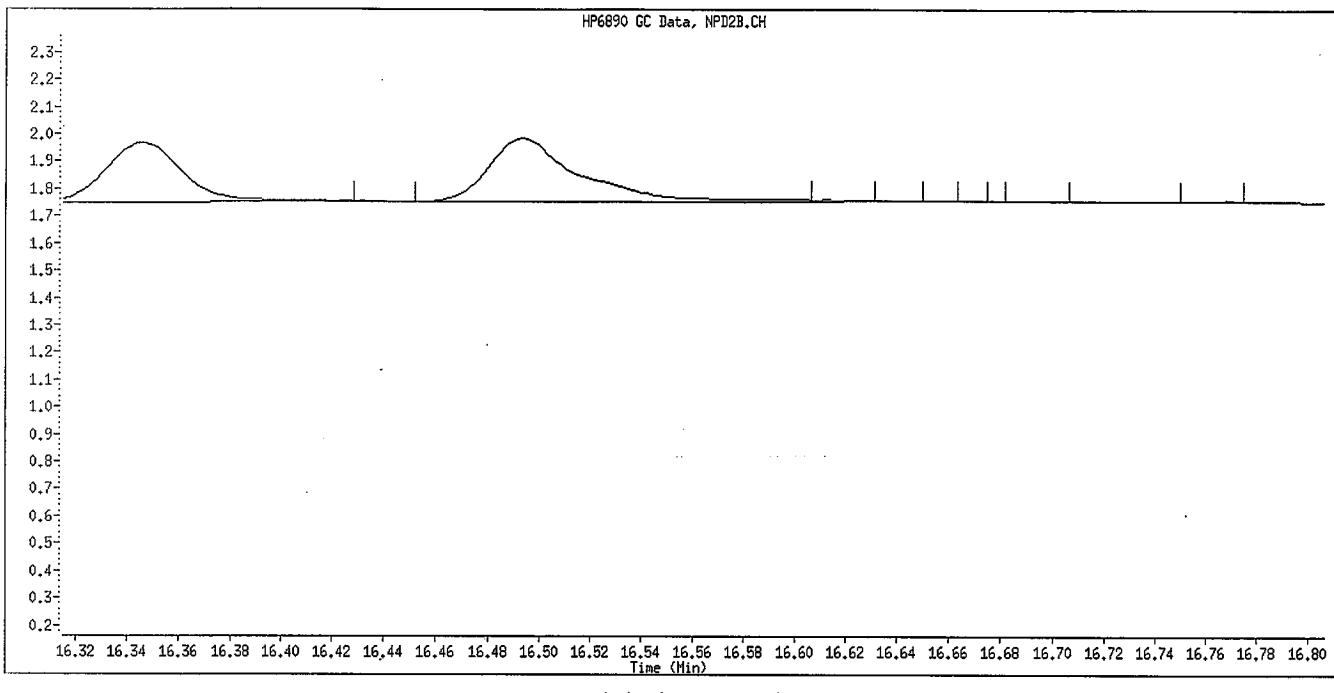


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

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6/30/09

Data File Name: 007F0701.D
Inj. Date and Time: 26-JUN-2009 20:18
Instrument ID: GC_D2.i
Client ID: OPP L3 GSV0639
Compound Name: Merphos-B (Merphos Oxone)
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\008F0801.D
Lab Smp Id: OPP L2 GSV0640 Client Smp ID: OPP L2 GSV0640
Inj Date : 26-JUN-2009 20:45
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L2 GSV0640
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 12:58 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 20:18 Cal File: 007F0701.D
Als. bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.729	4.731 (0.251)		43725	0.50000	0.4721
2 Dichlorvos	6.546	6.546 (0.348)		32623	0.50000	0.4511
\$ 3 Chlormefos	7.383	7.384 (0.392)		32886	0.50000	0.4517
4 Mevinphos	9.233	9.234 (0.491)		22377	0.50000	0.4593
5 Demeton-O	9.734	9.734 (0.517)		7562	0.16250	0.1629
6 Thionazin	9.983	9.984 (0.531)		32975	0.50000	0.4526
7 Ethoprop	10.501	10.499 (0.558)		25261	0.50000	0.4640
8 Phorate	10.538	10.539 (0.560)		28693	0.50000	0.4545
9 Naled	10.934	10.939 (0.581)		1666	0.50000	0.3635
10 Sulfotep	11.018	11.017 (0.586)		45401	0.50000	0.4768 (A)
* 11 Tributylphosphate	11.118	11.116 (1.000)		107017	2.00000	
12 Simazine	11.401	11.399 (0.606)		6209	0.50000	0.4553 (A)
13 Diazinon	11.541	11.541 (0.613)		15923	0.50000	0.3370
14 Atrazine	11.579	11.584 (0.615)		1231	0.50000	0.2736 (A)
15 Propazine	11.746	11.747 (0.624)		8102	0.50000	0.3907
16 Disulfoton	12.049	12.049 (0.640)		23807	0.50000	0.4741
17 Demeton-S	12.124	12.124 (0.644)		15766	0.34000	0.3681
18 Dimethoate	13.281	13.282 (0.706)		33707	0.50000	0.5009
19 Ronnel	13.588	13.587 (0.722)		19648	0.50000	0.4338
20' Merphos-A (Merphos)	13.689	13.689 (1.231)		19488	0.50000	0.5025 (A)
21 Chlorpyrifos	14.409	14.409 (0.766)		20746	0.50000	0.4515
22 Fenthion	14.661	14.662 (0.779)		20747	0.50000	0.4869
23 Trichloronate	14.709	14.711 (0.782)		26053	0.50000	0.5238
24 Anilazine	15.213	15.216 (0.809)		2256	0.50000	0.5727 (M)
25 Methyl Parathion	15.519	15.519 (0.825)		20061	0.50000	0.4361
26 Malathion	15.724	15.724 (0.836)		21428	0.50000	0.4972
27 Tokuthion	16.346	16.344 (0.869)		23462	0.50000	0.4650
28 Parathion	16.493	16.494 (0.877)		20700	0.50000	0.4566 (M)
29 Merphos-B (Merphos Oxone)	16.514	16.517 (1.485)		6271	0.50000	0.4377 (AM)
30 Tetrachlorvinphos (stirophos)	16.976	16.977 (0.902)		13089	0.50000	0.4464
31 Carbophenothion methyl	17.081	17.082 (0.908)		18266	0.50000	0.4346
32 Bolstar	17.441	17.440 (0.927)		21910	0.50000	0.4949
33 Carbophenothion	17.521	17.524 (0.931)		20336	0.50000	0.4671 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.279	18.281	(0.972)	15570	0.50000	0.4358
35 Fensulfothion	18.558	18.559	(0.986)	14395	0.50000	0.4388
* 36 TOCP	18.814	18.816	(1.000)	71609	2.00000	
37 Phosmet / EPN	18.908	18.909	(1.005)	35826	1.00000	0.9102
38 Famphur	19.009	19.011	(1.010)	21626	0.50000	0.4604
39 Azinphos-methyl	19.146	19.147	(1.018)	19508	0.50000	0.4540
40 Azinphos-ethyl	19.364	19.366	(1.029)	19984	0.50000	0.4884
41 Coumaphos	20.348	20.347	(1.081)	14618	0.50000	0.4646
S 42 Merphos				25759	0.50000	0.4316
M 43. Total Demeton				23328	0.50000	0.5310

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 008F0801.D
Lab Smp Id: OPP L2 GSV0640
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L2 GSV0640
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	126959	63480	253918	107017	-15.71
36 TOCP	68161	34081	136322	71609	5.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	0.02
36 TOCP	18.82	18.32	19.32	18.81	-0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

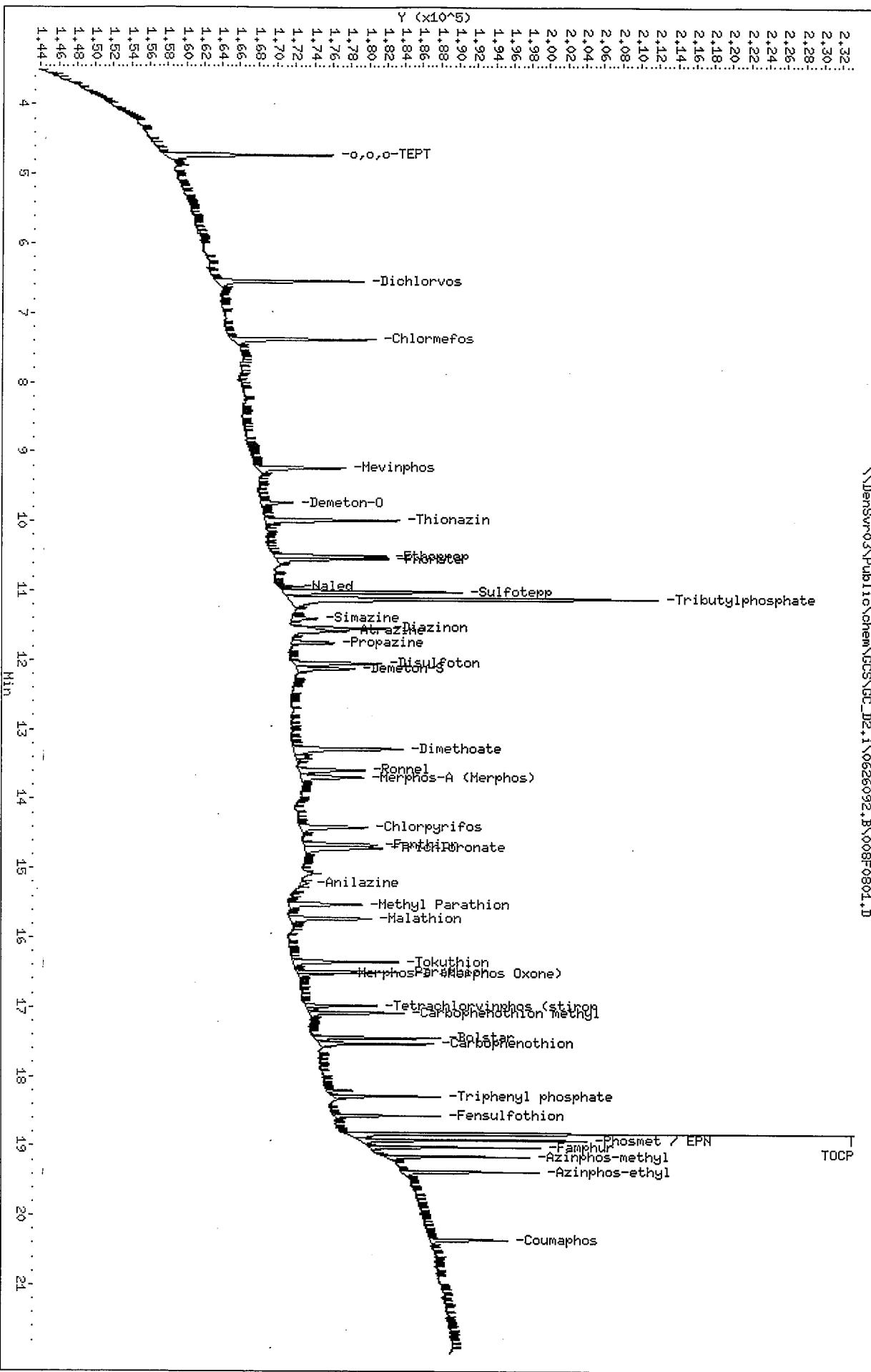
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Instrument: GC_D2.i

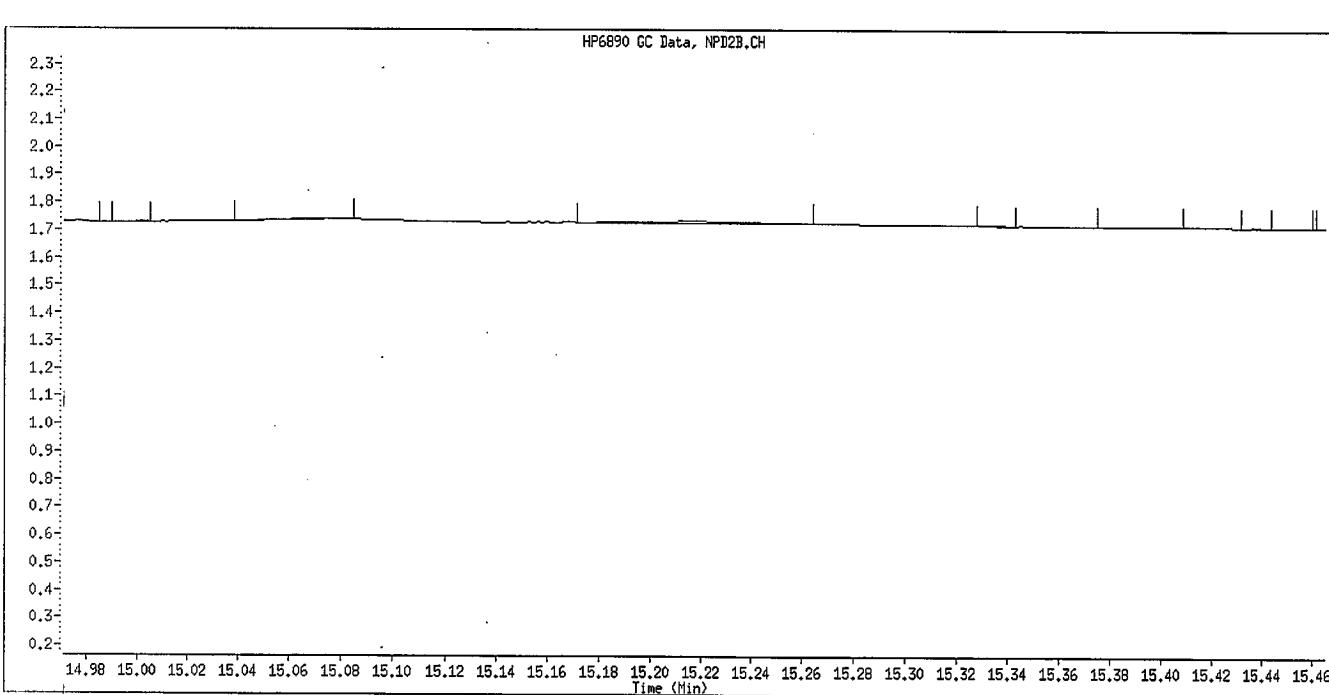
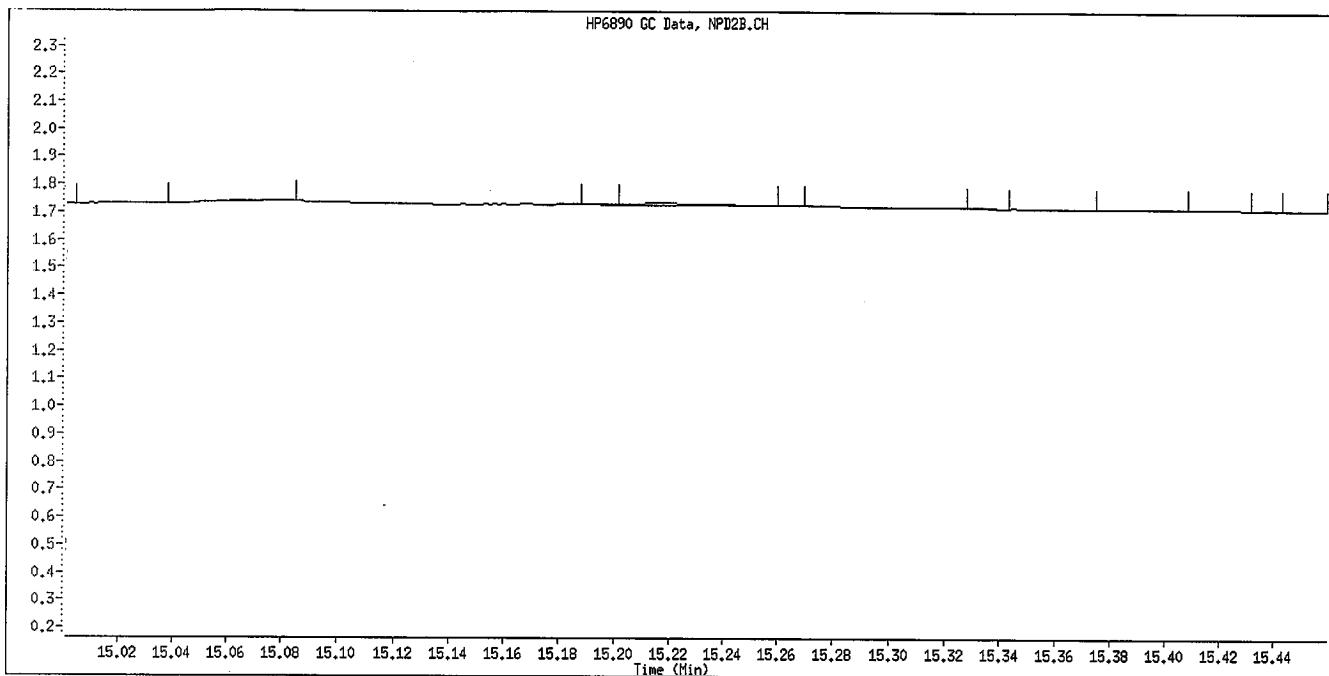
Operator: HKP/TLW
Column diameter: 0.32

\\DensSvr03\Public\chem\GCS\GC_D2.i\\0626092.B\\008F0801.D

Column phase: RTx-OPPest



Data File Name: 008F0801.D
Inj. Date and Time: 26-JUN-2009 20:45
Instrument ID: GC_D2.i
Client ID: OPP L2 GSV0640
Compound Name: Anilazine
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 008F0801.D

Inj. Date and Time: 26-JUN-2009 20:45

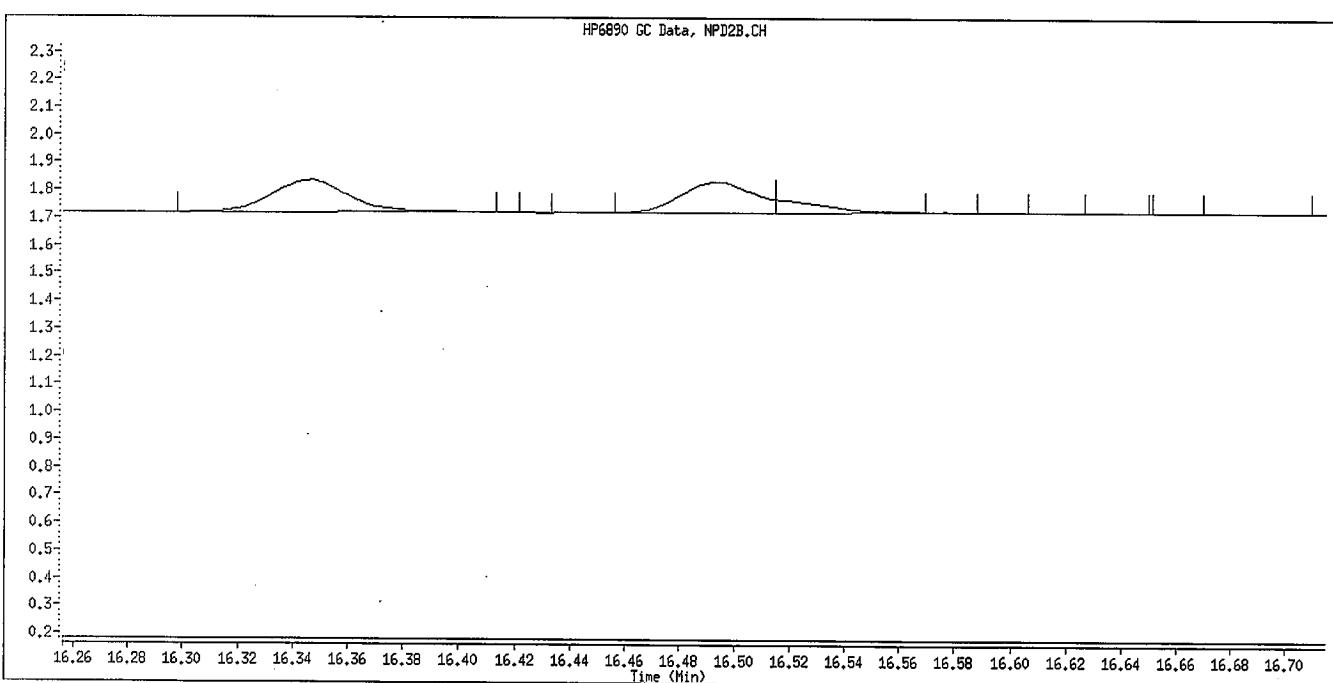
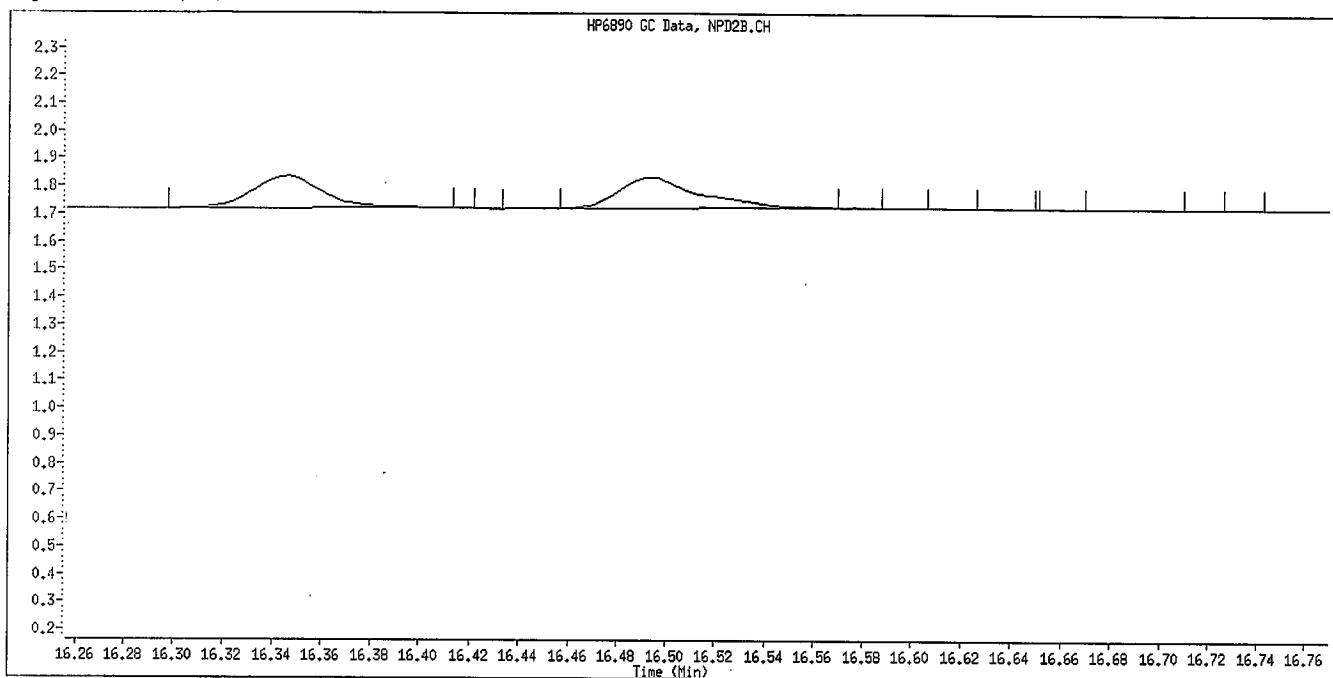
Instrument ID: GC_D2.i

Client ID: OPP L2 GSV0640

Compound Name: Parathion

CAS #:

Report Date: 06/30/2009



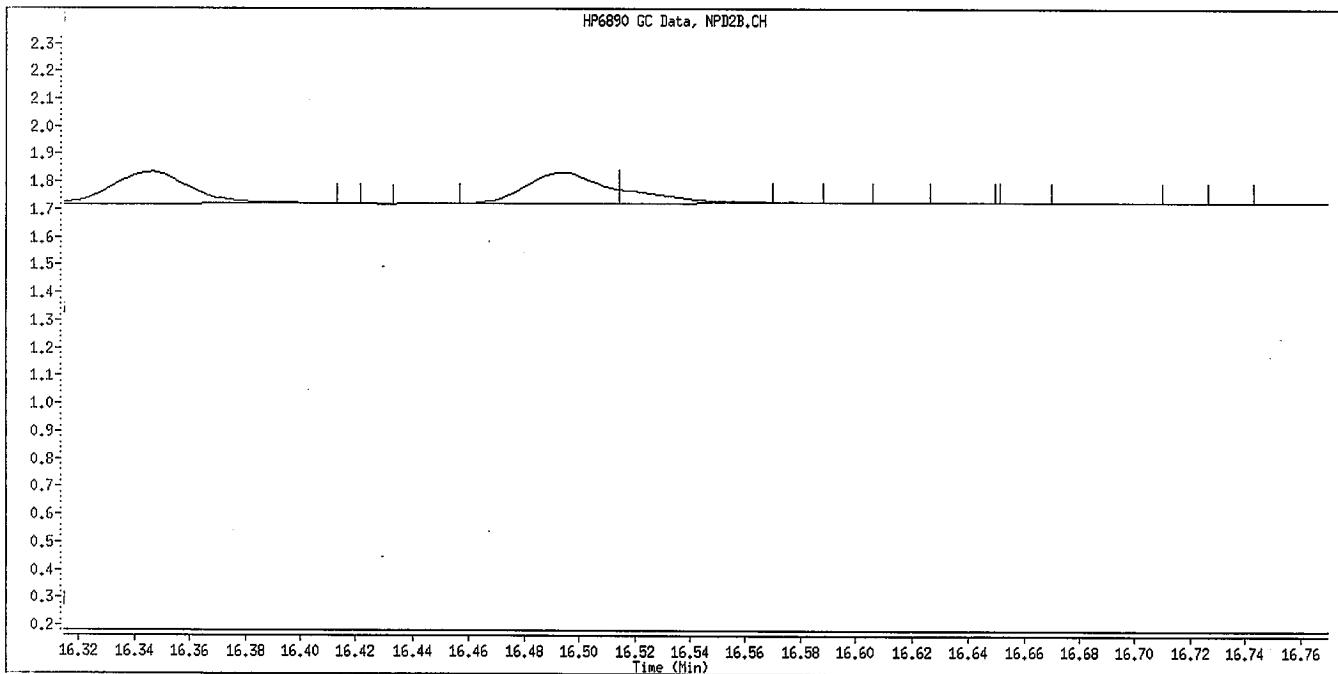
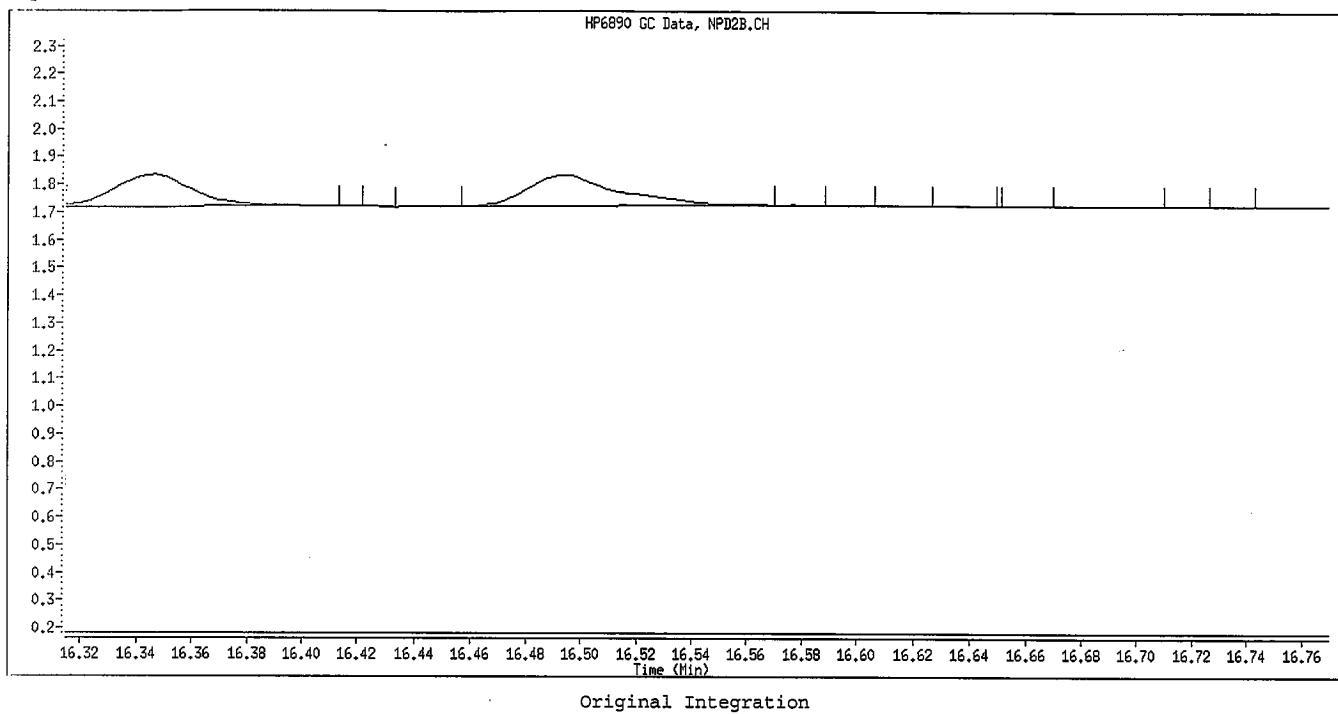
Manual Integration

Manually Integrated By: williamst

Manual Integration Reason: Baseline Event

jl
6/30/09

Data File Name: 008F0801.D
Inj. Date and Time: 26-JUN-2009 20:45
Instrument ID: GC_D2.i
Client ID: OPP L2 GSV0640
Compound Name: Morphos-B (Morphos Oxone)
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\009F0901.D
Lab Smp Id: OPP L1 GSV0641 Client Smp ID: OPP L1 GSV0641
Inj. Date : 26-JUN-2009 21:13
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP L1 GSV0641
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 12:58 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 20:45 Cal File: 008F0801.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.731	4.731 (0.251)		21538	0.20000	0.2262
2 Dichlorvos	6.546	6.546 (0.348)		14456	0.20000	0.1945
\$ 3 Chlormefos	7.382	7.384 (0.392)		16155	0.20000	0.2159
4 Mevinphos	9.236	9.234 (0.491)		10624	0.20000	0.2122
5 Demeton-O	9.737	9.734 (0.518)		2866	0.06500	0.06007
6 Thionazin	9.986	9.984 (0.531)		15885	0.20000	0.2121
7 Ethoprop	10.502	10.499 (0.558)		12514	0.20000	0.2237
8 Phorate	10.537	10.539 (0.560)		13936	0.20000	0.2148
9 Naled	10.939	10.939 (0.581)		94	0.20000	0.2739
10 Sulfotep	11.016	11.017 (0.585)		20595	0.20000	0.2105 (A)
* 11 Tributylphosphate	11.117	11.116 (1.000)		104756	2.00000	
12 Simazine	11.399	11.399 (0.606)		2680	0.20000	0.1912 (A)
13 Diazinon	11.541	11.541 (0.613)		12067	0.20000	0.2561
14 Atrazine	11.581	11.584 (0.615)		5427	0.20000	0.4092 (A)
15 Propazine	11.746	11.747 (0.624)		4880	0.20000	0.2531
16 Disulfoton	12.052	12.049 (0.641)		10273	0.20000	0.1991
17 Demeton-S	12.121	12.124 (0.644)		667	0.13600	0.1293
18 Dimethoate	13.282	13.282 (0.706)		14242	0.20000	0.2059
19 Ronnel	13.587	13.587 (0.722)		10994	0.20000	0.2362
20 Merphos-A (Merphos)	13.689	13.689 (1.231)		7722	0.20000	0.2034 (A)
21 Chlorpyrifos	14.409	14.409 (0.766)		9439	0.20000	0.1999
22 Fenthion	14.661	14.662 (0.779)		8896	0.20000	0.2031
23 Trichloronate	14.709	14.711 (0.782)		6944	0.20000	0.2138
24 Anilazine	15.217	15.216 (0.809)		1634	0.20000	0.4033 (M)
25 Methyl Parathion	15.519	15.519 (0.825)		8934	0.20000	0.1890
26 Malathion	15.724	15.724 (0.836)		9125	0.20000	0.2060
27 Tokuthion	16.344	16.344 (0.869)		11061	0.20000	0.2133
28 Parathion	16.494	16.494 (0.877)		9355	0.20000	0.2008 (M)
29. Merphos-B (Merphos Oxone)	16.512	16.517 (1.485)		3793	0.20000	0.2310 (AM)
30 Tetrachlorvinphos (stirophos)	16.976	16.977 (0.902)		6332	0.20000	0.2101
31 Carbophenothion methyl	17.081	17.082 (0.908)		8575	0.20000	0.1985
32 Bolstar	17.441	17.440 (0.927)		9809	0.20000	0.2156
33 Carbophenothion	17.522	17.524 (0.931)		8717	0.20000	0.1948 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.281	18.281 (0.972)		8167	0.20000	0.2224
35 Fensulfothion	18.559	18.559 (0.986)		6502	0.20000	0.1929
* 36 TOCP	18.816	18.816 (1.000)		73597	2.00000	
37 Phosmet / EPN	18.909	18.909 (1.005)		19707	0.40000	0.4475
38 Famphur	19.012	19.011 (1.010)		10711	0.20000	0.2219
39 Azinphos-methyl	19.149	19.147 (1.018)		9243	0.20000	0.2093
40 Azinphos-ethyl	19.367	19.366 (1.029)		8391	0.20000	0.1995
41 Coumaphos	20.349	20.347 (1.081)		5809	0.20000	0.1796
S 42 Merphos				11515	0.20000	0.1877
M 43 Total Demeton				3533	0.20000	0.1894

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 009F0901.D
Lab Smp Id: OPP L1 GSV0641
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 26-JUN-2009
Calibration Time: 19:50
Client Smp ID: OPP L1 GSV0641
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	126959	63480	253918	104756	-17.49
36 TOCP	68161	34081	136322	73597	7.98

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	0.02
36 TOCP	18.82	18.32	19.32	18.82	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

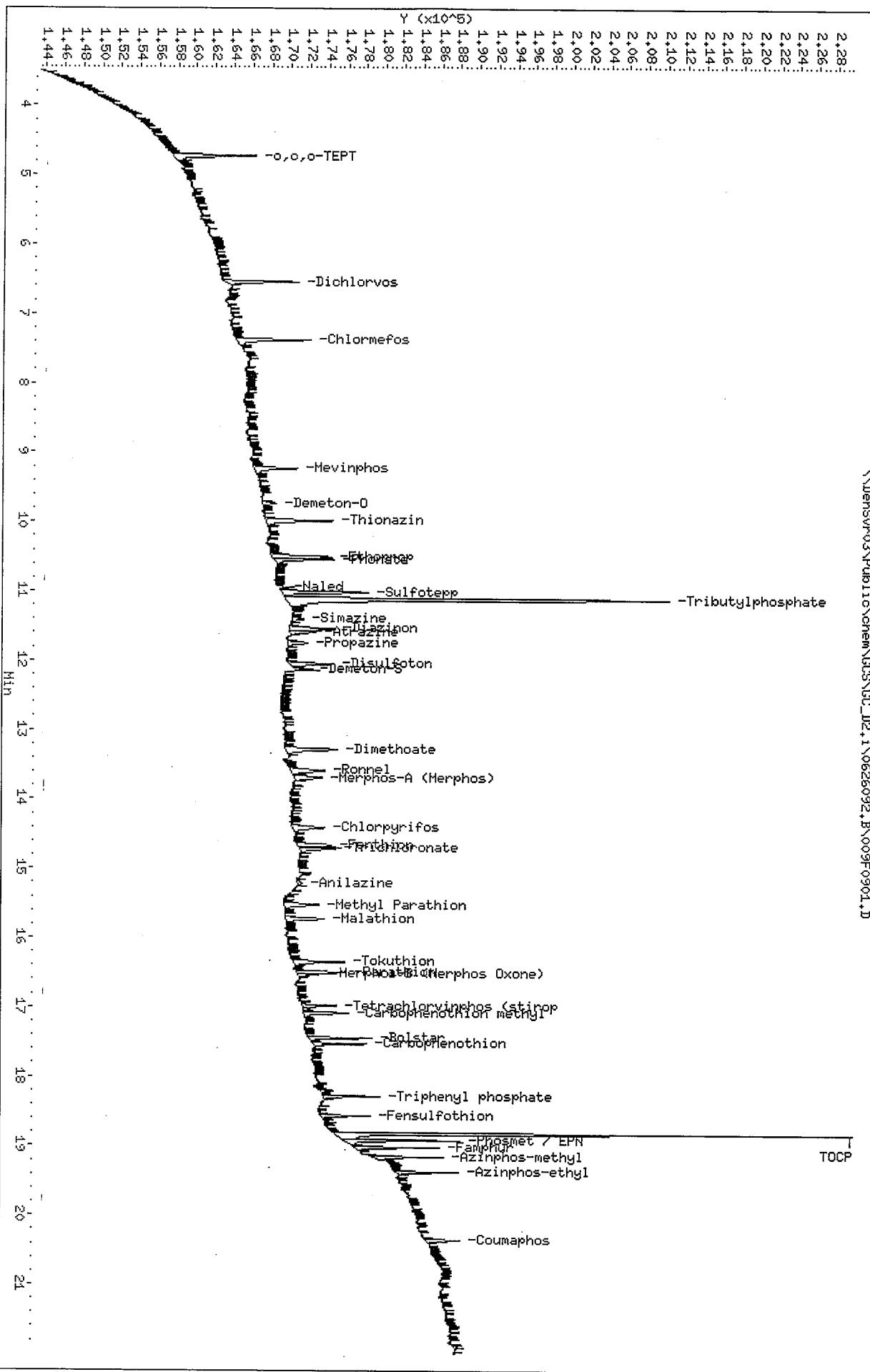
Client ID: OPP L1 GSv0641
Sample Info: OPP L1 GSv0641

Column phase: RTx-OPPest

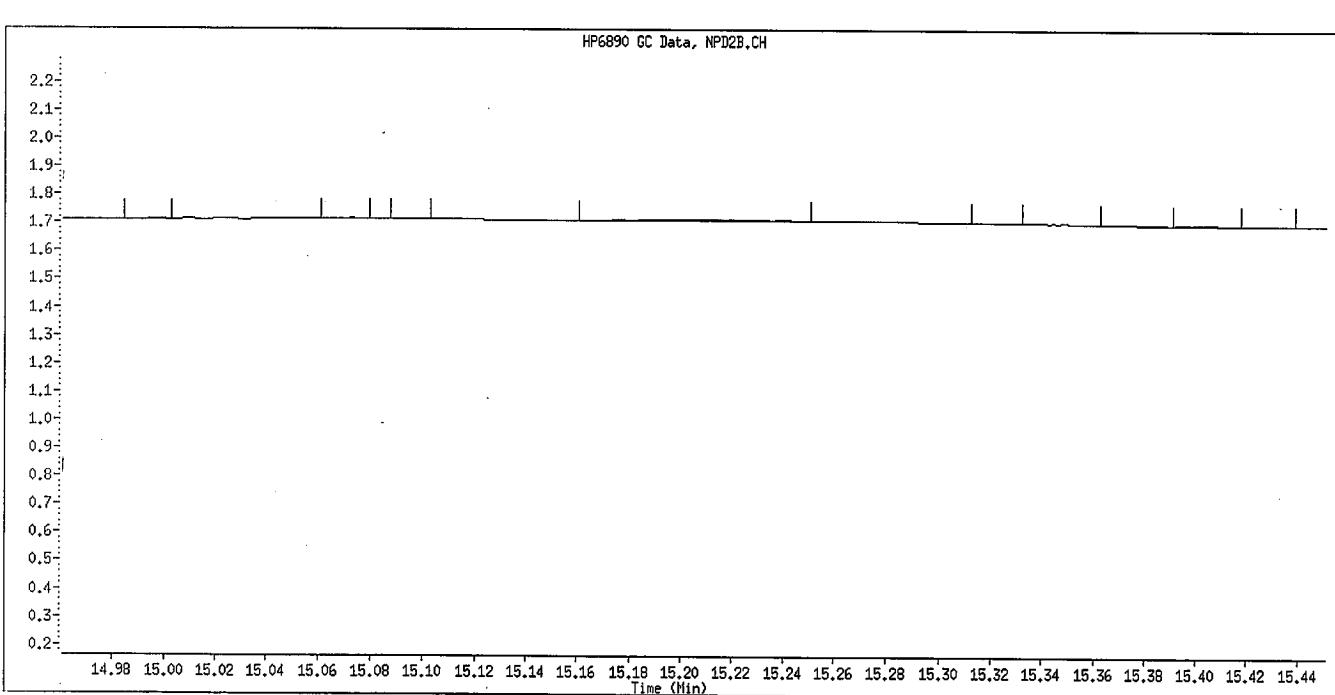
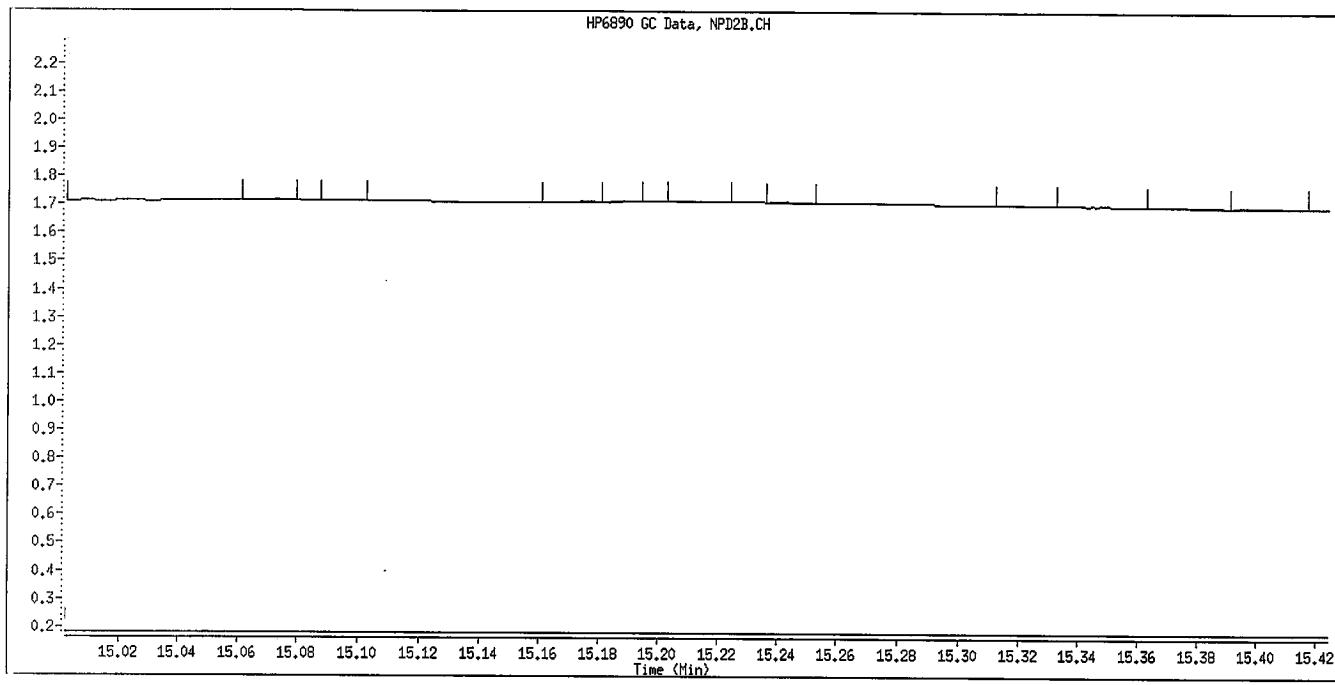
\\DenSvr03\Public\chem\GC\GC_D2.i\0626092.B\009F0901.D

Instrument: GC_D2.i

Operator: HPK\TLW
Column diameter: 0.32



Data File Name: 009F0901.D
Inj. Date and Time: 26-JUN-2009 21:13
Instrument ID: GC_D2.i
Client ID: OPP L1 GSV0641
Compound Name: Anilazine
CAS #:
Report Date: 06/30/2009

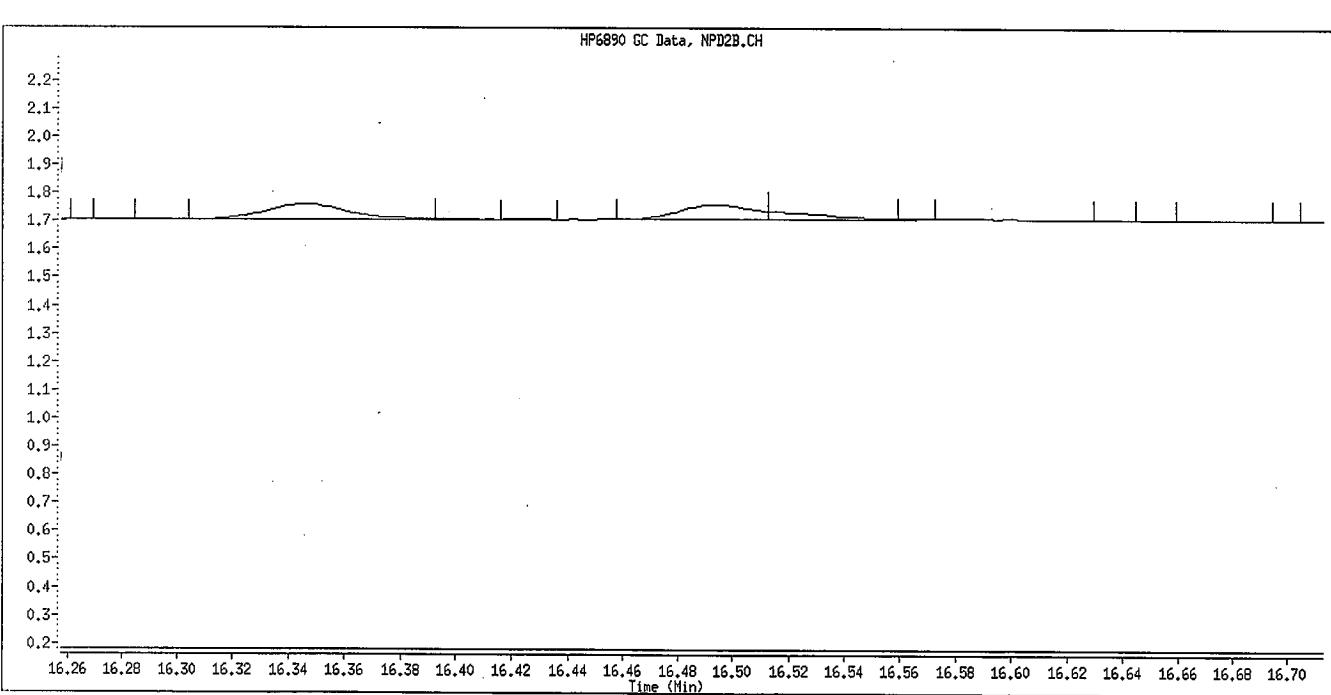
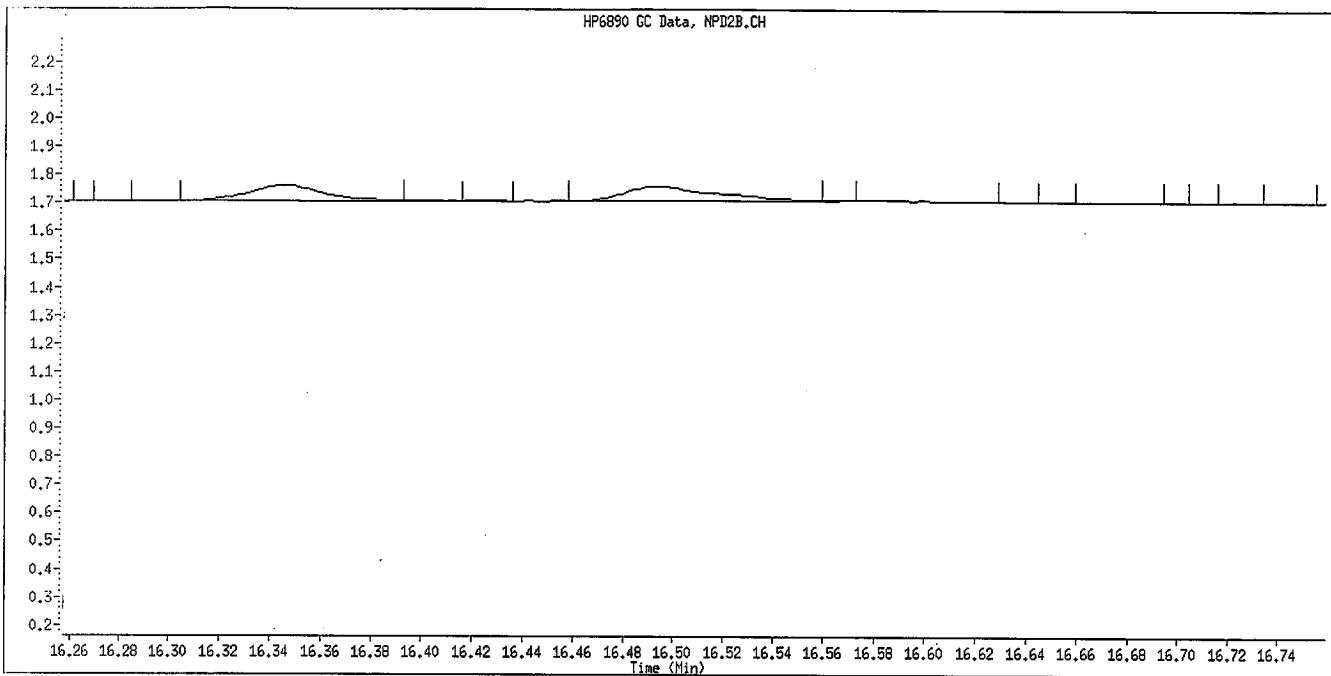


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 26-JUN-2009 21:13
Instrument ID: GC_D2.i
Client ID: OPP L1 GSV0641
Compound Name: Parathion
CAS #:
Report Date: 06/30/2009

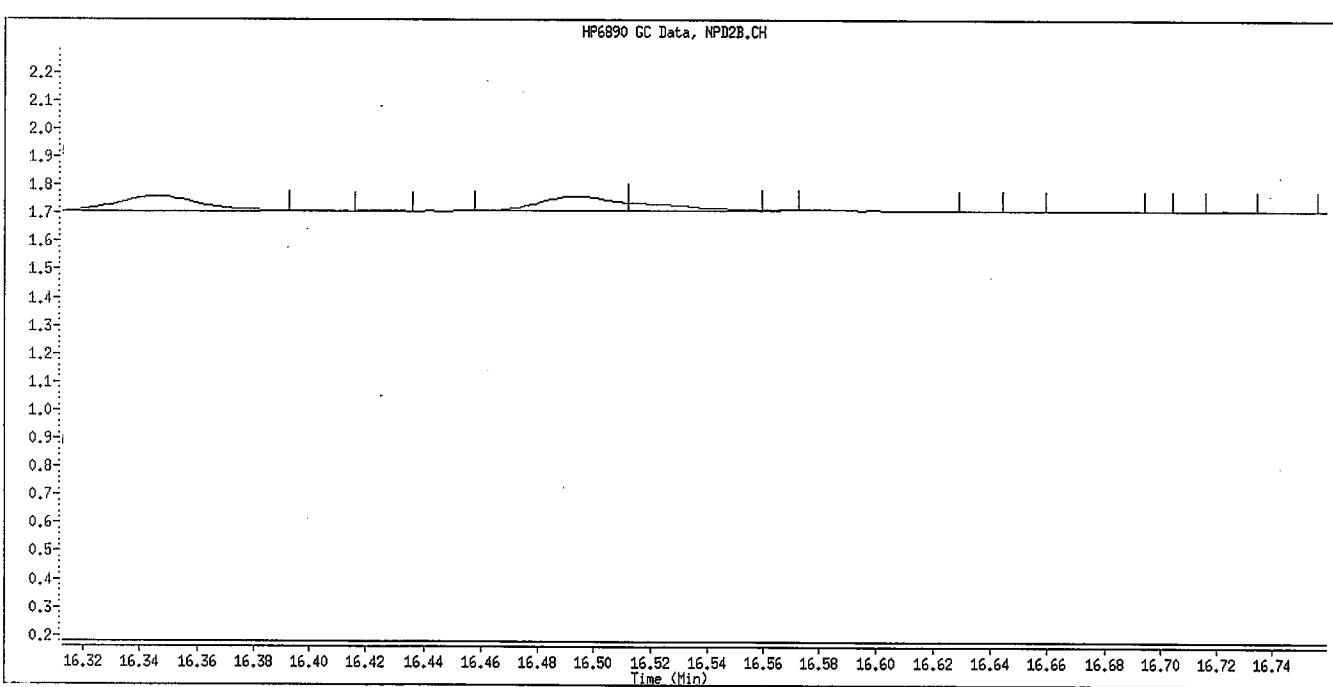
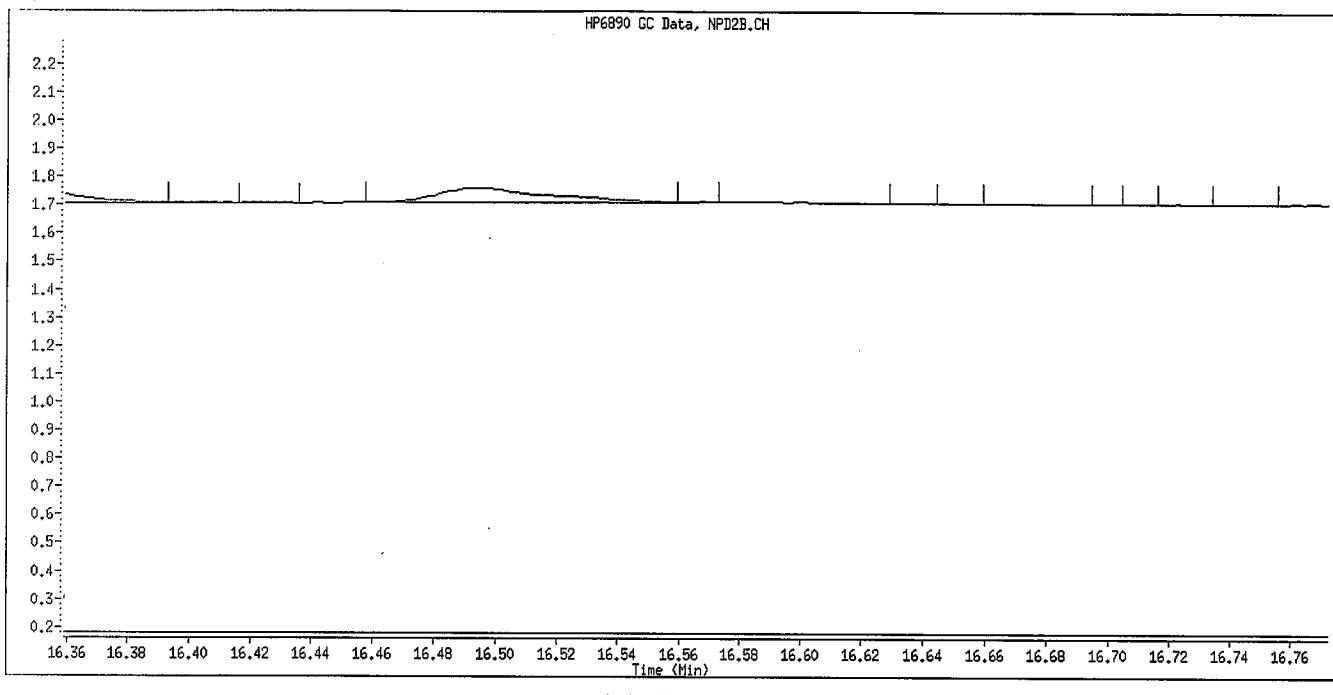


Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 009F0901.D
Inj. Date and Time: 26-JUN-2009 21:13
Instrument ID: GC_D2.i
Client ID: OPP L1 GSV0641
Compound Name: Morphos-B (Morphos Oxone)
CAS #:
Report Date: 06/30/2009



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

TestAmerica

Data file : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\010F1001.D
Lab Smp Id: OPP SS GSV0633 Client Smp ID: OPP SS GSV0633
Inj Date : 26-JUN-2009 21:40
Operator : MPK/TLW Inst ID: GC_D2.i
Smp Info : OPP SS GSV0633
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Meth Date : 30-Jun-2009 13:09 GC_D2.i Quant Type: ISTD
Cal Date : 26-JUN-2009 21:13 Cal File: 009F0901.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 8141A.sub
Target Version: 4.14
Processing Host: DENPC075

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 o,o,o-TEPT	4.728	4.731 (0.251)		178670	2.00000	2.007
2 Dichlorvos	6.545	6.546 (0.348)		123097	2.00000	1.771
\$ 3 Chlormefos	7.383	7.384 (0.392)		118669	2.00000	1.696
4 Mevinphos	9.232	9.234 (0.491)		85996	2.00000	1.836
5 Demeton-O	9.733	9.734 (0.517)		91352	0.65000	2.047
6 Thionazin	9.983	9.984 (0.531)		131360	2.00000	1.876
7 Ethoprop	10.498	10.499 (0.558)		99220	2.00000	1.896
8 Phorate	10.537	10.539 (0.560)		118380	2.00000	1.951
9 Naled	10.938	10.939 (0.581)		13173	2.00000	1.049
10 Sulfotetpp	11.017	11.017 (0.586)		156890	2.00000	1.714 (A)
* 11 Tributylphosphate	11.115	11.116 (1.000)		123933	2.00000	
12 Simazine	11.398	11.399 (0.606)		47205	2.00000	3.601 (A)
13 Diazinon	11.540	11.541 (0.613)		101968	2.00000	2.080
14 Atrazine	11.580	11.584 (0.615)		49851	2.00000	1.969 (A)
15 Propazine	11.745	11.747 (0.624)		42529	2.00000	1.874
16 Disulfoton	12.048	12.049 (0.640)		81906	2.00000	1.697 (M)
17 Demeton-S	12.120	12.124 (0.644)		4990	1.36000	0.2011 (M)
18 Dimethoate	13.280	13.282 (0.706)		120970	2.00000	1.870
19 Ronnel	13.587	13.587 (0.722)		87569	2.00000	2.011
20 Merphos-A (Merphos)	13.687	13.689 (1.231)		24019	2.00000	0.5348 (A)
21 Chlorpyrifos	14.410	14.409 (0.766)		93110	2.00000	2.108
22 Fenthion	14.660	14.662 (0.779)		84515	2.00000	2.063
23 Trichloronate	14.708	14.711 (0.782)		105095	2.00000	1.862
24 Anilazine	15.215	15.216 (0.809)		4699	2.00000	1.242 (M)
25 Methyl Parathion	15.517	15.519 (0.825)		89448	2.00000	2.023 (A)
26 Malathion	15.723	15.724 (0.836)		63638	2.00000	1.536
27 Tokuthion	16.345	16.344 (0.869)		91793	2.00000	1.892
28 Parathion	16.493	16.494 (0.877)		92973	2.00000	2.134
29 Merphos-B (Merphos Oxone)	16.518	16.517 (1.486)		68602	2.00000	5.008 (A)
30 Tetrachlorvinphos (stirophos)	16.975	16.977 (0.902)		58667	2.00000	2.081
31 Carbophenothion methyl	17.080	17.082 (0.908)		50362	2.00000	1.246
32 Bolstar	17.440	17.440 (0.927)		88423	2.00000	2.078
33 Carbophenothion	17.522	17.524 (0.931)		73217	2.00000	1.750 (A)

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/mL)	ON-COL (ug/mL)
\$ 34 Triphenyl phosphate	18.278	18.281 (0.971)		59320	2.00000	1.727
35 Fensulfothion	18.558	18.559 (0.986)		65657	2.00000	2.082
* 36 TOCP	18.815	18.816 (1.000)		68831	2.00000	
37 Phosmet / EPN	18.908	18.909 (1.005)		122970	4.00000	3.469
38 Famphur	19.010	19.011 (1.010)		79361	2.00000	1.758
39 Azinphos-methyl	19.145	19.147 (1.018)		74782	2.00000	1.811
40 Azinphos-ethyl	19.363	19.366 (1.029)		70726	2.00000	1.798
41 Coumaphos	20.347	20.347 (1.081)		59237	2.00000	1.959
S 42 Merphos				92621	2.00000	1.615
M 43 Total Demeton				96342	2.00000	2.248

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

TestAmerica

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: GC_D2.i
Lab File ID: 010F1001.D
Lab Smp Id: OPP SS GSV0633
Analysis Type: SV
Quant Type: ISTD
Operator: MPK/TLW
Method File: \\DenSvr03\Public\chem\GCS\GC_D2.i\0626092.B\8141A-2.m
Misc Info:

Calibration Date: 27-JUN-2009
Calibration Time: 04:04
Client Smp ID: OPP SS GSV0633
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	143401	71701	286802	123933	-13.58
36 TOCP	69335	34668	138670	68831	-0.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
11 Tributylphosphate	11.12	10.62	11.62	11.12	-0.05
36 TOCP	18.82	18.32	19.32	18.82	-0.01

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

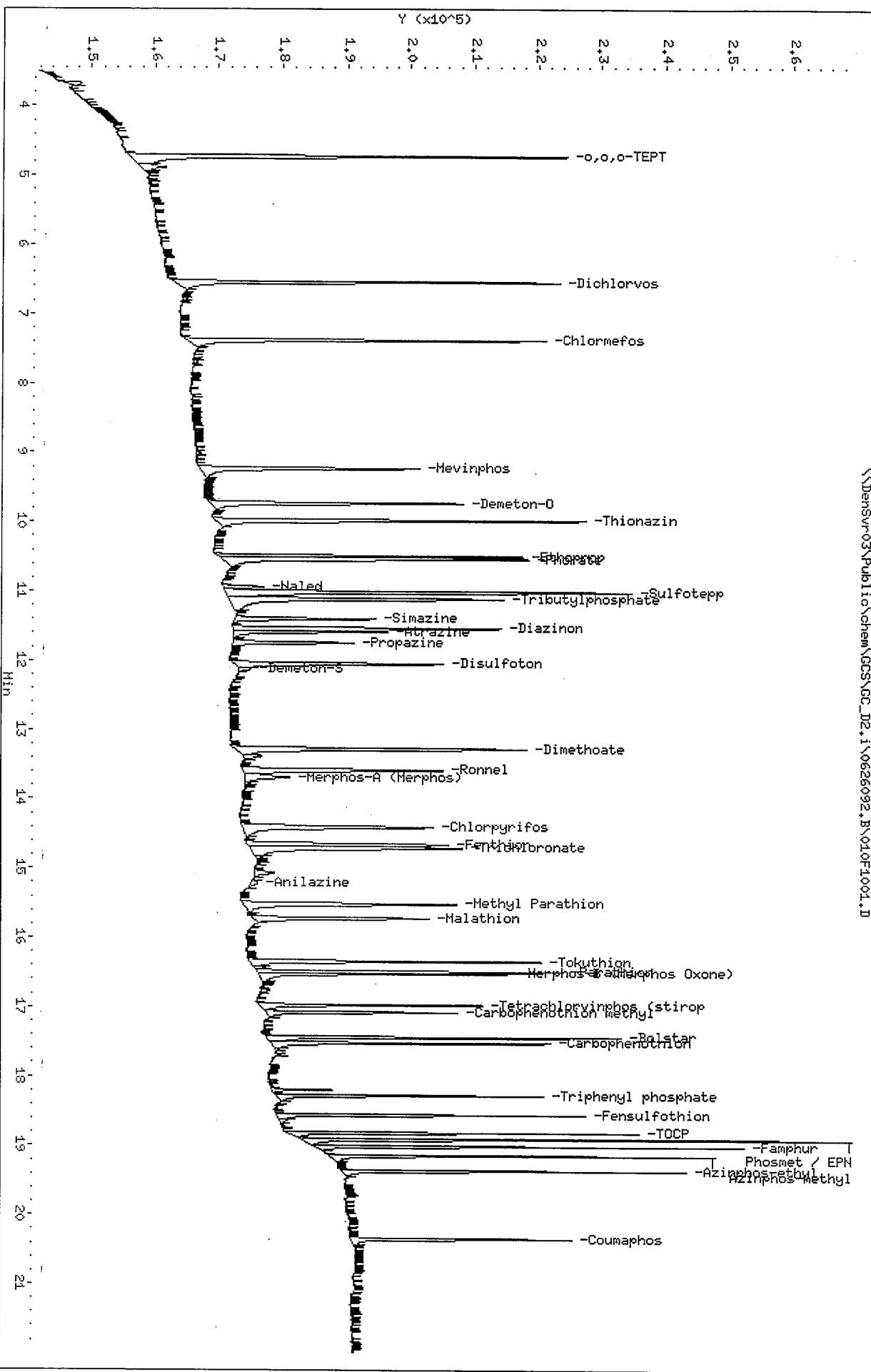
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

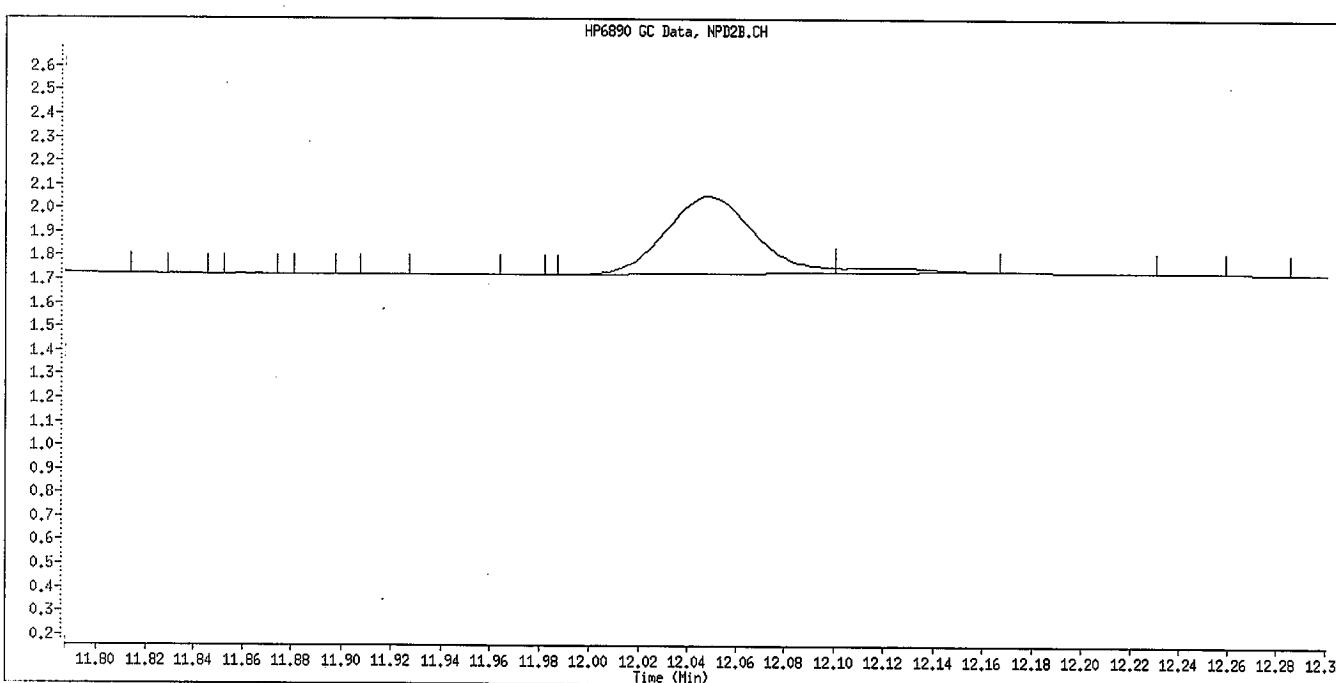
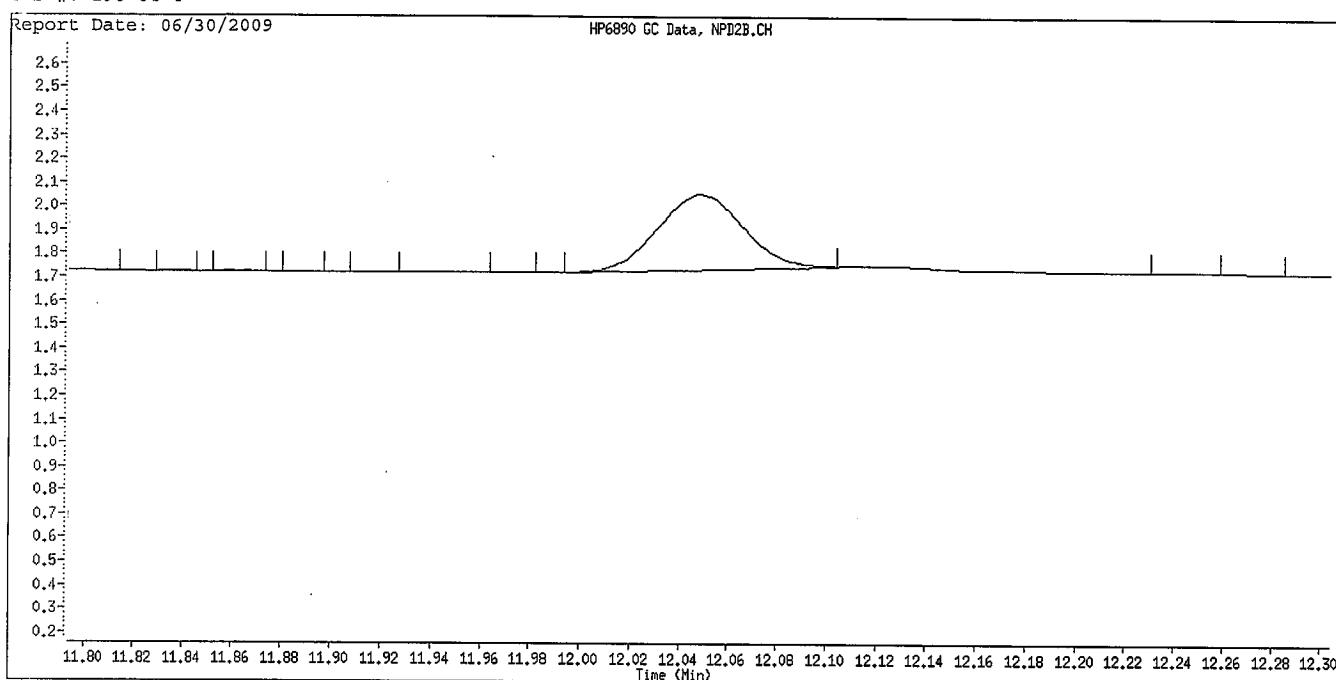
Sample Info: OPP SS GSIV0633
Column phase: RTx-OPPest

Instrument: GC_D2.i
Operator: MPK/TLW
Column diameter: 0.32

\\\DenSurv03\Public\chem\GC\GC_D2.i\0626092.B\010F1001.D



Data File Name: 010F1001.D
Inj. Date and Time: 26-JUN-2009 21:40
Instrument ID: GC_D2.i
Client ID: OPP SS GSV0633
Compound Name: Disulfoton
CAS #: 298-04-4

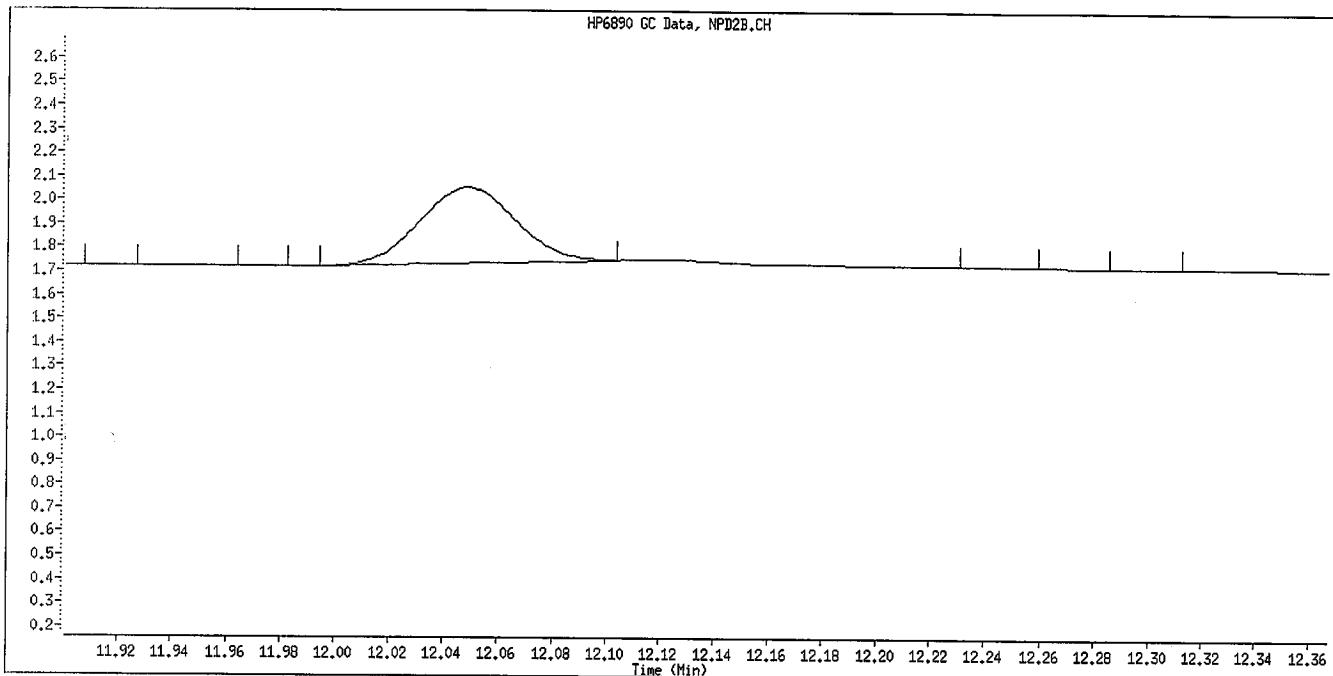


Manual Integration

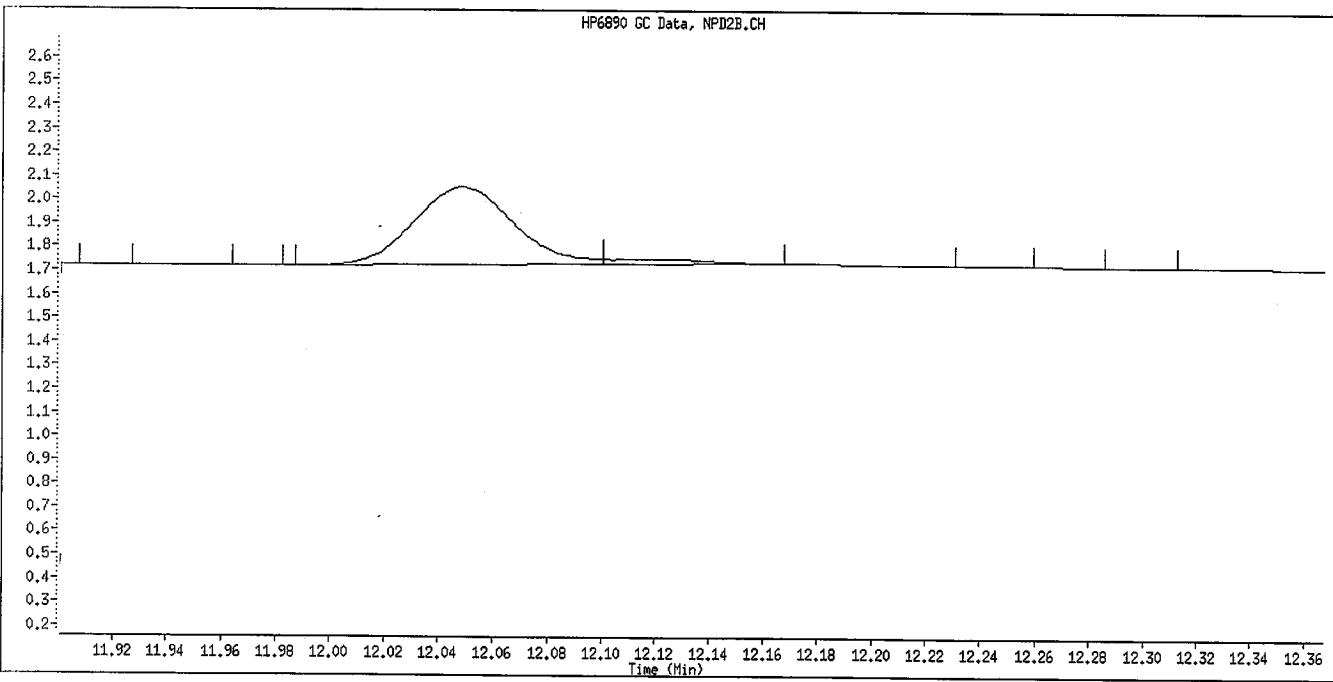
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

2
6/30/09

Data File Name: 010F1001.D
Inj. Date and Time: 26-JUN-2009 21:40
Instrument ID: GC_D2.i
Client ID: OPP SS GSV0633
Compound Name: Demeton-S
CAS #: 126-75-0
Report Date: 06/30/2009



Original Integration

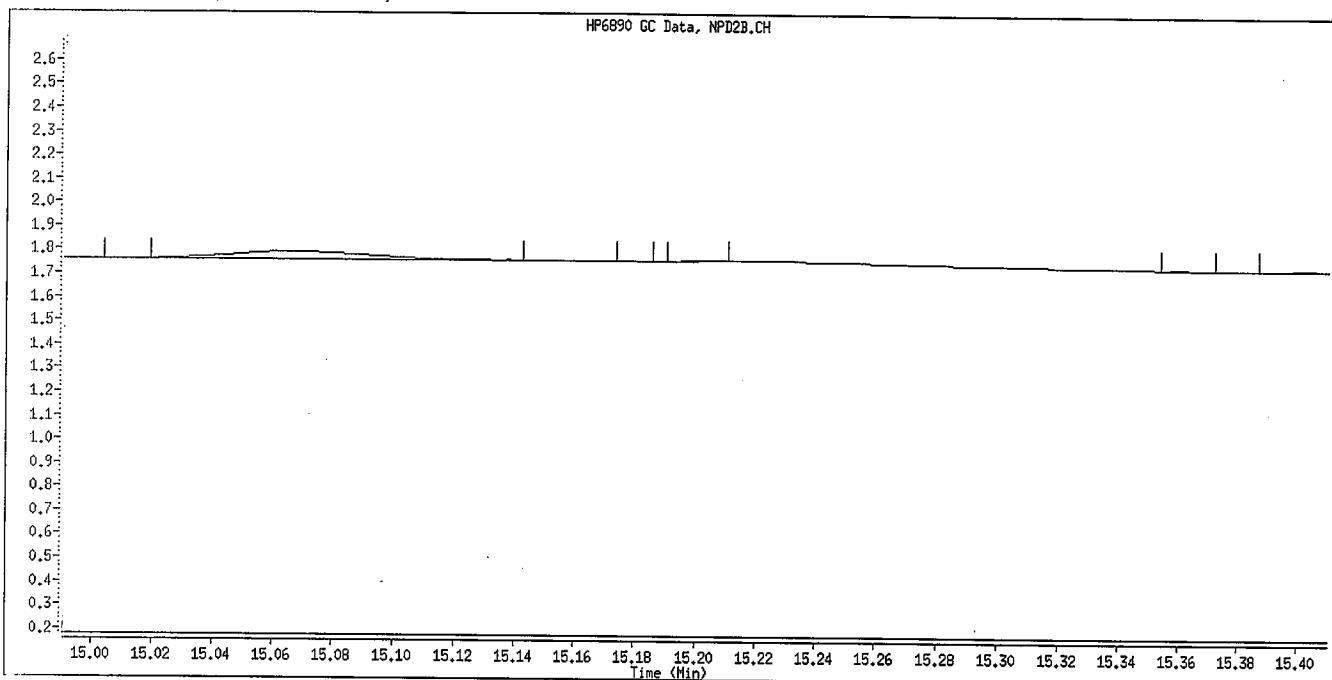


Manual Integration

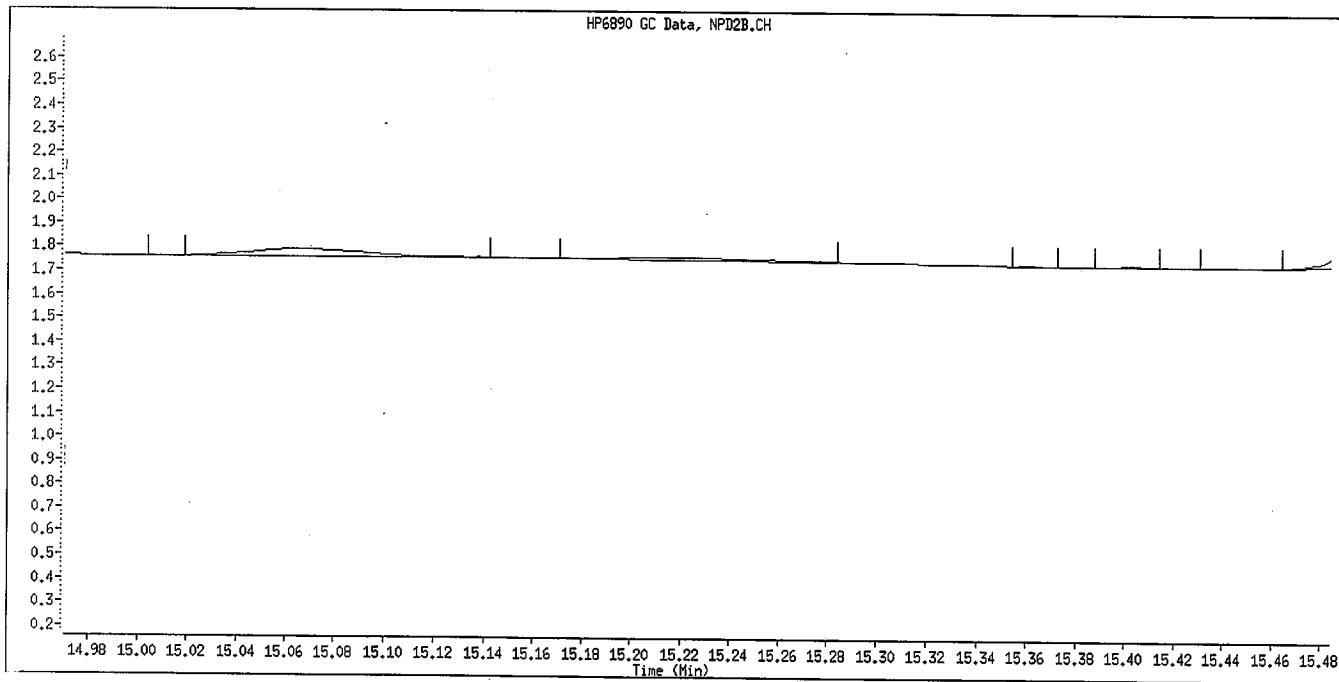
Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Data File Name: 010F1001.D
Inj. Date and Time: 26-JUN-2009 21:40
Instrument ID: GC_D2.i
Client ID: OPP SS GSV0633
Compound Name: Anilazine
CAS #:
Report Date: 06/30/2009



Original Integration



Manual Integration

Manually Integrated By: williamst
Manual Integration Reason: Baseline Event

6/30/09

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts



Lot ID: D96010276

Client: Northgate Environmental

Batch(es) #: 9187169

Associated Samples: /

*I certify that, to the best of my knowledge, the attached package
represents a complete and accurate copy of the original data.*

Signature/Date: R. J. M. 7/8/09

Metals Raw Data RoadMap

<i>LotID</i>		<i>Metal</i>	<i>WorkOrder</i>	<i>Anal Date</i>	<i>TestDesc</i>	<i>Batch</i>	<i>File Id</i>	<i>Instr</i>
D9G010276	1	SE	LFX9W1AD	20090708	6020TOTAL	9187169	AG070709B	024
D9G010276	1	AS	LFX9W1AC	20090708	6020TOTAL	9187169	AG070709B	024

METALS PREPARATION LOGS ICP-MS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By:
JON HARRE

<u>Lot</u>	<u>Work Order</u>		Prep Date:	07/07/09	<u>Initial Weight/Volume</u>
			Due Date:	07/13/09	
D9G060000 Water	LF3X8	B	SDG:		<u>50 mL</u>
D9G060000 Water	LF3X8	C	SDG:		<u>50 mL</u>
D9G010276 Water	LFX9W		SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1		SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1	S	SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1	D	SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T6		SDG: 8304609		<u>50 mL</u>
D9G020227 Water	LF1VJ		SDG: 8304609		<u>50 mL</u>
D9G020227 Water	LF1V5	Total	SDG: 8304609		<u>50 mL</u>

Comments: _____

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

ICPMS ELEMENTS WITHIN THE BATCH:

AS SE

*Not checked
7/7/09*

METALS PREP SHEET

SOP: DEN-IP-0014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH # 9187169
PREP DATE: 7/7/2009

ALLIQUOTTED BY: JRW
DIGESTED BY: JKH

CONSUMABLES USED

Digestion Cups: Manufacturer: Environmental Express **Lot #:** A901LS267

One or more samples were filtered prior to analysis at the instrument. Yes No

If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.

Analyst(s) Initials: _____

STANDARDS USED

Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-2636-09	7/1/10	100uL	15
2008Cal-2	STD-2635-09	7/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	3

TEMPERATURE CYCLES

Thermometer ID: 25894 Block & Cup #: 2,9

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃	6:00	91	10:20	92
HNO ₃	10:30	92	11:00	91
HNO ₃				

Samples and QC revolumed to: 50 mL Analyst's Initials JKH

COMMENTS:

I certify that all information above is correct and complete.

Signature:

Date: 7/7/09

**METALS
SAMPLE DATA
ICP-MS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ICP-MS Standard and Spike True Values

Element	Cal. Std. 100 ppb	Initial Calibration Standard	Continuing Calibration Standard	Interference Check Sample A	Interference Check Sample AB	Laboratory Control Sample and Duplicate	Matrix Spike Sample and Duplicate	Post Digestion Spike
Aluminum	100	40	50	100,000 Aluminum	--	40	40	200
Antimony	100	40	50	100,000 Calcium	100	40	40	200
Arsenic	100	40	50	100,000 Iron	100	40	40	200
Barium	100	40	50	100,000 Magnesium	100	40	40	200
Beryllium	100	40	50	100,000 Sodium	100	40	40	200
Cadmium	100	40	50	100,000 Phosphorus	100	40	40	200
Chromium	100	40	50	100,000 Potassium	100	40	40	200
Cobalt	100	40	50	100,000 Sulfur	100	40	40	200
Copper	100	40	50	200,000 Carbon	100	40	40	200
Lead	100	40	50	1,000,000 Chloride	100	40	40	200
Manganese	100	40	50	2000 Molybdenum	--	40	40	200
Molybdenum	100	40	50	2000 Titanium	100	40	40	200
Nickel	100	40	50		100	40	40	200
Selenium	100	40	50		100	40	40	200
Silver	100	40	50		100	40	40	50
Thallium	100	40	50		100	40	40	200
Tin	100	40	50		100	40	40	200
Uranium	100	40	50		100	40	40	200
Vanadium	100	40	50		100	40	40	200
Zinc	100	40	50		100	40	40	200

All units are
ug/L.

Due to the presence of trace contaminants in the ICSA solution, the % recovery for the ICSAB solution is calculated by subtracting the levels in the ICSA from the ICSAB.

Quality Control Standards

ICV = Initial Calibration Verification (Second Source)
 ICB = Initial Calibration Blank
 CCV = Continuing Calibration Verification
 CCB = Continuing Calibration Blank

TestAmerica Denver

Standards Preparation Logbook Record

Jul-07-2009

Logbook: \\Densvr06\StdsLog\metals.std

STD4841-08, 1000 Zn (Inorganic Ventures)

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-ZN02045 Vendor's Expiration Date: 10-01-2009
Solvent: 2% HNO₃
Date Prep./Opened: 09-04-2008 Date Received: 09-04-2008
Date Expires(1): 10-01-2009 (None)
Date Expires(2): 10-01-2009 (None)
(METALS)-Inventory ID: 779

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	1,000.0	1,000.0

STD6653-08, 1000 Se

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SE02003 Vendor's Expiration Date: 12-01-2009
Solvent: 2% HNO₃
Date Prep./Opened: 11-25-2008 Date Received: 11-25-2008
Date Expires(1): 12-01-2009 (None)
Date Expires(2): 12-01-2009 (None)
(METALS)-Inventory ID: 803

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1,000.0	1,000.0

STD1198-09, 1000 mg/L Sn

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SN02016 Vendor's Expiration Date: 03-01-2010
Solvent: 1% HNO₃
Date Prep./Opened: 03-02-2009 Date Received: 03-02-2009
Date Expires(1): 03-01-2010 (None)
Date Expires(2): 03-01-2010 (None)
(METALS)-Inventory ID: 833

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	1,000.0

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026
Date Prep./Opened: 04-01-2009
Date Expires(1): 12-01-2009 (1 Year)
pipette: Met 21

Parent Std No.: STD3609-09, ICP-MS 10 ppm Zn Aliquot Amount (ml): 1.0000
Parent Date Expires(1): 10-01-2009 Parent Date Expires(2): 10-01-2009
Component Initial Conc (mg/L) Final Conc (mg/L)
1000 Zn 10,000 1,0000

Parent Std No.: STD0664-09, ICPMS Interferent Check Standard	Aliquot Amount (ml): 5.0000	
Parent Date Expires(1): 02-01-2010	Parent Date Expires(2): 02-01-2010	
Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Al	1,000.0	100,000
C	2,000.0	200,000
Ca	1,000.0	100,000
Cl	10,000	1,000,000
Fe	1,000.0	100,000
K	1,000.0	100,000
Mg	1,000.0	100,000
Mo	20,000	2,000,00
Na	1,000.0	100,000
P	1,000.0	100,000
S	1,000.0	100,000
Ti	20,000	2,000,00

STD4041-09, ICP-MS 10 ppm Sn

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022

Volume (ml): 10.000

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009 (1 Day)

Date Expires(2): 03-01-2010 (None)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 21 and Met 8

Parent Std No.: STD1198-09, 1000 mg/L Sn

Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	10.000

STD4042-09, ICP-MS 100 ppb cal

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022

Volume (ml): 50.000

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009 (1 Day)

Date Expires(2): 07-08-2009 (1 Day)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	100.00
Al	20.000	100.00
As	20.000	100.00
Ba	20.000	100.00
Be	20.000	100.00
Cd	20.000	100.00
Co	20.000	100.00
Cr	20.000	100.00
Cu	20.000	100.00
Mn	20.000	100.00
Ni	20.000	100.00
Pb	20.000	100.00
Se	20.000	100.00
Th	20.000	100.00
Tl	20.000	100.00
U	20.000	100.00
V	20.000	100.00
Zn	20.000	100.00

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures

Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	100.00

Fe	1,000.0	2,500.0
Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn	Aliquot Amount (ml): 0.5000	
Parent Date Expires(1): 07-08-2009	Parent Date Expires(2): 03-01-2010	
Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10,000	50,000

Parent Std No.: STD3611-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (mL): 0.0900

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1.0000	0.0090
1000 Zn	1.0000	0.0090

Parent Std No.: STD4042-09, ICP-MS 100 ppb cal Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 07-08-2009

Component	Initial Conc (ug/L)	Final Conc (mg/L)
Ag	100.00	0.0010
Al	100.00	0.0010
As	100.00	0.0010
Ba	100.00	0.0010
Be	100.00	0.0010
Cd	100.00	0.0010
Co	100.00	0.0010
Cr	100.00	0.0010
Cu	100.00	0.0010
Mn	100.00	0.0010
Ni	100.00	0.0010
Pb	100.00	0.0010
Se	100.00	0.0010
Th	100.00	0.0010
Tl	100.00	0.0010
U	100.00	0.0010
V	100.00	0.0010
Zn	100.00	0.0010
Mo	100.00	0.0010
Sb	100.00	0.0010
Fe	5,000.0	0.0500
Sn	100.00	0.0010

STD4045-09, ICP-MS AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (2 Days)
 pipettes: Met 20 and Met 8

Volume (ml): 10.000

Parent Std No.: STD4044-09, ICP-MS RL STD

Aliquot Amount (ml): 2.0000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	0.0090	0.0018
1000 Zn	0.0090	0.0018
Ag	0.0010	0.0002
Al	0.0010	0.0002
As	0.0010	0.0002
Ba	0.0010	0.0002
Be	0.0010	0.0002
Cd	0.0010	0.0002
Co	0.0010	0.0002
Cr	0.0010	0.0002
Cu	0.0010	0.0002
Mn	0.0010	0.0002
Ni	0.0010	0.0002
Pb	0.0010	0.0002
Se	0.0010	0.0002
Th	0.0010	0.0002
Tl	0.0010	0.0002
U	0.0010	0.0002
V	0.0010	0.0002
Zn	0.0010	0.0002
Mo	0.0010	0.0002
Sb	0.0010	0.0002
Fe	0.0500	0.0100
Sn	0.0010	0.0002

STD4046-09, ICP-MS ICSAB

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 21, Met 20, and Met 8

Volume (ml): 10.000

Parent Std No.: STD1978-09, ICPMS Interferent Check Standard

Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 04-01-2010 Parent Date Expires(2): 04-01-2010

Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Al	1,000.0	100,000
C	2,000.0	200,000
Ca	1,000.0	100,000

Cl	10,000	1,000,000
Fe	1,000.0	100,000
K	1,000.0	100,000
Mg	1,000.0	100,000
Mo	20,000	2,000.0
Na	1,000.0	100,000
P	1,000.0	100,000
S	1,000.0	100,000
Ti	20,000	2,000.0

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	100.00
Al	20.000	100.00
As	20.000	100.00
Ba	20.000	100.00
Be	20.000	100.00
Cd	20.000	100.00
Co	20.000	100.00
Cr	20.000	100.00
Cu	20.000	100.00
Mn	20.000	100.00
Ni	20.000	100.00
Pb	20.000	100.00
Se	20.000	100.00
Th	20.000	100.00
Tl	20.000	100.00
U	20.000	100.00
V	20.000	100.00
Zn	20.000	100.00

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.1000
 Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10.000	100.00

STD4047-09, ICPMS LR STD 1000 ppb Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 10.000
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20 and Met 8

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	1,000.0
Al	20.000	1,000.0
As	20.000	1,000.0
Ba	20.000	1,000.0
Be	20.000	1,000.0
Cd	20.000	1,000.0
Co	20.000	1,000.0
Cr	20.000	1,000.0
Cu	20.000	1,000.0
Mn	20.000	1,000.0
Ni	20.000	1,000.0
Pb	20.000	1,000.0
Se	20.000	1,000.0
Th	20.000	1,000.0
Tl	20.000	1,000.0
U	20.000	1,000.0
V	20.000	1,000.0
Zn	20.000	1,000.0

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	1,000.0
Sb	20.000	1,000.0

Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000
 Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10.000	1,000.0

STD4048-09, ICPMS ICV

Analyst: DIAZL

Volume (ml): 10.000

Solvent: 5% HNO3 Lot No.: H12022

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009 (1 Day)

Date Expires(2): 02-27-2010 (None)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 21 and Met 8

Parent Std No.: STD1213-09, ICPMS ICV SOLUTION A (High Purity) Aliquot Amount (ml): 0.0400

Parent Date Expires(1): 02-27-2010 Parent Date Expires(2): 02-27-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Al	10.000	40.000
As	10.000	40.000
Ba	10.000	40.000
Be	10.000	40.000
Cd	10.000	40.000

Co	10.000	40.000
Cr	10.000	40.000
Cu	10.000	40.000
Fe	250.00	1,000.0
Li	10.000	40.000
Mn	10.000	40.000
Ni	10.000	40.000
Pb	10.000	40.000
Se	10.000	40.000
Th	10.000	40.000
Tl	10.000	40.000
U	10.000	40.000
V	10.000	40.000
Zn	10.000	40.000

Parent Std No : STD1214-09, ICPMS ICV SOLUTION B (High Purity) Aliquot Amount (ml): 0.0400

Parent Date Expires(1): 02-27-2010 Parent Date Expires(2): 02-27-2010

Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Ag	10.000	40.000
Mo	10.000	40.000
Sb	10.000	40.000
Sn	10.000	40.000
Zr	10.000	40.000

STD4049-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO₃

Lot No.: H12022

Volume (ml): 50.000

Date Pren./Opened: 07-07-2009

Date Expires(1): 07-08-2009 (1 Day)

pinettes: Met 21 and Met 8

pipettes: Met 21 and Met 3

Parent Std No.: STD1853-09, 1 mg/l Se

Aliquot Amount (ml): 0.1000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1.0000	0.0020

STD4050-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO₃

Lot No.: H12022

Volume (ml): 100.00

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009

Date Expires(1): 07-06-2009 (1 Day)

pipettes: Met 20

pipettes. Met 20

Parent Std No.: STD3106-09, ICP-MS LLCCV 1

Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	0.5000	5.0000
Al	3.0000	30.000
As	0.5000	5.0000

Ba	0.1000	1.0000
Be	0.1000	1.0000
Ca	5.0000	50.000
Cd	0.1000	1.0000
Co	0.1000	1.0000
Cr	0.2000	2.0000
Cu	0.2000	2.0000
Fe	5.0000	50.000
K	10.000	100.00
Mg	5.0000	50.000
Mn	0.1000	1.0000
Na	5.0000	50.000
Ni	0.2000	2.0000
Pb	0.1000	1.0000
Se	0.5000	5.0000
Th	0.2000	2.0000
Tl	0.1000	1.0000
U	0.1000	1.0000
V	0.5000	5.0000
Zn	1.0000	10.000

Parent Std No.: STD3107-09, ICP-MS LLCCV 2

Aliquot Amount (ml): 1.0000

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	0.2000	2.0000
Sb	0.2000	2.0000
Sn	1.0000	10.000

Reviewed By:

LRD

07/07/2009

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
2	Cal Blank			1.0	07/07/09 18:29		<input type="checkbox"/>
3	Cal Blank			1.0	07/07/09 18:32		<input type="checkbox"/>
4	100 ppb			1.0	07/07/09 18:35		<input type="checkbox"/>
5	ICV			1.0	07/07/09 18:38		<input type="checkbox"/>
6	RLIV			1.0	07/07/09 18:40		<input type="checkbox"/>
7	ICB			1.0	07/07/09 18:43		<input type="checkbox"/>
8	RL STD			1.0	07/07/09 18:46		<input type="checkbox"/>
9	AFCEE RL			1.0	07/07/09 18:49		<input type="checkbox"/>
10	ALTSe			1.0	07/07/09 18:51		<input type="checkbox"/>
11	ICSA			1.0	07/07/09 18:54		<input type="checkbox"/>
12	ICSAB			1.0	07/07/09 18:57		<input type="checkbox"/>
13	RINSE			1.0	07/07/09 18:59		<input type="checkbox"/>
14	LR			1.0	07/07/09 19:02		<input type="checkbox"/>
15	RINSE			1.0	07/07/09 19:05		<input type="checkbox"/>
16	CCV			1.0	07/07/09 19:08		<input type="checkbox"/>
17	CCB			1.0	07/07/09 19:10		<input type="checkbox"/>
18	RLCV			1.0	07/07/09 19:13		<input type="checkbox"/>
19	IDL 1			1.0	07/07/09 19:16		<input type="checkbox"/>
20	IDL 2			1.0	07/07/09 19:19		<input type="checkbox"/>
21	IDL 3			1.0	07/07/09 19:21		<input type="checkbox"/>
22	IDL 4			1.0	07/07/09 19:24		<input type="checkbox"/>
23	IDL 5			1.0	07/07/09 19:27		<input type="checkbox"/>
24	IDL 6			1.0	07/07/09 19:30		<input type="checkbox"/>
25	IDL 7			1.0	07/07/09 19:32		<input type="checkbox"/>
26	CCV			1.0	07/07/09 19:35		<input type="checkbox"/>
27	CCB			1.0	07/07/09 19:38		<input type="checkbox"/>
28	RLCV			1.0	07/07/09 19:41		<input type="checkbox"/>
29	LR STD 1			1.0	07/07/09 19:43		<input type="checkbox"/>
30	RINSE			1.0	07/07/09 19:46		<input type="checkbox"/>
31	LR STD 2			1.0	07/07/09 19:49		<input type="checkbox"/>
32	RINSE			1.0	07/07/09 19:52		<input type="checkbox"/>
33	LR STD 3			1.0	07/07/09 19:54		<input type="checkbox"/>
34	RINSE			1.0	07/07/09 19:57		<input type="checkbox"/>
35	LR STD 4			1.0	07/07/09 20:00		<input type="checkbox"/>
36	RINSE			1.0	07/07/09 20:02		<input type="checkbox"/>
37	LR STD Mn			1.0	07/07/09 20:05		<input type="checkbox"/>
38	RINSE			1.0	07/07/09 20:08		<input type="checkbox"/>
39	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 20:10		<input type="checkbox"/>
40	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 20:13		<input type="checkbox"/>
41	LFNQ3	D9F260154-1	9182405	46	1.0 07/07/09 20:16		<input type="checkbox"/>
42	LENTW	D9F260154-2	9182405	46	1.0 07/07/09 20:19	<i>Not 7/8/09 Did not use.</i>	<input type="checkbox"/>
43	CCV				1.0 07/07/09 20:21		<input type="checkbox"/>
44	CCB				1.0 07/07/09 20:24		<input type="checkbox"/>
45	RLCV				1.0 07/07/09 20:27		<input type="checkbox"/>
46	LR STD 1				1.0 07/07/09 20:30		<input type="checkbox"/>
47	RINSE				1.0 07/07/09 20:32		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
48	LR STD 2			1.0	07/07/09 20:35		<input type="checkbox"/>
49	RINSE			1.0	07/07/09 20:38		<input type="checkbox"/>
50	LR STD 3			1.0	07/07/09 20:41		<input type="checkbox"/>
51	RINSE			1.0	07/07/09 20:43		<input type="checkbox"/>
52	LR STD 4			1.0	07/07/09 20:46		<input type="checkbox"/>
53	RINSE			1.0	07/07/09 20:48		<input type="checkbox"/>
54	LR STD Mn			1.0	07/07/09 20:51		<input type="checkbox"/>
55	RINSE			1.0	07/07/09 20:54		<input type="checkbox"/>
56	CCV			1.0	07/07/09 20:57		<input type="checkbox"/>
57	CCB			1.0	07/07/09 20:59		<input type="checkbox"/>
58	RLCV			1.0	07/07/09 21:02		<input type="checkbox"/>
59	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 21:05		<input type="checkbox"/>
60	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 21:08	<i>✓ 7/8/09 Did not use.</i>	<input type="checkbox"/>
61	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 21:13		<input type="checkbox"/>
62	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 21:15		<input type="checkbox"/>
63	LFNQ3	D9F260154-1	9182405	46	1.0 07/07/09 21:18		<input type="checkbox"/>
64	LFNTW	D9F260154-2	9182405	46	1.0 07/07/09 21:21		<input type="checkbox"/>
65	LFNT5	D9F260154-3	9182405	46	1.0 07/07/09 21:24		<input type="checkbox"/>
66	LFNT7	D9F260154-4	9182405	46	1.0 07/07/09 21:26		<input type="checkbox"/>
67	LFNVD	D9F260154-5	9182405	46	1.0 07/07/09 21:29		<input type="checkbox"/>
68	LFNVM	D9F260154-6	9182405	46	1.0 07/07/09 21:32		<input type="checkbox"/>
69	CCV				1.0 07/07/09 21:35		<input type="checkbox"/>
70	CCB				1.0 07/07/09 21:37		<input type="checkbox"/>
71	RLCV				1.0 07/07/09 21:40		<input type="checkbox"/>
72	LFNVT	D9F260154-7	9182405	46	1.0 07/07/09 21:43		<input type="checkbox"/>
73	LFNVW	D9F260154-8	9182405	46	1.0 07/07/09 21:46		<input type="checkbox"/>
74	LFV0G	D9F300202-1	9182405	46	1.0 07/07/09 21:48		<input type="checkbox"/>
75	LFV05	D9F300202-3	9182405	46	1.0 07/07/09 21:51		<input type="checkbox"/>
76	LFV1G	D9F300202-4	9182405	46	1.0 07/07/09 21:54		<input type="checkbox"/>
77	LFV1GP5	D9F300202	9182405		5.0 07/07/09 21:57		<input type="checkbox"/>
78	LFV1GZ	D9F300202-4	9182405		1.0 07/07/09 21:59		<input type="checkbox"/>
79	LFV1GS	D9F300202-4	9182405	46	1.0 07/07/09 22:02		<input type="checkbox"/>
80	LFV1GD	D9F300202-4	9182405	46	1.0 07/07/09 22:05		<input type="checkbox"/>
81	LFV13	D9F300202-5	9182405	46	1.0 07/07/09 22:07		<input type="checkbox"/>
82	CCV				1.0 07/07/09 22:10		<input type="checkbox"/>
83	CCB				1.0 07/07/09 22:13		<input type="checkbox"/>
84	RLCV				1.0 07/07/09 22:16		<input type="checkbox"/>
85	LF1RVB	D9G020000	9183315	MS	1.0 07/07/09 22:19		<input type="checkbox"/>
86	LF1RVC	D9G020000	9183315	MS	1.0 07/07/09 22:21		<input type="checkbox"/>
87	LFXPK 2X	D9G010186-16	9183315	MS	2.0 07/07/09 22:24		<input type="checkbox"/>
88	LFXPKP10	D9G010186	9183315		10.0 07/07/09 22:27		<input type="checkbox"/>
89	LFXPKZ	D9G010186-16	9183315		1.0 07/07/09 22:30		<input type="checkbox"/>
90	LFXPKS 2X	D9G010186-16	9183315	MS	2.0 07/07/09 22:32		<input type="checkbox"/>
91	CCV				1.0 07/07/09 22:35		<input type="checkbox"/>
92	CCB				1.0 07/07/09 22:38		<input type="checkbox"/>
93	RLCV				1.0 07/07/09 22:41		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
94	LFXPKD 2X	D9G010186-16	9183315	MS	2.0	07/07/09 22:43	
95	LFXPL 2X	D9G010186-17	9183315	MS	2.0	07/07/09 22:46	
96	LFXPM 2X	D9G010186-18	9183315	MS	2.0	07/07/09 22:49	
97	LFXPN 2X	D9G010186-19	9183315	MS	2.0	07/07/09 22:52	
98	LFXPP 2X	D9G010186-20	9183315	MS	2.0	07/07/09 22:55	
99	LFXPQ 2X	D9G010186-21	9183315	MS	2.0	07/07/09 22:57	
100	CCV				1.0	07/07/09 23:00	
101	CCB				1.0	07/07/09 23:03	
102	RLCV				1.0	07/07/09 23:06	
103	LF3W3B	D9G060000	9187133	MS	1.0	07/07/09 23:08	
104	LF3W3C	D9G060000	9187133	MS	1.0	07/07/09 23:11	
105	LF1JL	D9G020188-1	9187133	MS	1.0	07/07/09 23:14	
106	LF1KR	D9G020188-2	9187133	MS	1.0	07/07/09 23:17	- Take all but Mn. <i>7/8/09</i>
107	LF1KT	D9G020188-3	9187133	MS	1.0	07/07/09 23:19	
108	LF1KW	D9G020188-4	9187133	MS	1.0	07/07/09 23:22	
109	LF1KX	D9G020188-5	9187133	MS	1.0	07/07/09 23:25	
110	LF1K1	D9G020188-6	9187133	MS	1.0	07/07/09 23:28	
111	LF1K2	D9G020188-7	9187133	MS	1.0	07/07/09 23:30	
112	CCV				1.0	07/07/09 23:33	
113	CCB				1.0	07/07/09 23:36	
114	RLCV				1.0	07/07/09 23:39	
115	LF1K3	D9G020188-8	9187133	MS	1.0	07/07/09 23:42	
116	LF1K6	D9G020188-9	9187133	MS	1.0	07/07/09 23:44	
117	LF1NP	D9G020199-1	9187133	MS	1.0	07/07/09 23:47	
118	LF1NPP5	D9G020199	9187133		5.0	07/07/09 23:50	
119	LF1NPZ	D9G020199-1	9187133		1.0	07/07/09 23:53	
120	LF1NPS	D9G020199-1	9187133	MS	1.0	07/07/09 23:55	
121	LF1NPD	D9G020199-1	9187133	MS	1.0	07/07/09 23:58	
122	LF165	D9G020272-1	9187133	MS	1.0	07/08/09 00:01	
123	LF18E	D9G020272-2	9187133	MS	1.0	07/08/09 00:04	
124	CCV				1.0	07/08/09 00:07	
125	CCB				1.0	07/08/09 00:09	
126	RLCV				1.0	07/08/09 00:12	
127	RINSE				1.0	07/08/09 00:15	
128	RINSE				1.0	07/08/09 00:18	
129	RINSE				1.0	07/08/09 00:20	
130	RINSE				1.0	07/08/09 00:23	
131	RINSE				1.0	07/08/09 00:26	
132	RINSE				1.0	07/08/09 00:28	
133	Cal Blank				1.0	07/08/09 00:31	<i>Not 7/8/09 Did not use.</i>
134	Cal Blank				1.0	07/08/09 00:34	
135	100 ppb				1.0	07/08/09 00:37	
136	CCV				1.0	07/08/09 00:39	
137	CCB				1.0	07/08/09 00:42	
138	RLCV				1.0	07/08/09 00:45	
139	LF3WAB	D9G060000	9187106	04	1.0	07/08/09 00:48	

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
140	LF3WAC	D9G060000	9187106	04	1.0 07/08/09 00:51		<input type="checkbox"/>
141	LFXTT	D9G010202-1	9187106	04	1.0 07/08/09 00:53		<input type="checkbox"/>
142	LF1JG	D9G020189-1	9187106	04	1.0 07/08/09 00:56		<input type="checkbox"/>
143	LF1KV	D9G020189-3	9187106	04	1.0 07/08/09 00:59		<input type="checkbox"/>
144	LF1K5	D9G020189-5	9187106	04	1.0 07/08/09 01:02		<input type="checkbox"/>
145	LF1LC	D9G020189-7	9187106	04	1.0 07/08/09 01:04		<input type="checkbox"/>
146	LF1LF	D9G020189-9	9187106	04	1.0 07/08/09 01:07		<input type="checkbox"/>
147	CCV				1.0 07/08/09 01:10		<input type="checkbox"/>
148	CCB				1.0 07/08/09 01:13		<input type="checkbox"/>
149	RLCV				1.0 07/08/09 01:16		<input type="checkbox"/>
150	LF1LK	D9G020189-11	9187106	04	1.0 07/08/09 01:18		<input type="checkbox"/>
151	LF1LN	D9G020189-13	9187106	04	1.0 07/08/09 01:21		<input type="checkbox"/>
152	LF1LNP5	D9G020189	9187106		5.0 07/08/09 01:24		<input type="checkbox"/>
153	LF1LNZ	D9G020189-13	9187106		1.0 07/08/09 01:27		<input type="checkbox"/>
154	LF1LNS	D9G020189-13	9187106	04	1.0 07/08/09 01:29		<input type="checkbox"/>
155	LF1LND	D9G020189-13	9187106	04	1.0 07/08/09 01:32		<input type="checkbox"/>
156	LF1LT	D9G020189-15	9187106	04	1.0 07/08/09 01:35		<input type="checkbox"/>
157	LF1LW	D9G020189-17	9187106	04	1.0 07/08/09 01:38		<input type="checkbox"/>
158	CCV				1.0 07/08/09 01:40		<input type="checkbox"/>
159	CCB				1.0 07/08/09 01:43		<input type="checkbox"/>
160	RLCV				1.0 07/08/09 01:46		<input type="checkbox"/>
161	LF315BF	D9G060000	9187204	MD	1.0 07/08/09 01:49		<input type="checkbox"/>
162	LF315CF	D9G060000	9187204	MD	1.0 07/08/09 01:51		<input type="checkbox"/>
163	LF1XCF	D9G020230-9	9187204	MD	1.0 07/08/09 01:54		<input type="checkbox"/>
164	LF1XFF	D9G020230-10	9187204	MD	1.0 07/08/09 01:57		<input type="checkbox"/>
165	LF1XHF	D9G020230-11	9187204	MD	1.0 07/08/09 02:00		<input type="checkbox"/>
166	LF1XHP5F	D9G020230	9187204		5.0 07/08/09 02:02		<input type="checkbox"/>
167	LF1XHZF	D9G020230-11	9187204		1.0 07/08/09 02:05		<input type="checkbox"/>
168	LF1XHSF	D9G020230-11	9187204	MD	1.0 07/08/09 02:08		<input type="checkbox"/>
169	LF1XHDF	D9G020230-11	9187204	MD	1.0 07/08/09 02:11		<input type="checkbox"/>
170	CCV				1.0 07/08/09 02:13		<input type="checkbox"/>
171	CCB				1.0 07/08/09 02:16		<input type="checkbox"/>
172	RLCV				1.0 07/08/09 02:19		<input type="checkbox"/>
173	LF30GBF	D9G060000	9187175	MD	1.0 07/08/09 02:22		<input type="checkbox"/>
174	LF30GCF	D9G060000	9187175	MD	1.0 07/08/09 02:25		<input type="checkbox"/>
175	LF1T5F 10X	D9G020221-2	9187175	MD	10.0 07/08/09 02:27		<input type="checkbox"/>
176	LF1WAF 10X	D9G020227-3	9187175	MD	10.0 07/08/09 02:30		<input type="checkbox"/>
177	LF1WAP50F	D9G020227	9187175		50.0 07/08/09 02:33		<input type="checkbox"/>
178	LF1WAZF	D9G020227-3	9187175		1.0 07/08/09 02:36		<input type="checkbox"/>
179	LF1WASF 10	D9G020227-3	9187175	MD	10.0 07/08/09 02:38		<input type="checkbox"/>
180	LF1WADF 10	D9G020227-3	9187175	MD	10.0 07/08/09 02:41		<input type="checkbox"/>
181	CCV				1.0 07/08/09 02:44		<input type="checkbox"/>
182	CCB				1.0 07/08/09 02:47		<input type="checkbox"/>
183	RLCV				1.0 07/08/09 02:49		<input type="checkbox"/>
184	RINSE				1.0 07/08/09 02:52		<input type="checkbox"/>
185	RINSE				1.0 07/08/09 02:55	✓ 7/8/09	<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
186	RINSE			1.0	07/08/09 02:58		
187	RINSE			1.0	07/08/09 03:00		
188	RINSE			1.0	07/08/09 03:03		
189	RINSE			1.0	07/08/09 03:06		
190	Cal Blank			1.0	07/08/09 03:09	✓ 7/8/09	
191	Cal Blank			1.0	07/08/09 03:11		
192	100 ppb			1.0	07/08/09 03:14		
193	CCV			1.0	07/08/09 03:17		
194	CCB			1.0	07/08/09 03:20		
195	RLCV			1.0	07/08/09 03:22		
196	LF3X8B	D9G060000	9187169	MS	1.0	07/08/09 03:25	
197	LF3X8C	D9G060000	9187169	MS	1.0	07/08/09 03:28	
198	LFX9W 10X	D9G010276-1	9187169	MS	10.0	07/08/09 03:31	
199	LF1T1 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:33	
200	LF1T1P50	D9G020221	9187169		50.0	07/08/09 03:36	
201	LF1T1Z	D9G020221-1	9187169		1.0	07/08/09 03:39	
202	CCV				1.0	07/08/09 03:42	
203	CCB				1.0	07/08/09 03:44	
204	RLCV				1.0	07/08/09 03:47	
205	LF1T1S 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:50	
206	LF1T1D 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:53	
207	LF1T6 10X	D9G020221-3	9187169	MS	10.0	07/08/09 03:56	
208	LF1VJ 10X	D9G020227-1	9187169	MS	10.0	07/08/09 03:58	
209	LF1V5 10X	D9G020227-2	9187169	MS	10.0	07/08/09 04:01	
210	CCV				1.0	07/08/09 04:04	
211	CCB				1.0	07/08/09 04:07	
212	RLCV				1.0	07/08/09 04:09	
213	RINSE				1.0	07/08/09 04:12	
214	RINSE				1.0	07/08/09 04:15	
215	RINSE				1.0	07/08/09 04:18	
216	RINSE				1.0	07/08/09 04:20	
217	RINSE				1.0	07/08/09 04:23	
218	RINSE				1.0	07/08/09 04:26	
219	Cal Blank				1.0	07/08/09 04:29	✓ 7/8/09
220	Cal Blank				1.0	07/08/09 04:31	
221	100 ppb				1.0	07/08/09 04:34	
222	CCV				1.0	07/08/09 04:37	
223	CCB				1.0	07/08/09 04:40	
224	RLCV				1.0	07/08/09 04:42	
225	LF31NB	D9G060000	9187199	46	1.0	07/08/09 04:45	
226	LF31NC	D9G060000	9187199	46	1.0	07/08/09 04:48	
227	LF0NV	D9G010332-7	9187199	46	1.0	07/08/09 04:51	
228	LF0NVP5	D9G010332	9187199		5.0	07/08/09 04:54	
229	LF0NVZ	D9G010332-7	9187199		1.0	07/08/09 04:56	
230	LF0NVS	D9G010332-7	9187199	46	1.0	07/08/09 04:59	
231	LF0NVD	D9G010332-7	9187199	46	1.0	07/08/09 05:02	

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

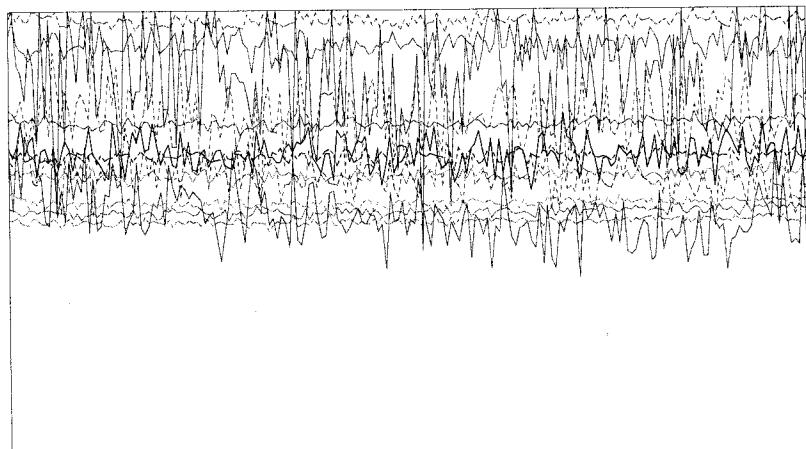
File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
232	CCV			1.0	07/08/09 05:05		<input type="checkbox"/>
233	CCB			1.0	07/08/09 05:07		<input type="checkbox"/>
234	RLCV			1.0	07/08/09 05:10		<input type="checkbox"/>
235	LF31XB	D9G060000	9187202	46	1.0 07/08/09 05:13		<input type="checkbox"/>
236	LF31XC	D9G060000	9187202	46	1.0 07/08/09 05:16		<input type="checkbox"/>
237	LF2FT	D9G020311-1	9187202	46	1.0 07/08/09 05:19		<input type="checkbox"/>
238	LF2FTP5	D9G020311	9187202		5.0 07/08/09 05:21		<input type="checkbox"/>
239	LF2FTZ	D9G020311-1	9187202		1.0 07/08/09 05:24	- Take all but Ni. <i>7/8/09</i>	<input type="checkbox"/>
240	LF2FTS	D9G020311-1	9187202	46	1.0 07/08/09 05:27		<i>7/8/09</i> <input type="checkbox"/>
241	LF2FTD	D9G020311-1	9187202	46	1.0 07/08/09 05:30		<input type="checkbox"/>
242	CCV				1.0 07/08/09 05:33		<input type="checkbox"/>
243	CCB				1.0 07/08/09 05:35		<input type="checkbox"/>
244	RLCV				1.0 07/08/09 05:38		<input type="checkbox"/>
245	LF2JL	D9G020311-2	9187202	46	1.0 07/08/09 05:41		<input type="checkbox"/>
246	LF2JQ	D9G020311-3	9187202	46	1.0 07/08/09 05:44		<input type="checkbox"/>
247	LF2J3	D9G020311-4	9187202	46	1.0 07/08/09 05:46		<input type="checkbox"/>
248	LF2J5	D9G020311-5	9187202	46	1.0 07/08/09 05:49		<input type="checkbox"/>
249	LF2KJ	D9G020311-6	9187202	46	1.0 07/08/09 05:52		<input type="checkbox"/>
250	LF2KN	D9G020311-7	9187202	46	1.0 07/08/09 05:55		<input type="checkbox"/>
251	LF2KT	D9G020311-8	9187202	46	1.0 07/08/09 05:58		<input type="checkbox"/>
252	CCV				1.0 07/08/09 06:00		<input type="checkbox"/>
253	CCB				1.0 07/08/09 06:03		<input type="checkbox"/>
254	RLCV				1.0 07/08/09 06:06		<input type="checkbox"/>
255	LF2FT	D9G020311-1	9187202	46	1.0 07/08/09 06:09		<input type="checkbox"/>
256	LF2FTS	D9G020311-1	9187202	46	1.0 07/08/09 06:12		<input type="checkbox"/>
257	LF2FTD	D9G020311-1	9187202	46	1.0 07/08/09 06:14		<input type="checkbox"/>
258	CCV				1.0 07/08/09 06:17		<input type="checkbox"/>
259	CCB				1.0 07/08/09 06:20		<input type="checkbox"/>
260	RLCV				1.0 07/08/09 06:23	<i>7/8/09 Did not use.</i>	<input type="checkbox"/>

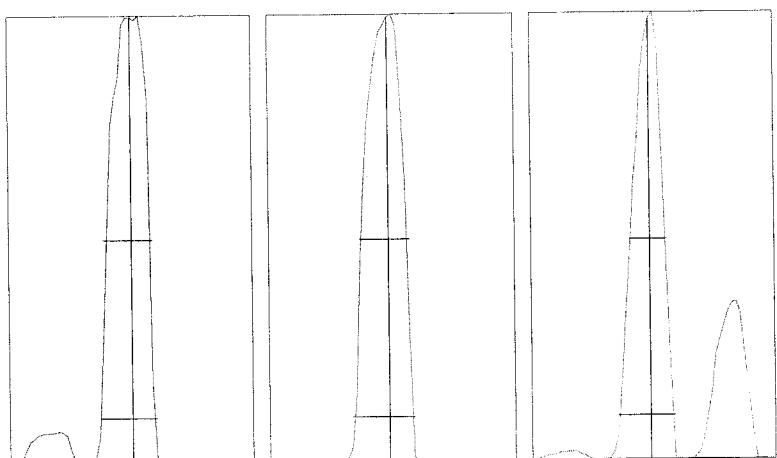
Tune Report

Tune File : NORM.U
 Comment :



Integration Time: 0.1000 sec
 Sampling Period: 1.5300 sec
 n: 200
 Oxide: 156/140 2.082%
 Doubly Charged: 70/140 1.123%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1889.0	1841.3	2.59	0.60
7	50,000	27559.0	27403.0	1.40	0.60
59	50,000	33030.0	31479.0	1.53	0.50
63	200	87.0	107.9	11.91	0.30
70	1,000	686.0	677.4	4.99	0.70
75	50	31.0	42.9	16.22	0.60
78	500	280.0	313.4	6.24	0.30
89	100,000	51516.0	52575.3	1.19	0.70
115	100,000	57158.0	56755.0	1.31	0.70
118	200	162.0	152.3	8.33	0.70
137	10,000	6656.0	6727.9	1.69	1.00
205	50,000	48630.0	48760.9	1.18	2.00
238	100,000	74601.0	74494.1	1.21	2.10
156/140	5	2.193%	2.125%	4.06	
70/140	2	1.184%	1.169%	5.10	



m/z:	7	89	205
Height:	27,543	52,894	49,644
Axis:	7.05	89.00	205.00
W-50%:	0.60	0.60	0.45
W-10%:	0.700	0.7500	0.700

Integration Time: 0.1000 sec
 Acquisition Time: 22.7600 sec

Y axis : Linear

Tune Report

Tune File : NORM.U
Comment :

Tuning Parameters

====Plasma Condition====

RF Power : 1550 W
RF Matching : 1.7 V
Smp1 Depth : 7.5 mm
Torch-H : -0.8 mm
Torch-V : -0.3 mm
Carrier Gas : 0.83 L/min
Makeup Gas : 0.2 L/min
Optional Gas : --- %
Nebulizer Pump : 0.1 rps
Sample Pump : --- rps
S/C Temp : 2 degC

====Ion Lenses====

Extract 1 : 0 V
Extract 2 : -175 V
Omega Bias-ce : -30 V
Omega Lens-ce : -0.2 V
Cell Entrance : -30 V
QP Focus : 5 V
Cell Exit : -30 V

====Q-Pole Parameters====

AMU Gain : 133
AMU Offset : 123
Axis Gain : 1.0005
Axis Offset : -0.01
QP Bias : -10 V

====Detector Parameters====

Discriminator : 8 mV
Analog HV : 1720 V
Pulse HV : 1390 V

====Reaction Cell====

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

P/A Factor Tuning Report

Acquired:Jul 7 2009 04:18 pm

Mass[amu]	Element	P/A Factor
6	Li	0.060118
7	(Li)	Sensitivity too low
9	Be	0.068010
45	Sc	0.082686
51	V	0.084596
52	Cr	0.087721
53	(Cr)	Sensitivity too low
55	Mn	0.089784
59	Co	0.093112
60	Ni	0.095012
63	Cu	0.097299
66	Zn	0.097070
72	Ge	0.095471
75	As	0.094654
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
95	Mo	0.095555
98	(Mo)	0.095635
99	(Mo)	0.097324
106	(Cd)	0.101627
107	Ag	Sensitivity too low
108	(Cd)	0.102086
111	Cd	0.102705
114	Cd	0.102655
115	In	0.101852
118	Sn	0.101508
121	Sb	0.101313
137	Ba	Sensitivity too low
165	Ho	Sensitivity too low
205	Tl	0.111470
206	(Pb)	0.110400
207	(Pb)	0.110479
208	Pb	0.110219
232	Th	0.108817
238	U	0.108862

====Detector Parameters=====

Discriminator: 8.0 mV

Analog HV: 1720 V

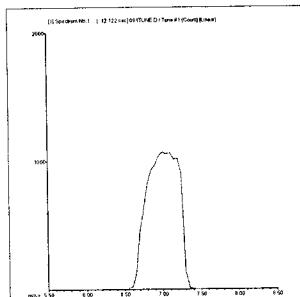
Pulse HV: 1390 V

200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\001TUNE.D
 Date Acquired: Jul 7 2009 06:26 pm
 Acq. Method: tun_isis.M
 Operator: TEL
 Sample Name: 200.8 TUNE
 Misc Info:
 Vial Number: 4
 Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

RSD (%)

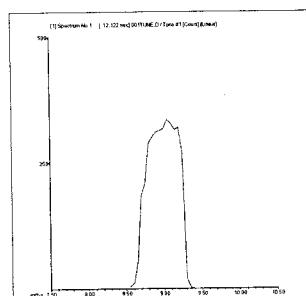
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	22453	22562	22678	22654	22339	22032	2.26	5.00	
9 Be	2557	2614	2568	2613	2528	2458	3.87	5.00	
24 Mg	10195	10333	10161	10163	10347	9970	1.30	5.00	
59 Co	66238	66281	66746	66790	66601	64770	3.53	5.00	
115 In	958916	951553	962857	960080	958978	961111	0.77	5.00	
208 Pb	77867	78896	77667	77197	77617	77956	1.00	5.00	
238 U	160452	162185	164035	161529	160468	154041	1.94	5.00	

**7 Li****Mass Calib.**

Actual: 7.05
 Required: 6.90 - 7.10
 Flag:

Peak Width

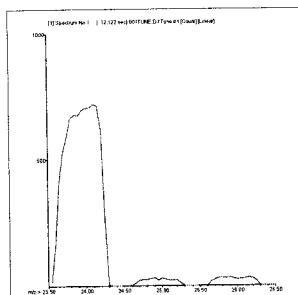
Actual: 0.65
 Required: 0.90
 Flag:

**9 Be****Mass Calib.**

Actual: 9.10
 Required: 8.90 - 9.10
 Flag:

Peak Width

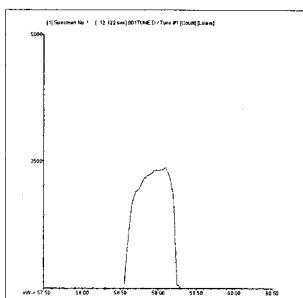
Actual: 0.60
 Required: 0.90
 Flag:

**24 Mg****Mass Calib.**

Actual: 24.05
 Required: 23.90 - 24.10
 Flag:

Peak Width

Actual: 0.65
 Required: 0.90
 Flag:

**59 Co****Mass Calib.**

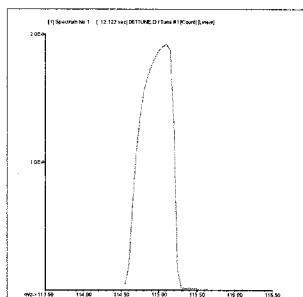
Actual:	59.00	-	
Required:	58.90	-	59.10

Flag:

Peak Width

Actual:	0.60	
Required:	0.90	

Flag:

**115 In****Mass Calib.**

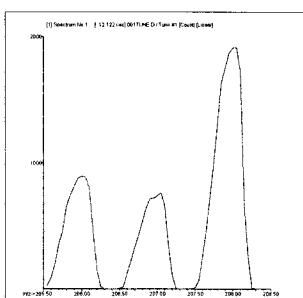
Actual:	115.05	-	
Required:	114.90	-	115.10

Flag:

Peak Width

Actual:	0.55	
Required:	0.90	

Flag:

**208 Pb****Mass Calib.**

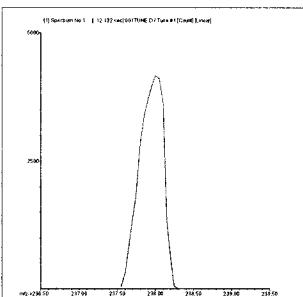
Actual:	208.00	-	
Required:	207.90	-	208.10

Flag:

Peak Width

Actual:	0.60	
Required:	0.90	

Flag:

**238 U****Mass Calib.**

Actual:	238.00	-	
Required:	237.90	-	238.10

Flag:

Peak Width

Actual:	0.55	
Required:	0.90	

Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\002CALB.D\002CALB.D#
 Date Acquired: Jul 7 2009 06:29 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:30 pm
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		-61	307.06
52	Cr	72	1		1703	4.99
55	Mn	72	1		127	24.12
59	Co	72	1		27	94.37
60	Ni	72	1		10	100.00
63	Cu	72	1		207	16.99
66	Zn	72	1		281	13.82
75	As	72	1		29	24.50
78	Se	72	1		57	36.74
95	Mo	72	1		10	100.00
107	Ag	115	1		7	86.60
111	Cd	115	1		5	136.25
118	Sn	115	1		157	13.29
121	Sb	115	1		13	66.14
137	Ba	115	1		16	53.93
205	Tl	165	1		142	24.84
208	Pb	165	1		238	8.45
232	Th	165	1		167	24.98
238	U	165	1		100	12.02

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	400758	1.34
45	Sc	1	936208	0.95
72	Ge	1	542425	0.31
115	In	1	1772725	1.04
165	Ho	1	4029283	0.79

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#
 Date Acquired: Jul 7 2009 06:32 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:30 pm
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		124	45.09
52	Cr	72	1		1643	7.31
55	Mn	72	1		140	21.43
59	Co	72	1		13	43.30
60	Ni	72	1		37	31.49
63	Cu	72	1		283	14.26
66	Zn	72	1		173	16.69
75	As	72	1		24	22.05
78	Se	72	1		57	26.96
95	Mo	72	1		13	43.30
107	Ag	115	1		10	100.00
111	Cd	115	1		8	89.21
118	Sn	115	1		187	27.49
121	Sb	115	1		13	66.14
137	Ba	115	1		17	52.92
205	Tl	165	1		96	12.25
208	Pb	165	1		224	8.95
232	Th	165	1		143	28.20
238	U	165	1		19	73.47

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	399164	0.09
45	Sc	1	940817	0.93
72	Ge	1	543541	0.91
115	In	1	1769666	0.69
165	Ho	1	4052095	0.70

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\004ICAL.D\004ICAL.D#
 Date Acquired: Jul 7 2009 06:35 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:33 pm
 Sample Type: ICAL

QC Elements

Element	IS	Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	45057	2.44
51	V	72	1	635517	1.35
52	Cr	72	1	740365	0.51
55	Mn	72	1	696026	0.68
59	Co	72	1	1072796	0.30
60	Ni	72	1	253152	0.72
63	Cu	72	1	623666	0.91
66	Zn	72	1	116172	1.28
75	As	72	1	70648	0.92
78	Se	72	1	10825	1.36
95	Mo	72	1	298414	1.62
107	Ag	115	1	1006118	0.15
111	Cd	115	1	173188	0.75
118	Sn	115	1	439651	0.54
121	Sb	115	1	464508	0.62
137	Ba	115	1	189823	0.35
205	Tl	165	1	2375887	1.05
208	Pb	165	1	3257719	0.92
232	Th	165	1	3073849	2.20
238	U	165	1	3744584	1.20

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6	Li	1	382426	1.59	399164	95.8	30 - 120
45	Sc	1	907089	1.38	940817	96.4	30 - 120
72	Ge	1	520511	0.60	543541	95.8	30 - 120
115	In	1	1740539	0.58	1769666	98.4	30 - 120
165	Ho	1	4011984	1.19	4052095	99.0	30 - 120

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\005_ICV.D\005_ICV.D#
 Date Acquired: Jul 7 2009 06:38 pm
 Operator: TEL
 Sample Name: ICV
 Misc Info:
 Vial Number: 2103
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: ICV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6	1		38.73 ppb	2.14	40	96.8	90 - 110	
51 V	72	1		39.83 ppb	1.86	40	99.6	90 - 110	
52 Cr	72	1		40.55 ppb	1.29	40	101.4	90 - 110	
55 Mn	72	1		40.32 ppb	1.65	40	100.8	90 - 110	
59 Co	72	1		39.47 ppb	0.43	40	98.7	90 - 110	
60 Ni	72	1		41.03 ppb	0.27	40	102.6	90 - 110	
63 Cu	72	1		40.32 ppb	0.60	40	100.8	90 - 110	
66 Zn	72	1		40.30 ppb	0.46	40	100.8	90 - 110	
75 As	72	1		39.90 ppb	1.04	40	99.8	90 - 110	
78 Se	72	1		39.38 ppb	6.26	40	98.5	90 - 110	
95 Mo	72	1		40.14 ppb	0.13	40	100.4	90 - 110	
107 Ag	115	1		39.43 ppb	0.35	40	98.6	90 - 110	
111 Cd	115	1		40.26 ppb	0.38	40	100.7	90 - 110	
118 Sn	115	1		39.20 ppb	0.85	40	98.0	90 - 110	
121 Sb	115	1		38.07 ppb	0.76	40	95.2	90 - 110	
137 Ba	115	1		39.65 ppb	1.27	40	99.1	90 - 110	
205 Tl	165	1		40.61 ppb	1.35	40	101.5	90 - 110	
208 Pb	165	1		40.53 ppb	1.09	40	101.3	90 - 110	
232 Th	165	1		45.82 ppb	0.29	40	114.6	90 - 110	
238 U	165	1		41.02 ppb	0.38	40	102.6	90 - 110	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	380889	0.43	399164	95.4	30 - 120	
45 Sc	1	897908	0.41	940817	95.4	30 - 120	
72 Ge	1	510491	0.99	543541	93.9	30 - 120	
115 In	1	1725161	0.55	1769666	97.5	30 - 120	
165 Ho	1	3965758	0.76	4052095	97.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\006WASH.D\006WASH.D#
 Date Acquired: Jul 7 2009 06:40 pm
 Operator: TEL
 Sample Name: RLIV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6		1	1.089 ppb	17.74	1.30	
51 V	72		1	5.159 ppb	1.25	6.50	
52 Cr	72		1	2.056 ppb	4.36	2.60	
55 Mn	72		1	0.996 ppb	5.33	1.30	
59 Co	72		1	0.986 ppb	5.16	1.30	
60 Ni	72		1	2.089 ppb	5.01	2.60	
63 Cu	72		1	2.053 ppb	2.76	2.60	
66 Zn	72		1	10.520 ppb	1.83	13.00	
75 As	72		1	5.027 ppb	1.20	6.50	
78 Se	72		1	4.447 ppb	23.34	6.50	
95 Mo	72		1	2.089 ppb	0.78	2.60	
107 Ag	115		1	5.193 ppb	1.84	6.50	
111 Cd	115		1	1.042 ppb	3.41	1.30	
118 Sn	115		1	10.480 ppb	0.85	13.00	
121 Sb	115		1	2.185 ppb	1.55	2.60	
137 Ba	115		1	1.068 ppb	5.38	1.30	
205 Tl	165		1	1.176 ppb	2.26	1.30	
208 Pb	165		1	1.073 ppb	0.23	1.30	
232 Th	165		1	3.179 ppb	4.03	2.60	
238 U	165		1	1.102 ppb	1.37	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	379446	0.32	399164	95.1	95.1	30 - 120	
45 Sc	1	894440	1.04	940817	95.1	95.1	30 - 120	
72 Ge	1	517374	0.11	543541	95.2	95.2	30 - 120	
115 In	1	1715545	0.68	1769666	96.9	96.9	30 - 120	
165 Ho	1	3947602	0.56	4052095	97.4	97.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\007 ICB.D\007 ICB.D#
 Date Acquired: Jul 7 2009 06:43 pm **QC Summary:**
 Operator: TEL **Analytes:** Pass
 Sample Name: ICB **ISTD:** Pass
 Misc Info:
 Vial Number: 2104
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: ICB
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	ppb	0.00	1.00
51 V	72	1		-0.01	ppb	278.49	1.00
52 Cr	72	1		0.01	ppb	361.44	1.00
55 Mn	72	1		-0.01	ppb	36.80	1.00
59 Co	72	1		0.00	ppb	359.57	1.00
60 Ni	72	1		0.00	ppb	857.45	1.00
63 Cu	72	1		0.00	ppb	170.49	1.00
66 Zn	72	1		0.00	ppb	285.00	1.00
75 As	72	1		0.01	ppb	88.24	1.00
78 Se	72	1		0.02	ppb	872.43	1.00
95 Mo	72	1		0.01	ppb	14.64	1.00
107 Ag	115	1		0.00	ppb	129.33	1.00
111 Cd	115	1		0.00	ppb	333.20	1.00
118 Sn	115	1		0.09	ppb	12.11	1.00
121 Sb	115	1		0.08	ppb	3.49	1.00
137 Ba	115	1		0.00	ppb	216.96	1.00
205 Tl	165	1		0.07	ppb	7.69	1.00
208 Pb	165	1		0.00	ppb	101.76	1.00
232 Th	165	1		0.33	ppb	6.92	1.00
238 U	165	1		0.00	ppb	13.68	1.00

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6 Li	1	382408	0.87	399164	95.8	30 - 120		
45 Sc	1	907229	0.95	940817	96.4	30 - 120		
72 Ge	1	521075	0.30	543541	95.9	30 - 120		
115 In	1	1702190	0.54	1769666	96.2	30 - 120		
165 Ho	1	3975956	0.45	4052095	98.1	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\008RLST.D\008RLST.D#
 Date Acquired: Jul 7 2009 06:46 pm
 Operator: TEL
 Sample Name: RL STD
 Misc Info:
 Vial Number: 2105
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: RLSTD
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	1.04 ppb	12.32	1	103.7	50 - 150	
51 V	72		1	1.01 ppb	9.81	1	100.5	50 - 150	
52 Cr	72		1	0.99 ppb	5.47	1	99.4	50 - 150	
55 Mn	72		1	0.98 ppb	4.30	1	98.4	50 - 150	
59 Co	72		1	0.98 ppb	4.26	1	98.4	50 - 150	
60 Ni	72		1	0.98 ppb	3.81	1	98.5	50 - 150	
63 Cu	72		1	0.96 ppb	4.85	1	96.3	50 - 150	
66 Zn	72		1	10.22 ppb	0.29	10	102.2	50 - 150	
75 As	72		1	1.01 ppb	2.72	1	100.7	50 - 150	
78 Se	72		1	0.79 ppb	53.55	1	78.9	50 - 150	
95 Mo	72		1	1.07 ppb	4.00	1	107.1	50 - 150	
107 Ag	115		1	0.99 ppb	3.27	1	99.3	50 - 150	
111 Cd	115		1	1.03 ppb	1.34	1	103.2	50 - 150	
118 Sn	115		1	10.17 ppb	1.04	10	101.7	50 - 150	
121 Sb	115		1	1.03 ppb	5.66	1	102.9	50 - 150	
137 Ba	115		1	1.04 ppb	2.53	1	103.6	50 - 150	
205 Tl	165		1	1.06 ppb	0.83	1	106.2	50 - 150	
208 Pb	165		1	1.01 ppb	1.71	1	101.3	50 - 150	
232 Th	165		1	1.16 ppb	1.52	1	115.9	50 - 150	
238 U	165		1	1.06 ppb	1.52	1	105.6	50 - 150	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	381752	0.66	399164	95.6	30 - 120	
45 Sc	1	908450	0.62	940817	96.6	30 - 120	
72 Ge	1	523170	0.29	543541	96.3	30 - 120	
115 In	1	1727746	0.37	1769666	97.6	30 - 120	
165 Ho	1	3986580	0.86	4052095	98.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\009AFCE.D\009AFCE.D#
 Date Acquired: Jul 7 2009 06:49 pm
 Operator: TEL
 Sample Name: AFCEE RL
 Misc Info:
 Vial Number: 2106
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: AFCEE RL
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6		1	0.18 ppb	36.20	0	88.9	80 - 120	
51 V	72		1	0.15 ppb	7.13	0	73.5	80 - 120	
52 Cr	72		1	0.18 ppb	3.37	0	88.4	80 - 120	
55 Mn	72		1	0.20 ppb	12.94	0	101.5	80 - 120	
59 Co	72		1	0.20 ppb	5.47	0	100.2	80 - 120	
60 Ni	72		1	0.19 ppb	8.01	0	94.7	80 - 120	
63 Cu	72		1	0.20 ppb	4.43	0	102.8	80 - 120	
66 Zn	72		1	2.02 ppb	0.83	2	98.9	80 - 120	
75 As	72		1	0.21 ppb	14.22	0	101.8	80 - 120	
78 Se	72		1	0.11 ppb	92.40	0	70.8	80 - 120	
95 Mo	72		1	0.21 ppb	12.83	0	96.0	80 - 120	
107 Ag	115		1	0.19 ppb	14.07	0	93.7	80 - 120	
111 Cd	115		1	0.20 ppb	13.72	0	98.7	80 - 120	
118 Sn	115		1	2.10 ppb	1.98	2	103.2	80 - 120	
121 Sb	115		1	0.21 ppb	3.22	0	103.6	80 - 120	
137 Ba	115		1	0.19 ppb	8.30	0	92.8	80 - 120	
205 Tl	165		1	0.23 ppb	2.69	0	107.3	80 - 120	
208 Pb	165		1	0.21 ppb	2.25	0	102.4	80 - 120	
232 Th	165		1	0.30 ppb	1.72	0	130.8	80 - 120	
238 U	165		1	0.21 ppb	1.37	0	97.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	383219	0.57	399164	96.0	30 - 120	
45 Sc	1	910744	0.99	940817	96.8	30 - 120	
72 Ge	1	523238	0.51	543541	96.3	30 - 120	
115 In	1	1749677	0.22	1769666	98.9	30 - 120	
165 Ho	1	3982865	0.61	4052095	98.3	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\010SMPL.D\010SMPL.D#
 Date Acquired: Jul 7 2009 06:51 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ALTSe
 Misc Info: 2 ppb
 Vial Number: 2107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.01	-0.01	ppb	147.72	3600	
52 Cr	72	1		0.00	0.00	ppb	1241.60	3600	
55 Mn	72	1		0.00	0.00	ppb	472.13	3600	
59 Co	72	1		0.00	0.00	ppb	369.37	3600	
60 Ni	72	1		0.01	0.01	ppb	136.71	3600	
63 Cu	72	1		-0.01	-0.01	ppb	86.24	3600	
66 Zn	72	1		0.10	0.10	ppb	20.02	3600	
75 As	72	1		0.00	0.00	ppb	488.01	3600	
78 Se	72	1		1.71	1.71	ppb	19.19	3600	
95 Mo	72	1		0.00	0.00	ppb	42.52	3600	
107 Ag	115	1		0.00	0.00	ppb	89.97	3600	
111 Cd	115	1		0.00	0.00	ppb	483.30	3600	
118 Sn	115	1		0.44	0.44	ppb	3.98	3600	
121 Sb	115	1		0.01	0.01	ppb	51.24	3600	
137 Ba	115	1		0.00	0.00	ppb	2235.70	3600	
205 Tl	165	1		0.02	0.02	ppb	13.37	3600	
208 Pb	165	1		0.00	0.00	ppb	155.70	3600	
232 Th	165	1		0.05	0.05	ppb	11.74	1000	
238 U	165	1		0.00	0.00	ppb	34.75	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	381988	0.77	399164	95.7	30 - 120	
45 Sc	1	909120	0.30	940817	96.6	30 - 120	
72 Ge	1	524636	0.43	543541	96.5	30 - 120	
115 In	1	1729729	0.54	1769666	97.7	30 - 120	
165 Ho	1	3992746	0.71	4052095	98.5	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\011ICSA.D\011ICSA.D#
 Date Acquired: Jul 7 2009 06:54 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 QC Summary:
 Analytes: Pass
 ISTD: Pass
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High	Limit ppb	Flag
9 Be	6	1		0.01 ppb	173.19		1.00	
51 V	72	1		-0.12 ppb	145.18		1.00	
52 Cr	72	1		1.00 ppb	3.09		1.00	
55 Mn	72	1		2.15 ppb	3.13		1.00	
59 Co	72	1		0.05 ppb	8.09		1.00	
60 Ni	72	1		0.76 ppb	3.84		1.00	
63 Cu	72	1		0.31 ppb	8.08		1.00	
66 Zn	72	1		2.84 ppb	2.36		10.00	
75 As	72	1		0.16 ppb	4.86		1.00	
78 Se	72	1		-0.20 ppb	83.63		1.00	
95 Mo	72	1		2043.00 ppb	1.61		2000.00	
107 Ag	115	1		0.06 ppb	1.56		1.00	
111 Cd	115	1		0.46 ppb	24.91		1.00	
118 Sn	115	1		0.20 ppb	17.21		10.00	
121 Sb	115	1		0.24 ppb	6.95		1.00	
137 Ba	115	1		1.57 ppb	4.74		1.00	
205 Tl	165	1		0.05 ppb	32.86		1.00	
208 Pb	165	1		0.12 ppb	5.36		1.00	
232 Th	165	1		0.10 ppb	10.63		1.00	
238 U	165	1		0.02 ppb	3.23		1.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	365243	0.79	399164	91.5		30 - 120	
45 Sc	1	788222	0.65	940817	83.8		30 - 120	
72 Ge	1	427827	0.97	543541	78.7		30 - 120	
115 In	1	1437454	0.58	1769666	81.2		30 - 120	
165 Ho	1	3581671	0.93	4052095	88.4		30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\012ICSB.D\012ICSB.D#
 Date Acquired: Jul 7 2009 06:57 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSAB
 Misc Info:
 Vial Number: 2109
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: ICSAB
 Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	6	1		95.41	1.50	100	95.4	80 - 120	
51 V	72	1		103.80	1.00	100	103.8	80 - 120	
52 Cr	72	1		103.20	0.47	100	103.2	80 - 120	
55 Mn	72	1		103.00	0.69	100	103.0	80 - 120	
59 Co	72	1		95.34	0.69	100	95.3	80 - 120	
60 Ni	72	1		92.36	1.58	100	92.4	80 - 120	
63 Cu	72	1		89.22	0.72	100	89.2	80 - 120	
66 Zn	72	1		101.20	0.80	100	101.2	80 - 120	
75 As	72	1		101.20	0.94	100	101.2	80 - 120	
78 Se	72	1		111.30	2.75	100	111.3	80 - 120	
95 Mo	72	1		2173.00	1.31	2100	103.5	80 - 120	
107 Ag	115	1		85.76	1.92	100	85.8	80 - 120	
111 Cd	115	1		96.48	1.43	100	96.5	80 - 120	
118 Sn	115	1		103.80	1.68	100	103.8	80 - 120	
121 Sb	115	1		103.90	1.74	100	103.9	80 - 120	
137 Ba	115	1		106.00	2.12	100	106.0	80 - 120	
205 Tl	165	1		94.99	0.53	100	95.0	80 - 120	
208 Pb	165	1		94.09	0.42	100	94.1	80 - 120	
232 Th	165	1		111.20	1.41	100	111.2	80 - 120	
238 U	165	1		103.30	0.40	100	103.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	363601	0.94	399164	91.1	30 - 120	
45 Sc	1	745518	1.62	940817	79.2	30 - 120	
72 Ge	1	408166	0.77	543541	75.1	30 - 120	
115 In	1	1402003	0.59	1769666	79.2	30 - 120	
165 Ho	1	3568659	0.29	4052095	88.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\013SMPL.D\013SMPL.D#
 Date Acquired: Jul 7 2009 06:59 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: RINSE
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.01	0.01	ppb	173.16	3600	
51 V	72	1		-0.07	-0.07	ppb	35.08	3600	
52 Cr	72	1		0.00	0.00	ppb	168.71	3600	
55 Mn	72	1		0.01	0.01	ppb	62.67	3600	
59 Co	72	1		0.01	0.01	ppb	53.27	3600	
60 Ni	72	1		0.02	0.02	ppb	71.92	3600	
63 Cu	72	1		0.01	0.01	ppb	25.23	3600	
66 Zn	72	1		0.08	0.08	ppb	9.50	3600	
75 As	72	1		0.04	0.04	ppb	24.44	3600	
78 Se	72	1		0.02	0.02	ppb	1280.40	3600	
95 Mo	72	1		1.48	1.48	ppb	11.41	3600	
107 Ag	115	1		0.01	0.01	ppb	57.64	3600	
111 Cd	115	1		0.01	0.01	ppb	88.95	3600	
118 Sn	115	1		0.07	0.07	ppb	39.85	3600	
121 Sb	115	1		0.05	0.05	ppb	18.44	3600	
137 Ba	115	1		0.01	0.01	ppb	59.77	3600	
205 Tl	165	1		0.01	0.01	ppb	15.32	3600	
208 Pb	165	1		0.01	0.01	ppb	36.06	3600	
232 Th	165	1		0.85	0.85	ppb	23.15	1000	
238 U	165	1		0.02	0.02	ppb	9.73	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	392230	1.00	399164	98.3	30 - 120	
45 Sc	1	847933	1.38	940817	90.1	30 - 120	
72 Ge	1	494469	0.21	543541	91.0	30 - 120	
115 In	1	1662200	1.03	1769666	93.9	30 - 120	
165 Ho	1	4011358	1.54	4052095	99.0	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\014_LR.D\014_LR.D#
 Date Acquired: Jul 7 2009 07:02 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LR
 Misc Info:
 Vial Number: 2110
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: LR
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		983.40 ppb	1.01	1000	98.3	90 - 110	
51 V	72	1		947.80 ppb	1.93	1000	94.8	90 - 110	
52 Cr	72	1		970.60 ppb	1.54	1000	97.1	90 - 110	
55 Mn	72	1		980.00 ppb	1.74	1000	98.0	90 - 110	
59 Co	72	1		949.60 ppb	1.88	1000	95.0	90 - 110	
60 Ni	72	1		987.80 ppb	1.07	1000	98.8	90 - 110	
63 Cu	72	1		955.00 ppb	1.51	1000	95.5	90 - 110	
66 Zn	72	1		1033.00 ppb	1.84	1000	103.3	90 - 110	
75 As	72	1		994.00 ppb	0.73	1000	99.4	90 - 110	
78 Se	72	1		1029.00 ppb	2.04	1000	102.9	90 - 110	
95 Mo	72	1		1009.00 ppb	1.74	1000	100.9	90 - 110	
107 Ag	115	1		964.50 ppb	1.98	1000	96.5	90 - 110	
111 Cd	115	1		1029.00 ppb	1.52	1000	102.9	90 - 110	
118 Sn	115	1		1005.00 ppb	0.95	1000	100.5	90 - 110	
121 Sb	115	1		998.10 ppb	1.44	1000	99.8	90 - 110	
137 Ba	115	1		1023.00 ppb	0.46	1000	102.3	90 - 110	
205 Tl	165	1		972.10 ppb	0.66	1000	97.2	90 - 110	
208 Pb	165	1		965.00 ppb	0.85	1000	96.5	90 - 110	
232 Th	165	1		1087.00 ppb	2.42	1000	108.7	90 - 110	
238 U	165	1		1004.00 ppb	0.93	1000	100.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	374397	1.09	399164	93.8	30 - 120	
45 Sc	1	839630	1.54	940817	89.2	30 - 120	
72 Ge	1	487501	1.32	543541	89.7	30 - 120	
115 In	1	1652784	1.56	1769666	93.4	30 - 120	
165 Ho	1	4011589	1.51	4052095	99.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\015SMPL.D\015SMPL.D#
 Date Acquired: Jul 7 2009 07:05 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: RINSE
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.10	0.10	ppb	44.89	3600	
51 V	72	1		0.04	0.04	ppb	13.03	3600	
52 Cr	72	1		0.06	0.06	ppb	24.31	3600	
55 Mn	72	1		0.06	0.06	ppb	39.96	3600	
59 Co	72	1		0.08	0.08	ppb	29.64	3600	
60 Ni	72	1		0.07	0.07	ppb	35.89	3600	
63 Cu	72	1		0.07	0.07	ppb	26.63	3600	
66 Zn	72	1		0.17	0.17	ppb	20.43	3600	
75 As	72	1		0.10	0.10	ppb	31.17	3600	
78 Se	72	1		0.20	0.20	ppb	197.18	3600	
95 Mo	72	1		0.78	0.78	ppb	8.80	3600	
107 Ag	115	1		0.05	0.05	ppb	29.15	3600	
111 Cd	115	1		0.08	0.08	ppb	11.89	3600	
118 Sn	115	1		1.34	1.34	ppb	4.00	3600	
121 Sb	115	1		0.53	0.53	ppb	4.95	3600	
137 Ba	115	1		0.06	0.06	ppb	16.69	3600	
205 Tl	165	1		0.14	0.14	ppb	16.45	3600	
208 Pb	165	1		0.08	0.08	ppb	29.48	3600	
232 Th	165	1		5.32	5.32	ppb	21.32	1000	
238 U	165	1		0.15	0.15	ppb	8.24	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	379584	0.33	399164	95.1	30 - 120	
45 Sc	1	873362	0.60	940817	92.8	30 - 120	
72 Ge	1	506731	0.43	543541	93.2	30 - 120	
115 In	1	1692278	0.36	1769666	95.6	30 - 120	
165 Ho	1	4003631	0.89	4052095	98.8	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\016_CCV.D\016_CCV.D#

Date Acquired: Jul 7 2009 07:08 pm

Operator: TEL

Sample Name: CCV

Misc Info:

Vial Number: 1107

Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M

Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C

Last Cal Update: Jul 07 2009 06:35 pm

Sample Type: CCV

Total Dil Factor: 1.00

QC Summary:**Analytes:** Pass**ISTD:** Pass**QC Elements**

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		49.62 ppb	3.63	50	99.2	90 - 110	
51 V	72	1		49.33 ppb	0.48	50	98.7	90 - 110	
52 Cr	72	1		49.99 ppb	0.15	50	100.0	90 - 110	
55 Mn	72	1		50.16 ppb	0.63	50	100.3	90 - 110	
59 Co	72	1		49.28 ppb	0.34	50	98.6	90 - 110	
60 Ni	72	1		49.82 ppb	0.86	50	99.6	90 - 110	
63 Cu	72	1		50.32 ppb	0.27	50	100.6	90 - 110	
66 Zn	72	1		51.12 ppb	0.39	50	102.2	90 - 110	
75 As	72	1		50.01 ppb	0.76	50	100.0	90 - 110	
78 Se	72	1		51.33 ppb	1.78	50	102.7	90 - 110	
95 Mo	72	1		51.04 ppb	0.26	50	102.1	90 - 110	
107 Ag	115	1		50.64 ppb	2.48	50	101.3	90 - 110	
111 Cd	115	1		51.08 ppb	3.26	50	102.2	90 - 110	
118 Sn	115	1		51.20 ppb	2.24	50	102.4	90 - 110	
121 Sb	115	1		50.97 ppb	2.72	50	101.9	90 - 110	
137 Ba	115	1		50.72 ppb	2.33	50	101.4	90 - 110	
205 Tl	165	1		51.22 ppb	0.82	50	102.4	90 - 110	
208 Pb	165	1		50.99 ppb	0.59	50	102.0	90 - 110	
232 Th	165	1		52.84 ppb	2.82	50	105.7	90 - 110	
238 U	165	1		52.33 ppb	1.04	50	104.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	376555	0.66	399164	94.3	30 - 120	
45 Sc	1	876739	1.55	940817	93.2	30 - 120	
72 Ge	1	505139	0.71	543541	92.9	30 - 120	
115 In	1	1690240	2.01	1769666	95.5	30 - 120	
165 Ho	1	3974864	0.42	4052095	98.1	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u

Tune File# 2 C:\ICPCHEM\1\7500\

Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures

0 :Max. Number of Failures Allowed

0 :ISTD Failures

0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\017_CCB.D\017_CCB.D#
 Date Acquired: Jul 7 2009 07:10 pm
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.015 ppb	86.59	1.00	
51 V	72	1		0.001 ppb	2310.60	1.00	
52 Cr	72	1		0.015 ppb	77.74	1.00	
55 Mn	72	1		0.007 ppb	71.46	1.00	
59 Co	72	1		0.007 ppb	43.33	1.00	
60 Ni	72	1		0.005 ppb	124.14	1.00	
63 Cu	72	1		0.008 ppb	32.43	1.00	
66 Zn	72	1		-0.004 ppb	189.55	1.00	
75 As	72	1		0.039 ppb	52.57	1.00	
78 Se	72	1		0.034 ppb	988.42	1.00	
95 Mo	72	1		0.152 ppb	12.74	1.00	
107 Ag	115	1		0.008 ppb	0.82	1.00	
111 Cd	115	1		0.001 ppb	1452.00	1.00	
118 Sn	115	1		0.279 ppb	24.24	1.00	
121 Sb	115	1		0.108 ppb	14.18	1.00	
137 Ba	115	1		0.007 ppb	63.36	1.00	
205 Tl	165	1		0.063 ppb	13.43	1.00	
208 Pb	165	1		0.005 ppb	37.30	1.00	
232 Th	165	1		1.413 ppb	14.76	1.00	
238 U	165	1		0.015 ppb	3.77	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	376366	0.39	399164	94.3	30 - 120	
45 Sc	1	871292	1.51	940817	92.6	30 - 120	
72 Ge	1	509432	0.21	543541	93.7	30 - 120	
115 In	1	1694548	0.74	1769666	95.8	30 - 120	
165 Ho	1	3930648	0.63	4052095	97.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\018WASH.D\018WASH.D#
 Date Acquired: Jul 7 2009 07:13 pm
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.950 ppb	34.59	1.30	
51 V	72	1		5.092 ppb	2.34	6.50	
52 Cr	72	1		2.116 ppb	1.95	2.60	
55 Mn	72	1		1.041 ppb	3.33	1.30	
59 Co	72	1		0.977 ppb	1.97	1.30	
60 Ni	72	1		2.082 ppb	1.15	2.60	
63 Cu	72	1		2.096 ppb	0.80	2.60	
66 Zn	72	1		10.630 ppb	0.64	13.00	
75 As	72	1		5.058 ppb	3.38	6.50	
78 Se	72	1		5.432 ppb	1.49	6.50	
95 Mo	72	1		2.180 ppb	2.74	2.60	
107 Ag	115	1		5.324 ppb	0.74	6.50	
111 Cd	115	1		1.066 ppb	6.36	1.30	
118 Sn	115	1		10.810 ppb	0.98	13.00	
121 Sb	115	1		2.023 ppb	2.76	2.60	
137 Ba	115	1		1.068 ppb	2.92	1.30	
205 Tl	165	1		1.140 ppb	1.37	1.30	
208 Pb	165	1		1.064 ppb	2.30	1.30	
232 Th	165	1		2.562 ppb	0.69	2.60	
238 U	165	1		1.114 ppb	1.20	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	375609	0.51	399164	94.1	30 - 120		
45 Sc	1	888298	1.26	940817	94.4	30 - 120		
72 Ge	1	513002	0.31	543541	94.4	30 - 120		
115 In	1	1688757	0.59	1769666	95.4	30 - 120		
165 Ho	1	3965900	1.10	4052095	97.9	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\019SMPL.D\019SMPL.D#
 Date Acquired: Jul 7 2009 07:16 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 1
 Misc Info: IDL 1
 Vial Number: 2201
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.04	-0.04	ppb	68.44	3600	
52 Cr	72	1		0.04	0.04	ppb	29.24	3600	
55 Mn	72	1		0.00	0.00	ppb	256.13	3600	
59 Co	72	1		0.00	0.00	ppb	382.70	3600	
60 Ni	72	1		0.01	0.01	ppb	49.38	3600	
63 Cu	72	1		0.01	0.01	ppb	55.64	3600	
66 Zn	72	1		0.14	0.14	ppb	21.68	3600	
75 As	72	1		0.01	0.01	ppb	203.55	3600	
78 Se	72	1		-0.13	-0.13	ppb	125.58	3600	
95 Mo	72	1		0.05	0.05	ppb	16.98	3600	
107 Ag	115	1		0.00	0.00	ppb	52.68	3600	
111 Cd	115	1		0.00	0.00	ppb	214.07	3600	
118 Sn	115	1		0.15	0.15	ppb	19.57	3600	
121 Sb	115	1		0.06	0.06	ppb	6.05	3600	
137 Ba	115	1		0.00	0.00	ppb	349.53	3600	
205 Tl	165	1		0.12	0.12	ppb	50.04	3600	
208 Pb	165	1		0.00	0.00	ppb	22.86	3600	
232 Th	165	1		0.34	0.34	ppb	17.39	1000	
238 U	165	1		0.00	0.00	ppb	16.51	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	379285	0.19	399164	95.0	30 - 120	
45 Sc	1	892144	1.83	940817	94.8	30 - 120	
72 Ge	1	515237	0.27	543541	94.8	30 - 120	
115 In	1	1718488	1.06	1769666	97.1	30 - 120	
165 Ho	1	3986789	1.41	4052095	98.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\020SMPL.D\020SMPL.D#
 Date Acquired: Jul 7 2009 07:19 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 2
 Misc Info: IDL 2
 Vial Number: 2202
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		0.00	0.00	ppb	377.77	3600	
52 Cr	72	1		0.10	0.10	ppb	6.96	3600	
55 Mn	72	1		0.01	0.01	ppb	45.86	3600	
59 Co	72	1		0.00	0.00	ppb	145.74	3600	
60 Ni	72	1		0.00	0.00	ppb	1196.50	3600	
63 Cu	72	1		0.01	0.01	ppb	103.69	3600	
66 Zn	72	1		0.18	0.18	ppb	23.83	3600	
75 As	72	1		0.02	0.02	ppb	70.21	3600	
78 Se	72	1		-0.01	-0.01	ppb	2560.20	3600	
95 Mo	72	1		0.05	0.05	ppb	46.21	3600	
107 Ag	115	1		0.00	0.00	ppb	49.01	3600	
111 Cd	115	1		0.00	0.00	ppb	135.26	3600	
118 Sn	115	1		0.10	0.10	ppb	15.66	3600	
121 Sb	115	1		0.03	0.03	ppb	4.43	3600	
137 Ba	115	1		0.00	0.00	ppb	232.64	3600	
205 Tl	165	1		0.02	0.02	ppb	15.52	3600	
208 Pb	165	1		0.00	0.00	ppb	48.86	3600	
232 Th	165	1		0.15	0.15	ppb	8.53	1000	
238 U	165	1		0.00	0.00	ppb	25.79	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	380373	0.78	399164	95.3	30 ~ 120	
45 Sc	1	911770	1.04	940817	96.9	30 ~ 120	
72 Ge	1	519249	0.73	543541	95.5	30 ~ 120	
115 In	1	1724932	1.14	1769666	97.5	30 ~ 120	
165 Ho	1	4028099	0.29	4052095	99.4	30 ~ 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\021SMPL.D\021SMPL.D#
 Date Acquired: Jul 7 2009 07:21 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 3
 Misc Info: IDL 3
 Vial Number: 2203
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr	Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1			0.00	0.00	ppb	0.00	3600	
51 V	72	1			-0.03	-0.03	ppb	36.00	3600	
52 Cr	72	1			0.07	0.07	ppb	28.56	3600	
55 Mn	72	1			0.01	0.01	ppb	52.10	3600	
59 Co	72	1			0.00	0.00	ppb	355.28	3600	
60 Ni	72	1			0.01	0.01	ppb	40.66	3600	
63 Cu	72	1			0.02	0.02	ppb	44.24	3600	
66 Zn	72	1			0.26	0.26	ppb	8.74	3600	
75 As	72	1			0.01	0.01	ppb	60.02	3600	
78 Se	72	1			-0.04	-0.04	ppb	585.23	3600	
95 Mo	72	1			0.03	0.03	ppb	22.63	3600	
107 Ag	115	1			0.00	0.00	ppb	178.94	3600	
111 Cd	115	1			0.00	0.00	ppb	352.78	3600	
118 Sn	115	1			0.08	0.08	ppb	24.98	3600	
121 Sb	115	1			0.03	0.03	ppb	8.44	3600	
137 Ba	115	1			0.00	0.00	ppb	67.24	3600	
205 Tl	165	1			0.01	0.01	ppb	19.44	3600	
208 Pb	165	1			0.01	0.01	ppb	13.68	3600	
232 Th	165	1			0.08	0.08	ppb	3.77	1000	
238 U	165	1			0.00	0.00	ppb	12.12	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	382171	0.47	399164	95.7	30 - 120	
45 Sc	1	913266	0.67	940817	97.1	30 - 120	
72 Ge	1	522994	0.15	543541	96.2	30 - 120	
115 In	1	1746978	0.26	1769666	98.7	30 - 120	
165 Ho	1	4035614	0.63	4052095	99.6	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\022SMPL.D\022SMPL.D#
 Date Acquired: Jul 7 2009 07:24 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 4
 Misc Info: IDL 4
 Vial Number: 2204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		0.02	0.02	ppb	152.96	3600	
52 Cr	72	1		0.06	0.06	ppb	24.25	3600	
55 Mn	72	1		0.00	0.00	ppb	144.92	3600	
59 Co	72	1		0.00	0.00	ppb	1117.00	3600	
60 Ni	72	1		0.01	0.01	ppb	53.84	3600	
63 Cu	72	1		0.01	0.01	ppb	130.03	3600	
66 Zn	72	1		0.16	0.16	ppb	19.17	3600	
75 As	72	1		0.01	0.01	ppb	137.11	3600	
78 Se	72	1		0.08	0.08	ppb	286.30	3600	
95 Mo	72	1		0.03	0.03	ppb	66.91	3600	
107 Ag	115	1		0.04	0.04	ppb	167.18	3600	
111 Cd	115	1		0.00	0.00	ppb	1323.30	3600	
118 Sn	115	1		0.07	0.07	ppb	30.62	3600	
121 Sb	115	1		0.02	0.02	ppb	25.73	3600	
137 Ba	115	1		0.00	0.00	ppb	126.77	3600	
205 Tl	165	1		0.00	0.00	ppb	17.01	3600	
208 Pb	165	1		0.01	0.01	ppb	11.23	3600	
232 Th	165	1		0.05	0.05	ppb	3.48	1000	
238 U	165	1		0.00	0.00	ppb	41.01	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	380990	0.19	399164	95.4	30 - 120	
45 Sc	1	921642	0.31	940817	98.0	30 - 120	
72 Ge	1	522994	0.54	543541	96.2	30 - 120	
115 In	1	1746663	0.41	1769666	98.7	30 - 120	
165 Ho	1	4031298	0.35	4052095	99.5	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\023SMPL.D\023SMPL.D#
 Date Acquired: Jul 7 2009 07:27 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 5
 Misc Info: IDL 5
 Vial Number: 2205
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.03	-0.03	ppb	69.22	3600	
52 Cr	72	1		0.06	0.06	ppb	39.69	3600	
55 Mn	72	1		0.01	0.01	ppb	116.00	3600	
59 Co	72	1		0.00	0.00	ppb	153.25	3600	
60 Ni	72	1		0.01	0.01	ppb	36.95	3600	
63 Cu	72	1		0.03	0.03	ppb	48.62	3600	
66 Zn	72	1		0.38	0.38	ppb	10.97	3600	
75 As	72	1		0.01	0.01	ppb	58.58	3600	
78 Se	72	1		0.14	0.14	ppb	113.36	3600	
95 Mo	72	1		0.02	0.02	ppb	9.44	3600	
107 Ag	115	1		0.00	0.00	ppb	49.32	3600	
111 Cd	115	1		0.00	0.00	ppb	66.69	3600	
118 Sn	115	1		0.05	0.05	ppb	18.47	3600	
121 Sb	115	1		0.01	0.01	ppb	39.88	3600	
137 Ba	115	1		0.04	0.04	ppb	25.01	3600	
205 Tl	165	1		0.00	0.00	ppb	42.60	3600	
208 Pb	165	1		0.00	0.00	ppb	11.74	3600	
232 Th	165	1		0.03	0.03	ppb	10.68	1000	
238 U	165	1		0.00	0.00	ppb	43.23	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	381108	1.08	399164	95.5	30 - 120	
45 Sc	1	917609	0.68	940817	97.5	30 - 120	
72 Ge	1	526581	0.40	543541	96.9	30 - 120	
115 In	1	1753078	0.65	1769666	99.1	30 - 120	
165 Ho	1	4051353	0.90	4052095	100.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\024SMPL.D\024SMPL.D#
 Date Acquired: Jul 7 2009 07:30 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 6
 Misc Info: IDL 6
 Vial Number: 2206
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.03	-0.03	ppb	46.47	3600	
52 Cr	72	1		0.04	0.04	ppb	30.72	3600	
55 Mn	72	1		0.01	0.01	ppb	69.39	3600	
59 Co	72	1		0.00	0.00	ppb	147.86	3600	
60 Ni	72	1		0.00	0.00	ppb	209.95	3600	
63 Cu	72	1		0.00	0.00	ppb	636.32	3600	
66 Zn	72	1		0.12	0.12	ppb	19.15	3600	
75 As	72	1		0.01	0.01	ppb	57.82	3600	
78 Se	72	1		-0.14	-0.14	ppb	174.84	3600	
95 Mo	72	1		0.02	0.02	ppb	42.62	3600	
107 Ag	115	1		0.00	0.00	ppb	112.75	3600	
111 Cd	115	1		0.00	0.00	ppb	155.48	3600	
118 Sn	115	1		0.03	0.03	ppb	40.76	3600	
121 Sb	115	1		0.01	0.01	ppb	30.69	3600	
137 Ba	115	1		0.00	0.00	ppb	630.14	3600	
205 Tl	165	1		0.00	0.00	ppb	28.37	3600	
208 Pb	165	1		0.01	0.01	ppb	14.13	3600	
232 Th	165	1		0.02	0.02	ppb	13.98	1000	
238 U	165	1		0.00	0.00	ppb	61.03	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	379484	0.58	399164	95.1	30 - 120	
45 Sc	1	919710	0.59	940817	97.8	30 - 120	
72 Ge	1	529558	0.14	543541	97.4	30 - 120	
115 In	1	1740330	0.31	1769666	98.3	30 - 120	
165 Ho	1	4028294	0.54	4052095	99.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\025SMPL.D\025SMPL.D#
 Date Acquired: Jul 7 2009 07:32 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 7
 Misc Info: IDL 7
 Vial Number: 2207
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.02	-0.02	ppb	66.88	3600	
52 Cr	72	1		0.09	0.09	ppb	22.46	3600	
55 Mn	72	1		0.01	0.01	ppb	119.57	3600	
59 Co	72	1		0.00	0.00	ppb	26.53	3600	
60 Ni	72	1		0.01	0.01	ppb	81.48	3600	
63 Cu	72	1		0.01	0.01	ppb	162.49	3600	
66 Zn	72	1		0.46	0.46	ppb	7.54	3600	
75 As	72	1		0.00	0.00	ppb	826.57	3600	
78 Se	72	1		0.10	0.10	ppb	199.05	3600	
95 Mo	72	1		0.03	0.03	ppb	36.36	3600	
107 Ag	115	1		0.00	0.00	ppb	86.85	3600	
111 Cd	115	1		0.00	0.00	ppb	439.55	3600	
118 Sn	115	1		0.07	0.07	ppb	34.83	3600	
121 Sb	115	1		0.01	0.01	ppb	25.15	3600	
137 Ba	115	1		0.01	0.01	ppb	107.25	3600	
205 Tl	165	1		0.00	0.00	ppb	136.49	3600	
208 Pb	165	1		0.00	0.00	ppb	56.94	3600	
232 Th	165	1		0.02	0.02	ppb	11.50	1000	
238 U	165	1		0.00	0.00	ppb	52.38	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	382232	0.33	399164	95.8	30 - 120	
45 Sc	1	914289	2.86	940817	97.2	30 - 120	
72 Ge	1	528909	0.57	543541	97.3	30 - 120	
115 In	1	1760439	0.96	1769666	99.5	30 - 120	
165 Ho	1	4061949	1.79	4052095	100.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\026_CCV.D\026_CCV.D#
 Date Acquired: Jul 7 2009 07:35 pm
 Operator: TEL
 Sample Name: CCV
 QC Summary:
 Sample Type: CCV
 ISTD: Pass
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	49.11	ppb	1.59	50	98.2	90 - 110
51 V	72		1	49.65	ppb	0.84	50	99.3	90 - 110
52 Cr	72		1	49.85	ppb	0.52	50	99.7	90 - 110
55 Mn	72		1	50.18	ppb	0.98	50	100.4	90 - 110
59 Co	72		1	49.63	ppb	0.79	50	99.3	90 - 110
60 Ni	72		1	50.44	ppb	0.39	50	100.9	90 - 110
63 Cu	72		1	49.99	ppb	0.78	50	100.0	90 - 110
66 Zn	72		1	50.56	ppb	0.39	50	101.1	90 - 110
75 As	72		1	50.04	ppb	0.28	50	100.1	90 - 110
78 Se	72		1	51.86	ppb	3.17	50	103.7	90 - 110
95 Mo	72		1	50.35	ppb	0.60	50	100.7	90 - 110
107 Ag	115		1	50.41	ppb	1.84	50	100.8	90 - 110
111 Cd	115		1	50.40	ppb	1.73	50	100.8	90 - 110
118 Sn	115		1	50.13	ppb	1.43	50	100.3	90 - 110
121 Sb	115		1	50.25	ppb	1.11	50	100.5	90 - 110
137 Ba	115		1	50.69	ppb	1.75	50	101.4	90 - 110
205 Tl	165		1	50.76	ppb	0.57	50	101.5	90 - 110
208 Pb	165		1	50.43	ppb	0.52	50	100.9	90 - 110
232 Th	165		1	50.82	ppb	2.31	50	101.6	90 - 110
238 U	165		1	51.44	ppb	0.54	50	102.9	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	371672	0.71	399164	93.1	30 - 120	
45 Sc	1	912752	0.78	940817	97.0	30 - 120	
72 Ge	1	522215	0.41	543541	96.1	30 - 120	
115 In	1	1743103	0.73	1769666	98.5	30 - 120	
165 Ho	1	4005312	0.25	4052095	98.8	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\027_CCB.D\027_CCB.D#
 Date Acquired: Jul 7 2009 07:38 pm
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.015 ppb	86.57	1.00	
51 V	72	1		0.000 ppb	19711.00	1.00	
52 Cr	72	1		-0.001 ppb	6169.20	1.00	
55 Mn	72	1		0.001 ppb	190.49	1.00	
59 Co	72	1		0.008 ppb	39.18	1.00	
60 Ni	72	1		0.019 ppb	96.35	1.00	
63 Cu	72	1		-0.005 ppb	50.33	1.00	
66 Zn	72	1		0.021 ppb	90.07	1.00	
75 As	72	1		0.019 ppb	36.03	1.00	
78 Se	72	1		0.143 ppb	130.86	1.00	
95 Mo	72	1		0.058 ppb	40.81	1.00	
107 Ag	115	1		0.007 ppb	31.96	1.00	
111 Cd	115	1		0.005 ppb	147.19	1.00	
118 Sn	115	1		0.092 ppb	9.40	1.00	
121 Sb	115	1		0.047 ppb	17.39	1.00	
137 Ba	115	1		0.007 ppb	25.78	1.00	
205 Tl	165	1		0.027 ppb	8.32	1.00	
208 Pb	165	1		0.004 ppb	29.24	1.00	
232 Th	165	1		1.122 ppb	18.47	1.00	
238 U	165	1		0.009 ppb	11.87	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	372423	1.23	399164	93.3	30 - 120	
45 Sc	1	912447	0.67	940817	97.0	30 - 120	
72 Ge	1	523888	0.45	543541	96.4	30 - 120	
115 In	1	1734442	0.69	1769666	98.0	30 - 120	
165 Ho	1	3981000	0.53	4052095	98.2	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\028WASH.D\028WASH.D#
 Date Acquired: Jul 7 2009 07:41 pm
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.085 ppb	15.68	1.30	
51 V	72	1		5.132 ppb	0.96	6.50	
52 Cr	72	1		2.054 ppb	3.48	2.60	
55 Mn	72	1		1.017 ppb	4.38	1.30	
59 Co	72	1		1.024 ppb	2.60	1.30	
60 Ni	72	1		2.076 ppb	8.39	2.60	
63 Cu	72	1		2.034 ppb	0.60	2.60	
66 Zn	72	1		10.510 ppb	1.39	13.00	
75 As	72	1		5.147 ppb	1.98	6.50	
78 Se	72	1		4.531 ppb	13.79	6.50	
95 Mo	72	1		2.009 ppb	2.89	2.60	
107 Ag	115	1		5.317 ppb	1.44	6.50	
111 Cd	115	1		1.104 ppb	9.81	1.30	
118 Sn	115	1		10.490 ppb	2.91	13.00	
121 Sb	115	1		1.965 ppb	2.52	2.60	
137 Ba	115	1		1.095 ppb	3.49	1.30	
205 Tl	165	1		1.097 ppb	0.49	1.30	
208 Pb	165	1		1.060 ppb	0.29	1.30	
232 Th	165	1		2.347 ppb	1.47	2.60	
238 U	165	1		1.092 ppb	1.22	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	372721	0.46	399164	93.4	30 - 120	
45 Sc	1	900076	1.60	940817	95.7	30 - 120	
72 Ge	1	524566	0.72	543541	96.5	30 - 120	
115 In	1	1735347	1.19	1769666	98.1	30 - 120	
165 Ho	1	4009833	0.10	4052095	99.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

... "During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: R. J. H.

Date: 7/8/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#
 Date Acquired: Jul 8 2009 12:34 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:32 am
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		-108	246.57
52	Cr	72	1		1653	5.08
55	Mn	72	1		180	17.07
59	Co	72	1		53	59.97
60	Ni	72	1		60	49.96
63	Cu	72	1		533	20.71
66	Zn	72	1		196	14.00
75	As	72	1		38	45.31
78	Se	72	1		217	11.91
95	Mo	72	1		320	5.86
107	Ag	115	1		27	57.06
111	Cd	115	1		9	94.56
118	Sn	115	1		363	7.25
121	Sb	115	1		31	53.98
137	Ba	115	1		28	24.75
205	Tl	165	1		36	19.54
208	Pb	165	1		318	9.95
232	Th	165	1		933	10.49
238	U	165	1		32	6.43

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	359710	0.64
45	Sc	1	999296	0.68
72	Ge	1	590607	0.42
115	In	1	1756110	0.38
165	Ho	1	3599124	0.59

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\135ICAL.D\135ICAL.D#
 Date Acquired: Jul 8 2009 12:37 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:35 am
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD (%)
9 Be	6	1	42456	0.79
51 V	72	1	677901	0.51
52 Cr	72	1	771532	0.97
55 Mn	72	1	701977	0.22
59 Co	72	1	1096247	1.62
60 Ni	72	1	262850	0.23
63 Cu	72	1	658157	0.06
66 Zn	72	1	119936	0.74
75 As	72	1	80646	0.43
78 Se	72	1	11832	3.06
95 Mo	72	1	303504	0.38
107 Ag	115	1	975217	1.48
111 Cd	115	1	166334	0.80
118 Sn	115	1	422146	0.57
121 Sb	115	1	468819	1.26
137 Ba	115	1	186995	0.82
205 Tl	165	1	1941640	2.52
208 Pb	165	1	2617843	1.23
232 Th	165	1	2474288	4.07
238 U	165	1	2935507	0.82

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	357075	1.18	359710	99.3	30 - 120	
45 Sc	1	1009477	1.71	999296	101.0	30 - 120	
72 Ge	1	575763	0.70	590607	97.5	30 - 120	
115 In	1	1747144	0.55	1756110	99.5	30 - 120	
165 Ho	1	3577226	0.83	3599124	99.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\136_CCV.D\136_CCV.D#
 Date Acquired: Jul 8 2009 12:39 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6	1	50.03 ppb	0.56	50	100.1	90 - 110	
51 V	72	1	49.80 ppb	0.84	50	99.6	90 - 110	
52 Cr	72	1	48.81 ppb	0.12	50	97.6	90 - 110	
55 Mn	72	1	49.22 ppb	0.79	50	98.4	90 - 110	
59 Co	72	1	48.81 ppb	0.80	50	97.6	90 - 110	
60 Ni	72	1	49.71 ppb	0.88	50	99.4	90 - 110	
63 Cu	72	1	49.20 ppb	0.30	50	98.4	90 - 110	
66 Zn	72	1	50.04 ppb	1.12	50	100.1	90 - 110	
75 As	72	1	49.55 ppb	0.66	50	99.1	90 - 110	
78 Se	72	1	48.70 ppb	7.53	50	97.4	90 - 110	
95 Mo	72	1	49.10 ppb	0.65	50	98.2	90 - 110	
107 Ag	115	1	49.02 ppb	1.24	50	98.0	90 - 110	
111 Cd	115	1	48.83 ppb	0.79	50	97.7	90 - 110	
118 Sn	115	1	49.21 ppb	0.47	50	98.4	90 - 110	
121 Sb	115	1	48.89 ppb	1.07	50	97.8	90 - 110	
137 Ba	115	1	49.18 ppb	0.88	50	98.4	90 - 110	
205 Tl	165	1	49.43 ppb	0.66	50	98.9	90 - 110	
208 Pb	165	1	49.64 ppb	0.67	50	99.3	90 - 110	
232 Th	165	1	51.45 ppb	2.27	50	102.9	90 - 110	
238 U	165	1	49.34 ppb	1.31	50	98.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	348155	0.34	359710	96.8	30 - 120	
45 Sc	1	976535	2.40	999296	97.7	30 - 120	
72 Ge	1	566977	0.68	590607	96.0	30 - 120	
115 In	1	1731189	0.46	1756110	98.6	30 - 120	
165 Ho	1	3536295	0.16	3599124	98.3	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\137_CCB.D\137_CCB.D#
 Date Acquired: Jul 8 2009 12:42 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.024 ppb	99.58	1.00	
51 V	72	1		0.018 ppb	61.07	1.00	
52 Cr	72	1		0.001 ppb	352.73	1.00	
55 Mn	72	1		0.009 ppb	40.91	1.00	
59 Co	72	1		0.004 ppb	59.53	1.00	
60 Ni	72	1		0.011 ppb	122.18	1.00	
63 Cu	72	1		-0.021 ppb	21.33	1.00	
66 Zn	72	1		0.001 ppb	4545.90	1.00	
75 As	72	1		0.007 ppb	98.54	1.00	
78 Se	72	1		-0.199 ppb	427.62	1.00	
95 Mo	72	1		-0.036 ppb	15.25	1.00	
107 Ag	115	1		0.005 ppb	44.75	1.00	
111 Cd	115	1		0.002 ppb	424.36	1.00	
118 Sn	115	1		0.109 ppb	9.40	1.00	
121 Sb	115	1		0.074 ppb	8.54	1.00	
137 Ba	115	1		0.002 ppb	210.19	1.00	
205 Tl	165	1		0.040 ppb	5.51	1.00	
208 Pb	165	1		0.004 ppb	85.66	1.00	
232 Th	165	1		1.629 ppb	17.97	1.00	
238 U	165	1		0.015 ppb	10.32	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	350828	0.66	359710	97.5	30 - 120	
45 Sc	1	973486	2.25	999296	97.4	30 - 120	
72 Ge	1	570555	0.38	590607	96.6	30 - 120	
115 In	1	1720156	0.91	1756110	98.0	30 - 120	
165 Ho	1	3509645	0.62	3599124	97.5	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\138WASH.D\138WASH.D#
 Date Acquired: Jul 8 2009 12:45 am
 Operator: TEL
 Sample Name: RLCV
 QC Summary:
 Sample Type: WASH
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Total Dil Factor: 1.00
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.979 ppb	34.30	1.30	
51 V	72	1		5.068 ppb	3.72	6.50	
52 Cr	72	1		2.018 ppb	2.07	2.60	
55 Mn	72	1		1.014 ppb	4.96	1.30	
59 Co	72	1		0.964 ppb	1.37	1.30	
60 Ni	72	1		2.014 ppb	1.39	2.60	
63 Cu	72	1		1.962 ppb	1.29	2.60	
66 Zn	72	1		10.290 ppb	2.60	13.00	
75 As	72	1		4.998 ppb	2.58	6.50	
78 Se	72	1		5.245 ppb	9.66	6.50	
95 Mo	72	1		1.966 ppb	4.66	2.60	
107 Ag	115	1		5.162 ppb	1.02	6.50	
111 Cd	115	1		1.074 ppb	10.21	1.30	
118 Sn	115	1		10.220 ppb	1.85	13.00	
121 Sb	115	1		1.873 ppb	2.04	2.60	
137 Ba	115	1		1.017 ppb	3.52	1.30	
205 Tl	165	1		1.072 ppb	1.31	1.30	
208 Pb	165	1		1.039 ppb	0.84	1.30	
232 Th	165	1		2.457 ppb	2.48	2.60	
238 U	165	1		1.060 ppb	0.72	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	352388	0.22	359710	98.0	30 - 120		
45 Sc	1	974978	1.17	999296	97.6	30 - 120		
72 Ge	1	572889	0.46	590607	97.0	30 - 120		
115 In	1	1728325	1.17	1756110	98.4	30 - 120		
165 Ho	1	3531685	0.46	3599124	98.1	30 - 120		

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

..."During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: R. Hill

Date: 7/8/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#
 Date Acquired: Jul 8 2009 03:11 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:09 am
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	47	12.40
51	V	72	1	787	32.57
52	Cr	72	1	2124	8.83
55	Mn	72	1	710	12.00
59	Co	72	1	793	13.54
60	Ni	72	1	193	12.58
63	Cu	72	1	983	2.95
66	Zn	72	1	233	6.23
75	As	72	1	80	6.77
78	Se	72	1	123	41.18
95	Mo	72	1	393	12.48
107	Ag	115	1	520	5.05
111	Cd	115	1	120	31.74
118	Sn	115	1	470	10.83
121	Sb	115	1	266	8.80
137	Ba	115	1	160	12.69
205	Tl	165	1	1422	3.79
208	Pb	165	1	2148	3.03
232	Th	165	1	2184	2.94
238	U	165	1	2117	5.20

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)
6	Li	1	329497
45	Sc	1	923934
72	Ge	1	537691
115	In	1	1636252
165	Ho	1	3317690

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\192ICAL.D\192ICAL.D#
 Date Acquired: Jul 8 2009 03:14 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:12 am
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD (%)
9 Be	6	1	37983	0.96
51 V	72	1	590758	0.60
52 Cr	72	1	673559	0.37
55 Mn	72	1	620805	0.16
59 Co	72	1	967031	2.23
60 Ni	72	1	227670	1.37
63 Cu	72	1	571687	0.80
66 Zn	72	1	106169	0.59
75 As	72	1	72411	0.33
78 Se	72	1	10728	2.94
95 Mo	72	1	270653	0.50
107 Ag	115	1	869708	0.62
111 Cd	115	1	148986	0.81
118 Sn	115	1	379638	0.60
121 Sb	115	1	426526	0.88
137 Ba	115	1	171103	0.67
205 Tl	165	1	1790669	1.13
208 Pb	165	1	2428403	1.42
232 Th	165	1	2283140	3.94
238 U	165	1	2703171	1.85

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	320799	1.12	329497	97.4	30 - 120	
45 Sc	1	893683	1.39	923934	96.7	30 - 120	
72 Ge	1	515008	0.49	537691	95.8	30 - 120	
115 In	1	1607003	0.57	1636252	98.2	30 - 120	
165 Ho	1	3289965	1.41	3317690	99.2	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\193_CCV.D\193_CCV.D#
 Date Acquired: Jul 8 2009 03:17 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		51.37 ppb	1.18	50	102.7	90 - 110	
51 V	72	1		49.40 ppb	0.29	50	98.8	90 - 110	
52 Cr	72	1		49.31 ppb	0.30	50	98.6	90 - 110	
55 Mn	72	1		49.21 ppb	0.48	50	98.4	90 - 110	
59 Co	72	1		48.56 ppb	0.78	50	97.1	90 - 110	
60 Ni	72	1		49.78 ppb	0.43	50	99.6	90 - 110	
63 Cu	72	1		49.47 ppb	0.77	50	98.9	90 - 110	
66 Zn	72	1		50.01 ppb	1.68	50	100.0	90 - 110	
75 As	72	1		49.44 ppb	0.35	50	98.9	90 - 110	
78 Se	72	1		48.63 ppb	2.94	50	97.3	90 - 110	
95 Mo	72	1		48.81 ppb	1.21	50	97.6	90 - 110	
107 Ag	115	1		48.99 ppb	0.59	50	98.0	90 - 110	
111 Cd	115	1		49.48 ppb	1.23	50	99.0	90 - 110	
118 Sn	115	1		49.38 ppb	0.49	50	98.8	90 - 110	
121 Sb	115	1		49.15 ppb	0.49	50	98.3	90 - 110	
137 Ba	115	1		49.39 ppb	0.43	50	98.8	90 - 110	
205 Tl	165	1		49.73 ppb	0.25	50	99.5	90 - 110	
208 Pb	165	1		49.61 ppb	0.24	50	99.2	90 - 110	
232 Th	165	1		52.01 ppb	3.77	50	104.0	90 - 110	
238 U	165	1		50.63 ppb	2.22	50	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	312657	0.23	329497	94.9	30 - 120	
45 Sc	1	867791	0.16	923934	93.9	30 - 120	
72 Ge	1	507091	0.42	537691	94.3	30 - 120	
115 In	1	1598177	0.57	1636252	97.7	30 - 120	
165 Ho	1	3265322	0.69	3317690	98.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\194_CCB.D\194_CCB.D#
 Date Acquired: Jul 8 2009 03:20 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.084 ppb	18.39	1.00	
51 V	72	1		-0.120 ppb	38.41	1.00	
52 Cr	72	1		-0.087 ppb	16.03	1.00	
55 Mn	72	1		-0.075 ppb	5.53	1.00	
59 Co	72	1		-0.070 ppb	4.75	1.00	
60 Ni	72	1		-0.049 ppb	22.79	1.00	
63 Cu	72	1		-0.104 ppb	7.77	1.00	
66 Zn	72	1		-0.042 ppb	50.42	1.00	
75 As	72	1		-0.052 ppb	34.22	1.00	
78 Se	72	1		0.406 ppb	70.84	1.00	
95 Mo	72	1		-0.035 ppb	27.06	1.00	
107 Ag	115	1		-0.049 ppb	7.23	1.00	
111 Cd	115	1		-0.064 ppb	15.98	1.00	
118 Sn	115	1		0.104 ppb	9.70	1.00	
121 Sb	115	1		0.027 ppb	34.63	1.00	
137 Ba	115	1		-0.070 ppb	20.68	1.00	
205 Tl	165	1		-0.039 ppb	2.30	1.00	
208 Pb	165	1		-0.071 ppb	0.34	1.00	
232 Th	165	1		1.621 ppb	15.08	1.00	
238 U	165	1		-0.059 ppb	2.23	1.00	Fail

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	314922	1.32	329497	95.6	30 - 120		
45 Sc	1	871707	1.17	923934	94.3	30 - 120		
72 Ge	1	510835	0.37	537691	95.0	30 - 120		
115 In	1	1597977	0.22	1636252	97.7	30 - 120		
165 Ho	1	3242965	0.51	3317690	97.7	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed

0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\195WASH.D\195WASH.D#
 Date Acquired: Jul 8 2009 03:22 am
 Operator: TEL
 Sample Name: RLCV
 QC Summary:
 Misc Info: Analytes: Pass
 Vial Number: ISTD: Pass
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6		1	0.890 ppb	14.75	1.30	
51 V	72		1	4.897 ppb	2.77	6.50	
52 Cr	72		1	1.911 ppb	3.39	2.60	
55 Mn	72		1	0.949 ppb	2.25	1.30	
59 Co	72		1	0.903 ppb	4.78	1.30	
60 Ni	72		1	2.026 ppb	4.41	2.60	
63 Cu	72		1	1.955 ppb	4.91	2.60	
66 Zn	72		1	10.300 ppb	0.93	13.00	
75 As	72		1	4.965 ppb	1.73	6.50	
78 Se	72		1	4.916 ppb	5.07	6.50	
95 Mo	72		1	1.920 ppb	6.90	2.60	
107 Ag	115		1	5.018 ppb	2.30	6.50	
111 Cd	115		1	0.983 ppb	5.18	1.30	
118 Sn	115		1	10.270 ppb	2.27	13.00	
121 Sb	115		1	1.861 ppb	3.73	2.60	
137 Ba	115		1	0.993 ppb	1.75	1.30	
205 Tl	165		1	0.996 ppb	0.64	1.30	
208 Pb	165		1	0.959 ppb	1.63	1.30	
232 Th	165		1	2.396 ppb	0.80	2.60	
238 U	165		1	0.989 ppb	0.61	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	315380	0.22	329497	95.7	30 - 120	
45 Sc	1	870144	1.46	923934	94.2	30 - 120	
72 Ge	1	515151	0.12	537691	95.8	30 - 120	
115 In	1	1604946	1.44	1636252	98.1	30 - 120	
165 Ho	1	3272545	0.17	3317690	98.6	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\196_BLK.D\196_BLK.D#
 Date Acquired: Jul 8 2009 03:25 am
 Operator: TEL
 Sample Name: LF3X8B
 Misc Info: BLANK 9187169 6020
 Vial Number: 3503
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: BLK
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.111 ppb	14.37	2.00	
51 V	72	1		-0.143 ppb	22.14	2.00	
52 Cr	72	1		0.088 ppb	25.46	2.00	
55 Mn	72	1		0.022 ppb	72.49	2.00	
59 Co	72	1		-0.073 ppb	1.68	2.00	
60 Ni	72	1		-0.048 ppb	47.35	2.00	
63 Cu	72	1		-0.075 ppb	17.97	2.00	
66 Zn	72	1		0.343 ppb	6.48	2.00	
75 As	72	1		-0.065 ppb	10.25	2.00	
78 Se	72	1		0.073 ppb	198.06	2.00	
95 Mo	72	1		-0.093 ppb	14.21	2.00	
107 Ag	115	1		-0.056 ppb	4.86	2.00	
111 Cd	115	1		-0.069 ppb	7.37	2.00	
118 Sn	115	1		0.028 ppb	29.66	2.00	
121 Sb	115	1		-0.022 ppb	12.73	2.00	
137 Ba	115	1		0.049 ppb	34.11	2.00	
205 Tl	165	1		-0.048 ppb	14.71	2.00	
208 Pb	165	1		-0.072 ppb	4.45	2.00	
232 Th	165	1		0.357 ppb	15.29	2.00	
238 U	165	1		-0.073 ppb	0.85	2.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	308912	0.48	329497	93.8	30 - 120		
45 Sc	1	855299	0.36	923934	92.6	30 - 120		
72 Ge	1	504085	0.32	537691	93.7	30 - 120		
115 In	1	1565996	0.39	1636252	95.7	30 - 120		
165 Ho	1	3239289	0.59	3317690	97.6	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\197_LCS.D\197_LCS.D#
 Date Acquired: Jul 8 2009 03:28 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF3X8C
 Misc Info: LCS
 Vial Number: 3504
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: LCS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS	Ref	Tune	Conc. ppb	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6	1		38.86	1.75	40	97.2	80 - 120	
51 V	72	1		39.63	0.49	40	99.1	80 - 120	
52 Cr	72	1		40.02	0.68	40	100.1	80 - 120	
55 Mn	72	1		40.62	0.35	40	101.6	80 - 120	
59 Co	72	1		39.25	1.08	40	98.1	80 - 120	
60 Ni	72	1		39.95	1.18	40	99.9	80 - 120	
63 Cu	72	1		40.14	1.29	40	100.4	80 - 120	
66 Zn	72	1		40.71	1.59	40	101.8	80 - 120	
75 As	72	1		38.49	1.93	40	96.2	80 - 120	
78 Se	72	1		40.01	5.25	40	100.0	80 - 120	
95 Mo	72	1		39.16	1.42	40	97.9	80 - 120	
107 Ag	115	1		39.55	0.32	40	98.9	80 - 120	
111 Cd	115	1		39.19	0.84	40	98.0	80 - 120	
118 Sn	115	1		0.02	139.60	40	0.1	80 - 120	
121 Sb	115	1		38.95	0.64	40	97.4	80 - 120	
137 Ba	115	1		40.06	0.36	40	100.2	80 - 120	
205 Tl	165	1		40.26	0.62	40	100.7	80 - 120	
208 Pb	165	1		40.13	0.65	40	100.3	80 - 120	
232 Th	165	1		42.28	2.59	40	105.7	80 - 120	
238 U	165	1		40.83	2.22	40	102.1	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	309475	0.68	329497	93.9	30 - 120	
45 Sc	1	847752	1.13	923934	91.8	30 - 120	
72 Ge	1	491519	0.71	537691	91.4	30 - 120	
115 In	1	1562031	0.44	1636252	95.5	30 - 120	
165 Ho	1	3240093	0.07	3317690	97.7	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\198SMPL.D\198SMPL.D#
 Date Acquired: Jul 8 2009 03:31 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LFX9W 10X
 Misc Info: D9G010276
 Vial Number: 3505
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		-1.01	-0.10	ppb	16.17	3600	
51 V	72	1		61.18	6.12	ppb	1.67	3600	
52 Cr	72	1		63.45	6.35	ppb	1.27	3600	
55 Mn	72	1		50.25	5.03	ppb	0.75	3600	
59 Co	72	1		-0.09	-0.01	ppb	147.90	3600	
60 Ni	72	1		5.70	0.57	ppb	1.70	3600	
63 Cu	72	1		0.71	0.07	ppb	15.94	3600	
66 Zn	72	1		3.77	0.38	ppb	12.56	3600	
75 As	72	1		122.60	12.26	ppb	2.27	3600	
78 Se	72	1		2.11	0.21	ppb	143.15	3600	
95 Mo	72	1		38.17	3.82	ppb	1.52	3600	
107 Ag	115	1		-0.49	-0.05	ppb	11.51	3600	
111 Cd	115	1		-0.23	-0.02	ppb	115.49	3600	
118 Sn	115	1		-0.15	-0.02	ppb	88.84	3600	
121 Sb	115	1		0.18	0.02	ppb	24.20	3600	
137 Ba	115	1		36.07	3.61	ppb	1.17	3600	
205 Tl	165	1		-0.14	-0.01	ppb	67.32	3600	
208 Pb	165	1		-0.53	-0.05	ppb	7.58	3600	
232 Th	165	1		10.00	1.00	ppb	19.72	1000	
238 U	165	1		31.50	3.15	ppb	1.87	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	298817	0.21	329497	90.7	30 - 120	
45 Sc	1	813176	1.09	923934	88.0	30 - 120	
72 Ge	1	476045	0.77	537691	88.5	30 - 120	
115 In	1	1460770	1.60	1636252	89.3	30 - 120	
165 Ho	1	3099895	1.11	3317690	93.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\199AREF.D\199AREF.D#
 Date Acquired: Jul 8 2009 03:33 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1 10X
 Misc Info: D9G020221
 Vial Number: 3506
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: AllRef
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	14.58	3600	
51 V	72	1		26.83	2.68	ppb	5.07	3600	
52 Cr	72	1		35.13	3.51	ppb	5.16	3600	
55 Mn	72	1		21.07	2.11	ppb	3.46	3600	
59 Co	72	1		-0.22	-0.02	ppb	17.03	3600	
60 Ni	72	1		2.83	0.28	ppb	3.65	3600	
63 Cu	72	1		-0.57	-0.06	ppb	4.46	3600	
66 Zn	72	1		4.00	0.40	ppb	14.70	3600	
75 As	72	1		146.20	14.62	ppb	0.84	3600	
78 Se	72	1		1.49	0.15	ppb	173.83	3600	
95 Mo	72	1		28.76	2.88	ppb	1.48	3600	
107 Ag	115	1		-0.52	-0.05	ppb	3.71	3600	
111 Cd	115	1		-0.73	-0.07	ppb	11.57	3600	
118 Sn	115	1		-0.15	-0.02	ppb	80.22	3600	
121 Sb	115	1		-0.20	-0.02	ppb	46.22	3600	
137 Ba	115	1		35.77	3.58	ppb	3.81	3600	
205 Tl	165	1		-0.26	-0.03	ppb	5.20	3600	
208 Pb	165	1		-0.34	-0.03	ppb	6.60	3600	
232 Th	165	1		2.33	0.23	ppb	11.27	1000	
238 U	165	1		51.74	5.17	ppb	0.84	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	302264	0.35	329497	91.7	30 - 120	
45 Sc	1	828840	0.29	923934	89.7	30 - 120	
72 Ge	1	473915	0.52	537691	88.1	30 - 120	
115 In	1	1472330	0.26	1636252	90.0	30 - 120	
165 Ho	1	3122477	0.43	3317690	94.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :Max. Number of Failures Allowed
 0 :ISTD Failures
 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\200SDIL.D\200SDIL.D#
 Date Acquired: Jul 8 2009 03:36 am **QC Summary:**
 Acq. Method: NormISIS.M **Analytes:** Pass
 Operator: TEL **ISTD:** Pass
 Sample Name: LF1T1P50
 Misc Info: SERIAL DILUTION
 Vial Number: 3507
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SDIL
 Dilution Factor: 10.00
 Dilution Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\199AREF.D\199AREF.D#

QC elements

Element	IS	Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1		-0.12 ppb	0.00	-0.02	542.1	90 - 110	
51 V	72	1		0.43 ppb	22.54	0.54	80.8	90 - 110	
52 Cr	72	1		0.77 ppb	2.96	0.70	110.0	90 - 110	
55 Mn	72	1		0.41 ppb	7.95	0.42	96.3	90 - 110	
59 Co	72	1		-0.06 ppb	12.54	0.00	1445.1	90 - 110	
60 Ni	72	1		0.14 ppb	10.79	0.06	239.0	90 - 110	
63 Cu	72	1		-0.09 ppb	8.69	-0.01	769.3	90 - 110	
66 Zn	72	1		0.06 ppb	12.53	0.08	69.5	90 - 110	
75 As	72	1		2.91 ppb	1.88	2.92	99.6	90 - 110	
78 Se	72	1		0.18 ppb	93.39	0.03	604.0	90 - 110	
95 Mo	72	1		0.51 ppb	14.47	0.58	88.1	90 - 110	
107 Ag	115	1		-0.06 ppb	2.15	-0.01	556.9	90 - 110	
111 Cd	115	1		-0.07 ppb	7.09	-0.01	494.4	90 - 110	
118 Sn	115	1		-0.04 ppb	26.17	0.00	1459.1	90 - 110	
121 Sb	115	1		-0.04 ppb	2.06	0.00	1060.0	90 - 110	
137 Ba	115	1		0.66 ppb	3.84	0.72	91.7	90 - 110	
205 Tl	165	1		-0.07 ppb	1.98	-0.01	1246.5	90 - 110	
208 Pb	165	1		-0.07 ppb	1.76	-0.01	1003.2	90 - 110	
232 Th	165	1		0.02 ppb	32.04	0.05	44.4	90 - 110	
238 U	165	1		1.01 ppb	1.78	1.03	97.1	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	306409	0.97	329497	93.0	30 - 120	
45 Sc	1	817720	1.55	923934	88.5	30 - 120	
72 Ge	1	487420	0.68	537691	90.7	30 - 120	
115 In	1	1501254	0.50	1636252	91.7	30 - 120	
165 Ho	1	3122338	0.78	3317690	94.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Denver

SERIAL DILUTION

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:47

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1T1P50

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500
 File: AG070709B # 200
 Acquired: 07/08/2009 03:36:00
 Calibrated: 07/08/2009 03:11:00

Channel 272
 Method 6020
 ICPMS_024

Matrix: AQUEOUS
 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9		-5.9850	-1.1040			*	
7440-62-2	Vanadium	51	3138	21.690	26.830	19.2		*	
7440-47-3	Chromium	52	6839	38.655	35.130	10.0		*	
7439-96-5	Manganese	55	3024	20.280	21.070	3.75		*	
7440-48-4	Cobalt	59	137	-3.1835	-0.22030			*	
7440-02-0	Nickel	60	467	6.7700	2.8330	139		*	
7440-50-8	Copper	63	417	-4.3940	-0.57120			*	
7440-66-6	Zinc	66	267	2.7800	3.9980	30.5		*	
7440-38-2	Arsenic	75	2067	145.65	146.20	0.376	0.21	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	130	9.0000	1.4900	504	0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	1653	25.350	28.760	11.9		*	
7440-22-4	Silver	107	10	-2.8760	-0.51640			*	
7440-43-9	Cadmium	111	10	-3.6020	-0.72860			*	
7440-31-5	Tin	118	273	-2.2280	-0.15270			*	
7440-36-0	Antimony	121	76	-2.1105	-0.19910			*	
7440-39-3	Barium	137	1195	32.805	35.770	8.29		*	
7440-28-0	Thallium	205	229	-3.2670	-0.26210			*	
7439-92-1	Lead	208	436	-3.4430	-0.34320			*	
7440-61-1	Uranium	238	27759	50.250	51.740	2.88		*	
7440-29-1	Thorium	232	2504	1.0345	2.3280	55.6		*	
7439-93-2	Lithium	6			0			*	
7440-20-2	Scandium	45			0			*	
7440-74-6	Indium	115			0			*	
7440-56-4	Germanium	72			0			*	
7440-60-0	Holmium	165			0			*	

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: LRD

Date: 7/8/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\201PDS.D\201PDS.D#
 Date Acquired: Jul 8 2009 03:39 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1Z
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3508
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: PDS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1		195.00	-0.11	ppb	1.02	200	97.6	75 - 125
51 V	72	1		206.10	2.68	ppb	0.66	200	101.7	75 - 125
52 Cr	72	1		202.40	3.51	ppb	1.34	200	99.5	75 - 125
55 Mn	72	1		201.50	2.11	ppb	1.74	200	99.7	75 - 125
59 Co	72	1		186.40	-0.02	ppb	1.81	200	93.2	75 - 125
60 Ni	72	1		180.40	0.28	ppb	0.96	200	90.1	75 - 125
63 Cu	72	1		179.90	-0.06	ppb	0.07	200	90.0	75 - 125
66 Zn	72	1		189.50	0.40	ppb	0.35	200	94.6	75 - 125
75 As	72	1		208.70	14.62	ppb	0.45	200	97.2	75 - 125
78 Se	72	1		192.40	0.15	ppb	2.03	200	96.1	75 - 125
95 Mo	72	1		201.50	2.88	ppb	0.53	200	99.3	75 - 125
107 Ag	115	1		44.66	-0.05	ppb	1.40	50	89.4	75 - 125
111 Cd	115	1		190.00	-0.07	ppb	1.02	200	95.0	75 - 125
118 Sn	115	1		174.80	-0.02	ppb	1.29	200	87.4	75 - 125
121 Sb	115	1		193.50	-0.02	ppb	1.11	200	96.8	75 - 125
137 Ba	115	1		195.30	3.58	ppb	1.09	200	95.9	75 - 125
205 Tl	165	1		183.40	-0.03	ppb	0.91	200	91.7	75 - 125
208 Pb	165	1		183.10	-0.03	ppb	0.56	200	91.6	75 - 125
232 Th	165	1		0.04	0.23	ppb	25.36	200	0.0	75 - 125
238 U	165	1		195.00	5.17	ppb	0.71	200	95.0	75 - 125

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	295099	0.92	329497	89.6	30 - 120	
45 Sc	1	798746	0.54	923934	86.5	30 - 120	
72 Ge	1	458704	0.57	537691	85.3	30 - 120	
115 In	1	1449786	0.98	1636252	88.6	30 - 120	
165 Ho	1	3084504	0.31	3317690	93.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Denver

SAMPLE SPIKE

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:52

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1T1Z

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG070709B # 201

Method 6020_

Acquired: 07/08/2009 03:39:00

ICPMS_024

Calibrated: 07/08/2009 03:11:00

Matrix: AQUEOUS

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	68089	195.00	-0.11040	97.5	200	<input checked="" type="checkbox"/>	
7440-62-2	Vanadium	51	1083840	206.10	2.6830	102	200	<input type="checkbox"/>	
7440-47-3	Chromium	52	1212510	202.40	3.5130	99.4	200	<input checked="" type="checkbox"/>	
7439-96-5	Manganese	55	1113340	201.50	2.1070	99.7	200	<input checked="" type="checkbox"/>	
7440-48-4	Cobalt	59	1605230	186.40	-0.02203	93.2	200	<input type="checkbox"/>	
7440-02-0	Nickel	60	365567	180.40	0.28330	90.1	200	<input checked="" type="checkbox"/>	
7440-50-8	Copper	63	915406	179.90	-0.05712	89.9	200	<input type="checkbox"/>	
7440-66-6	Zinc	66	179019	189.50	0.39980	94.6	200	<input type="checkbox"/>	
7440-38-2	Arsenic	75	134530	208.70	14.620	97.0	200	<input checked="" type="checkbox"/>	
7782-49-2	Selenium	78	18293	192.40	0.14900	96.1	200	<input checked="" type="checkbox"/>	
7439-98-7	Molybdenum	95	485366	201.50	2.8760	99.3	200	<input type="checkbox"/>	
7440-22-4	Silver	107	350636	44.660	-0.05164	89.3	50.0	<input checked="" type="checkbox"/>	
7440-43-9	Cadmium	111	255254	190.00	-0.07286	95.0	200	<input checked="" type="checkbox"/>	
7440-31-5	Tin	118	598539	174.80	-0.01527	87.4	200	<input type="checkbox"/>	
7440-36-0	Antimony	121	744129	193.50	-0.01991	96.8	200	<input checked="" type="checkbox"/>	
7440-39-3	Barium	137	301297	195.30	3.5770	95.9	200	<input checked="" type="checkbox"/>	
7440-28-0	Thallium	205	3077580	183.40	-0.02621	91.7	200	<input checked="" type="checkbox"/>	
7439-92-1	Lead	208	4167550	183.10	-0.03432	91.6	200	<input checked="" type="checkbox"/>	
7440-61-1	Uranium	238	4940350	195.00	5.1740	94.9	200	<input type="checkbox"/>	
7440-29-1	Thorium	232	2814	0.03664	0.23280				
7439-93-2	Lithium	6			0				
7440-20-2	Scandium	45			0				
7440-74-6	Indium	115			0				
7440-56-4	Germanium	72			0				
7440-60-0	Holmium	165			0				

Reviewed by:

LRD

Date:

7/3/09

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\202_CCV.D\202_CCV.D#
 Date Acquired: Jul 8 2009 03:42 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	47.32 ppb	4.45	50	94.6	90 - 110	
51 V	72	1	48.56 ppb	2.15	50	97.1	90 - 110	
52 Cr	72	1	48.47 ppb	1.10	50	96.9	90 - 110	
55 Mn	72	1	48.67 ppb	1.05	50	97.3	90 - 110	
59 Co	72	1	47.81 ppb	0.57	50	95.6	90 - 110	
60 Ni	72	1	48.91 ppb	2.39	50	97.8	90 - 110	
63 Cu	72	1	48.60 ppb	0.23	50	97.2	90 - 110	
66 Zn	72	1	49.34 ppb	0.33	50	98.7	90 - 110	
75 As	72	1	48.30 ppb	0.91	50	96.6	90 - 110	
78 Se	72	1	47.24 ppb	3.83	50	94.5	90 - 110	
95 Mo	72	1	48.94 ppb	0.93	50	97.9	90 - 110	
107 Ag	115	1	48.30 ppb	1.69	50	96.6	90 - 110	
111 Cd	115	1	48.40 ppb	0.91	50	96.8	90 - 110	
118 Sn	115	1	49.12 ppb	1.53	50	98.2	90 - 110	
121 Sb	115	1	48.80 ppb	0.84	50	97.6	90 - 110	
137 Ba	115	1	49.06 ppb	1.12	50	98.1	90 - 110	
205 Tl	165	1	49.87 ppb	0.87	50	99.7	90 - 110	
208 Pb	165	1	49.89 ppb	0.70	50	99.8	90 - 110	
232 Th	165	1	49.03 ppb	4.45	50	98.1	90 - 110	
238 U	165	1	50.92 ppb	0.04	50	101.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300696	0.39	329497	91.3	30 - 120	
45 Sc	1	800121	0.63	923934	86.6	30 - 120	
72 Ge	1	474172	0.25	537691	88.2	30 - 120	
115 In	1	1518112	0.41	1636252	92.8	30 - 120	
165 Ho	1	3159432	0.87	3317690	95.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\203_CCB.D\203_CCB.D#
 Date Acquired: Jul 8 2009 03:44 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.073 ppb	22.56	1.00	
51 V	72	1		-0.148 ppb	13.57	1.00	
52 Cr	72	1		-0.089 ppb	20.09	1.00	
55 Mn	72	1		-0.080 ppb	7.45	1.00	
59 Co	72	1		-0.066 ppb	7.61	1.00	
60 Ni	72	1		-0.058 ppb	13.80	1.00	
63 Cu	72	1		-0.087 ppb	11.82	1.00	
66 Zn	72	1		-0.044 ppb	19.48	1.00	
75 As	72	1		-0.050 ppb	50.18	1.00	
78 Se	72	1		0.148 ppb	196.07	1.00	
95 Mo	72	1		-0.064 ppb	34.61	1.00	
107 Ag	115	1		-0.046 ppb	7.97	1.00	
111 Cd	115	1		-0.062 ppb	4.81	1.00	
118 Sn	115	1		0.151 ppb	2.16	1.00	
121 Sb	115	1		0.041 ppb	24.96	1.00	
137 Ba	115	1		-0.069 ppb	2.93	1.00	
205 Tl	165	1		-0.047 ppb	4.47	1.00	
208 Pb	165	1		-0.069 ppb	2.47	1.00	
232 Th	165	1		1.189 ppb	15.23	1.00	
238 U	165	1		-0.059 ppb	2.72	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300372	0.94	329497	91.2	30 - 120	
45 Sc	1	824755	0.34	923934	89.3	30 - 120	
72 Ge	1	487346	0.22	537691	90.6	30 - 120	
115 In	1	1530334	0.08	1636252	93.5	30 - 120	
165 Ho	1	3250949	0.58	3317690	98.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\204WASH.D\204WASH.D#
 Date Acquired: Jul 8 2009 03:47 am
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.887 ppb	13.84	1.30	
51 V	72	1		4.966 ppb	1.32	6.50	
52 Cr	72	1		1.952 ppb	4.40	2.60	
55 Mn	72	1		0.945 ppb	4.12	1.30	
59 Co	72	1		0.923 ppb	1.79	1.30	
60 Ni	72	1		1.869 ppb	6.37	2.60	
63 Cu	72	1		1.957 ppb	3.56	2.60	
66 Zn	72	1		10.410 ppb	1.14	13.00	
75 As	72	1		4.964 ppb	3.35	6.50	
78 Se	72	1		4.239 ppb	29.58	6.50	
95 Mo	72	1		1.941 ppb	1.48	2.60	
107 Ag	115	1		5.096 ppb	0.81	6.50	
111 Cd	115	1		0.983 ppb	4.20	1.30	
118 Sn	115	1		10.320 ppb	1.14	13.00	
121 Sb	115	1		1.875 ppb	1.91	2.60	
137 Ba	115	1		0.954 ppb	4.91	1.30	
205 Tl	165	1		1.003 ppb	1.63	1.30	
208 Pb	165	1		0.988 ppb	1.52	1.30	
232 Th	165	1		2.372 ppb	1.00	2.60	
238 U	165	1		1.026 ppb	1.50	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	296961	0.40	329497	90.1	30 - 120	
45 Sc	1	804867	0.71	923934	87.1	30 - 120	
72 Ge	1	480975	0.57	537691	89.5	30 - 120	
115 In	1	1508499	0.40	1636252	92.2	30 - 120	
165 Ho	1	3156976	0.99	3317690	95.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\205_MS.D\205_MS.D#
 Date Acquired: Jul 8 2009 03:50 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1S 10X
 Misc Info: MATRIX SPIKE
 Vial Number: 3509
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: MS
 Prep Dil. Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00
 Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD (%)	Spk Amt	Rec (%)	QC Range (%)	QC Flag
9 Be	6	1		3.75	-0.11	ppb	4.17	40	9.4	50 - 150
51 V	72	1		6.95	2.68	ppb	4.03	40	16.3	50 - 150
52 Cr	72	1		7.67	3.51	ppb	1.78	40	17.6	50 - 150
55 Mn	72	1		6.18	2.11	ppb	1.38	40	14.7	50 - 150
59 Co	72	1		3.84	-0.02	ppb	1.21	40	9.6	50 - 150
60 Ni	72	1		4.04	0.28	ppb	3.33	40	10.0	50 - 150
63 Cu	72	1		3.74	-0.06	ppb	0.63	40	9.4	50 - 150
66 Zn	72	1		4.77	0.40	ppb	2.06	40	11.8	50 - 150
75 As	72	1		19.07	14.62	ppb	1.00	40	34.9	50 - 150
78 Se	72	1		4.80	0.15	ppb	15.90	40	12.0	50 - 150
95 Mo	72	1		6.83	2.88	ppb	2.62	40	15.9	50 - 150
107 Ag	115	1		3.76	-0.05	ppb	4.01	40	9.4	50 - 150
111 Cd	115	1		3.95	-0.07	ppb	0.84	40	9.9	50 - 150
118 Sn	115	1		0.04	-0.02	ppb	46.43	40	0.1	50 - 150
121 Sb	115	1		4.16	-0.02	ppb	1.15	40	10.4	50 - 150
137 Ba	115	1		7.82	3.58	ppb	1.25	40	17.9	50 - 150
205 Tl	165	1		4.00	-0.03	ppb	1.75	40	10.0	50 - 150
208 Pb	165	1		3.90	-0.03	ppb	0.41	40	9.7	50 - 150
232 Th	165	1		4.37	0.23	ppb	1.58	40	10.9	50 - 150
238 U	165	1		9.47	5.17	ppb	0.53	40	21.0	50 - 150

ISTD Elements

Element	Tune	Counts	RSD (%)	Ref. Counts	Rec (%)	QC Range (%)	QC Flag
6 Li	1	291491	1.20	329497	88.5	30 - 120	
45 Sc	1	807321	0.80	923934	87.4	30 - 120	
72 Ge	1	464643	0.54	537691	86.4	30 - 120	
115 In	1	1450544	1.06	1636252	88.7	30 - 120	
165 Ho	1	3126884	0.81	3317690	94.2	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\206_MSD.D\206_MSD.D#
 Date Acquired: Jul 8 2009 03:53 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1D 10X
 Misc Info: MATRIX SPIKE DUPLICATE
 Vial Number: 3510
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: MSD
 Dilution Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\205 MS.D\205 MS.D#

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1		3.96	ppb	5.95	3.75	5.37	20
51 V	72	1		6.72	ppb	1.77	6.95	3.38	20
52 Cr	72	1		7.43	ppb	0.96	7.67	3.13	20
55 Mn	72	1		6.04	ppb	1.66	6.18	2.23	20
59 Co	72	1		3.82	ppb	1.52	3.84	0.50	20
60 Ni	72	1		4.01	ppb	3.51	4.04	0.87	20
63 Cu	72	1		3.60	ppb	1.79	3.74	3.68	20
66 Zn	72	1		4.45	ppb	2.73	4.76	6.93	20
75 As	72	1		18.88	ppb	0.50	19.07	1.00	20
78 Se	72	1		5.03	ppb	3.39	4.80	4.64	20
95 Mo	72	1		6.94	ppb	1.78	6.83	1.58	20
107 Ag	115	1		3.78	ppb	2.01	3.76	0.61	20
111 Cd	115	1		3.99	ppb	0.62	3.95	0.91	20
118 Sn	115	1		-0.01	ppb	50.03	0.04	390.80	20
121 Sb	115	1		4.12	ppb	2.27	4.16	0.97	20
137 Ba	115	1		7.61	ppb	0.56	7.82	2.66	20
205 Tl	165	1		3.93	ppb	0.97	4.00	1.94	20
208 Pb	165	1		3.92	ppb	1.72	3.90	0.67	20
232 Th	165	1		4.29	ppb	1.48	4.37	1.85	20
238 U	165	1		9.40	ppb	1.00	9.47	0.70	20

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	295331	0.98	329497	89.6	30 - 120	
45 Sc	1	812994	0.19	923934	88.0	30 - 120	
72 Ge	1	471214	0.24	537691	87.6	30 - 120	
115 In	1	1474525	0.10	1636252	90.1	30 - 120	
165 Ho	1	3150130	0.66	3317690	94.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File :C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\207SMPL.D\207SMPL.D#
 Date Acquired: Jul 8 2009 03:56 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T6 10X
 Misc Info: D9G020221
 Vial Number: 3511
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	14.76	3600	
51 V	72	1		-10.24	-1.02	ppb	48.40	3600	
52 Cr	72	1		1,146.00	114.60	ppb	1.16	3600	
55 Mn	72	1		13.07	1.31	ppb	2.67	3600	
59 Co	72	1		-0.30	-0.03	ppb	34.55	3600	
60 Ni	72	1		2.50	0.25	ppb	18.96	3600	
63 Cu	72	1		-0.67	-0.07	ppb	36.84	3600	
66 Zn	72	1		25.23	2.52	ppb	2.67	3600	
75 As	72	1		103.70	10.37	ppb	2.32	3600	
78 Se	72	1		8.03	0.80	ppb	86.08	3600	
95 Mo	72	1		25.07	2.51	ppb	3.73	3600	
107 Ag	115	1		-0.52	-0.05	ppb	9.10	3600	
111 Cd	115	1		-0.80	-0.08	ppb	11.66	3600	
118 Sn	115	1		-0.09	-0.01	ppb	370.24	3600	
121 Sb	115	1		-0.32	-0.03	ppb	11.33	3600	
137 Ba	115	1		37.49	3.75	ppb	3.03	3600	
205 Tl	165	1		-0.06	-0.01	ppb	153.28	3600	
208 Pb	165	1		-0.69	-0.07	ppb	3.12	3600	
232 Th	165	1		1.49	0.15	ppb	14.85	1000	
238 U	165	1		36.87	3.69	ppb	2.59	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299657	0.37	329497	90.9	30 - 120	
45 Sc	1	842209	2.69	923934	91.2	30 - 120	
72 Ge	1	488819	0.90	537691	90.9	30 - 120	
115 In	1	1505724	1.38	1636252	92.0	30 - 120	
165 Ho	1	3258359	1.30	3317690	98.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\208SMPL.D\208SMPL.D#
 Date Acquired: Jul 8 2009 03:58 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1VJ 10X
 Misc Info: D9G020227
 Vial Number: 3512
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	15.22	3600	
51 V	72	1		-427.80	-42.78	ppb	7.41	3600	
52 Cr	72	1		11,230.00	1123.00	ppb	0.84	3600	
55 Mn	72	1		21.53	2.15	ppb	4.11	3600	
59 Co	72	1		-0.31	-0.03	ppb	7.40	3600	
60 Ni	72	1		3.02	0.30	ppb	6.37	3600	
63 Cu	72	1		-0.52	-0.05	ppb	22.39	3600	
66 Zn	72	1		1.37	0.14	ppb	23.30	3600	
75 As	72	1		103.60	10.36	ppb	0.84	3600	
78 Se	72	1		6.32	0.63	ppb	86.78	3600	
95 Mo	72	1		15.81	1.58	ppb	5.44	3600	
107 Ag	115	1		-0.52	-0.05	ppb	6.45	3600	
111 Cd	115	1		-0.47	-0.05	ppb	26.18	3600	
118 Sn	115	1		-0.15	-0.02	ppb	120.07	3600	
121 Sb	115	1		-0.26	-0.03	ppb	25.25	3600	
137 Ba	115	1		34.45	3.45	ppb	2.28	3600	
205 Tl	165	1		-0.50	-0.05	ppb	2.50	3600	
208 Pb	165	1		-0.68	-0.07	ppb	3.22	3600	
232 Th	165	1		-0.02	0.00	ppb	286.46	1000	
238 U	165	1		45.31	4.53	ppb	0.22	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	291984	0.51	329497	88.6	30 - 120	
45 Sc	1	815966	1.80	923934	88.3	30 - 120	
72 Ge	1	472962	0.83	537691	88.0	30 - 120	
115 In	1	1433448	0.71	1636252	87.6	30 - 120	
165 Ho	1	3081614	0.18	3317690	92.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\209SMPL.D\209SMPL.D#
 Date Acquired: Jul 8 2009 04:01 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1V5 10X
 Misc Info: D9G020227
 Vial Number: 4101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-0.62	-0.06	ppb	0.57	3600	
51 V	72	1		-216.50	-21.65	ppb	9.09	3600	
52 Cr	72	1		10,330.00	1033.00	ppb	0.77	3600	
55 Mn	72	1		691.40	69.14	ppb	1.09	3600	
59 Co	72	1		6.06	0.61	ppb	3.72	3600	
60 Ni	72	1		5.38	0.54	ppb	6.96	3600	
63 Cu	72	1		5.00	0.50	ppb	7.24	3600	
66 Zn	72	1		12.79	1.28	ppb	0.55	3600	
75 As	72	1		757.00	75.70	ppb	0.81	3600	
78 Se	72	1		7.69	0.77	ppb	139.98	3600	
95 Mo	72	1		46.91	4.69	ppb	5.34	3600	
107 Ag	115	1		0.04	0.00	ppb	353.81	3600	
111 Cd	115	1		-0.33	-0.03	ppb	93.08	3600	
118 Sn	115	1		-0.21	-0.02	ppb	58.27	3600	
121 Sb	115	1		0.07	0.01	ppb	57.53	3600	
137 Ba	115	1		42.06	4.21	ppb	2.69	3600	
205 Tl	165	1		-0.55	-0.06	ppb	4.17	3600	
208 Pb	165	1		4.01	0.40	ppb	2.47	3600	
232 Th	165	1		4.96	0.50	ppb	1.87	1000	
238 U	165	1		35.55	3.56	ppb	1.34	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291934	0.60	329497	88.6	30 - 120	
45 Sc	1	828690	2.38	923934	89.7	30 - 120	
72 Ge	1	480972	0.44	537691	89.5	30 - 120	
115 In	1	1454738	0.51	1636252	88.9	30 - 120	
165 Ho	1	3140633	0.74	3317690	94.7	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\210_CCV.D\210_CCV.D#
 Date Acquired: Jul 8 2009 04:04 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	50.82 ppb	1.57	50	101.6	90 - 110	
51 V	72		1	49.34 ppb	0.26	50	98.7	90 - 110	
52 Cr	72		1	49.37 ppb	0.73	50	98.7	90 - 110	
55 Mn	72		1	50.56 ppb	1.15	50	101.1	90 - 110	
59 Co	72		1	48.48 ppb	0.89	50	97.0	90 - 110	
60 Ni	72		1	49.80 ppb	0.71	50	99.6	90 - 110	
63 Cu	72		1	49.25 ppb	0.53	50	98.5	90 - 110	
66 Zn	72		1	50.70 ppb	0.24	50	101.4	90 - 110	
75 As	72		1	49.26 ppb	0.85	50	98.5	90 - 110	
78 Se	72		1	51.19 ppb	1.61	50	102.4	90 - 110	
95 Mo	72		1	50.57 ppb	1.21	50	101.1	90 - 110	
107 Ag	115		1	49.35 ppb	1.30	50	98.7	90 - 110	
111 Cd	115		1	50.91 ppb	0.42	50	101.8	90 - 110	
118 Sn	115		1	49.92 ppb	1.35	50	99.8	90 - 110	
121 Sb	115		1	49.57 ppb	1.16	50	99.1	90 - 110	
137 Ba	115		1	50.10 ppb	1.48	50	100.2	90 - 110	
205 Tl	165		1	51.01 ppb	1.27	50	102.0	90 - 110	
208 Pb	165		1	51.01 ppb	1.29	50	102.0	90 - 110	
232 Th	165		1	51.10 ppb	2.12	50	102.2	90 - 110	
238 U	165		1	52.44 ppb	1.67	50	104.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	290919	0.87	329497	88.3	30 - 120	
45 Sc	1	797863	1.14	923934	86.4	30 - 120	
72 Ge	1	473414	0.73	537691	88.0	30 - 120	
115 In	1	1534632	0.69	1636252	93.8	30 - 120	
165 Ho	1	3241962	0.77	3317690	97.7	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\211_CCB.D\211_CCB.D#
 Date Acquired: Jul 8 2009 04:07 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.120	ppb	0.00	1.00
51 V	72	1		-0.121	ppb	15.11	1.00
52 Cr	72	1		-0.037	ppb	24.93	1.00
55 Mn	72	1		-0.073	ppb	10.41	1.00
59 Co	72	1		-0.062	ppb	2.00	1.00
60 Ni	72	1		-0.053	ppb	35.25	1.00
63 Cu	72	1		-0.091	ppb	18.75	1.00
66 Zn	72	1		-0.021	ppb	122.48	1.00
75 As	72	1		-0.049	ppb	17.16	1.00
78 Se	72	1		0.122	ppb	169.07	1.00
95 Mo	72	1		-0.076	ppb	31.52	1.00
107 Ag	115	1		-0.046	ppb	3.98	1.00
111 Cd	115	1		-0.065	ppb	10.94	1.00
118 Sn	115	1		0.058	ppb	18.79	1.00
121 Sb	115	1		0.008	ppb	61.48	1.00
137 Ba	115	1		-0.070	ppb	10.54	1.00
205 Tl	165	1		-0.047	ppb	3.11	1.00
208 Pb	165	1		-0.070	ppb	3.70	1.00
232 Th	165	1		1.201	ppb	19.06	1.00
238 U	165	1		-0.060	ppb	1.69	1.00

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6 Li	1	292571	0.74	329497	88.8	30 - 120		
45 Sc	1	820202	1.06	923934	88.8	30 - 120		
72 Ge	1	484175	0.35	537691	90.0	30 - 120		
115 In	1	1551306	0.26	1636252	94.8	30 - 120		
165 Ho	1	3263240	0.37	3317690	98.4	30 - 120		

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed

0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\212WASH.D\212WASH.D#
 Date Acquired: Jul 8 2009 04:09 am
 Operator: TEL **QC Summary:**
 Sample Name: RLCV **Analytes:** Pass
 Misc Info: **ISTD:** Pass
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.102 ppb	18.90	1.30	
51 V	72	1		4.865 ppb	2.31	6.50	
52 Cr	72	1		1.920 ppb	1.31	2.60	
55 Mn	72	1		0.925 ppb	5.60	1.30	
59 Co	72	1		0.937 ppb	4.37	1.30	
60 Ni	72	1		2.066 ppb	9.04	2.60	
63 Cu	72	1		1.864 ppb	2.35	2.60	
66 Zn	72	1		10.360 ppb	1.59	13.00	
75 As	72	1		4.955 ppb	2.38	6.50	
78 Se	72	1		5.032 ppb	13.31	6.50	
95 Mo	72	1		1.911 ppb	2.92	2.60	
107 Ag	115	1		4.974 ppb	1.05	6.50	
111 Cd	115	1		1.018 ppb	3.35	1.30	
118 Sn	115	1		10.310 ppb	0.54	13.00	
121 Sb	115	1		1.864 ppb	1.05	2.60	
137 Ba	115	1		0.974 ppb	2.37	1.30	
205 Tl	165	1		1.015 ppb	1.27	1.30	
208 Pb	165	1		0.991 ppb	0.79	1.30	
232 Th	165	1		2.366 ppb	1.17	2.60	
238 U	165	1		1.019 ppb	1.46	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	290814	0.85	329497	88.3	30 - 120	
45 Sc	1	819634	0.45	923934	88.7	30 - 120	
72 Ge	1	487158	0.50	537691	90.6	30 - 120	
115 In	1	1561344	0.94	1636252	95.4	30 - 120	
165 Ho	1	3289382	0.12	3317690	99.1	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9G020221

Client: Northgate Environmental

Batch(es) #: 9187175, 9187169

Associated Samples: 1-3

*I certify that, to the best of my knowledge, the attached package
represents a complete and accurate copy of the original data.*

Signature/Date: Z. Jilg 7/8/09

Metals Raw Data RoadMap

<i>LotID</i>	<i>Metal</i>	<i>WorkOrder</i>	<i>Anal Date</i>	<i>TestDesc</i>	<i>Batch</i>	<i>File Id</i>	<i>Instr</i>
D9G020221	1 D SE	LF1T11AH	20090708	6020TOTAL	9187169	AG070709B	024
D9G020221	1 S SE	LF1T11AG	20090708	6020TOTAL	9187169	AG070709B	024
D9G020221	1 D AS	LF1T11AF	20090708	6020TOTAL	9187169	AG070709B	024
D9G020221	1 S AS	LF1T11AE	20090708	6020TOTAL	9187169	AG070709B	024
D9G020221	1 SE	LF1T11AC	20090708	6020TOTAL	9187169	AG070709B	024
D9G020221	1 AS	LF1T11AA	20090708	6020TOTAL	9187169	AG070709B	024
D9G020221	2 SE	LF1T51AC	20090708	6020DSVD	9187175	AG070709B	024
D9G020221	2 AS	LF1T51AA	20090708	6020DSVD	9187175	AG070709B	024
D9G020221	3 SE	LF1T61AC	20090708	6020TOTAL	9187169	AG070709B	024
D9G020221	3 AS	LF1T61AA	20090708	6020TOTAL	9187169	AG070709B	024

METALS PREPARATION LOGS ICP-MS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By:
JON HARRE

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>	
			<u>Due Date:</u>		<u>SDG:</u>
D9G060000 Water	LF30G	B	Due Date: SDG:	<u>50 mL</u>	
D9G060000 Water	LF30G	C	Due Date: SDG:	<u>50 mL</u>	
D9G020221 Water	LF1T5		Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	
D9G020227 Water	LF1WA	Dissolved	Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	
D9G020227 Water	LF1WA	S	Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	
D9G020227 Water	LF1WA	D	Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	

Comments: _____

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

ICPMS ELEMENTS WITHIN THE BATCH:

AS SE

*Wt checked
7/7/09*

METALS PREP SHEET
SOP: DEN-IP-0014

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

DISSOLVED WATER DIGESTION FOR ICPMS (Prep code MD)

BATCH # 9187175
PREP DATE: 7/7/2009

ALLIQUOTTED BY: JRW
DIGESTED BY: JKH

CONSUMABLES USED

Digestion Cups: Manufacturer: Environmental Express **Lot #:** A901LS267

Were samples filtered in the lab?

Yes No

If "yes", then the method blank and the LCS were filtered prior to digestion.

Analyst(s) Initials: JKH

STANDARDS USED

Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-2636-09	7/1/10	100uL	15
2008Cal-2	STD-2635-09	7/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	2

TEMPERATURE CYCLES

Thermometer ID: 4082 Block & Cup #: 4,8

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃ /HCl	6:00	93	11:00	94

Samples and QC revolumed to: 50 mL Analyst's Initials KS

COMMENTS:

I certify that all information above is correct and complete.

Signature:

Date:

7/7/09

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By:
JON HARRE

<u>Lot</u>	<u>Work Order</u>		Prep Date:	07/07/09	<u>Initial Weight/Volume</u>
			Due Date:	07/13/09	
D9G060000 Water	LF3X8	B	SDG:		<u>50 mL</u>
D9G060000 Water	LF3X8	C	SDG:		<u>50 mL</u>
D9G010276 Water	LFX9W		SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1		SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1	S	SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1	D	SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T6		SDG: 8304609		<u>50 mL</u>
D9G020227 Water	LF1VJ		SDG: 8304609		<u>50 mL</u>
D9G020227 Water	LF1V5	Total	SDG: 8304609		<u>50 mL</u>

Comments: _____

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

ICPMS ELEMENTS WITHIN THE BATCH:

AS SE

*✓ checked
7/7/09*

METALS PREP SHEET

SOP: DEN-IP-0014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH # 9187169
PREP DATE: 7/7/2009

ALLIQUOTTED BY: JRW
DIGESTED BY: JKH

CONSUMABLES USED

Digestion Cups: Manufacturer: Environmental Express **Lot #:** A901LS267

One or more samples were filtered prior to analysis at the instrument. Yes No

If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.

Analyst(s) Initials: _____

STANDARDS USED

Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-2636-09	7/1/10	100uL	15
2008Cal-2	STD-2635-09	7/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	3

TEMPERATURE CYCLES

Thermometer ID: 25894 Block & Cup #: 2,9

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃	6:00	91	10:20	92
HNO ₃	10:30	92	11:00	91
HNO ₃				

Samples and QC revolumed to: 50 mL Analyst's Initials JKH

COMMENTS:

I certify that all information above is correct and complete.

Signature: 

Date: 7/7/09

**METALS
SAMPLE DATA
ICP-MS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ICP-MS Standard and Spike True Values

Element	Cal. Std. 100 ppb	Initial Calibration Standard	Continuing Calibration Standard	Interference Check Sample A	Interference Check Sample AB	Laboratory Control Sample and Duplicate	Matrix Spike Sample and Duplicate	Post Digestion Spike
Aluminum	100	40	50	100,000 Aluminum	--	40	40	200
Antimony	100	40	50	100,000 Calcium	100	40	40	200
Arsenic	100	40	50	100,000 Iron	100	40	40	200
Barium	100	40	50	100,000 Magnesium	100	40	40	200
Beryllium	100	40	50	100,000 Sodium	100	40	40	200
Cadmium	100	40	50	100,000 Phosphorus	100	40	40	200
Chromium	100	40	50	100,000 Potassium	100	40	40	200
Cobalt	100	40	50	100,000 Sulfur	100	40	40	200
Copper	100	40	50	200,000 Carbon	100	40	40	200
Lead	100	40	50	1,000,000 Chloride	100	40	40	200
Manganese	100	40	50	2000 Molybdenum	--	40	40	200
Molybdenum	100	40	50	2000 Titanium	100	40	40	200
Nickel	100	40	50		100	40	40	200
Selenium	100	40	50		100	40	40	200
Silver	100	40	50		100	40	40	50
Thallium	100	40	50		100	40	40	200
Tin	100	40	50		100	40	40	200
Uranium	100	40	50		100	40	40	200
Vanadium	100	40	50		100	40	40	200
Zinc	100	40	50		100	40	40	200

All units are
ug/L.

Due to the presence of trace contaminants in the ICSA solution, the % recovery for the ICSAB solution is calculated by subtracting the levels in the ICSA from the ICSAB.

Quality Control Standards

ICV = Initial Calibration Verification (Second Source)
 ICB = Initial Calibration Blank
 CCV = Continuing Calibration Verification
 CCB = Continuing Calibration Blank

TestAmerica Denver

Standards Preparation Logbook Record

Jul-07-2009

Logbook: \\Densvr06\StdsLog\metals.std

STD4841-08, 1000 Zn (Inorganic Ventures)

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-ZN02045 Vendor's Expiration Date: 10-01-2009
Solvent: 2% HNO₃
Date Prep./Opened: 09-04-2008 Date Received: 09-04-2008
Date Expires(1): 10-01-2009 (None)
Date Expires(2): 10-01-2009 (None)
(METALS)-Inventory ID: 779

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	1,000.0	1,000.0

STD6653-08, 1000 Se

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SE02003 Vendor's Expiration Date: 12-01-2009
Solvent: 2% HNO₃
Date Prep./Opened: 11-25-2008 Date Received: 11-25-2008
Date Expires(1): 12-01-2009 (None)
Date Expires(2): 12-01-2009 (None)
(METALS)-Inventory ID: 803

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1,000.0	1,000.0

STD1198-09, 1000 mg/L Sn

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SN02016 Vendor's Expiration Date: 03-01-2010
Solvent: 1% HNO₃
Date Prep./Opened: 03-02-2009 Date Received: 03-02-2009
Date Expires(1): 03-01-2010 (None)
Date Expires(2): 03-01-2010 (None)
(METALS)-Inventory ID: 833

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	1,000.0

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026
Date Prep./Opened: 04-01-2009
Date Expires(1): 12-01-2009 (1 Year)
pipette: Met 21
Volume (ml): 100.00

Parent Std No.: STD6653-08, 1000 Se Aliquot Amount (ml): 0.1000
Parent Date Expires(1): 12-01-2009 Parent Date Expires(2): 12-01-2009
Component Initial Conc (mg/L) Final Conc (mg/L)
Se 1,000.0 1.0000

Parent Std No.: STD3609-09, ICP-MS 10 ppm Zn Aliquot Amount (ml): 1.0000
Parent Date Expires(1): 10-01-2009 Parent Date Expires(2): 10-01-2009
Component Initial Conc (mg/L) Final Conc (mg/L)
1000 Zn 10,000 1,0000

Parent Std No.: STD0664-09, ICPMS Interferent Check Standard	Aliquot Amount (ml): 5.0000	
Parent Date Expires(1): 02-01-2010	Parent Date Expires(2): 02-01-2010	
Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Al	1,000.0	100,000
C	2,000.0	200,000
Ca	1,000.0	100,000
Cl	10,000	1,000,000
Fe	1,000.0	100,000
K	1,000.0	100,000
Mg	1,000.0	100,000
Mo	20,000	2,000.0
Na	1,000.0	100,000
P	1,000.0	100,000
S	1,000.0	100,000
Ti	20,000	2,000.0

STD4008-09, ICP-MS (024) INT STD BRC-HIGH

Solvent: 5% HNO₃

Lot No.: H12022

Date Prep./Opened: 07-02-2009

Date Expires(1): 11-10-2009 (1 Year)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Analyst: LILLT

Volume (ml): 250.00

Parent Std No.: STD1469-09, Germanium Stock

Aliquot Amount (ml): 1.2000

Parent Date Expires(1): 03-16-2010 Parent Date Expires(2): 04-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ge	1,000.0	4,800.0

Parent Std No.: STD1972-09, Lithium 6 Stock

Aliquot Amount (ml): 1.5000

Parent Date Expires(1): 04-07-2010 Parent Date Expires(2): 05-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Lithium6	1,000.0	6,000.0

Parent Std No.: STD1973-09, Indium Stock

Aliquot Amount (ml): 0.4000

Parent Date Expires(1): 04-07-2010 Parent Date Expires(2): 05-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
In	1,000.0	1,600.0

Parent Std No.: STD6317-08, Scandium Stock

Aliquot Amount (ml): 0.4000

Parent Date Expires(1): 11-10-2009 Parent Date Expires(2): 12-01-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sc	1,000.0	1,600.0

Parent Std No.: STD6318-08, Holmium Stock

Aliquot Amount (ml): 0.4000

Parent Date Expires(1): 11-10-2009 Parent Date Expires(2): 12-01-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ho	1,000.0	1,600.0

STD4039-09, ICP-MS BLANK

Analyst: DIAZL

Volume (ml): 1,000.0

Solvent: Water

Date Prep./Opened: 07-07-2009

Date Expires(1): 08-07-2009 (1 Month)

Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD4040-09, NITRIC ACID

Aliquot Amount (ml): 50.000

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
HNO ₃	100.00	5.0000

STD4041-09, ICP-MS 10 ppm Sn

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
Date Prep./Opened: 07-07-2009
Date Expires(1): 07-08-2009 (1 Day)
Date Expires(2): 03-01-2010 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)
pipettes: Met 21 and Met 8

Volume (ml): 10.000

Parent Std No.: STD1198-09, 1000 mg/L Sn Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	10.000

STD4042-09, ICP-MS 100 ppb cal

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
Date Prep./Opened: 07-07-2009
Date Expires(1): 07-08-2009 (1 Day)
Date Expires(2): 07-08-2009 (1 Day)
Date Verified: 12-31--4714 by - (Verification ID: 0)
pipettes: Met 20

Volume (ml): 50.000

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	100.00
Al	20.000	100.00
As	20.000	100.00
Ba	20.000	100.00
Be	20.000	100.00
Cd	20.000	100.00
Co	20.000	100.00
Cr	20.000	100.00
Cu	20.000	100.00
Mn	20.000	100.00
Ni	20.000	100.00
Pb	20.000	100.00
Se	20.000	100.00
Th	20.000	100.00
Tl	20.000	100.00
U	20.000	100.00
V	20.000	100.00
Zn	20.000	100.00

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	100.00

Fe	1,000.0	2,500.0
Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn	Aliquot Amount (ml): 0.5000	
Parent Date Expires(1): 07-08-2009	Parent Date Expires(2): 03-01-2010	
Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10,000	50,000

Parent Std No.: STD3611-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1.0000	0.0090
1000 Zn	1.0000	0.0090

Parent Std No.: STD4042-09, ICP-MS 100 ppb cal Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 07-08-2009

Component	Initial Conc (ug/L)	Final Conc (mg/L)
Ag	100.00	0.0010
Al	100.00	0.0010
As	100.00	0.0010
Ba	100.00	0.0010
Be	100.00	0.0010
Cd	100.00	0.0010
Co	100.00	0.0010
Cr	100.00	0.0010
Cu	100.00	0.0010
Mn	100.00	0.0010
Ni	100.00	0.0010
Pb	100.00	0.0010
Se	100.00	0.0010
Th	100.00	0.0010
Tl	100.00	0.0010
U	100.00	0.0010
V	100.00	0.0010
Zn	100.00	0.0010
Mo	100.00	0.0010
Sb	100.00	0.0010
Fe	5,000.0	0.0500
Sn	100.00	0.0010

STD4045-09, ICP-MS AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (2 Days)
 pipettes: Met 20 and Met 8

Volume (ml): 10.000

Parent Std No.: STD4044-09, ICP-MS RL STD

Aliquot Amount (ml): 2.0000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	0.0090	0.0018
1000 Zn	0.0090	0.0018
Ag	0.0010	0.0002
Al	0.0010	0.0002
As	0.0010	0.0002
Ba	0.0010	0.0002
Be	0.0010	0.0002
Cd	0.0010	0.0002
Co	0.0010	0.0002
Cr	0.0010	0.0002
Cu	0.0010	0.0002
Mn	0.0010	0.0002
Ni	0.0010	0.0002
Pb	0.0010	0.0002
Se	0.0010	0.0002
Th	0.0010	0.0002
Tl	0.0010	0.0002
U	0.0010	0.0002
V	0.0010	0.0002
Zn	0.0010	0.0002
Mo	0.0010	0.0002
Sb	0.0010	0.0002
Fe	0.0500	0.0100
Sn	0.0010	0.0002

STD4046-09, ICP-MS ICSAB

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 21, Met 20, and Met 8

Volume (ml): 10.000

Parent Std No.: STD1978-09, ICPMS Interferent Check Standard

Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 04-01-2010 Parent Date Expires(2): 04-01-2010

Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Al	1,000.0	100,000
C	2,000.0	200,000
Ca	1,000.0	100,000

Cl	10,000	1,000,000
Fe	1,000.0	100,000
K	1,000.0	100,000
Mg	1,000.0	100,000
Mo	20,000	2,000.0
Na	1,000.0	100,000
P	1,000.0	100,000
S	1,000.0	100,000
Ti	20,000	2,000.0

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	100.00
Al	20.000	100.00
As	20.000	100.00
Ba	20.000	100.00
Be	20.000	100.00
Cd	20.000	100.00
Co	20.000	100.00
Cr	20.000	100.00
Cu	20.000	100.00
Mn	20.000	100.00
Ni	20.000	100.00
Pb	20.000	100.00
Se	20.000	100.00
Th	20.000	100.00
Tl	20.000	100.00
U	20.000	100.00
V	20.000	100.00
Zn	20.000	100.00

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.1000
 Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10.000	100.00

STD4047-09, ICPMS LR STD 1000 ppb Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 10.000
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20 and Met 8

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	1,000.0
Al	20.000	1,000.0
As	20.000	1,000.0
Ba	20.000	1,000.0
Be	20.000	1,000.0
Cd	20.000	1,000.0
Co	20.000	1,000.0
Cr	20.000	1,000.0
Cu	20.000	1,000.0
Mn	20.000	1,000.0
Ni	20.000	1,000.0
Pb	20.000	1,000.0
Se	20.000	1,000.0
Th	20.000	1,000.0
Tl	20.000	1,000.0
U	20.000	1,000.0
V	20.000	1,000.0
Zn	20.000	1,000.0

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.5000

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	1,000.0
Sb	20.000	1,000.0

Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10.000	1,000.0

STD4048-09, ICPMS ICV

Analyst: DIAZL

Volume (ml): 10.000

Solvent: 5% HNO3 Lot No.: H12022

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009 (1 Day)

Date Expires(2): 02-27-2010 (None)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 21 and Met 8

Parent Std No.: STD1213-09, ICPMS ICV SOLUTION A (High Purity) Aliquot Amount (ml): 0.0400

Parent Date Expires(1): 02-27-2010 Parent Date Expires(2): 02-27-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Al	10.000	40.000
As	10.000	40.000
Ba	10.000	40.000
Be	10.000	40.000
Cd	10.000	40.000

Co	10.000	40.000
Cr	10.000	40.000
Cu	10.000	40.000
Fe	250.00	1,000.0
Li	10.000	40.000
Mn	10.000	40.000
Ni	10.000	40.000
Pb	10.000	40.000
Se	10.000	40.000
Th	10.000	40.000
Tl	10.000	40.000
U	10.000	40.000
V	10.000	40.000
Zn	10.000	40.000

Parent Std No : STD1214-09, ICPMS ICV SOLUTION B (High Purity) Aliquot Amount (ml): 0.0400

Parent Date Expires(1): 02-27-2010 Parent Date Expires(2): 02-27-2010

Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Ag	10.000	40.000
Mo	10.000	40.000
Sb	10.000	40.000
Sn	10.000	40.000
Zr	10.000	40.000

STD4049-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO₃

Lot No.: H12022

Volume (ml): 50.000

Date Prep /Opened: 07-07-2009

Date Prep./Opened: 07-07-2009

pinettes: Met 21 and Met 8

pipettes. Met 21 and Met 6

Parent Std No.: STD1853-09, 1 mg/l Se

Aliquot Amount (ml): 0.1000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1.0000	0.0020

STD4050-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO₃

Lot No.: H12022

Volume (ml): 100.00

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009

Date Expires(1): 07-30-2009 (1 Day)

pipettes: Met 20

pipettes. Met zo

Parent Std No.: STD3106-09, ICP-MS LLCCV 1

Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	0.5000	5.0000
Al	3.0000	30.0000
As	0.5000	5.0000

Ba	0.1000	1.0000
Be	0.1000	1.0000
Ca	5.0000	50.000
Cd	0.1000	1.0000
Co	0.1000	1.0000
Cr	0.2000	2.0000
Cu	0.2000	2.0000
Fe	5.0000	50.000
K	10.000	100.00
Mg	5.0000	50.000
Mn	0.1000	1.0000
Na	5.0000	50.000
Ni	0.2000	2.0000
Pb	0.1000	1.0000
Se	0.5000	5.0000
Th	0.2000	2.0000
Tl	0.1000	1.0000
U	0.1000	1.0000
V	0.5000	5.0000
Zn	1.0000	10.000

Parent Std No.: STD3107-09, ICP-MS LLCCV 2

Aliquot Amount (ml): 1.0000

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	0.2000	2.0000
Sb	0.2000	2.0000
Sn	1.0000	10.000

Reviewed By:

LRD

07/07/2009

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
2	Cal Blank			1.0	07/07/09 18:29		<input type="checkbox"/>
3	Cal Blank			1.0	07/07/09 18:32		<input type="checkbox"/>
4	100 ppb			1.0	07/07/09 18:35		<input type="checkbox"/>
5	ICV			1.0	07/07/09 18:38		<input type="checkbox"/>
6	RLIV			1.0	07/07/09 18:40		<input type="checkbox"/>
7	ICB			1.0	07/07/09 18:43		<input type="checkbox"/>
8	RL STD			1.0	07/07/09 18:46		<input type="checkbox"/>
9	AFCEE RL			1.0	07/07/09 18:49		<input type="checkbox"/>
10	ALTSe			1.0	07/07/09 18:51		<input type="checkbox"/>
11	ICSA			1.0	07/07/09 18:54		<input type="checkbox"/>
12	ICSAB			1.0	07/07/09 18:57		<input type="checkbox"/>
13	RINSE			1.0	07/07/09 18:59		<input type="checkbox"/>
14	LR			1.0	07/07/09 19:02		<input type="checkbox"/>
15	RINSE			1.0	07/07/09 19:05		<input type="checkbox"/>
16	CCV			1.0	07/07/09 19:08		<input type="checkbox"/>
17	CCB			1.0	07/07/09 19:10		<input type="checkbox"/>
18	RLCV			1.0	07/07/09 19:13		<input type="checkbox"/>
19	IDL 1			1.0	07/07/09 19:16		<input type="checkbox"/>
20	IDL 2			1.0	07/07/09 19:19		<input type="checkbox"/>
21	IDL 3			1.0	07/07/09 19:21		<input type="checkbox"/>
22	IDL 4			1.0	07/07/09 19:24		<input type="checkbox"/>
23	IDL 5			1.0	07/07/09 19:27		<input type="checkbox"/>
24	IDL 6			1.0	07/07/09 19:30		<input type="checkbox"/>
25	IDL 7			1.0	07/07/09 19:32		<input type="checkbox"/>
26	CCV			1.0	07/07/09 19:35		<input type="checkbox"/>
27	CCB			1.0	07/07/09 19:38		<input type="checkbox"/>
28	RLCV			1.0	07/07/09 19:41		<input type="checkbox"/>
29	LR STD 1			1.0	07/07/09 19:43		<input type="checkbox"/>
30	RINSE			1.0	07/07/09 19:46		<input type="checkbox"/>
31	LR STD 2			1.0	07/07/09 19:49		<input type="checkbox"/>
32	RINSE			1.0	07/07/09 19:52		<input type="checkbox"/>
33	LR STD 3			1.0	07/07/09 19:54		<input type="checkbox"/>
34	RINSE			1.0	07/07/09 19:57		<input type="checkbox"/>
35	LR STD 4			1.0	07/07/09 20:00		<input type="checkbox"/>
36	RINSE			1.0	07/07/09 20:02		<input type="checkbox"/>
37	LR STD Mn			1.0	07/07/09 20:05		<input type="checkbox"/>
38	RINSE			1.0	07/07/09 20:08		<input type="checkbox"/>
39	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 20:10		<input type="checkbox"/>
40	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 20:13		<input type="checkbox"/>
41	LFNQ3	D9F260154-1	9182405	46	1.0 07/07/09 20:16		<input type="checkbox"/>
42	LENTW	D9F260154-2	9182405	46	1.0 07/07/09 20:19	<i>Not 7/8/09 Did not use.</i>	<input type="checkbox"/>
43	CCV				1.0 07/07/09 20:21		<input type="checkbox"/>
44	CCB				1.0 07/07/09 20:24		<input type="checkbox"/>
45	RLCV				1.0 07/07/09 20:27		<input type="checkbox"/>
46	LR STD 1				1.0 07/07/09 20:30		<input type="checkbox"/>
47	RINSE				1.0 07/07/09 20:32		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
48	LR STD 2			1.0	07/07/09 20:35		<input type="checkbox"/>
49	RINSE			1.0	07/07/09 20:38		<input type="checkbox"/>
50	LR STD 3			1.0	07/07/09 20:41		<input type="checkbox"/>
51	RINSE			1.0	07/07/09 20:43		<input type="checkbox"/>
52	LR STD 4			1.0	07/07/09 20:46		<input type="checkbox"/>
53	RINSE			1.0	07/07/09 20:48		<input type="checkbox"/>
54	LR STD Mn			1.0	07/07/09 20:51		<input type="checkbox"/>
55	RINSE			1.0	07/07/09 20:54		<input type="checkbox"/>
56	CCV			1.0	07/07/09 20:57		<input type="checkbox"/>
57	CCB			1.0	07/07/09 20:59		<input type="checkbox"/>
58	RLCV			1.0	07/07/09 21:02		<input type="checkbox"/>
59	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 21:05		<input type="checkbox"/>
60	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 21:08	<i>✓ 7/8/09 Did not use.</i>	<input type="checkbox"/>
61	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 21:13		<input type="checkbox"/>
62	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 21:15		<input type="checkbox"/>
63	LFNQ3	D9F260154-1	9182405	46	1.0 07/07/09 21:18		<input type="checkbox"/>
64	LFNTW	D9F260154-2	9182405	46	1.0 07/07/09 21:21		<input type="checkbox"/>
65	LFNT5	D9F260154-3	9182405	46	1.0 07/07/09 21:24		<input type="checkbox"/>
66	LFNT7	D9F260154-4	9182405	46	1.0 07/07/09 21:26		<input type="checkbox"/>
67	LFNVD	D9F260154-5	9182405	46	1.0 07/07/09 21:29		<input type="checkbox"/>
68	LFNVM	D9F260154-6	9182405	46	1.0 07/07/09 21:32		<input type="checkbox"/>
69	CCV				1.0 07/07/09 21:35		<input type="checkbox"/>
70	CCB				1.0 07/07/09 21:37		<input type="checkbox"/>
71	RLCV				1.0 07/07/09 21:40		<input type="checkbox"/>
72	LFNVT	D9F260154-7	9182405	46	1.0 07/07/09 21:43		<input type="checkbox"/>
73	LFNVW	D9F260154-8	9182405	46	1.0 07/07/09 21:46		<input type="checkbox"/>
74	LFV0G	D9F300202-1	9182405	46	1.0 07/07/09 21:48		<input type="checkbox"/>
75	LFV05	D9F300202-3	9182405	46	1.0 07/07/09 21:51		<input type="checkbox"/>
76	LFV1G	D9F300202-4	9182405	46	1.0 07/07/09 21:54		<input type="checkbox"/>
77	LFV1GP5	D9F300202	9182405		5.0 07/07/09 21:57		<input type="checkbox"/>
78	LFV1GZ	D9F300202-4	9182405		1.0 07/07/09 21:59		<input type="checkbox"/>
79	LFV1GS	D9F300202-4	9182405	46	1.0 07/07/09 22:02		<input type="checkbox"/>
80	LFV1GD	D9F300202-4	9182405	46	1.0 07/07/09 22:05		<input type="checkbox"/>
81	LFV13	D9F300202-5	9182405	46	1.0 07/07/09 22:07		<input type="checkbox"/>
82	CCV				1.0 07/07/09 22:10		<input type="checkbox"/>
83	CCB				1.0 07/07/09 22:13		<input type="checkbox"/>
84	RLCV				1.0 07/07/09 22:16		<input type="checkbox"/>
85	LF1RVB	D9G020000	9183315	MS	1.0 07/07/09 22:19		<input type="checkbox"/>
86	LF1RVC	D9G020000	9183315	MS	1.0 07/07/09 22:21		<input type="checkbox"/>
87	LFXPK 2X	D9G010186-16	9183315	MS	2.0 07/07/09 22:24		<input type="checkbox"/>
88	LFXPKP10	D9G010186	9183315		10.0 07/07/09 22:27		<input type="checkbox"/>
89	LFXPKZ	D9G010186-16	9183315		1.0 07/07/09 22:30		<input type="checkbox"/>
90	LFXPKS 2X	D9G010186-16	9183315	MS	2.0 07/07/09 22:32		<input type="checkbox"/>
91	CCV				1.0 07/07/09 22:35		<input type="checkbox"/>
92	CCB				1.0 07/07/09 22:38		<input type="checkbox"/>
93	RLCV				1.0 07/07/09 22:41		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
94	LFXPKD 2X	D9G010186-16	9183315	MS	2.0	07/07/09 22:43	
95	LFXPL 2X	D9G010186-17	9183315	MS	2.0	07/07/09 22:46	
96	LFXPM 2X	D9G010186-18	9183315	MS	2.0	07/07/09 22:49	
97	LFXPN 2X	D9G010186-19	9183315	MS	2.0	07/07/09 22:52	
98	LFXPP 2X	D9G010186-20	9183315	MS	2.0	07/07/09 22:55	
99	LFXPQ 2X	D9G010186-21	9183315	MS	2.0	07/07/09 22:57	
100	CCV				1.0	07/07/09 23:00	
101	CCB				1.0	07/07/09 23:03	
102	RLCV				1.0	07/07/09 23:06	
103	LF3W3B	D9G060000	9187133	MS	1.0	07/07/09 23:08	
104	LF3W3C	D9G060000	9187133	MS	1.0	07/07/09 23:11	
105	LF1JL	D9G020188-1	9187133	MS	1.0	07/07/09 23:14	
106	LF1KR	D9G020188-2	9187133	MS	1.0	07/07/09 23:17	- Take all but Mn. <i>7/8/09</i>
107	LF1KT	D9G020188-3	9187133	MS	1.0	07/07/09 23:19	
108	LF1KW	D9G020188-4	9187133	MS	1.0	07/07/09 23:22	
109	LF1KX	D9G020188-5	9187133	MS	1.0	07/07/09 23:25	
110	LF1K1	D9G020188-6	9187133	MS	1.0	07/07/09 23:28	
111	LF1K2	D9G020188-7	9187133	MS	1.0	07/07/09 23:30	
112	CCV				1.0	07/07/09 23:33	
113	CCB				1.0	07/07/09 23:36	
114	RLCV				1.0	07/07/09 23:39	
115	LF1K3	D9G020188-8	9187133	MS	1.0	07/07/09 23:42	
116	LF1K6	D9G020188-9	9187133	MS	1.0	07/07/09 23:44	
117	LF1NP	D9G020199-1	9187133	MS	1.0	07/07/09 23:47	
118	LF1NPP5	D9G020199	9187133		5.0	07/07/09 23:50	
119	LF1NPZ	D9G020199-1	9187133		1.0	07/07/09 23:53	
120	LF1NPS	D9G020199-1	9187133	MS	1.0	07/07/09 23:55	
121	LF1NPD	D9G020199-1	9187133	MS	1.0	07/07/09 23:58	
122	LF165	D9G020272-1	9187133	MS	1.0	07/08/09 00:01	
123	LF18E	D9G020272-2	9187133	MS	1.0	07/08/09 00:04	
124	CCV				1.0	07/08/09 00:07	
125	CCB				1.0	07/08/09 00:09	
126	RLCV				1.0	07/08/09 00:12	
127	RINSE				1.0	07/08/09 00:15	
128	RINSE				1.0	07/08/09 00:18	
129	RINSE				1.0	07/08/09 00:20	
130	RINSE				1.0	07/08/09 00:23	
131	RINSE				1.0	07/08/09 00:26	
132	RINSE				1.0	07/08/09 00:28	
133	Cal Blank				1.0	07/08/09 00:31	<i>Not 7/8/09 Did not use.</i>
134	Cal Blank				1.0	07/08/09 00:34	
135	100 ppb				1.0	07/08/09 00:37	
136	CCV				1.0	07/08/09 00:39	
137	CCB				1.0	07/08/09 00:42	
138	RLCV				1.0	07/08/09 00:45	
139	LF3WAB	D9G060000	9187106	04	1.0	07/08/09 00:48	

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
140	LF3WAC	D9G060000	9187106	04	1.0 07/08/09 00:51		<input type="checkbox"/>
141	LFXTT	D9G010202-1	9187106	04	1.0 07/08/09 00:53		<input type="checkbox"/>
142	LF1JG	D9G020189-1	9187106	04	1.0 07/08/09 00:56		<input type="checkbox"/>
143	LF1KV	D9G020189-3	9187106	04	1.0 07/08/09 00:59		<input type="checkbox"/>
144	LF1K5	D9G020189-5	9187106	04	1.0 07/08/09 01:02		<input type="checkbox"/>
145	LF1LC	D9G020189-7	9187106	04	1.0 07/08/09 01:04		<input type="checkbox"/>
146	LF1LF	D9G020189-9	9187106	04	1.0 07/08/09 01:07		<input type="checkbox"/>
147	CCV				1.0 07/08/09 01:10		<input type="checkbox"/>
148	CCB				1.0 07/08/09 01:13		<input type="checkbox"/>
149	RLCV				1.0 07/08/09 01:16		<input type="checkbox"/>
150	LF1LK	D9G020189-11	9187106	04	1.0 07/08/09 01:18		<input type="checkbox"/>
151	LF1LN	D9G020189-13	9187106	04	1.0 07/08/09 01:21		<input type="checkbox"/>
152	LF1LNP5	D9G020189	9187106		5.0 07/08/09 01:24		<input type="checkbox"/>
153	LF1LNZ	D9G020189-13	9187106		1.0 07/08/09 01:27		<input type="checkbox"/>
154	LF1LNS	D9G020189-13	9187106	04	1.0 07/08/09 01:29		<input type="checkbox"/>
155	LF1LND	D9G020189-13	9187106	04	1.0 07/08/09 01:32		<input type="checkbox"/>
156	LF1LT	D9G020189-15	9187106	04	1.0 07/08/09 01:35		<input type="checkbox"/>
157	LF1LW	D9G020189-17	9187106	04	1.0 07/08/09 01:38		<input type="checkbox"/>
158	CCV				1.0 07/08/09 01:40		<input type="checkbox"/>
159	CCB				1.0 07/08/09 01:43		<input type="checkbox"/>
160	RLCV				1.0 07/08/09 01:46		<input type="checkbox"/>
161	LF315BF	D9G060000	9187204	MD	1.0 07/08/09 01:49		<input type="checkbox"/>
162	LF315CF	D9G060000	9187204	MD	1.0 07/08/09 01:51		<input type="checkbox"/>
163	LF1XCF	D9G020230-9	9187204	MD	1.0 07/08/09 01:54		<input type="checkbox"/>
164	LF1XFF	D9G020230-10	9187204	MD	1.0 07/08/09 01:57		<input type="checkbox"/>
165	LF1XHF	D9G020230-11	9187204	MD	1.0 07/08/09 02:00		<input type="checkbox"/>
166	LF1XHP5F	D9G020230	9187204		5.0 07/08/09 02:02		<input type="checkbox"/>
167	LF1XHZF	D9G020230-11	9187204		1.0 07/08/09 02:05		<input type="checkbox"/>
168	LF1XHSF	D9G020230-11	9187204	MD	1.0 07/08/09 02:08		<input type="checkbox"/>
169	LF1XHDF	D9G020230-11	9187204	MD	1.0 07/08/09 02:11		<input type="checkbox"/>
170	CCV				1.0 07/08/09 02:13		<input type="checkbox"/>
171	CCB				1.0 07/08/09 02:16		<input type="checkbox"/>
172	RLCV				1.0 07/08/09 02:19		<input type="checkbox"/>
173	LF30GBF	D9G060000	9187175	MD	1.0 07/08/09 02:22		<input type="checkbox"/>
174	LF30GCF	D9G060000	9187175	MD	1.0 07/08/09 02:25		<input type="checkbox"/>
175	LF1T5F 10X	D9G020221-2	9187175	MD	10.0 07/08/09 02:27		<input type="checkbox"/>
176	LF1WAF 10X	D9G020227-3	9187175	MD	10.0 07/08/09 02:30		<input type="checkbox"/>
177	LF1WAP50F	D9G020227	9187175		50.0 07/08/09 02:33		<input type="checkbox"/>
178	LF1WAZF	D9G020227-3	9187175		1.0 07/08/09 02:36		<input type="checkbox"/>
179	LF1WASF 10	D9G020227-3	9187175	MD	10.0 07/08/09 02:38		<input type="checkbox"/>
180	LF1WADF 10	D9G020227-3	9187175	MD	10.0 07/08/09 02:41		<input type="checkbox"/>
181	CCV				1.0 07/08/09 02:44		<input type="checkbox"/>
182	CCB				1.0 07/08/09 02:47		<input type="checkbox"/>
183	RLCV				1.0 07/08/09 02:49		<input type="checkbox"/>
184	RINSE				1.0 07/08/09 02:52		<input type="checkbox"/>
185	RINSE				1.0 07/08/09 02:55	✓ 7/8/09	<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
186	RINSE			1.0	07/08/09 02:58		
187	RINSE			1.0	07/08/09 03:00		
188	RINSE			1.0	07/08/09 03:03		
189	RINSE			1.0	07/08/09 03:06		
190	Cal Blank			1.0	07/08/09 03:09	✓ 7/8/09	
191	Cal Blank			1.0	07/08/09 03:11		
192	100 ppb			1.0	07/08/09 03:14		
193	CCV			1.0	07/08/09 03:17		
194	CCB			1.0	07/08/09 03:20		
195	RLCV			1.0	07/08/09 03:22		
196	LF3X8B	D9G060000	9187169	MS	1.0	07/08/09 03:25	
197	LF3X8C	D9G060000	9187169	MS	1.0	07/08/09 03:28	
198	LFX9W 10X	D9G010276-1	9187169	MS	10.0	07/08/09 03:31	
199	LF1T1 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:33	
200	LF1T1P50	D9G020221	9187169		50.0	07/08/09 03:36	
201	LF1T1Z	D9G020221-1	9187169		1.0	07/08/09 03:39	
202	CCV				1.0	07/08/09 03:42	
203	CCB				1.0	07/08/09 03:44	
204	RLCV				1.0	07/08/09 03:47	
205	LF1T1S 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:50	
206	LF1T1D 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:53	
207	LF1T6 10X	D9G020221-3	9187169	MS	10.0	07/08/09 03:56	
208	LF1VJ 10X	D9G020227-1	9187169	MS	10.0	07/08/09 03:58	
209	LF1V5 10X	D9G020227-2	9187169	MS	10.0	07/08/09 04:01	
210	CCV				1.0	07/08/09 04:04	
211	CCB				1.0	07/08/09 04:07	
212	RLCV				1.0	07/08/09 04:09	
213	RINSE				1.0	07/08/09 04:12	
214	RINSE				1.0	07/08/09 04:15	
215	RINSE				1.0	07/08/09 04:18	
216	RINSE				1.0	07/08/09 04:20	
217	RINSE				1.0	07/08/09 04:23	
218	RINSE				1.0	07/08/09 04:26	
219	Cal Blank				1.0	07/08/09 04:29	✓ 7/8/09
220	Cal Blank				1.0	07/08/09 04:31	
221	100 ppb				1.0	07/08/09 04:34	
222	CCV				1.0	07/08/09 04:37	
223	CCB				1.0	07/08/09 04:40	
224	RLCV				1.0	07/08/09 04:42	
225	LF31NB	D9G060000	9187199	46	1.0	07/08/09 04:45	
226	LF31NC	D9G060000	9187199	46	1.0	07/08/09 04:48	
227	LF0NV	D9G010332-7	9187199	46	1.0	07/08/09 04:51	
228	LF0NVP5	D9G010332	9187199		5.0	07/08/09 04:54	
229	LF0NVZ	D9G010332-7	9187199		1.0	07/08/09 04:56	
230	LF0NVS	D9G010332-7	9187199	46	1.0	07/08/09 04:59	
231	LF0NVD	D9G010332-7	9187199	46	1.0	07/08/09 05:02	

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

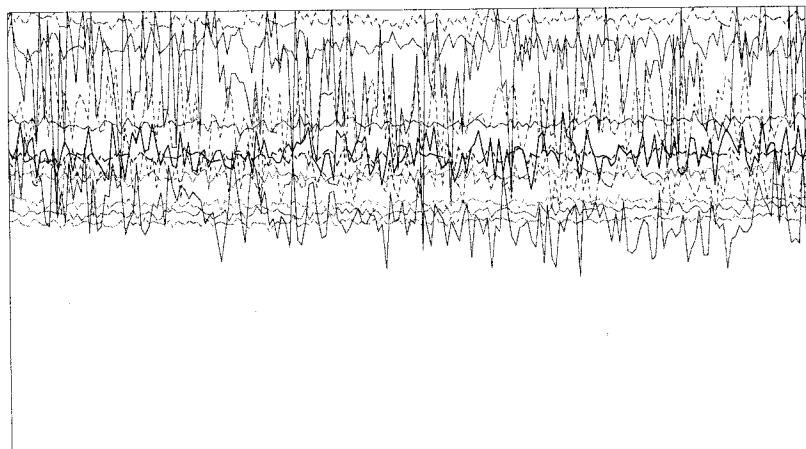
File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
232	CCV			1.0	07/08/09 05:05		<input type="checkbox"/>
233	CCB			1.0	07/08/09 05:07		<input type="checkbox"/>
234	RLCV			1.0	07/08/09 05:10		<input type="checkbox"/>
235	LF31XB	D9G060000	9187202	46	1.0 07/08/09 05:13		<input type="checkbox"/>
236	LF31XC	D9G060000	9187202	46	1.0 07/08/09 05:16		<input type="checkbox"/>
237	LF2FT	D9G020311-1	9187202	46	1.0 07/08/09 05:19		<input type="checkbox"/>
238	LF2FTP5	D9G020311	9187202		5.0 07/08/09 05:21		<input type="checkbox"/>
239	LF2FTZ	D9G020311-1	9187202		1.0 07/08/09 05:24	- Take all but Ni. <i>7/8/09</i>	<input type="checkbox"/>
240	LF2FTS	D9G020311-1	9187202	46	1.0 07/08/09 05:27		<i>7/8/09</i> <input type="checkbox"/>
241	LF2FTD	D9G020311-1	9187202	46	1.0 07/08/09 05:30		<input type="checkbox"/>
242	CCV				1.0 07/08/09 05:33		<input type="checkbox"/>
243	CCB				1.0 07/08/09 05:35		<input type="checkbox"/>
244	RLCV				1.0 07/08/09 05:38		<input type="checkbox"/>
245	LF2JL	D9G020311-2	9187202	46	1.0 07/08/09 05:41		<input type="checkbox"/>
246	LF2JQ	D9G020311-3	9187202	46	1.0 07/08/09 05:44		<input type="checkbox"/>
247	LF2J3	D9G020311-4	9187202	46	1.0 07/08/09 05:46		<input type="checkbox"/>
248	LF2J5	D9G020311-5	9187202	46	1.0 07/08/09 05:49		<input type="checkbox"/>
249	LF2KJ	D9G020311-6	9187202	46	1.0 07/08/09 05:52		<input type="checkbox"/>
250	LF2KN	D9G020311-7	9187202	46	1.0 07/08/09 05:55		<input type="checkbox"/>
251	LF2KT	D9G020311-8	9187202	46	1.0 07/08/09 05:58		<input type="checkbox"/>
252	CCV				1.0 07/08/09 06:00		<input type="checkbox"/>
253	CCB				1.0 07/08/09 06:03		<input type="checkbox"/>
254	RLCV				1.0 07/08/09 06:06		<input type="checkbox"/>
255	LF2FT	D9G020311-1	9187202	46	1.0 07/08/09 06:09		<input type="checkbox"/>
256	LF2FTS	D9G020311-1	9187202	46	1.0 07/08/09 06:12		<input type="checkbox"/>
257	LF2FTD	D9G020311-1	9187202	46	1.0 07/08/09 06:14		<input type="checkbox"/>
258	CCV				1.0 07/08/09 06:17		<input type="checkbox"/>
259	CCB				1.0 07/08/09 06:20		<input type="checkbox"/>
260	RLCV				1.0 07/08/09 06:23	<i>7/8/09 Did not use.</i>	<input type="checkbox"/>

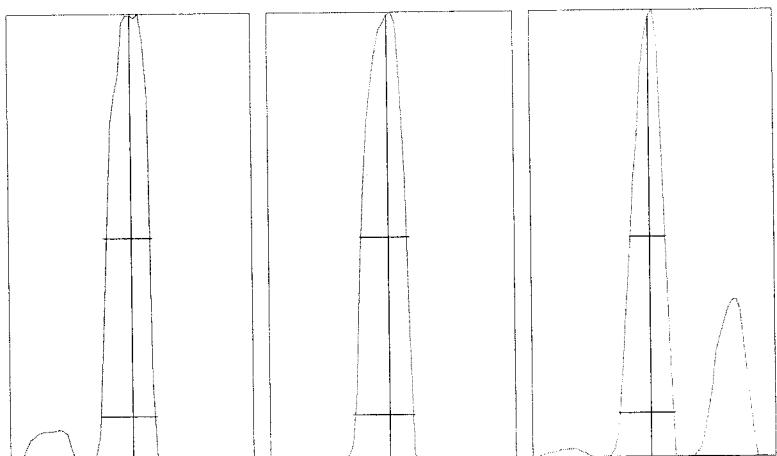
Tune Report

Tune File : NORM.U
 Comment :



Integration Time: 0.1000 sec
 Sampling Period: 1.5300 sec
 n: 200
 Oxide: 156/140 2.082%
 Doubly Charged: 70/140 1.123%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1889.0	1841.3	2.59	0.60
7	50,000	27559.0	27403.0	1.40	0.60
59	50,000	33030.0	31479.0	1.53	0.50
63	200	87.0	107.9	11.91	0.30
70	1,000	686.0	677.4	4.99	0.70
75	50	31.0	42.9	16.22	0.60
78	500	280.0	313.4	6.24	0.30
89	100,000	51516.0	52575.3	1.19	0.70
115	100,000	57158.0	56755.0	1.31	0.70
118	200	162.0	152.3	8.33	0.70
137	10,000	6656.0	6727.9	1.69	1.00
205	50,000	48630.0	48760.9	1.18	2.00
238	100,000	74601.0	74494.1	1.21	2.10
156/140	5	2.193%	2.125%	4.06	
70/140	2	1.184%	1.169%	5.10	



m/z:	7	89	205
Height:	27,543	52,894	49,644
Axis:	7.05	89.00	205.00
W-50%:	0.60	0.60	0.45
W-10%:	0.700	0.7500	0.700

Integration Time: 0.1000 sec
 Acquisition Time: 22.7600 sec

Y axis : Linear

Tune Report

Tune File : NORM.U
Comment :

Tuning Parameters

====Plasma Condition====

RF Power : 1550 W
RF Matching : 1.7 V
Smp1 Depth : 7.5 mm
Torch-H : -0.8 mm
Torch-V : -0.3 mm
Carrier Gas : 0.83 L/min
Makeup Gas : 0.2 L/min
Optional Gas : --- %
Nebulizer Pump : 0.1 rps
Sample Pump : --- rps
S/C Temp : 2 degC

====Ion Lenses====

Extract 1 : 0 V
Extract 2 : -175 V
Omega Bias-ce : -30 V
Omega Lens-ce : -0.2 V
Cell Entrance : -30 V
QP Focus : 5 V
Cell Exit : -30 V

====Q-Pole Parameters====

AMU Gain : 133
AMU Offset : 123
Axis Gain : 1.0005
Axis Offset : -0.01
QP Bias : -10 V

====Detector Parameters====

Discriminator : 8 mV
Analog HV : 1720 V
Pulse HV : 1390 V

====Reaction Cell====

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

P/A Factor Tuning Report

Acquired:Jul 7 2009 04:18 pm

Mass[amu]	Element	P/A Factor
6	Li	0.060118
7	(Li)	Sensitivity too low
9	Be	0.068010
45	Sc	0.082686
51	V	0.084596
52	Cr	0.087721
53	(Cr)	Sensitivity too low
55	Mn	0.089784
59	Co	0.093112
60	Ni	0.095012
63	Cu	0.097299
66	Zn	0.097070
72	Ge	0.095471
75	As	0.094654
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
95	Mo	0.095555
98	(Mo)	0.095635
99	(Mo)	0.097324
106	(Cd)	0.101627
107	Ag	Sensitivity too low
108	(Cd)	0.102086
111	Cd	0.102705
114	Cd	0.102655
115	In	0.101852
118	Sn	0.101508
121	Sb	0.101313
137	Ba	Sensitivity too low
165	Ho	Sensitivity too low
205	Tl	0.111470
206	(Pb)	0.110400
207	(Pb)	0.110479
208	Pb	0.110219
232	Th	0.108817
238	U	0.108862

====Detector Parameters=====

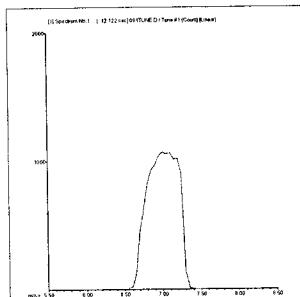
Discriminator: 8.0 mV
Analog HV: 1720 V
Pulse HV: 1390 V

200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\001TUNE.D
 Date Acquired: Jul 7 2009 06:26 pm
 Acq. Method: tun_isis.M
 Operator: TEL
 Sample Name: 200.8 TUNE
 Misc Info:
 Vial Number: 4
 Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

RSD (%)

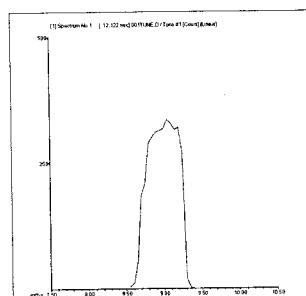
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	22453	22562	22678	22654	22339	22032	2.26	5.00	
9 Be	2557	2614	2568	2613	2528	2458	3.87	5.00	
24 Mg	10195	10333	10161	10163	10347	9970	1.30	5.00	
59 Co	66238	66281	66746	66790	66601	64770	3.53	5.00	
115 In	958916	951553	962857	960080	958978	961111	0.77	5.00	
208 Pb	77867	78896	77667	77197	77617	77956	1.00	5.00	
238 U	160452	162185	164035	161529	160468	154041	1.94	5.00	

**7 Li****Mass Calib.**

Actual: 7.05
 Required: 6.90 - 7.10
 Flag:

Peak Width

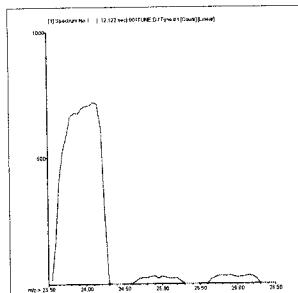
Actual: 0.65
 Required: 0.90
 Flag:

**9 Be****Mass Calib.**

Actual: 9.10
 Required: 8.90 - 9.10
 Flag:

Peak Width

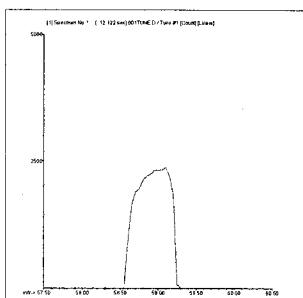
Actual: 0.60
 Required: 0.90
 Flag:

**24 Mg****Mass Calib.**

Actual: 24.05
 Required: 23.90 - 24.10
 Flag:

Peak Width

Actual: 0.65
 Required: 0.90
 Flag:

**59 Co****Mass Calib.**

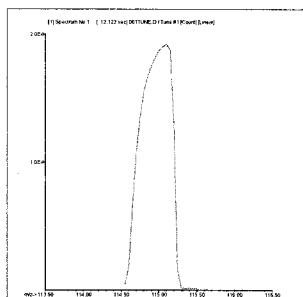
Actual:	59.00		
Required:	58.90	-	59.10

Flag:

Peak Width

Actual:	0.60		
Required:	0.90		

Flag:

**115 In****Mass Calib.**

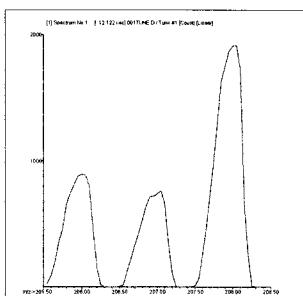
Actual:	115.05		
Required:	114.90	-	115.10

Flag:

Peak Width

Actual:	0.55		
Required:	0.90		

Flag:

**208 Pb****Mass Calib.**

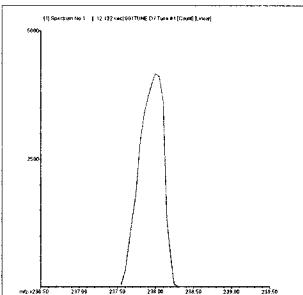
Actual:	208.00		
Required:	207.90	-	208.10

Flag:

Peak Width

Actual:	0.60		
Required:	0.90		

Flag:

**238 U****Mass Calib.**

Actual:	238.00		
Required:	237.90	-	238.10

Flag:

Peak Width

Actual:	0.55		
Required:	0.90		

Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\002CALB.D\002CALB.D#
 Date Acquired: Jul 7 2009 06:29 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:30 pm
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		-61	307.06
52	Cr	72	1		1703	4.99
55	Mn	72	1		127	24.12
59	Co	72	1		27	94.37
60	Ni	72	1		10	100.00
63	Cu	72	1		207	16.99
66	Zn	72	1		281	13.82
75	As	72	1		29	24.50
78	Se	72	1		57	36.74
95	Mo	72	1		10	100.00
107	Ag	115	1		7	86.60
111	Cd	115	1		5	136.25
118	Sn	115	1		157	13.29
121	Sb	115	1		13	66.14
137	Ba	115	1		16	53.93
205	Tl	165	1		142	24.84
208	Pb	165	1		238	8.45
232	Th	165	1		167	24.98
238	U	165	1		100	12.02

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	400758	1.34
45	Sc	1	936208	0.95
72	Ge	1	542425	0.31
115	In	1	1772725	1.04
165	Ho	1	4029283	0.79

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#
 Date Acquired: Jul 7 2009 06:32 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:30 pm
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		124	45.09
52	Cr	72	1		1643	7.31
55	Mn	72	1		140	21.43
59	Co	72	1		13	43.30
60	Ni	72	1		37	31.49
63	Cu	72	1		283	14.26
66	Zn	72	1		173	16.69
75	As	72	1		24	22.05
78	Se	72	1		57	26.96
95	Mo	72	1		13	43.30
107	Ag	115	1		10	100.00
111	Cd	115	1		8	89.21
118	Sn	115	1		187	27.49
121	Sb	115	1		13	66.14
137	Ba	115	1		17	52.92
205	Tl	165	1		96	12.25
208	Pb	165	1		224	8.95
232	Th	165	1		143	28.20
238	U	165	1		19	73.47

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	399164	0.09
45	Sc	1	940817	0.93
72	Ge	1	543541	0.91
115	In	1	1769666	0.69
165	Ho	1	4052095	0.70

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\004ICAL.D\004ICAL.D#
 Date Acquired: Jul 7 2009 06:35 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:33 pm
 Sample Type: ICAL

QC Elements

Element	IS	Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	45057	2.44
51	V	72	1	635517	1.35
52	Cr	72	1	740365	0.51
55	Mn	72	1	696026	0.68
59	Co	72	1	1072796	0.30
60	Ni	72	1	253152	0.72
63	Cu	72	1	623666	0.91
66	Zn	72	1	116172	1.28
75	As	72	1	70648	0.92
78	Se	72	1	10825	1.36
95	Mo	72	1	298414	1.62
107	Ag	115	1	1006118	0.15
111	Cd	115	1	173188	0.75
118	Sn	115	1	439651	0.54
121	Sb	115	1	464508	0.62
137	Ba	115	1	189823	0.35
205	Tl	165	1	2375887	1.05
208	Pb	165	1	3257719	0.92
232	Th	165	1	3073849	2.20
238	U	165	1	3744584	1.20

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6	Li	1	382426	1.59	399164	95.8	30 - 120
45	Sc	1	907089	1.38	940817	96.4	30 - 120
72	Ge	1	520511	0.60	543541	95.8	30 - 120
115	In	1	1740539	0.58	1769666	98.4	30 - 120
165	Ho	1	4011984	1.19	4052095	99.0	30 - 120

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\005_ICV.D\005_ICV.D#
 Date Acquired: Jul 7 2009 06:38 pm
 Operator: TEL
 Sample Name: ICV
 Misc Info:
 Vial Number: 2103
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: ICV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	38.73 ppb	2.14	40	96.8	90 - 110	
51 V	72		1	39.83 ppb	1.86	40	99.6	90 - 110	
52 Cr	72		1	40.55 ppb	1.29	40	101.4	90 - 110	
55 Mn	72		1	40.32 ppb	1.65	40	100.8	90 - 110	
59 Co	72		1	39.47 ppb	0.43	40	98.7	90 - 110	
60 Ni	72		1	41.03 ppb	0.27	40	102.6	90 - 110	
63 Cu	72		1	40.32 ppb	0.60	40	100.8	90 - 110	
66 Zn	72		1	40.30 ppb	0.46	40	100.8	90 - 110	
75 As	72		1	39.90 ppb	1.04	40	99.8	90 - 110	
78 Se	72		1	39.38 ppb	6.26	40	98.5	90 - 110	
95 Mo	72		1	40.14 ppb	0.13	40	100.4	90 - 110	
107 Ag	115		1	39.43 ppb	0.35	40	98.6	90 - 110	
111 Cd	115		1	40.26 ppb	0.38	40	100.7	90 - 110	
118 Sn	115		1	39.20 ppb	0.85	40	98.0	90 - 110	
121 Sb	115		1	38.07 ppb	0.76	40	95.2	90 - 110	
137 Ba	115		1	39.65 ppb	1.27	40	99.1	90 - 110	
205 Tl	165		1	40.61 ppb	1.35	40	101.5	90 - 110	
208 Pb	165		1	40.53 ppb	1.09	40	101.3	90 - 110	
232 Th	165		1	45.82 ppb	0.29	40	114.6	90 - 110	
238 U	165		1	41.02 ppb	0.38	40	102.6	90 - 110	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	380889	0.43	399164	95.4	30 - 120	
45 Sc	1	897908	0.41	940817	95.4	30 - 120	
72 Ge	1	510491	0.99	543541	93.9	30 - 120	
115 In	1	1725161	0.55	1769666	97.5	30 - 120	
165 Ho	1	3965758	0.76	4052095	97.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\006WASH.D\006WASH.D#
 Date Acquired: Jul 7 2009 06:40 pm
 Operator: TEL
 Sample Name: RLIV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6		1	1.089 ppb	17.74	1.30	
51 V	72		1	5.159 ppb	1.25	6.50	
52 Cr	72		1	2.056 ppb	4.36	2.60	
55 Mn	72		1	0.996 ppb	5.33	1.30	
59 Co	72		1	0.986 ppb	5.16	1.30	
60 Ni	72		1	2.089 ppb	5.01	2.60	
63 Cu	72		1	2.053 ppb	2.76	2.60	
66 Zn	72		1	10.520 ppb	1.83	13.00	
75 As	72		1	5.027 ppb	1.20	6.50	
78 Se	72		1	4.447 ppb	23.34	6.50	
95 Mo	72		1	2.089 ppb	0.78	2.60	
107 Ag	115		1	5.193 ppb	1.84	6.50	
111 Cd	115		1	1.042 ppb	3.41	1.30	
118 Sn	115		1	10.480 ppb	0.85	13.00	
121 Sb	115		1	2.185 ppb	1.55	2.60	
137 Ba	115		1	1.068 ppb	5.38	1.30	
205 Tl	165		1	1.176 ppb	2.26	1.30	
208 Pb	165		1	1.073 ppb	0.23	1.30	
232 Th	165		1	3.179 ppb	4.03	2.60	
238 U	165		1	1.102 ppb	1.37	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	379446	0.32	399164	95.1	30 - 120	
45 Sc	1	894440	1.04	940817	95.1	30 - 120	
72 Ge	1	517374	0.11	543541	95.2	30 - 120	
115 In	1	1715545	0.68	1769666	96.9	30 - 120	
165 Ho	1	3947602	0.56	4052095	97.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\007 ICB.D\007 ICB.D#
 Date Acquired: Jul 7 2009 06:43 pm **QC Summary:**
 Operator: TEL **Analytes:** Pass
 Sample Name: ICB **ISTD:** Pass
 Misc Info:
 Vial Number: 2104
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: ICB
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	ppb	0.00	1.00
51 V	72	1		-0.01	ppb	278.49	1.00
52 Cr	72	1		0.01	ppb	361.44	1.00
55 Mn	72	1		-0.01	ppb	36.80	1.00
59 Co	72	1		0.00	ppb	359.57	1.00
60 Ni	72	1		0.00	ppb	857.45	1.00
63 Cu	72	1		0.00	ppb	170.49	1.00
66 Zn	72	1		0.00	ppb	285.00	1.00
75 As	72	1		0.01	ppb	88.24	1.00
78 Se	72	1		0.02	ppb	872.43	1.00
95 Mo	72	1		0.01	ppb	14.64	1.00
107 Ag	115	1		0.00	ppb	129.33	1.00
111 Cd	115	1		0.00	ppb	333.20	1.00
118 Sn	115	1		0.09	ppb	12.11	1.00
121 Sb	115	1		0.08	ppb	3.49	1.00
137 Ba	115	1		0.00	ppb	216.96	1.00
205 Tl	165	1		0.07	ppb	7.69	1.00
208 Pb	165	1		0.00	ppb	101.76	1.00
232 Th	165	1		0.33	ppb	6.92	1.00
238 U	165	1		0.00	ppb	13.68	1.00

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6 Li	1	382408	0.87	399164	95.8	30 - 120		
45 Sc	1	907229	0.95	940817	96.4	30 - 120		
72 Ge	1	521075	0.30	543541	95.9	30 - 120		
115 In	1	1702190	0.54	1769666	96.2	30 - 120		
165 Ho	1	3975956	0.45	4052095	98.1	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\008RLST.D\008RLST.D#
 Date Acquired: Jul 7 2009 06:46 pm
 Operator: TEL
 Sample Name: RL STD
 Misc Info:
 Vial Number: 2105
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: RLSTD
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	1.04 ppb	12.32	1	103.7	50 - 150	
51 V	72		1	1.01 ppb	9.81	1	100.5	50 - 150	
52 Cr	72		1	0.99 ppb	5.47	1	99.4	50 - 150	
55 Mn	72		1	0.98 ppb	4.30	1	98.4	50 - 150	
59 Co	72		1	0.98 ppb	4.26	1	98.4	50 - 150	
60 Ni	72		1	0.98 ppb	3.81	1	98.5	50 - 150	
63 Cu	72		1	0.96 ppb	4.85	1	96.3	50 - 150	
66 Zn	72		1	10.22 ppb	0.29	10	102.2	50 - 150	
75 As	72		1	1.01 ppb	2.72	1	100.7	50 - 150	
78 Se	72		1	0.79 ppb	53.55	1	78.9	50 - 150	
95 Mo	72		1	1.07 ppb	4.00	1	107.1	50 - 150	
107 Ag	115		1	0.99 ppb	3.27	1	99.3	50 - 150	
111 Cd	115		1	1.03 ppb	1.34	1	103.2	50 - 150	
118 Sn	115		1	10.17 ppb	1.04	10	101.7	50 - 150	
121 Sb	115		1	1.03 ppb	5.66	1	102.9	50 - 150	
137 Ba	115		1	1.04 ppb	2.53	1	103.6	50 - 150	
205 Tl	165		1	1.06 ppb	0.83	1	106.2	50 - 150	
208 Pb	165		1	1.01 ppb	1.71	1	101.3	50 - 150	
232 Th	165		1	1.16 ppb	1.52	1	115.9	50 - 150	
238 U	165		1	1.06 ppb	1.52	1	105.6	50 - 150	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	381752	0.66	399164	95.6	30 - 120	
45 Sc	1	908450	0.62	940817	96.6	30 - 120	
72 Ge	1	523170	0.29	543541	96.3	30 - 120	
115 In	1	1727746	0.37	1769666	97.6	30 - 120	
165 Ho	1	3986580	0.86	4052095	98.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\009AFCE.D\009AFCE.D#
 Date Acquired: Jul 7 2009 06:49 pm
 Operator: TEL
 Sample Name: AFCEE RL
 Misc Info:
 Vial Number: 2106
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: AFCEE RL
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6		1	0.18 ppb	36.20	0	88.9	80 - 120	
51 V	72		1	0.15 ppb	7.13	0	73.5	80 - 120	
52 Cr	72		1	0.18 ppb	3.37	0	88.4	80 - 120	
55 Mn	72		1	0.20 ppb	12.94	0	101.5	80 - 120	
59 Co	72		1	0.20 ppb	5.47	0	100.2	80 - 120	
60 Ni	72		1	0.19 ppb	8.01	0	94.7	80 - 120	
63 Cu	72		1	0.20 ppb	4.43	0	102.8	80 - 120	
66 Zn	72		1	2.02 ppb	0.83	2	98.9	80 - 120	
75 As	72		1	0.21 ppb	14.22	0	101.8	80 - 120	
78 Se	72		1	0.11 ppb	92.40	0	70.8	80 - 120	
95 Mo	72		1	0.21 ppb	12.83	0	96.0	80 - 120	
107 Ag	115		1	0.19 ppb	14.07	0	93.7	80 - 120	
111 Cd	115		1	0.20 ppb	13.72	0	98.7	80 - 120	
118 Sn	115		1	2.10 ppb	1.98	2	103.2	80 - 120	
121 Sb	115		1	0.21 ppb	3.22	0	103.6	80 - 120	
137 Ba	115		1	0.19 ppb	8.30	0	92.8	80 - 120	
205 Tl	165		1	0.23 ppb	2.69	0	107.3	80 - 120	
208 Pb	165		1	0.21 ppb	2.25	0	102.4	80 - 120	
232 Th	165		1	0.30 ppb	1.72	0	130.8	80 - 120	
238 U	165		1	0.21 ppb	1.37	0	97.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	383219	0.57	399164	96.0	30 - 120	
45 Sc	1	910744	0.99	940817	96.8	30 - 120	
72 Ge	1	523238	0.51	543541	96.3	30 - 120	
115 In	1	1749677	0.22	1769666	98.9	30 - 120	
165 Ho	1	3982865	0.61	4052095	98.3	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\010SMPL.D\010SMPL.D#
 Date Acquired: Jul 7 2009 06:51 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ALTSe
 Misc Info: 2 ppb
 Vial Number: 2107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.01	-0.01	ppb	147.72	3600	
52 Cr	72	1		0.00	0.00	ppb	1241.60	3600	
55 Mn	72	1		0.00	0.00	ppb	472.13	3600	
59 Co	72	1		0.00	0.00	ppb	369.37	3600	
60 Ni	72	1		0.01	0.01	ppb	136.71	3600	
63 Cu	72	1		-0.01	-0.01	ppb	86.24	3600	
66 Zn	72	1		0.10	0.10	ppb	20.02	3600	
75 As	72	1		0.00	0.00	ppb	488.01	3600	
78 Se	72	1		1.71	1.71	ppb	19.19	3600	
95 Mo	72	1		0.00	0.00	ppb	42.52	3600	
107 Ag	115	1		0.00	0.00	ppb	89.97	3600	
111 Cd	115	1		0.00	0.00	ppb	483.30	3600	
118 Sn	115	1		0.44	0.44	ppb	3.98	3600	
121 Sb	115	1		0.01	0.01	ppb	51.24	3600	
137 Ba	115	1		0.00	0.00	ppb	2235.70	3600	
205 Tl	165	1		0.02	0.02	ppb	13.37	3600	
208 Pb	165	1		0.00	0.00	ppb	155.70	3600	
232 Th	165	1		0.05	0.05	ppb	11.74	1000	
238 U	165	1		0.00	0.00	ppb	34.75	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	381988	0.77	399164	95.7	30 - 120	
45 Sc	1	909120	0.30	940817	96.6	30 - 120	
72 Ge	1	524636	0.43	543541	96.5	30 - 120	
115 In	1	1729729	0.54	1769666	97.7	30 - 120	
165 Ho	1	3992746	0.71	4052095	98.5	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\011ICSA.D\011ICSA.D#
 Date Acquired: Jul 7 2009 06:54 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 QC Summary:
 Analytes: Pass
 ISTD: Pass
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High	Limit ppb	Flag
9 Be	6	1		0.01 ppb	173.19		1.00	
51 V	72	1		-0.12 ppb	145.18		1.00	
52 Cr	72	1		1.00 ppb	3.09		1.00	
55 Mn	72	1		2.15 ppb	3.13		1.00	
59 Co	72	1		0.05 ppb	8.09		1.00	
60 Ni	72	1		0.76 ppb	3.84		1.00	
63 Cu	72	1		0.31 ppb	8.08		1.00	
66 Zn	72	1		2.84 ppb	2.36		10.00	
75 As	72	1		0.16 ppb	4.86		1.00	
78 Se	72	1		-0.20 ppb	83.63		1.00	
95 Mo	72	1		2043.00 ppb	1.61		2000.00	
107 Ag	115	1		0.06 ppb	1.56		1.00	
111 Cd	115	1		0.46 ppb	24.91		1.00	
118 Sn	115	1		0.20 ppb	17.21		10.00	
121 Sb	115	1		0.24 ppb	6.95		1.00	
137 Ba	115	1		1.57 ppb	4.74		1.00	
205 Tl	165	1		0.05 ppb	32.86		1.00	
208 Pb	165	1		0.12 ppb	5.36		1.00	
232 Th	165	1		0.10 ppb	10.63		1.00	
238 U	165	1		0.02 ppb	3.23		1.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	365243	0.79	399164	91.5		30 - 120	
45 Sc	1	788222	0.65	940817	83.8		30 - 120	
72 Ge	1	427827	0.97	543541	78.7		30 - 120	
115 In	1	1437454	0.58	1769666	81.2		30 - 120	
165 Ho	1	3581671	0.93	4052095	88.4		30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\012ICSB.D\012ICSB.D#
 Date Acquired: Jul 7 2009 06:57 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSAB
 Misc Info:
 Vial Number: 2109
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: ICSAB
 Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	6	1		95.41	1.50	100	95.4	80 - 120	
51 V	72	1		103.80	1.00	100	103.8	80 - 120	
52 Cr	72	1		103.20	0.47	100	103.2	80 - 120	
55 Mn	72	1		103.00	0.69	100	103.0	80 - 120	
59 Co	72	1		95.34	0.69	100	95.3	80 - 120	
60 Ni	72	1		92.36	1.58	100	92.4	80 - 120	
63 Cu	72	1		89.22	0.72	100	89.2	80 - 120	
66 Zn	72	1		101.20	0.80	100	101.2	80 - 120	
75 As	72	1		101.20	0.94	100	101.2	80 - 120	
78 Se	72	1		111.30	2.75	100	111.3	80 - 120	
95 Mo	72	1		2173.00	1.31	2100	103.5	80 - 120	
107 Ag	115	1		85.76	1.92	100	85.8	80 - 120	
111 Cd	115	1		96.48	1.43	100	96.5	80 - 120	
118 Sn	115	1		103.80	1.68	100	103.8	80 - 120	
121 Sb	115	1		103.90	1.74	100	103.9	80 - 120	
137 Ba	115	1		106.00	2.12	100	106.0	80 - 120	
205 Tl	165	1		94.99	0.53	100	95.0	80 - 120	
208 Pb	165	1		94.09	0.42	100	94.1	80 - 120	
232 Th	165	1		111.20	1.41	100	111.2	80 - 120	
238 U	165	1		103.30	0.40	100	103.3	80 - 120	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	363601	0.94	399164	91.1	91.1	30 - 120	
45 Sc	1	745518	1.62	940817	79.2	79.2	30 - 120	
72 Ge	1	408166	0.77	543541	75.1	75.1	30 - 120	
115 In	1	1402003	0.59	1769666	79.2	79.2	30 - 120	
165 Ho	1	3568659	0.29	4052095	88.1	88.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\013SMPL.D\013SMPL.D#
 Date Acquired: Jul 7 2009 06:59 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: RINSE
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.01	0.01	ppb	173.16	3600	
51 V	72	1		-0.07	-0.07	ppb	35.08	3600	
52 Cr	72	1		0.00	0.00	ppb	168.71	3600	
55 Mn	72	1		0.01	0.01	ppb	62.67	3600	
59 Co	72	1		0.01	0.01	ppb	53.27	3600	
60 Ni	72	1		0.02	0.02	ppb	71.92	3600	
63 Cu	72	1		0.01	0.01	ppb	25.23	3600	
66 Zn	72	1		0.08	0.08	ppb	9.50	3600	
75 As	72	1		0.04	0.04	ppb	24.44	3600	
78 Se	72	1		0.02	0.02	ppb	1280.40	3600	
95 Mo	72	1		1.48	1.48	ppb	11.41	3600	
107 Ag	115	1		0.01	0.01	ppb	57.64	3600	
111 Cd	115	1		0.01	0.01	ppb	88.95	3600	
118 Sn	115	1		0.07	0.07	ppb	39.85	3600	
121 Sb	115	1		0.05	0.05	ppb	18.44	3600	
137 Ba	115	1		0.01	0.01	ppb	59.77	3600	
205 Tl	165	1		0.01	0.01	ppb	15.32	3600	
208 Pb	165	1		0.01	0.01	ppb	36.06	3600	
232 Th	165	1		0.85	0.85	ppb	23.15	1000	
238 U	165	1		0.02	0.02	ppb	9.73	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	392230	1.00	399164	98.3	30 - 120	
45 Sc	1	847933	1.38	940817	90.1	30 - 120	
72 Ge	1	494469	0.21	543541	91.0	30 - 120	
115 In	1	1662200	1.03	1769666	93.9	30 - 120	
165 Ho	1	4011358	1.54	4052095	99.0	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\014_LR.D\014_LR.D#
 Date Acquired: Jul 7 2009 07:02 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LR
 Misc Info:
 Vial Number: 2110
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: LR
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		983.40 ppb	1.01	1000	98.3	90 - 110	
51 V	72	1		947.80 ppb	1.93	1000	94.8	90 - 110	
52 Cr	72	1		970.60 ppb	1.54	1000	97.1	90 - 110	
55 Mn	72	1		980.00 ppb	1.74	1000	98.0	90 - 110	
59 Co	72	1		949.60 ppb	1.88	1000	95.0	90 - 110	
60 Ni	72	1		987.80 ppb	1.07	1000	98.8	90 - 110	
63 Cu	72	1		955.00 ppb	1.51	1000	95.5	90 - 110	
66 Zn	72	1		1033.00 ppb	1.84	1000	103.3	90 - 110	
75 As	72	1		994.00 ppb	0.73	1000	99.4	90 - 110	
78 Se	72	1		1029.00 ppb	2.04	1000	102.9	90 - 110	
95 Mo	72	1		1009.00 ppb	1.74	1000	100.9	90 - 110	
107 Ag	115	1		964.50 ppb	1.98	1000	96.5	90 - 110	
111 Cd	115	1		1029.00 ppb	1.52	1000	102.9	90 - 110	
118 Sn	115	1		1005.00 ppb	0.95	1000	100.5	90 - 110	
121 Sb	115	1		998.10 ppb	1.44	1000	99.8	90 - 110	
137 Ba	115	1		1023.00 ppb	0.46	1000	102.3	90 - 110	
205 Tl	165	1		972.10 ppb	0.66	1000	97.2	90 - 110	
208 Pb	165	1		965.00 ppb	0.85	1000	96.5	90 - 110	
232 Th	165	1		1087.00 ppb	2.42	1000	108.7	90 - 110	
238 U	165	1		1004.00 ppb	0.93	1000	100.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	374397	1.09	399164	93.8	30 - 120	
45 Sc	1	839630	1.54	940817	89.2	30 - 120	
72 Ge	1	487501	1.32	543541	89.7	30 - 120	
115 In	1	1652784	1.56	1769666	93.4	30 - 120	
165 Ho	1	4011589	1.51	4052095	99.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\015SMPL.D\015SMPL.D#
 Date Acquired: Jul 7 2009 07:05 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: RINSE
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr	Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1			0.10	0.10	ppb	44.89	3600	
51 V	72	1			0.04	0.04	ppb	13.03	3600	
52 Cr	72	1			0.06	0.06	ppb	24.31	3600	
55 Mn	72	1			0.06	0.06	ppb	39.96	3600	
59 Co	72	1			0.08	0.08	ppb	29.64	3600	
60 Ni	72	1			0.07	0.07	ppb	35.89	3600	
63 Cu	72	1			0.07	0.07	ppb	26.63	3600	
66 Zn	72	1			0.17	0.17	ppb	20.43	3600	
75 As	72	1			0.10	0.10	ppb	31.17	3600	
78 Se	72	1			0.20	0.20	ppb	197.18	3600	
95 Mo	72	1			0.78	0.78	ppb	8.80	3600	
107 Ag	115	1			0.05	0.05	ppb	29.15	3600	
111 Cd	115	1			0.08	0.08	ppb	11.89	3600	
118 Sn	115	1			1.34	1.34	ppb	4.00	3600	
121 Sb	115	1			0.53	0.53	ppb	4.95	3600	
137 Ba	115	1			0.06	0.06	ppb	16.69	3600	
205 Tl	165	1			0.14	0.14	ppb	16.45	3600	
208 Pb	165	1			0.08	0.08	ppb	29.48	3600	
232 Th	165	1			5.32	5.32	ppb	21.32	1000	
238 U	165	1			0.15	0.15	ppb	8.24	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	379584	0.33	399164	95.1	30 - 120	
45 Sc	1	873362	0.60	940817	92.8	30 - 120	
72 Ge	1	506731	0.43	543541	93.2	30 - 120	
115 In	1	1692278	0.36	1769666	95.6	30 - 120	
165 Ho	1	4003631	0.89	4052095	98.8	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\016_CCV.D\016_CCV.D#
 Date Acquired: Jul 7 2009 07:08 pm
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		49.62 ppb	3.63	50	99.2	90 - 110	
51 V	72	1		49.33 ppb	0.48	50	98.7	90 - 110	
52 Cr	72	1		49.99 ppb	0.15	50	100.0	90 - 110	
55 Mn	72	1		50.16 ppb	0.63	50	100.3	90 - 110	
59 Co	72	1		49.28 ppb	0.34	50	98.6	90 - 110	
60 Ni	72	1		49.82 ppb	0.86	50	99.6	90 - 110	
63 Cu	72	1		50.32 ppb	0.27	50	100.6	90 - 110	
66 Zn	72	1		51.12 ppb	0.39	50	102.2	90 - 110	
75 As	72	1		50.01 ppb	0.76	50	100.0	90 - 110	
78 Se	72	1		51.33 ppb	1.78	50	102.7	90 - 110	
95 Mo	72	1		51.04 ppb	0.26	50	102.1	90 - 110	
107 Ag	115	1		50.64 ppb	2.48	50	101.3	90 - 110	
111 Cd	115	1		51.08 ppb	3.26	50	102.2	90 - 110	
118 Sn	115	1		51.20 ppb	2.24	50	102.4	90 - 110	
121 Sb	115	1		50.97 ppb	2.72	50	101.9	90 - 110	
137 Ba	115	1		50.72 ppb	2.33	50	101.4	90 - 110	
205 Tl	165	1		51.22 ppb	0.82	50	102.4	90 - 110	
208 Pb	165	1		50.99 ppb	0.59	50	102.0	90 - 110	
232 Th	165	1		52.84 ppb	2.82	50	105.7	90 - 110	
238 U	165	1		52.33 ppb	1.04	50	104.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	376555	0.66	399164	94.3	30 - 120	
45 Sc	1	876739	1.55	940817	93.2	30 - 120	
72 Ge	1	505139	0.71	543541	92.9	30 - 120	
115 In	1	1690240	2.01	1769666	95.5	30 - 120	
165 Ho	1	3974864	0.42	4052095	98.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\017_CCB.D\017_CCB.D#
 Date Acquired: Jul 7 2009 07:10 pm
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.015 ppb	86.59	1.00	
51 V	72	1		0.001 ppb	2310.60	1.00	
52 Cr	72	1		0.015 ppb	77.74	1.00	
55 Mn	72	1		0.007 ppb	71.46	1.00	
59 Co	72	1		0.007 ppb	43.33	1.00	
60 Ni	72	1		0.005 ppb	124.14	1.00	
63 Cu	72	1		0.008 ppb	32.43	1.00	
66 Zn	72	1		-0.004 ppb	189.55	1.00	
75 As	72	1		0.039 ppb	52.57	1.00	
78 Se	72	1		0.034 ppb	988.42	1.00	
95 Mo	72	1		0.152 ppb	12.74	1.00	
107 Ag	115	1		0.008 ppb	0.82	1.00	
111 Cd	115	1		0.001 ppb	1452.00	1.00	
118 Sn	115	1		0.279 ppb	24.24	1.00	
121 Sb	115	1		0.108 ppb	14.18	1.00	
137 Ba	115	1		0.007 ppb	63.36	1.00	
205 Tl	165	1		0.063 ppb	13.43	1.00	
208 Pb	165	1		0.005 ppb	37.30	1.00	
232 Th	165	1		1.413 ppb	14.76	1.00	
238 U	165	1		0.015 ppb	3.77	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	376366	0.39	399164	94.3	30 - 120	
45 Sc	1	871292	1.51	940817	92.6	30 - 120	
72 Ge	1	509432	0.21	543541	93.7	30 - 120	
115 In	1	1694548	0.74	1769666	95.8	30 - 120	
165 Ho	1	3930648	0.63	4052095	97.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\018WASH.D\018WASH.D#
 Date Acquired: Jul 7 2009 07:13 pm
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.950 ppb	34.59	1.30	
51 V	72	1		5.092 ppb	2.34	6.50	
52 Cr	72	1		2.116 ppb	1.95	2.60	
55 Mn	72	1		1.041 ppb	3.33	1.30	
59 Co	72	1		0.977 ppb	1.97	1.30	
60 Ni	72	1		2.082 ppb	1.15	2.60	
63 Cu	72	1		2.096 ppb	0.80	2.60	
66 Zn	72	1		10.630 ppb	0.64	13.00	
75 As	72	1		5.058 ppb	3.38	6.50	
78 Se	72	1		5.432 ppb	1.49	6.50	
95 Mo	72	1		2.180 ppb	2.74	2.60	
107 Ag	115	1		5.324 ppb	0.74	6.50	
111 Cd	115	1		1.066 ppb	6.36	1.30	
118 Sn	115	1		10.810 ppb	0.98	13.00	
121 Sb	115	1		2.023 ppb	2.76	2.60	
137 Ba	115	1		1.068 ppb	2.92	1.30	
205 Tl	165	1		1.140 ppb	1.37	1.30	
208 Pb	165	1		1.064 ppb	2.30	1.30	
232 Th	165	1		2.562 ppb	0.69	2.60	
238 U	165	1		1.114 ppb	1.20	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	375609	0.51	399164	94.1	30 - 120		
45 Sc	1	888298	1.26	940817	94.4	30 - 120		
72 Ge	1	513002	0.31	543541	94.4	30 - 120		
115 In	1	1688757	0.59	1769666	95.4	30 - 120		
165 Ho	1	3965900	1.10	4052095	97.9	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\019SMPL.D\019SMPL.D#
 Date Acquired: Jul 7 2009 07:16 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 1
 Misc Info: IDL 1
 Vial Number: 2201
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr	Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1			0.00	0.00	ppb	0.00	3600	
51 V	72	1			-0.04	-0.04	ppb	68.44	3600	
52 Cr	72	1			0.04	0.04	ppb	29.24	3600	
55 Mn	72	1			0.00	0.00	ppb	256.13	3600	
59 Co	72	1			0.00	0.00	ppb	382.70	3600	
60 Ni	72	1			0.01	0.01	ppb	49.38	3600	
63 Cu	72	1			0.01	0.01	ppb	55.64	3600	
66 Zn	72	1			0.14	0.14	ppb	21.68	3600	
75 As	72	1			0.01	0.01	ppb	203.55	3600	
78 Se	72	1			-0.13	-0.13	ppb	125.58	3600	
95 Mo	72	1			0.05	0.05	ppb	16.98	3600	
107 Ag	115	1			0.00	0.00	ppb	52.68	3600	
111 Cd	115	1			0.00	0.00	ppb	214.07	3600	
118 Sn	115	1			0.15	0.15	ppb	19.57	3600	
121 Sb	115	1			0.06	0.06	ppb	6.05	3600	
137 Ba	115	1			0.00	0.00	ppb	349.53	3600	
205 Tl	165	1			0.12	0.12	ppb	50.04	3600	
208 Pb	165	1			0.00	0.00	ppb	22.86	3600	
232 Th	165	1			0.34	0.34	ppb	17.39	1000	
238 U	165	1			0.00	0.00	ppb	16.51	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	379285	0.19	399164	95.0	30 - 120	
45 Sc	1	892144	1.83	940817	94.8	30 - 120	
72 Ge	1	515237	0.27	543541	94.8	30 - 120	
115 In	1	1718488	1.06	1769666	97.1	30 - 120	
165 Ho	1	3986789	1.41	4052095	98.4	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\020SMPL.D\020SMPL.D#
 Date Acquired: Jul 7 2009 07:19 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 2
 Misc Info: IDL 2
 Vial Number: 2202
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		0.00	0.00	ppb	377.77	3600	
52 Cr	72	1		0.10	0.10	ppb	6.96	3600	
55 Mn	72	1		0.01	0.01	ppb	45.86	3600	
59 Co	72	1		0.00	0.00	ppb	145.74	3600	
60 Ni	72	1		0.00	0.00	ppb	1196.50	3600	
63 Cu	72	1		0.01	0.01	ppb	103.69	3600	
66 Zn	72	1		0.18	0.18	ppb	23.83	3600	
75 As	72	1		0.02	0.02	ppb	70.21	3600	
78 Se	72	1		-0.01	-0.01	ppb	2560.20	3600	
95 Mo	72	1		0.05	0.05	ppb	46.21	3600	
107 Ag	115	1		0.00	0.00	ppb	49.01	3600	
111 Cd	115	1		0.00	0.00	ppb	135.26	3600	
118 Sn	115	1		0.10	0.10	ppb	15.66	3600	
121 Sb	115	1		0.03	0.03	ppb	4.43	3600	
137 Ba	115	1		0.00	0.00	ppb	232.64	3600	
205 Tl	165	1		0.02	0.02	ppb	15.52	3600	
208 Pb	165	1		0.00	0.00	ppb	48.86	3600	
232 Th	165	1		0.15	0.15	ppb	8.53	1000	
238 U	165	1		0.00	0.00	ppb	25.79	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	380373	0.78	399164	95.3	30 ~ 120	
45 Sc	1	911770	1.04	940817	96.9	30 ~ 120	
72 Ge	1	519249	0.73	543541	95.5	30 ~ 120	
115 In	1	1724932	1.14	1769666	97.5	30 ~ 120	
165 Ho	1	4028099	0.29	4052095	99.4	30 ~ 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\021SMPL.D\021SMPL.D#
 Date Acquired: Jul 7 2009 07:21 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 3
 Misc Info: IDL 3
 Vial Number: 2203
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr	Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1			0.00	0.00	ppb	0.00	3600	
51 V	72	1			-0.03	-0.03	ppb	36.00	3600	
52 Cr	72	1			0.07	0.07	ppb	28.56	3600	
55 Mn	72	1			0.01	0.01	ppb	52.10	3600	
59 Co	72	1			0.00	0.00	ppb	355.28	3600	
60 Ni	72	1			0.01	0.01	ppb	40.66	3600	
63 Cu	72	1			0.02	0.02	ppb	44.24	3600	
66 Zn	72	1			0.26	0.26	ppb	8.74	3600	
75 As	72	1			0.01	0.01	ppb	60.02	3600	
78 Se	72	1			-0.04	-0.04	ppb	585.23	3600	
95 Mo	72	1			0.03	0.03	ppb	22.63	3600	
107 Ag	115	1			0.00	0.00	ppb	178.94	3600	
111 Cd	115	1			0.00	0.00	ppb	352.78	3600	
118 Sn	115	1			0.08	0.08	ppb	24.98	3600	
121 Sb	115	1			0.03	0.03	ppb	8.44	3600	
137 Ba	115	1			0.00	0.00	ppb	67.24	3600	
205 Tl	165	1			0.01	0.01	ppb	19.44	3600	
208 Pb	165	1			0.01	0.01	ppb	13.68	3600	
232 Th	165	1			0.08	0.08	ppb	3.77	1000	
238 U	165	1			0.00	0.00	ppb	12.12	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	382171	0.47	399164	95.7	30 - 120	
45 Sc	1	913266	0.67	940817	97.1	30 - 120	
72 Ge	1	522994	0.15	543541	96.2	30 - 120	
115 In	1	1746978	0.26	1769666	98.7	30 - 120	
165 Ho	1	4035614	0.63	4052095	99.6	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\022SMPL.D\022SMPL.D#
 Date Acquired: Jul 7 2009 07:24 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 4
 Misc Info: IDL 4
 Vial Number: 2204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		0.02	0.02	ppb	152.96	3600	
52 Cr	72	1		0.06	0.06	ppb	24.25	3600	
55 Mn	72	1		0.00	0.00	ppb	144.92	3600	
59 Co	72	1		0.00	0.00	ppb	1117.00	3600	
60 Ni	72	1		0.01	0.01	ppb	53.84	3600	
63 Cu	72	1		0.01	0.01	ppb	130.03	3600	
66 Zn	72	1		0.16	0.16	ppb	19.17	3600	
75 As	72	1		0.01	0.01	ppb	137.11	3600	
78 Se	72	1		0.08	0.08	ppb	286.30	3600	
95 Mo	72	1		0.03	0.03	ppb	66.91	3600	
107 Ag	115	1		0.04	0.04	ppb	167.18	3600	
111 Cd	115	1		0.00	0.00	ppb	1323.30	3600	
118 Sn	115	1		0.07	0.07	ppb	30.62	3600	
121 Sb	115	1		0.02	0.02	ppb	25.73	3600	
137 Ba	115	1		0.00	0.00	ppb	126.77	3600	
205 Tl	165	1		0.00	0.00	ppb	17.01	3600	
208 Pb	165	1		0.01	0.01	ppb	11.23	3600	
232 Th	165	1		0.05	0.05	ppb	3.48	1000	
238 U	165	1		0.00	0.00	ppb	41.01	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	380990	0.19	399164	95.4	30 - 120	
45 Sc	1	921642	0.31	940817	98.0	30 - 120	
72 Ge	1	522994	0.54	543541	96.2	30 - 120	
115 In	1	1746663	0.41	1769666	98.7	30 - 120	
165 Ho	1	4031298	0.35	4052095	99.5	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\023SMPL.D\023SMPL.D#
 Date Acquired: Jul 7 2009 07:27 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 5
 Misc Info: IDL 5
 Vial Number: 2205
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.03	-0.03	ppb	69.22	3600	
52 Cr	72	1		0.06	0.06	ppb	39.69	3600	
55 Mn	72	1		0.01	0.01	ppb	116.00	3600	
59 Co	72	1		0.00	0.00	ppb	153.25	3600	
60 Ni	72	1		0.01	0.01	ppb	36.95	3600	
63 Cu	72	1		0.03	0.03	ppb	48.62	3600	
66 Zn	72	1		0.38	0.38	ppb	10.97	3600	
75 As	72	1		0.01	0.01	ppb	58.58	3600	
78 Se	72	1		0.14	0.14	ppb	113.36	3600	
95 Mo	72	1		0.02	0.02	ppb	9.44	3600	
107 Ag	115	1		0.00	0.00	ppb	49.32	3600	
111 Cd	115	1		0.00	0.00	ppb	66.69	3600	
118 Sn	115	1		0.05	0.05	ppb	18.47	3600	
121 Sb	115	1		0.01	0.01	ppb	39.88	3600	
137 Ba	115	1		0.04	0.04	ppb	25.01	3600	
205 Tl	165	1		0.00	0.00	ppb	42.60	3600	
208 Pb	165	1		0.00	0.00	ppb	11.74	3600	
232 Th	165	1		0.03	0.03	ppb	10.68	1000	
238 U	165	1		0.00	0.00	ppb	43.23	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	381108	1.08	399164	95.5	30 - 120	
45 Sc	1	917609	0.68	940817	97.5	30 - 120	
72 Ge	1	526581	0.40	543541	96.9	30 - 120	
115 In	1	1753078	0.65	1769666	99.1	30 - 120	
165 Ho	1	4051353	0.90	4052095	100.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\024SMPL.D\024SMPL.D#
 Date Acquired: Jul 7 2009 07:30 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 6
 Misc Info: IDL 6
 Vial Number: 2206
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.03	-0.03	ppb	46.47	3600	
52 Cr	72	1		0.04	0.04	ppb	30.72	3600	
55 Mn	72	1		0.01	0.01	ppb	69.39	3600	
59 Co	72	1		0.00	0.00	ppb	147.86	3600	
60 Ni	72	1		0.00	0.00	ppb	209.95	3600	
63 Cu	72	1		0.00	0.00	ppb	636.32	3600	
66 Zn	72	1		0.12	0.12	ppb	19.15	3600	
75 As	72	1		0.01	0.01	ppb	57.82	3600	
78 Se	72	1		-0.14	-0.14	ppb	174.84	3600	
95 Mo	72	1		0.02	0.02	ppb	42.62	3600	
107 Ag	115	1		0.00	0.00	ppb	112.75	3600	
111 Cd	115	1		0.00	0.00	ppb	155.48	3600	
118 Sn	115	1		0.03	0.03	ppb	40.76	3600	
121 Sb	115	1		0.01	0.01	ppb	30.69	3600	
137 Ba	115	1		0.00	0.00	ppb	630.14	3600	
205 Tl	165	1		0.00	0.00	ppb	28.37	3600	
208 Pb	165	1		0.01	0.01	ppb	14.13	3600	
232 Th	165	1		0.02	0.02	ppb	13.98	1000	
238 U	165	1		0.00	0.00	ppb	61.03	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	379484	0.58	399164	95.1	30 - 120	
45 Sc	1	919710	0.59	940817	97.8	30 - 120	
72 Ge	1	529558	0.14	543541	97.4	30 - 120	
115 In	1	1740330	0.31	1769666	98.3	30 - 120	
165 Ho	1	4028294	0.54	4052095	99.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\025SMPL.D\025SMPL.D#
 Date Acquired: Jul 7 2009 07:32 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 7
 Misc Info: IDL 7
 Vial Number: 2207
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.02	-0.02	ppb	66.88	3600	
52 Cr	72	1		0.09	0.09	ppb	22.46	3600	
55 Mn	72	1		0.01	0.01	ppb	119.57	3600	
59 Co	72	1		0.00	0.00	ppb	26.53	3600	
60 Ni	72	1		0.01	0.01	ppb	81.48	3600	
63 Cu	72	1		0.01	0.01	ppb	162.49	3600	
66 Zn	72	1		0.46	0.46	ppb	7.54	3600	
75 As	72	1		0.00	0.00	ppb	826.57	3600	
78 Se	72	1		0.10	0.10	ppb	199.05	3600	
95 Mo	72	1		0.03	0.03	ppb	36.36	3600	
107 Ag	115	1		0.00	0.00	ppb	86.85	3600	
111 Cd	115	1		0.00	0.00	ppb	439.55	3600	
118 Sn	115	1		0.07	0.07	ppb	34.83	3600	
121 Sb	115	1		0.01	0.01	ppb	25.15	3600	
137 Ba	115	1		0.01	0.01	ppb	107.25	3600	
205 Tl	165	1		0.00	0.00	ppb	136.49	3600	
208 Pb	165	1		0.00	0.00	ppb	56.94	3600	
232 Th	165	1		0.02	0.02	ppb	11.50	1000	
238 U	165	1		0.00	0.00	ppb	52.38	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	382232	0.33	399164	95.8	30 - 120	
45 Sc	1	914289	2.86	940817	97.2	30 - 120	
72 Ge	1	528909	0.57	543541	97.3	30 - 120	
115 In	1	1760439	0.96	1769666	99.5	30 - 120	
165 Ho	1	4061949	1.79	4052095	100.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\026_CCV.D\026_CCV.D#
 Date Acquired: Jul 7 2009 07:35 pm
 Operator: TEL
 Sample Name: CCV
 QC Summary:
 Sample Type: CCV
 ISTD: Pass
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	49.11	ppb	1.59	50	98.2	90 - 110
51 V	72		1	49.65	ppb	0.84	50	99.3	90 - 110
52 Cr	72		1	49.85	ppb	0.52	50	99.7	90 - 110
55 Mn	72		1	50.18	ppb	0.98	50	100.4	90 - 110
59 Co	72		1	49.63	ppb	0.79	50	99.3	90 - 110
60 Ni	72		1	50.44	ppb	0.39	50	100.9	90 - 110
63 Cu	72		1	49.99	ppb	0.78	50	100.0	90 - 110
66 Zn	72		1	50.56	ppb	0.39	50	101.1	90 - 110
75 As	72		1	50.04	ppb	0.28	50	100.1	90 - 110
78 Se	72		1	51.86	ppb	3.17	50	103.7	90 - 110
95 Mo	72		1	50.35	ppb	0.60	50	100.7	90 - 110
107 Ag	115		1	50.41	ppb	1.84	50	100.8	90 - 110
111 Cd	115		1	50.40	ppb	1.73	50	100.8	90 - 110
118 Sn	115		1	50.13	ppb	1.43	50	100.3	90 - 110
121 Sb	115		1	50.25	ppb	1.11	50	100.5	90 - 110
137 Ba	115		1	50.69	ppb	1.75	50	101.4	90 - 110
205 Tl	165		1	50.76	ppb	0.57	50	101.5	90 - 110
208 Pb	165		1	50.43	ppb	0.52	50	100.9	90 - 110
232 Th	165		1	50.82	ppb	2.31	50	101.6	90 - 110
238 U	165		1	51.44	ppb	0.54	50	102.9	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	371672	0.71	399164	93.1	30 - 120	
45 Sc	1	912752	0.78	940817	97.0	30 - 120	
72 Ge	1	522215	0.41	543541	96.1	30 - 120	
115 In	1	1743103	0.73	1769666	98.5	30 - 120	
165 Ho	1	4005312	0.25	4052095	98.8	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\027_CCB.D\027_CCB.D#
 Date Acquired: Jul 7 2009 07:38 pm
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.015 ppb	86.57	1.00	
51 V	72	1		0.000 ppb	19711.00	1.00	
52 Cr	72	1		-0.001 ppb	6169.20	1.00	
55 Mn	72	1		0.001 ppb	190.49	1.00	
59 Co	72	1		0.008 ppb	39.18	1.00	
60 Ni	72	1		0.019 ppb	96.35	1.00	
63 Cu	72	1		-0.005 ppb	50.33	1.00	
66 Zn	72	1		0.021 ppb	90.07	1.00	
75 As	72	1		0.019 ppb	36.03	1.00	
78 Se	72	1		0.143 ppb	130.86	1.00	
95 Mo	72	1		0.058 ppb	40.81	1.00	
107 Ag	115	1		0.007 ppb	31.96	1.00	
111 Cd	115	1		0.005 ppb	147.19	1.00	
118 Sn	115	1		0.092 ppb	9.40	1.00	
121 Sb	115	1		0.047 ppb	17.39	1.00	
137 Ba	115	1		0.007 ppb	25.78	1.00	
205 Tl	165	1		0.027 ppb	8.32	1.00	
208 Pb	165	1		0.004 ppb	29.24	1.00	
232 Th	165	1		1.122 ppb	18.47	1.00	
238 U	165	1		0.009 ppb	11.87	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	372423	1.23	399164	93.3	30 - 120	
45 Sc	1	912447	0.67	940817	97.0	30 - 120	
72 Ge	1	523888	0.45	543541	96.4	30 - 120	
115 In	1	1734442	0.69	1769666	98.0	30 - 120	
165 Ho	1	3981000	0.53	4052095	98.2	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\028WASH.D\028WASH.D#
 Date Acquired: Jul 7 2009 07:41 pm
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.085 ppb	15.68	1.30	
51 V	72	1		5.132 ppb	0.96	6.50	
52 Cr	72	1		2.054 ppb	3.48	2.60	
55 Mn	72	1		1.017 ppb	4.38	1.30	
59 Co	72	1		1.024 ppb	2.60	1.30	
60 Ni	72	1		2.076 ppb	8.39	2.60	
63 Cu	72	1		2.034 ppb	0.60	2.60	
66 Zn	72	1		10.510 ppb	1.39	13.00	
75 As	72	1		5.147 ppb	1.98	6.50	
78 Se	72	1		4.531 ppb	13.79	6.50	
95 Mo	72	1		2.009 ppb	2.89	2.60	
107 Ag	115	1		5.317 ppb	1.44	6.50	
111 Cd	115	1		1.104 ppb	9.81	1.30	
118 Sn	115	1		10.490 ppb	2.91	13.00	
121 Sb	115	1		1.965 ppb	2.52	2.60	
137 Ba	115	1		1.095 ppb	3.49	1.30	
205 Tl	165	1		1.097 ppb	0.49	1.30	
208 Pb	165	1		1.060 ppb	0.29	1.30	
232 Th	165	1		2.347 ppb	1.47	2.60	
238 U	165	1		1.092 ppb	1.22	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	372721	0.46	399164	93.4	30 - 120	
45 Sc	1	900076	1.60	940817	95.7	30 - 120	
72 Ge	1	524566	0.72	543541	96.5	30 - 120	
115 In	1	1735347	1.19	1769666	98.1	30 - 120	
165 Ho	1	4009833	0.10	4052095	99.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

... "During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: R. J. H.

Date: 7/8/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#
 Date Acquired: Jul 8 2009 12:34 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:32 am
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		-108	246.57
52	Cr	72	1		1653	5.08
55	Mn	72	1		180	17.07
59	Co	72	1		53	59.97
60	Ni	72	1		60	49.96
63	Cu	72	1		533	20.71
66	Zn	72	1		196	14.00
75	As	72	1		38	45.31
78	Se	72	1		217	11.91
95	Mo	72	1		320	5.86
107	Ag	115	1		27	57.06
111	Cd	115	1		9	94.56
118	Sn	115	1		363	7.25
121	Sb	115	1		31	53.98
137	Ba	115	1		28	24.75
205	Tl	165	1		36	19.54
208	Pb	165	1		318	9.95
232	Th	165	1		933	10.49
238	U	165	1		32	6.43

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	359710	0.64
45	Sc	1	999296	0.68
72	Ge	1	590607	0.42
115	In	1	1756110	0.38
165	Ho	1	3599124	0.59

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\135ICAL.D\135ICAL.D#
 Date Acquired: Jul 8 2009 12:37 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:35 am
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD (%)
9 Be	6	1	42456	0.79
51 V	72	1	677901	0.51
52 Cr	72	1	771532	0.97
55 Mn	72	1	701977	0.22
59 Co	72	1	1096247	1.62
60 Ni	72	1	262850	0.23
63 Cu	72	1	658157	0.06
66 Zn	72	1	119936	0.74
75 As	72	1	80646	0.43
78 Se	72	1	11832	3.06
95 Mo	72	1	303504	0.38
107 Ag	115	1	975217	1.48
111 Cd	115	1	166334	0.80
118 Sn	115	1	422146	0.57
121 Sb	115	1	468819	1.26
137 Ba	115	1	186995	0.82
205 Tl	165	1	1941640	2.52
208 Pb	165	1	2617843	1.23
232 Th	165	1	2474288	4.07
238 U	165	1	2935507	0.82

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	357075	1.18	359710	99.3	30 - 120	
45 Sc	1	1009477	1.71	999296	101.0	30 - 120	
72 Ge	1	575763	0.70	590607	97.5	30 - 120	
115 In	1	1747144	0.55	1756110	99.5	30 - 120	
165 Ho	1	3577226	0.83	3599124	99.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\136_CCV.D\136_CCV.D#
 Date Acquired: Jul 8 2009 12:39 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		50.03 ppb	0.56	50	100.1	90 - 110	
51 V	72	1		49.80 ppb	0.84	50	99.6	90 - 110	
52 Cr	72	1		48.81 ppb	0.12	50	97.6	90 - 110	
55 Mn	72	1		49.22 ppb	0.79	50	98.4	90 - 110	
59 Co	72	1		48.81 ppb	0.80	50	97.6	90 - 110	
60 Ni	72	1		49.71 ppb	0.88	50	99.4	90 - 110	
63 Cu	72	1		49.20 ppb	0.30	50	98.4	90 - 110	
66 Zn	72	1		50.04 ppb	1.12	50	100.1	90 - 110	
75 As	72	1		49.55 ppb	0.66	50	99.1	90 - 110	
78 Se	72	1		48.70 ppb	7.53	50	97.4	90 - 110	
95 Mo	72	1		49.10 ppb	0.65	50	98.2	90 - 110	
107 Ag	115	1		49.02 ppb	1.24	50	98.0	90 - 110	
111 Cd	115	1		48.83 ppb	0.79	50	97.7	90 - 110	
118 Sn	115	1		49.21 ppb	0.47	50	98.4	90 - 110	
121 Sb	115	1		48.89 ppb	1.07	50	97.8	90 - 110	
137 Ba	115	1		49.18 ppb	0.88	50	98.4	90 - 110	
205 Tl	165	1		49.43 ppb	0.66	50	98.9	90 - 110	
208 Pb	165	1		49.64 ppb	0.67	50	99.3	90 - 110	
232 Th	165	1		51.45 ppb	2.27	50	102.9	90 - 110	
238 U	165	1		49.34 ppb	1.31	50	98.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	348155	0.34	359710	96.8	30 - 120	
45 Sc	1	976535	2.40	999296	97.7	30 - 120	
72 Ge	1	566977	0.68	590607	96.0	30 - 120	
115 In	1	1731189	0.46	1756110	98.6	30 - 120	
165 Ho	1	3536295	0.16	3599124	98.3	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\137_CCB.D\137_CCB.D#
 Date Acquired: Jul 8 2009 12:42 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1	0.024 ppb	99.58	1.00	
51 V	72	1	0.018 ppb	61.07	1.00	
52 Cr	72	1	0.001 ppb	352.73	1.00	
55 Mn	72	1	0.009 ppb	40.91	1.00	
59 Co	72	1	0.004 ppb	59.53	1.00	
60 Ni	72	1	0.011 ppb	122.18	1.00	
63 Cu	72	1	-0.021 ppb	21.33	1.00	
66 Zn	72	1	0.001 ppb	4545.90	1.00	
75 As	72	1	0.007 ppb	98.54	1.00	
78 Se	72	1	-0.199 ppb	427.62	1.00	
95 Mo	72	1	-0.036 ppb	15.25	1.00	
107 Ag	115	1	0.005 ppb	44.75	1.00	
111 Cd	115	1	0.002 ppb	424.36	1.00	
118 Sn	115	1	0.109 ppb	9.40	1.00	
121 Sb	115	1	0.074 ppb	8.54	1.00	
137 Ba	115	1	0.002 ppb	210.19	1.00	
205 Tl	165	1	0.040 ppb	5.51	1.00	
208 Pb	165	1	0.004 ppb	85.66	1.00	
232 Th	165	1	1.629 ppb	17.97	1.00	
238 U	165	1	0.015 ppb	10.32	1.00	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	350828	0.66	359710	97.5	30 - 120	
45 Sc	1	973486	2.25	999296	97.4	30 - 120	
72 Ge	1	570555	0.38	590607	96.6	30 - 120	
115 In	1	1720156	0.91	1756110	98.0	30 - 120	
165 Ho	1	3509645	0.62	3599124	97.5	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\138WASH.D\138WASH.D#
 Date Acquired: Jul 8 2009 12:45 am
 Operator: TEL
 Sample Name: RLCV
 QC Summary:
 Misc Info: Analytes: Pass
 Vial Number: ISTD: Pass
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.979 ppb	34.30	1.30	
51 V	72	1		5.068 ppb	3.72	6.50	
52 Cr	72	1		2.018 ppb	2.07	2.60	
55 Mn	72	1		1.014 ppb	4.96	1.30	
59 Co	72	1		0.964 ppb	1.37	1.30	
60 Ni	72	1		2.014 ppb	1.39	2.60	
63 Cu	72	1		1.962 ppb	1.29	2.60	
66 Zn	72	1		10.290 ppb	2.60	13.00	
75 As	72	1		4.998 ppb	2.58	6.50	
78 Se	72	1		5.245 ppb	9.66	6.50	
95 Mo	72	1		1.966 ppb	4.66	2.60	
107 Ag	115	1		5.162 ppb	1.02	6.50	
111 Cd	115	1		1.074 ppb	10.21	1.30	
118 Sn	115	1		10.220 ppb	1.85	13.00	
121 Sb	115	1		1.873 ppb	2.04	2.60	
137 Ba	115	1		1.017 ppb	3.52	1.30	
205 Tl	165	1		1.072 ppb	1.31	1.30	
208 Pb	165	1		1.039 ppb	0.84	1.30	
232 Th	165	1		2.457 ppb	2.48	2.60	
238 U	165	1		1.060 ppb	0.72	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	352388	0.22	359710	98.0	30 - 120		
45 Sc	1	974978	1.17	999296	97.6	30 - 120		
72 Ge	1	572889	0.46	590607	97.0	30 - 120		
115 In	1	1728325	1.17	1756110	98.4	30 - 120		
165 Ho	1	3531685	0.46	3599124	98.1	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\170_CCV.D\170_CCV.D#
 Date Acquired: Jul 8 2009 02:13 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		52.25 ppb	2.31	50	104.5	90 - 110	
51 V	72	1		48.28 ppb	0.15	50	96.6	90 - 110	
52 Cr	72	1		47.98 ppb	0.91	50	96.0	90 - 110	
55 Mn	72	1		48.02 ppb	0.49	50	96.0	90 - 110	
59 Co	72	1		47.40 ppb	0.99	50	94.8	90 - 110	
60 Ni	72	1		48.09 ppb	0.72	50	96.2	90 - 110	
63 Cu	72	1		48.41 ppb	0.48	50	96.8	90 - 110	
66 Zn	72	1		51.25 ppb	0.79	50	102.5	90 - 110	
75 As	72	1		51.11 ppb	0.68	50	102.2	90 - 110	
78 Se	72	1		47.31 ppb	1.42	50	94.6	90 - 110	
95 Mo	72	1		49.09 ppb	0.32	50	98.2	90 - 110	
107 Ag	115	1		49.14 ppb	1.32	50	98.3	90 - 110	
111 Cd	115	1		50.26 ppb	0.53	50	100.5	90 - 110	
118 Sn	115	1		50.08 ppb	0.55	50	100.2	90 - 110	
121 Sb	115	1		52.86 ppb	0.74	50	105.7	90 - 110	
137 Ba	115	1		50.79 ppb	0.56	50	101.6	90 - 110	
205 Tl	165	1		49.91 ppb	1.62	50	99.8	90 - 110	
208 Pb	165	1		50.25 ppb	1.06	50	100.5	90 - 110	
232 Th	165	1		52.19 ppb	2.46	50	104.4	90 - 110	
238 U	165	1		50.74 ppb	1.41	50	101.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	297820	1.09	359710	82.8	30 - 120	
45 Sc	1	821190	0.56	999296	82.2	30 - 120	
72 Ge	1	496911	0.76	590607	84.1	30 - 120	
115 In	1	1472311	0.13	1756110	83.8	30 - 120	
165 Ho	1	3081621	0.70	3599124	85.6	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\171_CCB.D\171_CCB.D#
 Date Acquired: Jul 8 2009 02:16 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.009 ppb	173.25	1.00	
51 V	72	1		-0.013 ppb	179.76	1.00	
52 Cr	72	1		0.003 ppb	753.01	1.00	
55 Mn	72	1		0.022 ppb	41.71	1.00	
59 Co	72	1		0.005 ppb	45.50	1.00	
60 Ni	72	1		0.003 ppb	613.52	1.00	
63 Cu	72	1		-0.010 ppb	29.29	1.00	
66 Zn	72	1		0.013 ppb	30.26	1.00	
75 As	72	1		0.000 ppb	1972.40	1.00	
78 Se	72	1		0.083 ppb	601.56	1.00	
95 Mo	72	1		-0.048 ppb	23.13	1.00	
107 Ag	115	1		0.006 ppb	71.17	1.00	
111 Cd	115	1		0.020 ppb	73.98	1.00	
118 Sn	115	1		0.082 ppb	37.20	1.00	
121 Sb	115	1		0.080 ppb	18.41	1.00	
137 Ba	115	1		0.002 ppb	137.02	1.00	
205 Tl	165	1		0.029 ppb	15.84	1.00	
208 Pb	165	1		0.004 ppb	61.81	1.00	
232 Th	165	1		1.587 ppb	15.59	1.00	
238 U	165	1		0.015 ppb	17.02	1.00	Fail

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	311145	0.41	359710	86.5	30 - 120		
45 Sc	1	865887	2.51	999296	86.6	30 - 120		
72 Ge	1	521021	0.41	590607	88.2	30 - 120		
115 In	1	1566375	1.62	1756110	89.2	30 - 120		
165 Ho	1	3235774	0.99	3599124	89.9	30 - 120		

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\172WASH.D\172WASH.D#
 Date Acquired: Jul 8 2009 02:19 am
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.108 ppb	11.14	1.30	
51 V	72	1		4.987 ppb	2.20	6.50	
52 Cr	72	1		2.019 ppb	0.87	2.60	
55 Mn	72	1		1.026 ppb	4.94	1.30	
59 Co	72	1		0.990 ppb	1.52	1.30	
60 Ni	72	1		1.993 ppb	4.57	2.60	
63 Cu	72	1		2.003 ppb	0.52	2.60	
66 Zn	72	1		10.600 ppb	0.57	13.00	
75 As	72	1		5.166 ppb	2.10	6.50	
78 Se	72	1		5.617 ppb	6.11	6.50	
95 Mo	72	1		1.915 ppb	2.54	2.60	
107 Ag	115	1		5.106 ppb	0.39	6.50	
111 Cd	115	1		1.021 ppb	4.92	1.30	
118 Sn	115	1		10.420 ppb	0.80	13.00	
121 Sb	115	1		1.987 ppb	4.16	2.60	
137 Ba	115	1		1.085 ppb	5.30	1.30	
205 Tl	165	1		1.081 ppb	1.19	1.30	
208 Pb	165	1		1.061 ppb	1.33	1.30	
232 Th	165	1		2.515 ppb	1.76	2.60	
238 U	165	1		1.093 ppb	1.74	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	316333	0.07	359710	87.9	30 - 120		
45 Sc	1	887198	0.56	999296	88.8	30 - 120		
72 Ge	1	530843	0.48	590607	89.9	30 - 120		
115 In	1	1618138	0.95	1756110	92.1	30 - 120		
165 Ho	1	3373797	0.53	3599124	93.7	30 - 120		

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\173_BLK.D\173_BLK.D#
 Date Acquired: Jul 8 2009 02:22 am
 Operator: TEL
 Sample Name: LF30GBF
 Misc Info: BLANK 9187175 6020
 Vial Number: 3407
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: BLK
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.009 ppb	173.20	2.00	
51 V	72	1		0.016 ppb	193.58	2.00	
52 Cr	72	1		-0.017 ppb	101.97	2.00	
55 Mn	72	1		0.015 ppb	39.29	2.00	
59 Co	72	1		-0.002 ppb	61.70	2.00	
60 Ni	72	1		0.017 ppb	28.07	2.00	
63 Cu	72	1		0.016 ppb	65.20	2.00	
66 Zn	72	1		0.287 ppb	11.22	2.00	
75 As	72	1		0.000 ppb	600.84	2.00	
78 Se	72	1		-0.429 ppb	19.76	2.00	
95 Mo	72	1		-0.082 ppb	4.37	2.00	
107 Ag	115	1		0.002 ppb	2.08	2.00	
111 Cd	115	1		0.002 ppb	233.83	2.00	
118 Sn	115	1		0.041 ppb	43.39	2.00	
121 Sb	115	1		0.037 ppb	22.69	2.00	
137 Ba	115	1		0.008 ppb	21.06	2.00	
205 Tl	165	1		0.018 ppb	19.84	2.00	
208 Pb	165	1		0.070 ppb	8.60	2.00	
232 Th	165	1		0.117 ppb	17.60	2.00	
238 U	165	1		0.002 ppb	24.74	2.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	312470	0.98	359710	86.9	30 - 120		
45 Sc	1	890718	0.47	999296	89.1	30 - 120		
72 Ge	1	534914	0.67	590607	90.6	30 - 120		
115 In	1	1609641	0.81	1756110	91.7	30 - 120		
165 Ho	1	3377369	1.08	3599124	93.8	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\174_LCS.D\174_LCS.D#
 Date Acquired: Jul 8 2009 02:25 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF30GCF
 Misc Info: LCS
 Vial Number: 3408
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: LCS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS	Ref	Tune	Conc. ppb	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6	1		43.71	2.91	40	109.3	80 - 120	
51 V	72	1		40.21	0.96	40	100.5	80 - 120	
52 Cr	72	1		40.76	0.52	40	101.9	80 - 120	
55 Mn	72	1		40.91	0.49	40	102.3	80 - 120	
59 Co	72	1		40.46	0.50	40	101.2	80 - 120	
60 Ni	72	1		40.74	0.86	40	101.9	80 - 120	
63 Cu	72	1		41.20	1.05	40	103.0	80 - 120	
66 Zn	72	1		43.82	0.87	40	109.6	80 - 120	
75 As	72	1		42.53	0.80	40	106.3	80 - 120	
78 Se	72	1		44.13	6.30	40	110.3	80 - 120	
95 Mo	72	1		41.94	0.76	40	104.9	80 - 120	
107 Ag	115	1		41.04	0.30	40	102.6	80 - 120	
111 Cd	115	1		41.99	0.31	40	105.0	80 - 120	
118 Sn	115	1		0.09	3.85	40	0.2	80 - 120	
121 Sb	115	1		42.29	0.73	40	105.7	80 - 120	
137 Ba	115	1		42.00	0.38	40	105.0	80 - 120	
205 Tl	165	1		42.77	1.11	40	106.9	80 - 120	
208 Pb	165	1		43.10	1.20	40	107.8	80 - 120	
232 Th	165	1		41.54	2.51	40	103.9	80 - 120	
238 U	165	1		43.86	1.68	40	109.7	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	310470	1.14	359710	86.3	30 - 120	
45 Sc	1	869016	0.47	999296	87.0	30 - 120	
72 Ge	1	515847	0.72	590607	87.3	30 - 120	
115 In	1	1617308	1.07	1756110	92.1	30 - 120	
165 Ho	1	3378777	0.93	3599124	93.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\175SMPL.D\175SMPL.D#
 Date Acquired: Jul 8 2009 02:27 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T5F 10X
 Misc Info: D9G020221
 Vial Number: 3409
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		27.07	2.71	ppb	2.42	3600	
52 Cr	72	1		35.58	3.56	ppb	1.14	3600	
55 Mn	72	1		19.49	1.95	ppb	4.84	3600	
59 Co	72	1		0.64	0.06	ppb	23.42	3600	
60 Ni	72	1		2.82	0.28	ppb	22.12	3600	
63 Cu	72	1		0.50	0.05	ppb	7.45	3600	
66 Zn	72	1		1.07	0.11	ppb	26.36	3600	
75 As	72	1		154.50	15.45	ppb	0.76	3600	
78 Se	72	1		-0.09	-0.01	ppb	4730.40	3600	
95 Mo	72	1		30.17	3.02	ppb	1.71	3600	
107 Ag	115	1		0.06	0.01	ppb	88.96	3600	
111 Cd	115	1		0.08	0.01	ppb	139.88	3600	
118 Sn	115	1		-0.12	-0.01	ppb	38.81	3600	
121 Sb	115	1		0.68	0.07	ppb	7.31	3600	
137 Ba	115	1		34.70	3.47	ppb	2.00	3600	
205 Tl	165	1		0.75	0.08	ppb	6.93	3600	
208 Pb	165	1		0.09	0.01	ppb	16.66	3600	
232 Th	165	1		14.75	1.48	ppb	16.90	1000	
238 U	165	1		53.47	5.35	ppb	1.31	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	305670	1.08	359710	85.0	30 - 120	
45 Sc	1	855518	1.05	999296	85.6	30 - 120	
72 Ge	1	502137	0.59	590607	85.0	30 - 120	
115 In	1	1525563	0.50	1756110	86.9	30 - 120	
165 Ho	1	3233358	1.02	3599124	89.8	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\176AREF.D\176AREF.D#
 Date Acquired: Jul 8 2009 02:30 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1WAF 10X
 Misc Info: D9G020227
 Vial Number: 3410
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: AllRef
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-243.20	-24.32	ppb	14.30	3600	
52 Cr	72	1		10,060.00	1006.00	ppb	1.32	3600	
55 Mn	72	1		2.09	0.21	ppb	11.67	3600	
59 Co	72	1		0.49	0.05	ppb	21.48	3600	
60 Ni	72	1		1.79	0.18	ppb	9.91	3600	
63 Cu	72	1		0.68	0.07	ppb	23.73	3600	
66 Zn	72	1		1.27	0.13	ppb	13.90	3600	
75 As	72	1		748.60	74.86	ppb	0.91	3600	
78 Se	72	1		-0.22	-0.02	ppb	1295.20	3600	
95 Mo	72	1		47.17	4.72	ppb	3.51	3600	
107 Ag	115	1		0.13	0.01	ppb	43.50	3600	
111 Cd	115	1		0.01	0.00	ppb	1569.70	3600	
118 Sn	115	1		-0.04	0.00	ppb	295.47	3600	
121 Sb	115	1		0.68	0.07	ppb	9.26	3600	
137 Ba	115	1		16.07	1.61	ppb	0.97	3600	
205 Tl	165	1		0.19	0.02	ppb	9.45	3600	
208 Pb	165	1		0.05	0.00	ppb	28.89	3600	
232 Th	165	1		4.37	0.44	ppb	11.63	1000	
238 U	165	1		34.87	3.49	ppb	1.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	292204	0.60	359710	81.2	30 - 120	
45 Sc	1	798598	0.22	999296	79.9	30 - 120	
72 Ge	1	469323	0.66	590607	79.5	30 - 120	
115 In	1	1402216	0.73	1756110	79.8	30 - 120	
165 Ho	1	3007910	0.68	3599124	83.6	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\177SDIL.D\177SDIL.D#

Date Acquired: Jul 8 2009 02:33 am

Acq. Method: NormISIS.M

Operator: TEL

Sample Name: LF1WAP50F

Misc Info: SERIAL DILUTION

Vial Number: 3411

Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M

Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C

Last Cal. Update: Jul 08 2009 12:37 am

Sample Type: SDIL

Dilution Factor: 10.00

QC Summary:**Analytes: Pass****ISTD: Pass**

Dilution Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\176AREF.D\176AREF.D#

QC elements

Element	IS	Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC	Range(%)	Flag
9 Be	6	1		0.00 ppb	0.00	0.00	#DIV/0!	90	-	110
51 V	72	1		-1.38 ppb	52.12	-4.86	28.5	90	-	110
52 Cr	72	1		206.70 ppb	0.94	201.20	102.7	90	-	110
55 Mn	72	1		0.07 ppb	21.68	0.04	158.1	90	-	110
59 Co	72	1		0.01 ppb	44.53	0.01	128.0	90	-	110
60 Ni	72	1		0.18 ppb	3.53	0.04	507.0	90	-	110
63 Cu	72	1		0.02 ppb	63.64	0.01	125.0	90	-	110
66 Zn	72	1		0.09 ppb	5.33	0.03	342.1	90	-	110
75 As	72	1		14.28 ppb	0.31	14.97	95.4	90	-	110
78 Se	72	1		-0.57 ppb	89.60	0.00	12705.7	90	-	110
95 Mo	72	1		0.89 ppb	3.87	0.94	93.9	90	-	110
107 Ag	115	1		0.00 ppb	60.93	0.00	179.7	90	-	110
111 Cd	115	1		0.00 ppb	301.38	0.00	-2239.2	90	-	110
118 Sn	115	1		0.01 ppb	88.94	0.00	-1832.6	90	-	110
121 Sb	115	1		0.01 ppb	23.30	0.01	108.0	90	-	110
137 Ba	115	1		0.31 ppb	3.06	0.32	96.8	90	-	110
205 Tl	165	1		0.01 ppb	12.17	0.00	136.5	90	-	110
208 Pb	165	1		0.00 ppb	662.23	0.00	41.1	90	-	110
232 Th	165	1		0.13 ppb	12.39	0.09	145.4	90	-	110
238 U	165	1		0.70 ppb	1.15	0.70	99.9	90	-	110

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC	Range(%)	Flag
6 Li	1	305980	0.72	359710	85.1	30	-	120
45 Sc	1	813394	0.50	999296	81.4	30	-	120
72 Ge	1	488705	0.23	590607	82.7	30	-	120
115 In	1	1498043	1.32	1756110	85.3	30	-	120
165 Ho	1	3190430	0.79	3599124	88.6	30	-	120

Tune File# 1 c:\icpcchem\1\7500\he.u

Tune File# 2 C:\ICPCHEM\1\7500\

Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures
0 :ISTD Failures0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Denver

SERIAL DILUTION

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:33

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1WAP50F

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500
 File: AG070709B # 177
 Acquired: 07/08/2009 02:33:00
 Calibrated: 07/08/2009 00:34:00

Channel 272
 Method 6020_
 ICPMS_024

Matrix: AQUEOUS
 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9		0	0			*	
7440-62-2	Vanadium	51	-8065	-69.200	-243.20			*	
7440-47-3	Chromium	52	1352420	10335	10060	2.73		*	
7439-96-5	Manganese	55	543	3.3095	2.0930	58.1		*	
7440-48-4	Cobalt	59	160	0.62250	0.48650	28.0		*	
7440-02-0	Nickel	60	453	9.0500	1.7850	407		*	
7440-50-8	Copper	63	537	0.85400	0.68310	25.0		*	
7440-66-6	Zinc	66	251	4.3555	1.2730	242		*	
7440-38-2	Arsenic	75	9804	714.00	748.60	4.62	0.21	4.6	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	123	-28.410	-0.22360		0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	2544	44.275	47.170	6.14		*	
7440-22-4	Silver	107	63	0.24240	0.13490	79.7		*	
7440-43-9	Cadmium	111	4	-0.12280	0.00548	2340		*	
7440-31-5	Tin	118	363	0.73250	-0.03997			*	
7440-36-0	Antimony	121	86	0.73550	0.68100	8.00		*	
7440-39-3	Barium	137	522	15.550	16.070	3.24		*	
7440-28-0	Thallium	205	123	0.26490	0.19410	36.5		*	
7439-92-1	Lead	208	291	0.01991	0.04846	58.9		*	
7440-61-1	Uranium	238	18272	34.840	34.870	0.0860		*	
7440-29-1	Thorium	232	3631	6.3600	4.3740	45.4		*	
7439-93-2	Lithium	6			0			*	
7440-20-2	Scandium	45			0			*	
7440-74-6	Indium	115			0			*	
7440-56-4	Germanium	72			0			*	
7440-60-0	Holmium	165			0			*	

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: LRD

Date: 7/8/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\178PDS.D\178PDS.D#
 Date Acquired: Jul 8 2009 02:36 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1WAZF
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3412
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: PDS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD (%)	Spk Amt	Rec (%)	QC Range (%)	QC Flag
9 Be	6	1		201.20	0.00 ppb	0.25	200	100.6	75 - 125	
51 V	72	1		167.50	-24.32 ppb	4.36	200	95.3	75 - 125	
52 Cr	72	1		1158.00	1006.00 ppb	0.96	200	96.0	75 - 125	
55 Mn	72	1		199.00	0.21 ppb	0.53	200	99.4	75 - 125	
59 Co	72	1		189.10	0.05 ppb	1.23	200	94.5	75 - 125	
60 Ni	72	1		181.90	0.18 ppb	0.33	200	90.9	75 - 125	
63 Cu	72	1		181.90	0.07 ppb	0.91	200	90.9	75 - 125	
66 Zn	72	1		193.70	0.13 ppb	0.42	200	96.8	75 - 125	
75 As	72	1		269.10	74.86 ppb	0.55	200	97.9	75 - 125	
78 Se	72	1		205.60	-0.02 ppb	2.08	200	102.8	75 - 125	
95 Mo	72	1		207.00	4.72 ppb	0.30	200	101.1	75 - 125	
107 Ag	115	1		43.59	0.01 ppb	0.43	50	87.2	75 - 125	
111 Cd	115	1		189.70	0.00 ppb	0.73	200	94.8	75 - 125	
118 Sn	115	1		175.70	0.00 ppb	0.85	200	87.9	75 - 125	
121 Sb	115	1		197.20	0.07 ppb	0.38	200	98.6	75 - 125	
137 Ba	115	1		198.70	1.61 ppb	0.32	200	98.6	75 - 125	
205 Tl	165	1		183.30	0.02 ppb	1.60	200	91.6	75 - 125	
208 Pb	165	1		184.40	0.00 ppb	0.94	200	92.2	75 - 125	
232 Th	165	1		0.10	0.44 ppb	16.57	200	0.1	75 - 125	
238 U	165	1		192.90	3.49 ppb	0.88	200	94.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD (%)	Ref. Counts	Rec (%)	QC Range (%)	QC Flag
6 Li	1	297444	0.90	359710	82.7	30 - 120	
45 Sc	1	818816	0.91	999296	81.9	30 - 120	
72 Ge	1	465209	1.25	590607	78.8	30 - 120	
115 In	1	1448516	1.43	1756110	82.5	30 - 120	
165 Ho	1	3126678	1.34	3599124	86.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Denver

SAMPLE SPIKE

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:37

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1WAZF

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500
 File: AG070709B # 178
 Acquired: 07/08/2009 02:36:00
 Calibrated: 07/08/2009 00:34:00

Channel 272
 Method 6020_
 ICPMS_024

Matrix: AQUEOUS
 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	71147	201.20	0	101	200	<input checked="" type="checkbox"/>	
7440-62-2	Vanadium	51	917399	167.50	-24.320	83.8	200	<input type="checkbox"/>	
7440-47-3	Chromium	52	7203880	1158.0	1006.0	76.0	200	*	<input type="checkbox"/>
7439-96-5	Manganese	55	1128500	199.00	0.20930	99.4	200	<input checked="" type="checkbox"/>	
7440-48-4	Cobalt	59	1674600	189.10	0.04865	94.5	200	<input type="checkbox"/>	
7440-02-0	Nickel	60	386226	181.90	0.17850	90.9	200	<input checked="" type="checkbox"/>	
7440-50-8	Copper	63	966930	181.90	0.06831	90.9	200	<input type="checkbox"/>	
7440-66-6	Zinc	66	187534	193.70	0.12730	96.8	200	<input type="checkbox"/>	
7440-38-2	Arsenic	75	175287	269.10	74.860	97.1	200	<input checked="" type="checkbox"/>	
7782-49-2	Selenium	78	19481	205.60	-0.02236	103	200	<input checked="" type="checkbox"/>	
7439-98-7	Molybdenum	95	507446	207.00	4.7170	101	200	<input type="checkbox"/>	
7440-22-4	Silver	107	352504	43.590	0.01349	87.2	50.0	<input checked="" type="checkbox"/>	
7440-43-9	Cadmium	111	261645	189.70	0.00055	94.8	200	<input checked="" type="checkbox"/>	
7440-31-5	Tin	118	614805	175.70	-0.00400	87.8	200	<input type="checkbox"/>	
7440-36-0	Antimony	121	766415	197.20	0.06810	98.6	200	<input checked="" type="checkbox"/>	
7440-39-3	Barium	137	308052	198.70	1.6070	98.5	200	<input checked="" type="checkbox"/>	
7440-28-0	Thallium	205	3110570	183.30	0.01941	91.6	200	<input checked="" type="checkbox"/>	
7439-92-1	Lead	208	4219680	184.40	0.00485	92.2	200	<input checked="" type="checkbox"/>	
7440-61-1	Uranium	238	4948960	192.90	3.4870	94.7	200	<input type="checkbox"/>	
7440-29-1	Thorium	232	2987	0.10060	0.43740				
7439-93-2	Lithium	6			0				
7440-20-2	Scandium	45			0				
7440-74-6	Indium	115			0				
7440-56-4	Germanium	72			0				
7440-60-0	Holmium	165			0				

Reviewed by: LRD

Date: 7/8/09

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\179_MS.D\179_MS.D#
Date Acquired: Jul 8 2009 02:38 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: LF1WASF 10X
Misc Info: MATRIX SPIKE
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Jul 08 2009 12:37 am
Sample Type: MS
Prep Dil. Factor: 10.00
Autodil Factor: Undiluted
Final Dil. Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS	Ref	Tune	Conc.	Ref	Conc	RSD(%)	Spk	Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1		3.85		0.00	ppb	10.07	40	9.6	50 - 150	
51 V	72	1		-16.16		-24.32	ppb	25.63	40	-103.1	50 - 150	
52 Cr	72	1		977.90		1006.00	ppb	0.87	40	93.5	50 - 150	
55 Mn	72	1		4.13		0.21	ppb	2.94	40	10.3	50 - 150	
59 Co	72	1		3.88		0.05	ppb	1.59	40	9.7	50 - 150	
60 Ni	72	1		4.13		0.18	ppb	2.80	40	10.3	50 - 150	
63 Cu	72	1		3.84		0.07	ppb	1.54	40	9.6	50 - 150	
66 Zn	72	1		4.09		0.13	ppb	2.91	40	10.2	50 - 150	
75 As	72	1		75.55		74.86	ppb	1.26	40	65.8	50 - 150	
78 Se	72	1		5.18		-0.02	ppb	18.02	40	13.0	50 - 150	
95 Mo	72	1		8.73		4.72	ppb	1.69	40	19.5	50 - 150	
107 Ag	115	1		3.74		0.01	ppb	0.81	40	9.3	50 - 150	
111 Cd	115	1		4.00		0.00	ppb	0.38	40	10.0	50 - 150	
118 Sn	115	1		0.38		0.00	ppb	23.74	40	1.0	50 - 150	
121 Sb	115	1		4.35		0.07	ppb	2.68	40	10.8	50 - 150	
137 Ba	115	1		5.58		1.61	ppb	4.46	40	13.4	50 - 150	
205 Tl	165	1		3.92		0.02	ppb	1.41	40	9.8	50 - 150	
208 Pb	165	1		3.89		0.00	ppb	0.55	40	9.7	50 - 150	
232 Th	165	1		4.08		0.44	ppb	2.39	40	10.1	50 - 150	
238 U	165	1		7.45		3.49	ppb	0.40	40	17.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD (%)	Ref.	Counts	Rec (%)	QC Range (%)	QC Flag
6 Li	1	304405	0.41		359710	84.6	30 - 120	
45 Sc	1	832710	0.88		999296	83.3	30 - 120	
72 Ge	1	474308	0.59		590607	80.3	30 - 120	
115 In	1	1452546	0.74		1756110	82.7	30 - 120	
165 Ho	1	3119868	0.20		3599124	86.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\180_MSD.D\180_MSD.D#
 Date Acquired: Jul 8 2009 02:41 am **QC Summary:**
 Acq. Method: NormISIS.M **Analytes:** Pass
 Operator: TEL **ISTD:** Pass
 Sample Name: LF1WADF 10X
 Misc Info: MATRIX SPIKE DUPLICATE
 Vial Number: 3502
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: MSD
 Dilution Factor: 10.00

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\179 MS.D\179 MS.D#

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1		4.03 ppb	9.92	3.85	4.49	20	
51 V	72	1		-16.74 ppb	16.41	-16.16	-3.53	20	
52 Cr	72	1		974.30 ppb	0.61	977.90	0.37	20	
55 Mn	72	1		4.17 ppb	3.28	4.13	1.04	20	
59 Co	72	1		3.94 ppb	0.45	3.88	1.76	20	
60 Ni	72	1		3.99 ppb	2.75	4.13	3.35	20	
63 Cu	72	1		3.91 ppb	2.16	3.84	1.78	20	
66 Zn	72	1		4.03 ppb	0.40	4.09	1.60	20	
75 As	72	1		75.48 ppb	0.78	75.55	0.09	20	
78 Se	72	1		5.20 ppb	4.58	5.18	0.25	20	
95 Mo	72	1		8.71 ppb	1.88	8.73	0.24	20	
107 Ag	115	1		3.69 ppb	1.68	3.73	1.19	20	
111 Cd	115	1		4.08 ppb	4.07	4.00	1.88	20	
118 Sn	115	1		0.08 ppb	50.39	0.38	131.65	20	
121 Sb	115	1		4.29 ppb	2.60	4.35	1.34	20	
137 Ba	115	1		5.59 ppb	4.46	5.58	0.13	20	
205 Tl	165	1		3.93 ppb	1.29	3.92	0.25	20	
208 Pb	165	1		3.96 ppb	0.31	3.89	1.68	20	
232 Th	165	1		4.29 ppb	2.85	4.08	5.02	20	
238 U	165	1		7.56 ppb	0.86	7.45	1.45	20	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	304960	0.65	359710	84.8	30 - 120	
45 Sc	1	824410	1.54	999296	82.5	30 - 120	
72 Ge	1	473176	0.55	590607	80.1	30 - 120	
115 In	1	1456082	1.44	1756110	82.9	30 - 120	
165 Ho	1	3134679	0.47	3599124	87.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File :C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\181_CCV.D\181_CCV.D#
 Date Acquired: Jul 8 2009 02:44 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		48.16 ppb	3.07	50	96.3	90 - 110	
51 V	72	1		48.18 ppb	0.80	50	96.4	90 - 110	
52 Cr	72	1		47.77 ppb	0.92	50	95.5	90 - 110	
55 Mn	72	1		48.53 ppb	0.91	50	97.1	90 - 110	
59 Co	72	1		47.39 ppb	0.96	50	94.8	90 - 110	
60 Ni	72	1		47.86 ppb	0.70	50	95.7	90 - 110	
63 Cu	72	1		47.47 ppb	1.18	50	94.9	90 - 110	
66 Zn	72	1		49.49 ppb	0.45	50	99.0	90 - 110	
75 As	72	1		48.57 ppb	1.54	50	97.1	90 - 110	
78 Se	72	1		48.70 ppb	5.98	50	97.4	90 - 110	
95 Mo	72	1		49.01 ppb	0.48	50	98.0	90 - 110	
107 Ag	115	1		47.17 ppb	0.50	50	94.3	90 - 110	
111 Cd	115	1		48.30 ppb	1.94	50	96.6	90 - 110	
118 Sn	115	1		48.12 ppb	1.16	50	96.2	90 - 110	
121 Sb	115	1		48.14 ppb	0.35	50	96.3	90 - 110	
137 Ba	115	1		48.90 ppb	0.71	50	97.8	90 - 110	
205 Tl	165	1		49.40 ppb	0.74	50	98.8	90 - 110	
208 Pb	165	1		49.70 ppb	0.94	50	99.4	90 - 110	
232 Th	165	1		49.92 ppb	4.88	50	99.8	90 - 110	
238 U	165	1		50.45 ppb	0.43	50	100.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	312690	0.38	359710	86.9	30 - 120	
45 Sc	1	834535	1.50	999296	83.5	30 - 120	
72 Ge	1	488872	0.27	590607	82.8	30 - 120	
115 In	1	1560860	0.36	1756110	88.9	30 - 120	
165 Ho	1	3285970	0.31	3599124	91.3	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\182_CCB.D\182_CCB.D#
 Date Acquired: Jul 8 2009 02:47 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.000 ppb	0.00	1.00	
51 V	72	1		-0.003 ppb	1027.40	1.00	
52 Cr	72	1		0.042 ppb	47.13	1.00	
55 Mn	72	1		0.010 ppb	53.11	1.00	
59 Co	72	1		0.007 ppb	55.97	1.00	
60 Ni	72	1		0.004 ppb	493.27	1.00	
63 Cu	72	1		-0.004 ppb	176.29	1.00	
66 Zn	72	1		0.041 ppb	68.39	1.00	
75 As	72	1		0.009 ppb	63.97	1.00	
78 Se	72	1		-0.761 ppb	66.46	1.00	
95 Mo	72	1		-0.023 ppb	74.18	1.00	
107 Ag	115	1		0.007 ppb	42.91	1.00	
111 Cd	115	1		0.014 ppb	29.55	1.00	
118 Sn	115	1		0.119 ppb	24.58	1.00	
121 Sb	115	1		0.064 ppb	12.71	1.00	
137 Ba	115	1		0.000 ppb	3826.60	1.00	
205 Tl	165	1		0.027 ppb	13.20	1.00	
208 Pb	165	1		0.005 ppb	42.53	1.00	
232 Th	165	1		1.282 ppb	15.40	1.00	
238 U	165	1		0.015 ppb	11.17	1.00	Fail

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	315065	0.86	359710	87.6		30 - 120	
45 Sc	1	842095	0.82	999296	84.3		30 - 120	
72 Ge	1	499567	0.38	590607	84.6		30 - 120	
115 In	1	1565358	0.48	1756110	89.1		30 - 120	
165 Ho	1	3279903	0.89	3599124	91.1		30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\183WASH.D\183WASH.D#
 Date Acquired: Jul 8 2009 02:49 am
 Operator: TEL
 Sample Name: RLCV
QC Summary:
 Sample Name: RLCV **Analytes: Pass**
 Misc Info: **ISTD: Pass**
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.997 ppb	30.40	1.30	
51 V	72	1		5.014 ppb	3.16	6.50	
52 Cr	72	1		1.992 ppb	0.95	2.60	
55 Mn	72	1		0.992 ppb	4.21	1.30	
59 Co	72	1		0.973 ppb	2.46	1.30	
60 Ni	72	1		1.951 ppb	4.01	2.60	
63 Cu	72	1		1.976 ppb	1.42	2.60	
66 Zn	72	1		10.220 ppb	1.26	13.00	
75 As	72	1		4.882 ppb	4.79	6.50	
78 Se	72	1		4.697 ppb	25.19	6.50	
95 Mo	72	1		1.978 ppb	8.06	2.60	
107 Ag	115	1		4.923 ppb	1.61	6.50	
111 Cd	115	1		0.992 ppb	5.92	1.30	
118 Sn	115	1		9.899 ppb	1.21	13.00	
121 Sb	115	1		1.882 ppb	5.37	2.60	
137 Ba	115	1		1.003 ppb	2.73	1.30	
205 Tl	165	1		1.056 ppb	1.70	1.30	
208 Pb	165	1		1.034 ppb	1.79	1.30	
232 Th	165	1		2.355 ppb	0.47	2.60	
238 U	165	1		1.066 ppb	1.29	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	314494	0.56	359710	87.4	30 - 120	
45 Sc	1	851256	0.46	999296	85.2	30 - 120	
72 Ge	1	501855	0.60	590607	85.0	30 - 120	
115 In	1	1571422	1.33	1756110	89.5	30 - 120	
165 Ho	1	3292934	0.34	3599124	91.5	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

..."During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: R. Hill

Date: 7/8/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#
 Date Acquired: Jul 8 2009 03:11 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:09 am
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	47	12.40
51	V	72	1	787	32.57
52	Cr	72	1	2124	8.83
55	Mn	72	1	710	12.00
59	Co	72	1	793	13.54
60	Ni	72	1	193	12.58
63	Cu	72	1	983	2.95
66	Zn	72	1	233	6.23
75	As	72	1	80	6.77
78	Se	72	1	123	41.18
95	Mo	72	1	393	12.48
107	Ag	115	1	520	5.05
111	Cd	115	1	120	31.74
118	Sn	115	1	470	10.83
121	Sb	115	1	266	8.80
137	Ba	115	1	160	12.69
205	Tl	165	1	1422	3.79
208	Pb	165	1	2148	3.03
232	Th	165	1	2184	2.94
238	U	165	1	2117	5.20

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)
6	Li	1	329497
45	Sc	1	923934
72	Ge	1	537691
115	In	1	1636252
165	Ho	1	3317690

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\192ICAL.D\192ICAL.D#
 Date Acquired: Jul 8 2009 03:14 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:12 am
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD (%)
9 Be	6	1	37983	0.96
51 V	72	1	590758	0.60
52 Cr	72	1	673559	0.37
55 Mn	72	1	620805	0.16
59 Co	72	1	967031	2.23
60 Ni	72	1	227670	1.37
63 Cu	72	1	571687	0.80
66 Zn	72	1	106169	0.59
75 As	72	1	72411	0.33
78 Se	72	1	10728	2.94
95 Mo	72	1	270653	0.50
107 Ag	115	1	869708	0.62
111 Cd	115	1	148986	0.81
118 Sn	115	1	379638	0.60
121 Sb	115	1	426526	0.88
137 Ba	115	1	171103	0.67
205 Tl	165	1	1790669	1.13
208 Pb	165	1	2428403	1.42
232 Th	165	1	2283140	3.94
238 U	165	1	2703171	1.85

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	320799	1.12	329497	97.4	30 - 120	
45 Sc	1	893683	1.39	923934	96.7	30 - 120	
72 Ge	1	515008	0.49	537691	95.8	30 - 120	
115 In	1	1607003	0.57	1636252	98.2	30 - 120	
165 Ho	1	3289965	1.41	3317690	99.2	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\193_CCV.D\193_CCV.D#
 Date Acquired: Jul 8 2009 03:17 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		51.37 ppb	1.18	50	102.7	90 - 110	
51 V	72	1		49.40 ppb	0.29	50	98.8	90 - 110	
52 Cr	72	1		49.31 ppb	0.30	50	98.6	90 - 110	
55 Mn	72	1		49.21 ppb	0.48	50	98.4	90 - 110	
59 Co	72	1		48.56 ppb	0.78	50	97.1	90 - 110	
60 Ni	72	1		49.78 ppb	0.43	50	99.6	90 - 110	
63 Cu	72	1		49.47 ppb	0.77	50	98.9	90 - 110	
66 Zn	72	1		50.01 ppb	1.68	50	100.0	90 - 110	
75 As	72	1		49.44 ppb	0.35	50	98.9	90 - 110	
78 Se	72	1		48.63 ppb	2.94	50	97.3	90 - 110	
95 Mo	72	1		48.81 ppb	1.21	50	97.6	90 - 110	
107 Ag	115	1		48.99 ppb	0.59	50	98.0	90 - 110	
111 Cd	115	1		49.48 ppb	1.23	50	99.0	90 - 110	
118 Sn	115	1		49.38 ppb	0.49	50	98.8	90 - 110	
121 Sb	115	1		49.15 ppb	0.49	50	98.3	90 - 110	
137 Ba	115	1		49.39 ppb	0.43	50	98.8	90 - 110	
205 Tl	165	1		49.73 ppb	0.25	50	99.5	90 - 110	
208 Pb	165	1		49.61 ppb	0.24	50	99.2	90 - 110	
232 Th	165	1		52.01 ppb	3.77	50	104.0	90 - 110	
238 U	165	1		50.63 ppb	2.22	50	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	312657	0.23	329497	94.9	30 - 120	
45 Sc	1	867791	0.16	923934	93.9	30 - 120	
72 Ge	1	507091	0.42	537691	94.3	30 - 120	
115 In	1	1598177	0.57	1636252	97.7	30 - 120	
165 Ho	1	3265322	0.69	3317690	98.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\194_CCB.D\194_CCB.D#
 Date Acquired: Jul 8 2009 03:20 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.084 ppb	18.39	1.00	
51 V	72	1		-0.120 ppb	38.41	1.00	
52 Cr	72	1		-0.087 ppb	16.03	1.00	
55 Mn	72	1		-0.075 ppb	5.53	1.00	
59 Co	72	1		-0.070 ppb	4.75	1.00	
60 Ni	72	1		-0.049 ppb	22.79	1.00	
63 Cu	72	1		-0.104 ppb	7.77	1.00	
66 Zn	72	1		-0.042 ppb	50.42	1.00	
75 As	72	1		-0.052 ppb	34.22	1.00	
78 Se	72	1		0.406 ppb	70.84	1.00	
95 Mo	72	1		-0.035 ppb	27.06	1.00	
107 Ag	115	1		-0.049 ppb	7.23	1.00	
111 Cd	115	1		-0.064 ppb	15.98	1.00	
118 Sn	115	1		0.104 ppb	9.70	1.00	
121 Sb	115	1		0.027 ppb	34.63	1.00	
137 Ba	115	1		-0.070 ppb	20.68	1.00	
205 Tl	165	1		-0.039 ppb	2.30	1.00	
208 Pb	165	1		-0.071 ppb	0.34	1.00	
232 Th	165	1		1.621 ppb	15.08	1.00	
238 U	165	1		-0.059 ppb	2.23	1.00	Fail

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	314922	1.32	329497	95.6	30 - 120		
45 Sc	1	871707	1.17	923934	94.3	30 - 120		
72 Ge	1	510835	0.37	537691	95.0	30 - 120		
115 In	1	1597977	0.22	1636252	97.7	30 - 120		
165 Ho	1	3242965	0.51	3317690	97.7	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\195WASH.D\195WASH.D#
 Date Acquired: Jul 8 2009 03:22 am
 Operator: TEL **QC Summary:**
 Sample Name: RLCV **Analytes:** Pass
 Misc Info: **ISTD:** Pass
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.890 ppb	14.75	1.30	
51 V	72	1		4.897 ppb	2.77	6.50	
52 Cr	72	1		1.911 ppb	3.39	2.60	
55 Mn	72	1		0.949 ppb	2.25	1.30	
59 Co	72	1		0.903 ppb	4.78	1.30	
60 Ni	72	1		2.026 ppb	4.41	2.60	
63 Cu	72	1		1.955 ppb	4.91	2.60	
66 Zn	72	1		10.300 ppb	0.93	13.00	
75 As	72	1		4.965 ppb	1.73	6.50	
78 Se	72	1		4.916 ppb	5.07	6.50	
95 Mo	72	1		1.920 ppb	6.90	2.60	
107 Ag	115	1		5.018 ppb	2.30	6.50	
111 Cd	115	1		0.983 ppb	5.18	1.30	
118 Sn	115	1		10.270 ppb	2.27	13.00	
121 Sb	115	1		1.861 ppb	3.73	2.60	
137 Ba	115	1		0.993 ppb	1.75	1.30	
205 Tl	165	1		0.996 ppb	0.64	1.30	
208 Pb	165	1		0.959 ppb	1.63	1.30	
232 Th	165	1		2.396 ppb	0.80	2.60	
238 U	165	1		0.989 ppb	0.61	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	315380	0.22	329497	95.7	30 - 120	
45 Sc	1	870144	1.46	923934	94.2	30 - 120	
72 Ge	1	515151	0.12	537691	95.8	30 - 120	
115 In	1	1604946	1.44	1636252	98.1	30 - 120	
165 Ho	1	3272545	0.17	3317690	98.6	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\196_BLK.D\196_BLK.D#
 Date Acquired: Jul 8 2009 03:25 am
 Operator: TEL
 Sample Name: LF3X8B
 Misc Info: BLANK 9187169 6020
 Vial Number: 3503
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: BLK
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.111 ppb	14.37	2.00	
51 V	72	1		-0.143 ppb	22.14	2.00	
52 Cr	72	1		0.088 ppb	25.46	2.00	
55 Mn	72	1		0.022 ppb	72.49	2.00	
59 Co	72	1		-0.073 ppb	1.68	2.00	
60 Ni	72	1		-0.048 ppb	47.35	2.00	
63 Cu	72	1		-0.075 ppb	17.97	2.00	
66 Zn	72	1		0.343 ppb	6.48	2.00	
75 As	72	1		-0.065 ppb	10.25	2.00	
78 Se	72	1		0.073 ppb	198.06	2.00	
95 Mo	72	1		-0.093 ppb	14.21	2.00	
107 Ag	115	1		-0.056 ppb	4.86	2.00	
111 Cd	115	1		-0.069 ppb	7.37	2.00	
118 Sn	115	1		0.028 ppb	29.66	2.00	
121 Sb	115	1		-0.022 ppb	12.73	2.00	
137 Ba	115	1		0.049 ppb	34.11	2.00	
205 Tl	165	1		-0.048 ppb	14.71	2.00	
208 Pb	165	1		-0.072 ppb	4.45	2.00	
232 Th	165	1		0.357 ppb	15.29	2.00	
238 U	165	1		-0.073 ppb	0.85	2.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	308912	0.48	329497	93.8	30 - 120		
45 Sc	1	855299	0.36	923934	92.6	30 - 120		
72 Ge	1	504085	0.32	537691	93.7	30 - 120		
115 In	1	1565996	0.39	1636252	95.7	30 - 120		
165 Ho	1	3239289	0.59	3317690	97.6	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\197_LCS.D\197_LCS.D#
 Date Acquired: Jul 8 2009 03:28 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF3X8C
 Misc Info: LCS
 Vial Number: 3504
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: LCS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass **ISTD:** Pass

Analyte Elements

Element	IS	Ref	Tune	Conc. ppb	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6	1		38.86	1.75	40	97.2	80 - 120	
51 V	72	1		39.63	0.49	40	99.1	80 - 120	
52 Cr	72	1		40.02	0.68	40	100.1	80 - 120	
55 Mn	72	1		40.62	0.35	40	101.6	80 - 120	
59 Co	72	1		39.25	1.08	40	98.1	80 - 120	
60 Ni	72	1		39.95	1.18	40	99.9	80 - 120	
63 Cu	72	1		40.14	1.29	40	100.4	80 - 120	
66 Zn	72	1		40.71	1.59	40	101.8	80 - 120	
75 As	72	1		38.49	1.93	40	96.2	80 - 120	
78 Se	72	1		40.01	5.25	40	100.0	80 - 120	
95 Mo	72	1		39.16	1.42	40	97.9	80 - 120	
107 Ag	115	1		39.55	0.32	40	98.9	80 - 120	
111 Cd	115	1		39.19	0.84	40	98.0	80 - 120	
118 Sn	115	1		0.02	139.60	40	0.1	80 - 120	
121 Sb	115	1		38.95	0.64	40	97.4	80 - 120	
137 Ba	115	1		40.06	0.36	40	100.2	80 - 120	
205 Tl	165	1		40.26	0.62	40	100.7	80 - 120	
208 Pb	165	1		40.13	0.65	40	100.3	80 - 120	
232 Th	165	1		42.28	2.59	40	105.7	80 - 120	
238 U	165	1		40.83	2.22	40	102.1	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	309475	0.68	329497	93.9	30 - 120	
45 Sc	1	847752	1.13	923934	91.8	30 - 120	
72 Ge	1	491519	0.71	537691	91.4	30 - 120	
115 In	1	1562031	0.44	1636252	95.5	30 - 120	
165 Ho	1	3240093	0.07	3317690	97.7	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\198SMPL.D\198SMPL.D#
 Date Acquired: Jul 8 2009 03:31 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LFX9W 10X
 Misc Info: D9G010276
 Vial Number: 3505
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		-1.01	-0.10	ppb	16.17	3600	
51 V	72	1		61.18	6.12	ppb	1.67	3600	
52 Cr	72	1		63.45	6.35	ppb	1.27	3600	
55 Mn	72	1		50.25	5.03	ppb	0.75	3600	
59 Co	72	1		-0.09	-0.01	ppb	147.90	3600	
60 Ni	72	1		5.70	0.57	ppb	1.70	3600	
63 Cu	72	1		0.71	0.07	ppb	15.94	3600	
66 Zn	72	1		3.77	0.38	ppb	12.56	3600	
75 As	72	1		122.60	12.26	ppb	2.27	3600	
78 Se	72	1		2.11	0.21	ppb	143.15	3600	
95 Mo	72	1		38.17	3.82	ppb	1.52	3600	
107 Ag	115	1		-0.49	-0.05	ppb	11.51	3600	
111 Cd	115	1		-0.23	-0.02	ppb	115.49	3600	
118 Sn	115	1		-0.15	-0.02	ppb	88.84	3600	
121 Sb	115	1		0.18	0.02	ppb	24.20	3600	
137 Ba	115	1		36.07	3.61	ppb	1.17	3600	
205 Tl	165	1		-0.14	-0.01	ppb	67.32	3600	
208 Pb	165	1		-0.53	-0.05	ppb	7.58	3600	
232 Th	165	1		10.00	1.00	ppb	19.72	1000	
238 U	165	1		31.50	3.15	ppb	1.87	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	298817	0.21	329497	90.7	30 - 120	
45 Sc	1	813176	1.09	923934	88.0	30 - 120	
72 Ge	1	476045	0.77	537691	88.5	30 - 120	
115 In	1	1460770	1.60	1636252	89.3	30 - 120	
165 Ho	1	3099895	1.11	3317690	93.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\199AREF.D\199AREF.D#
 Date Acquired: Jul 8 2009 03:33 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1 10X
 Misc Info: D9G020221
 Vial Number: 3506
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: AllRef
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	14.58	3600	
51 V	72	1		26.83	2.68	ppb	5.07	3600	
52 Cr	72	1		35.13	3.51	ppb	5.16	3600	
55 Mn	72	1		21.07	2.11	ppb	3.46	3600	
59 Co	72	1		-0.22	-0.02	ppb	17.03	3600	
60 Ni	72	1		2.83	0.28	ppb	3.65	3600	
63 Cu	72	1		-0.57	-0.06	ppb	4.46	3600	
66 Zn	72	1		4.00	0.40	ppb	14.70	3600	
75 As	72	1		146.20	14.62	ppb	0.84	3600	
78 Se	72	1		1.49	0.15	ppb	173.83	3600	
95 Mo	72	1		28.76	2.88	ppb	1.48	3600	
107 Ag	115	1		-0.52	-0.05	ppb	3.71	3600	
111 Cd	115	1		-0.73	-0.07	ppb	11.57	3600	
118 Sn	115	1		-0.15	-0.02	ppb	80.22	3600	
121 Sb	115	1		-0.20	-0.02	ppb	46.22	3600	
137 Ba	115	1		35.77	3.58	ppb	3.81	3600	
205 Tl	165	1		-0.26	-0.03	ppb	5.20	3600	
208 Pb	165	1		-0.34	-0.03	ppb	6.60	3600	
232 Th	165	1		2.33	0.23	ppb	11.27	1000	
238 U	165	1		51.74	5.17	ppb	0.84	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	302264	0.35	329497	91.7	30 - 120	
45 Sc	1	828840	0.29	923934	89.7	30 - 120	
72 Ge	1	473915	0.52	537691	88.1	30 - 120	
115 In	1	1472330	0.26	1636252	90.0	30 - 120	
165 Ho	1	3122477	0.43	3317690	94.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :Max. Number of Failures Allowed
 0 :ISTD Failures
 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\200SDIL.D\200SDIL.D#
 Date Acquired: Jul 8 2009 03:36 am **QC Summary:**
 Acq. Method: NormISIS.M **Analytes:** Pass
 Operator: TEL **ISTD:** Pass
 Sample Name: LF1T1P50
 Misc Info: SERIAL DILUTION
 Vial Number: 3507
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SDIL
 Dilution Factor: 10.00
 Dilution Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\199AREF.D\199AREF.D#

QC elements

Element	IS	Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1		-0.12 ppb	0.00	-0.02	542.1	90 - 110	
51 V	72	1		0.43 ppb	22.54	0.54	80.8	90 - 110	
52 Cr	72	1		0.77 ppb	2.96	0.70	110.0	90 - 110	
55 Mn	72	1		0.41 ppb	7.95	0.42	96.3	90 - 110	
59 Co	72	1		-0.06 ppb	12.54	0.00	1445.1	90 - 110	
60 Ni	72	1		0.14 ppb	10.79	0.06	239.0	90 - 110	
63 Cu	72	1		-0.09 ppb	8.69	-0.01	769.3	90 - 110	
66 Zn	72	1		0.06 ppb	12.53	0.08	69.5	90 - 110	
75 As	72	1		2.91 ppb	1.88	2.92	99.6	90 - 110	
78 Se	72	1		0.18 ppb	93.39	0.03	604.0	90 - 110	
95 Mo	72	1		0.51 ppb	14.47	0.58	88.1	90 - 110	
107 Ag	115	1		-0.06 ppb	2.15	-0.01	556.9	90 - 110	
111 Cd	115	1		-0.07 ppb	7.09	-0.01	494.4	90 - 110	
118 Sn	115	1		-0.04 ppb	26.17	0.00	1459.1	90 - 110	
121 Sb	115	1		-0.04 ppb	2.06	0.00	1060.0	90 - 110	
137 Ba	115	1		0.66 ppb	3.84	0.72	91.7	90 - 110	
205 Tl	165	1		-0.07 ppb	1.98	-0.01	1246.5	90 - 110	
208 Pb	165	1		-0.07 ppb	1.76	-0.01	1003.2	90 - 110	
232 Th	165	1		0.02 ppb	32.04	0.05	44.4	90 - 110	
238 U	165	1		1.01 ppb	1.78	1.03	97.1	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	306409	0.97	329497	93.0	30 - 120	
45 Sc	1	817720	1.55	923934	88.5	30 - 120	
72 Ge	1	487420	0.68	537691	90.7	30 - 120	
115 In	1	1501254	0.50	1636252	91.7	30 - 120	
165 Ho	1	3122338	0.78	3317690	94.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Denver

SERIAL DILUTION

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:47

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1T1P50

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500
 File: AG070709B # 200
 Acquired: 07/08/2009 03:36:00
 Calibrated: 07/08/2009 03:11:00

Channel 272
 Method 6020
 ICPMS_024

Matrix: AQUEOUS
 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9		-5.9850	-1.1040			*	
7440-62-2	Vanadium	51	3138	21.690	26.830	19.2		*	
7440-47-3	Chromium	52	6839	38.655	35.130	10.0		*	
7439-96-5	Manganese	55	3024	20.280	21.070	3.75		*	
7440-48-4	Cobalt	59	137	-3.1835	-0.22030			*	
7440-02-0	Nickel	60	467	6.7700	2.8330	139		*	
7440-50-8	Copper	63	417	-4.3940	-0.57120			*	
7440-66-6	Zinc	66	267	2.7800	3.9980	30.5		*	
7440-38-2	Arsenic	75	2067	145.65	146.20	0.376	0.21	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	130	9.0000	1.4900	504	0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	1653	25.350	28.760	11.9		*	
7440-22-4	Silver	107	10	-2.8760	-0.51640			*	
7440-43-9	Cadmium	111	10	-3.6020	-0.72860			*	
7440-31-5	Tin	118	273	-2.2280	-0.15270			*	
7440-36-0	Antimony	121	76	-2.1105	-0.19910			*	
7440-39-3	Barium	137	1195	32.805	35.770	8.29		*	
7440-28-0	Thallium	205	229	-3.2670	-0.26210			*	
7439-92-1	Lead	208	436	-3.4430	-0.34320			*	
7440-61-1	Uranium	238	27759	50.250	51.740	2.88		*	
7440-29-1	Thorium	232	2504	1.0345	2.3280	55.6		*	
7439-93-2	Lithium	6			0			*	
7440-20-2	Scandium	45			0			*	
7440-74-6	Indium	115			0			*	
7440-56-4	Germanium	72			0			*	
7440-60-0	Holmium	165			0			*	

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: LRD

Date: 7/8/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\201PDS.D\201PDS.D#
 Date Acquired: Jul 8 2009 03:39 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1Z
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3508
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: PDS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1		195.00	-0.11	ppb	1.02	200	97.6	75 - 125
51 V	72	1		206.10	2.68	ppb	0.66	200	101.7	75 - 125
52 Cr	72	1		202.40	3.51	ppb	1.34	200	99.5	75 - 125
55 Mn	72	1		201.50	2.11	ppb	1.74	200	99.7	75 - 125
59 Co	72	1		186.40	-0.02	ppb	1.81	200	93.2	75 - 125
60 Ni	72	1		180.40	0.28	ppb	0.96	200	90.1	75 - 125
63 Cu	72	1		179.90	-0.06	ppb	0.07	200	90.0	75 - 125
66 Zn	72	1		189.50	0.40	ppb	0.35	200	94.6	75 - 125
75 As	72	1		208.70	14.62	ppb	0.45	200	97.2	75 - 125
78 Se	72	1		192.40	0.15	ppb	2.03	200	96.1	75 - 125
95 Mo	72	1		201.50	2.88	ppb	0.53	200	99.3	75 - 125
107 Ag	115	1		44.66	-0.05	ppb	1.40	50	89.4	75 - 125
111 Cd	115	1		190.00	-0.07	ppb	1.02	200	95.0	75 - 125
118 Sn	115	1		174.80	-0.02	ppb	1.29	200	87.4	75 - 125
121 Sb	115	1		193.50	-0.02	ppb	1.11	200	96.8	75 - 125
137 Ba	115	1		195.30	3.58	ppb	1.09	200	95.9	75 - 125
205 Tl	165	1		183.40	-0.03	ppb	0.91	200	91.7	75 - 125
208 Pb	165	1		183.10	-0.03	ppb	0.56	200	91.6	75 - 125
232 Th	165	1		0.04	0.23	ppb	25.36	200	0.0	75 - 125
238 U	165	1		195.00	5.17	ppb	0.71	200	95.0	75 - 125

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	295099	0.92	329497	89.6	30 - 120	
45 Sc	1	798746	0.54	923934	86.5	30 - 120	
72 Ge	1	458704	0.57	537691	85.3	30 - 120	
115 In	1	1449786	0.98	1636252	88.6	30 - 120	
165 Ho	1	3084504	0.31	3317690	93.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Denver

SAMPLE SPIKE

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:52

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1T1Z

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG070709B # 201

Method 6020_

Acquired: 07/08/2009 03:39:00

ICPMS_024

Calibrated: 07/08/2009 03:11:00

Matrix: AQUEOUS

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	68089	195.00	-0.11040	97.5	200	<input checked="" type="checkbox"/>	
7440-62-2	Vanadium	51	1083840	206.10	2.6830	102	200	<input type="checkbox"/>	
7440-47-3	Chromium	52	1212510	202.40	3.5130	99.4	200	<input checked="" type="checkbox"/>	
7439-96-5	Manganese	55	1113340	201.50	2.1070	99.7	200	<input checked="" type="checkbox"/>	
7440-48-4	Cobalt	59	1605230	186.40	-0.02203	93.2	200	<input type="checkbox"/>	
7440-02-0	Nickel	60	365567	180.40	0.28330	90.1	200	<input checked="" type="checkbox"/>	
7440-50-8	Copper	63	915406	179.90	-0.05712	89.9	200	<input type="checkbox"/>	
7440-66-6	Zinc	66	179019	189.50	0.39980	94.6	200	<input type="checkbox"/>	
7440-38-2	Arsenic	75	134530	208.70	14.620	97.0	200	<input checked="" type="checkbox"/>	
7782-49-2	Selenium	78	18293	192.40	0.14900	96.1	200	<input checked="" type="checkbox"/>	
7439-98-7	Molybdenum	95	485366	201.50	2.8760	99.3	200	<input type="checkbox"/>	
7440-22-4	Silver	107	350636	44.660	-0.05164	89.3	50.0	<input checked="" type="checkbox"/>	
7440-43-9	Cadmium	111	255254	190.00	-0.07286	95.0	200	<input checked="" type="checkbox"/>	
7440-31-5	Tin	118	598539	174.80	-0.01527	87.4	200	<input type="checkbox"/>	
7440-36-0	Antimony	121	744129	193.50	-0.01991	96.8	200	<input checked="" type="checkbox"/>	
7440-39-3	Barium	137	301297	195.30	3.5770	95.9	200	<input checked="" type="checkbox"/>	
7440-28-0	Thallium	205	3077580	183.40	-0.02621	91.7	200	<input checked="" type="checkbox"/>	
7439-92-1	Lead	208	4167550	183.10	-0.03432	91.6	200	<input checked="" type="checkbox"/>	
7440-61-1	Uranium	238	4940350	195.00	5.1740	94.9	200	<input type="checkbox"/>	
7440-29-1	Thorium	232	2814	0.03664	0.23280				
7439-93-2	Lithium	6			0				
7440-20-2	Scandium	45			0				
7440-74-6	Indium	115			0				
7440-56-4	Germanium	72			0				
7440-60-0	Holmium	165			0				

Reviewed by:

LRD

Date:

7/3/09

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\202_CCV.D\202_CCV.D#
 Date Acquired: Jul 8 2009 03:42 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	47.32 ppb	4.45	50	94.6	90 - 110	
51 V	72	1	48.56 ppb	2.15	50	97.1	90 - 110	
52 Cr	72	1	48.47 ppb	1.10	50	96.9	90 - 110	
55 Mn	72	1	48.67 ppb	1.05	50	97.3	90 - 110	
59 Co	72	1	47.81 ppb	0.57	50	95.6	90 - 110	
60 Ni	72	1	48.91 ppb	2.39	50	97.8	90 - 110	
63 Cu	72	1	48.60 ppb	0.23	50	97.2	90 - 110	
66 Zn	72	1	49.34 ppb	0.33	50	98.7	90 - 110	
75 As	72	1	48.30 ppb	0.91	50	96.6	90 - 110	
78 Se	72	1	47.24 ppb	3.83	50	94.5	90 - 110	
95 Mo	72	1	48.94 ppb	0.93	50	97.9	90 - 110	
107 Ag	115	1	48.30 ppb	1.69	50	96.6	90 - 110	
111 Cd	115	1	48.40 ppb	0.91	50	96.8	90 - 110	
118 Sn	115	1	49.12 ppb	1.53	50	98.2	90 - 110	
121 Sb	115	1	48.80 ppb	0.84	50	97.6	90 - 110	
137 Ba	115	1	49.06 ppb	1.12	50	98.1	90 - 110	
205 Tl	165	1	49.87 ppb	0.87	50	99.7	90 - 110	
208 Pb	165	1	49.89 ppb	0.70	50	99.8	90 - 110	
232 Th	165	1	49.03 ppb	4.45	50	98.1	90 - 110	
238 U	165	1	50.92 ppb	0.04	50	101.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300696	0.39	329497	91.3	30 - 120	
45 Sc	1	800121	0.63	923934	86.6	30 - 120	
72 Ge	1	474172	0.25	537691	88.2	30 - 120	
115 In	1	1518112	0.41	1636252	92.8	30 - 120	
165 Ho	1	3159432	0.87	3317690	95.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\203_CCB.D\203_CCB.D#
 Date Acquired: Jul 8 2009 03:44 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.073 ppb	22.56	1.00	
51 V	72	1		-0.148 ppb	13.57	1.00	
52 Cr	72	1		-0.089 ppb	20.09	1.00	
55 Mn	72	1		-0.080 ppb	7.45	1.00	
59 Co	72	1		-0.066 ppb	7.61	1.00	
60 Ni	72	1		-0.058 ppb	13.80	1.00	
63 Cu	72	1		-0.087 ppb	11.82	1.00	
66 Zn	72	1		-0.044 ppb	19.48	1.00	
75 As	72	1		-0.050 ppb	50.18	1.00	
78 Se	72	1		0.148 ppb	196.07	1.00	
95 Mo	72	1		-0.064 ppb	34.61	1.00	
107 Ag	115	1		-0.046 ppb	7.97	1.00	
111 Cd	115	1		-0.062 ppb	4.81	1.00	
118 Sn	115	1		0.151 ppb	2.16	1.00	
121 Sb	115	1		0.041 ppb	24.96	1.00	
137 Ba	115	1		-0.069 ppb	2.93	1.00	
205 Tl	165	1		-0.047 ppb	4.47	1.00	
208 Pb	165	1		-0.069 ppb	2.47	1.00	
232 Th	165	1		1.189 ppb	15.23	1.00	
238 U	165	1		-0.059 ppb	2.72	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300372	0.94	329497	91.2	30 - 120	
45 Sc	1	824755	0.34	923934	89.3	30 - 120	
72 Ge	1	487346	0.22	537691	90.6	30 - 120	
115 In	1	1530334	0.08	1636252	93.5	30 - 120	
165 Ho	1	3250949	0.58	3317690	98.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\204WASH.D\204WASH.D#
 Date Acquired: Jul 8 2009 03:47 am
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.887 ppb	13.84	1.30	
51 V	72	1		4.966 ppb	1.32	6.50	
52 Cr	72	1		1.952 ppb	4.40	2.60	
55 Mn	72	1		0.945 ppb	4.12	1.30	
59 Co	72	1		0.923 ppb	1.79	1.30	
60 Ni	72	1		1.869 ppb	6.37	2.60	
63 Cu	72	1		1.957 ppb	3.56	2.60	
66 Zn	72	1		10.410 ppb	1.14	13.00	
75 As	72	1		4.964 ppb	3.35	6.50	
78 Se	72	1		4.239 ppb	29.58	6.50	
95 Mo	72	1		1.941 ppb	1.48	2.60	
107 Ag	115	1		5.096 ppb	0.81	6.50	
111 Cd	115	1		0.983 ppb	4.20	1.30	
118 Sn	115	1		10.320 ppb	1.14	13.00	
121 Sb	115	1		1.875 ppb	1.91	2.60	
137 Ba	115	1		0.954 ppb	4.91	1.30	
205 Tl	165	1		1.003 ppb	1.63	1.30	
208 Pb	165	1		0.988 ppb	1.52	1.30	
232 Th	165	1		2.372 ppb	1.00	2.60	
238 U	165	1		1.026 ppb	1.50	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	296961	0.40	329497	90.1	30 - 120	
45 Sc	1	804867	0.71	923934	87.1	30 - 120	
72 Ge	1	480975	0.57	537691	89.5	30 - 120	
115 In	1	1508499	0.40	1636252	92.2	30 - 120	
165 Ho	1	3156976	0.99	3317690	95.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\205_MS.D\205_MS.D#
 Date Acquired: Jul 8 2009 03:50 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1S 10X
 Misc Info: MATRIX SPIKE
 Vial Number: 3509
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: MS
 Prep Dil. Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00
 Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD (%)	Spk Amt	Rec (%)	QC Range (%)	QC Flag
9 Be	6	1		3.75	-0.11	ppb	4.17	40	9.4	50 - 150
51 V	72	1		6.95	2.68	ppb	4.03	40	16.3	50 - 150
52 Cr	72	1		7.67	3.51	ppb	1.78	40	17.6	50 - 150
55 Mn	72	1		6.18	2.11	ppb	1.38	40	14.7	50 - 150
59 Co	72	1		3.84	-0.02	ppb	1.21	40	9.6	50 - 150
60 Ni	72	1		4.04	0.28	ppb	3.33	40	10.0	50 - 150
63 Cu	72	1		3.74	-0.06	ppb	0.63	40	9.4	50 - 150
66 Zn	72	1		4.77	0.40	ppb	2.06	40	11.8	50 - 150
75 As	72	1		19.07	14.62	ppb	1.00	40	34.9	50 - 150
78 Se	72	1		4.80	0.15	ppb	15.90	40	12.0	50 - 150
95 Mo	72	1		6.83	2.88	ppb	2.62	40	15.9	50 - 150
107 Ag	115	1		3.76	-0.05	ppb	4.01	40	9.4	50 - 150
111 Cd	115	1		3.95	-0.07	ppb	0.84	40	9.9	50 - 150
118 Sn	115	1		0.04	-0.02	ppb	46.43	40	0.1	50 - 150
121 Sb	115	1		4.16	-0.02	ppb	1.15	40	10.4	50 - 150
137 Ba	115	1		7.82	3.58	ppb	1.25	40	17.9	50 - 150
205 Tl	165	1		4.00	-0.03	ppb	1.75	40	10.0	50 - 150
208 Pb	165	1		3.90	-0.03	ppb	0.41	40	9.7	50 - 150
232 Th	165	1		4.37	0.23	ppb	1.58	40	10.9	50 - 150
238 U	165	1		9.47	5.17	ppb	0.53	40	21.0	50 - 150

ISTD Elements

Element	Tune	Counts	RSD (%)	Ref. Counts	Rec (%)	QC Range (%)	QC Flag
6 Li	1	291491	1.20	329497	88.5	30 - 120	
45 Sc	1	807321	0.80	923934	87.4	30 - 120	
72 Ge	1	464643	0.54	537691	86.4	30 - 120	
115 In	1	1450544	1.06	1636252	88.7	30 - 120	
165 Ho	1	3126884	0.81	3317690	94.2	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\206_MSD.D\206_MSD.D#
 Date Acquired: Jul 8 2009 03:53 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1D 10X
 Misc Info: MATRIX SPIKE DUPLICATE
 Vial Number: 3510
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: MSD
 Dilution Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\205 MS.D\205 MS.D#

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1		3.96	ppb	5.95	3.75	5.37	20
51 V	72	1		6.72	ppb	1.77	6.95	3.38	20
52 Cr	72	1		7.43	ppb	0.96	7.67	3.13	20
55 Mn	72	1		6.04	ppb	1.66	6.18	2.23	20
59 Co	72	1		3.82	ppb	1.52	3.84	0.50	20
60 Ni	72	1		4.01	ppb	3.51	4.04	0.87	20
63 Cu	72	1		3.60	ppb	1.79	3.74	3.68	20
66 Zn	72	1		4.45	ppb	2.73	4.76	6.93	20
75 As	72	1		18.88	ppb	0.50	19.07	1.00	20
78 Se	72	1		5.03	ppb	3.39	4.80	4.64	20
95 Mo	72	1		6.94	ppb	1.78	6.83	1.58	20
107 Ag	115	1		3.78	ppb	2.01	3.76	0.61	20
111 Cd	115	1		3.99	ppb	0.62	3.95	0.91	20
118 Sn	115	1		-0.01	ppb	50.03	0.04	390.80	20
121 Sb	115	1		4.12	ppb	2.27	4.16	0.97	20
137 Ba	115	1		7.61	ppb	0.56	7.82	2.66	20
205 Tl	165	1		3.93	ppb	0.97	4.00	1.94	20
208 Pb	165	1		3.92	ppb	1.72	3.90	0.67	20
232 Th	165	1		4.29	ppb	1.48	4.37	1.85	20
238 U	165	1		9.40	ppb	1.00	9.47	0.70	20

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	295331	0.98	329497	89.6	30 - 120	
45 Sc	1	812994	0.19	923934	88.0	30 - 120	
72 Ge	1	471214	0.24	537691	87.6	30 - 120	
115 In	1	1474525	0.10	1636252	90.1	30 - 120	
165 Ho	1	3150130	0.66	3317690	94.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File :C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\207SMPL.D\207SMPL.D#
 Date Acquired: Jul 8 2009 03:56 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T6 10X
 Misc Info: D9G020221
 Vial Number: 3511
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	14.76	3600	
51 V	72	1		-10.24	-1.02	ppb	48.40	3600	
52 Cr	72	1		1,146.00	114.60	ppb	1.16	3600	
55 Mn	72	1		13.07	1.31	ppb	2.67	3600	
59 Co	72	1		-0.30	-0.03	ppb	34.55	3600	
60 Ni	72	1		2.50	0.25	ppb	18.96	3600	
63 Cu	72	1		-0.67	-0.07	ppb	36.84	3600	
66 Zn	72	1		25.23	2.52	ppb	2.67	3600	
75 As	72	1		103.70	10.37	ppb	2.32	3600	
78 Se	72	1		8.03	0.80	ppb	86.08	3600	
95 Mo	72	1		25.07	2.51	ppb	3.73	3600	
107 Ag	115	1		-0.52	-0.05	ppb	9.10	3600	
111 Cd	115	1		-0.80	-0.08	ppb	11.66	3600	
118 Sn	115	1		-0.09	-0.01	ppb	370.24	3600	
121 Sb	115	1		-0.32	-0.03	ppb	11.33	3600	
137 Ba	115	1		37.49	3.75	ppb	3.03	3600	
205 Tl	165	1		-0.06	-0.01	ppb	153.28	3600	
208 Pb	165	1		-0.69	-0.07	ppb	3.12	3600	
232 Th	165	1		1.49	0.15	ppb	14.85	1000	
238 U	165	1		36.87	3.69	ppb	2.59	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299657	0.37	329497	90.9	30 - 120	
45 Sc	1	842209	2.69	923934	91.2	30 - 120	
72 Ge	1	488819	0.90	537691	90.9	30 - 120	
115 In	1	1505724	1.38	1636252	92.0	30 - 120	
165 Ho	1	3258359	1.30	3317690	98.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\208SMPL.D\208SMPL.D#
 Date Acquired: Jul 8 2009 03:58 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1VJ 10X
 Misc Info: D9G020227
 Vial Number: 3512
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	15.22	3600	
51 V	72	1		-427.80	-42.78	ppb	7.41	3600	
52 Cr	72	1		11,230.00	1123.00	ppb	0.84	3600	
55 Mn	72	1		21.53	2.15	ppb	4.11	3600	
59 Co	72	1		-0.31	-0.03	ppb	7.40	3600	
60 Ni	72	1		3.02	0.30	ppb	6.37	3600	
63 Cu	72	1		-0.52	-0.05	ppb	22.39	3600	
66 Zn	72	1		1.37	0.14	ppb	23.30	3600	
75 As	72	1		103.60	10.36	ppb	0.84	3600	
78 Se	72	1		6.32	0.63	ppb	86.78	3600	
95 Mo	72	1		15.81	1.58	ppb	5.44	3600	
107 Ag	115	1		-0.52	-0.05	ppb	6.45	3600	
111 Cd	115	1		-0.47	-0.05	ppb	26.18	3600	
118 Sn	115	1		-0.15	-0.02	ppb	120.07	3600	
121 Sb	115	1		-0.26	-0.03	ppb	25.25	3600	
137 Ba	115	1		34.45	3.45	ppb	2.28	3600	
205 Tl	165	1		-0.50	-0.05	ppb	2.50	3600	
208 Pb	165	1		-0.68	-0.07	ppb	3.22	3600	
232 Th	165	1		-0.02	0.00	ppb	286.46	1000	
238 U	165	1		45.31	4.53	ppb	0.22	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	291984	0.51	329497	88.6	30 - 120	
45 Sc	1	815966	1.80	923934	88.3	30 - 120	
72 Ge	1	472962	0.83	537691	88.0	30 - 120	
115 In	1	1433448	0.71	1636252	87.6	30 - 120	
165 Ho	1	3081614	0.18	3317690	92.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\209SMPL.D\209SMPL.D#
 Date Acquired: Jul 8 2009 04:01 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1V5 10X
 Misc Info: D9G020227
 Vial Number: 4101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-0.62	-0.06	ppb	0.57	3600	
51 V	72	1		-216.50	-21.65	ppb	9.09	3600	
52 Cr	72	1		10,330.00	1033.00	ppb	0.77	3600	
55 Mn	72	1		691.40	69.14	ppb	1.09	3600	
59 Co	72	1		6.06	0.61	ppb	3.72	3600	
60 Ni	72	1		5.38	0.54	ppb	6.96	3600	
63 Cu	72	1		5.00	0.50	ppb	7.24	3600	
66 Zn	72	1		12.79	1.28	ppb	0.55	3600	
75 As	72	1		757.00	75.70	ppb	0.81	3600	
78 Se	72	1		7.69	0.77	ppb	139.98	3600	
95 Mo	72	1		46.91	4.69	ppb	5.34	3600	
107 Ag	115	1		0.04	0.00	ppb	353.81	3600	
111 Cd	115	1		-0.33	-0.03	ppb	93.08	3600	
118 Sn	115	1		-0.21	-0.02	ppb	58.27	3600	
121 Sb	115	1		0.07	0.01	ppb	57.53	3600	
137 Ba	115	1		42.06	4.21	ppb	2.69	3600	
205 Tl	165	1		-0.55	-0.06	ppb	4.17	3600	
208 Pb	165	1		4.01	0.40	ppb	2.47	3600	
232 Th	165	1		4.96	0.50	ppb	1.87	1000	
238 U	165	1		35.55	3.56	ppb	1.34	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291934	0.60	329497	88.6	30 - 120	
45 Sc	1	828690	2.38	923934	89.7	30 - 120	
72 Ge	1	480972	0.44	537691	89.5	30 - 120	
115 In	1	1454738	0.51	1636252	88.9	30 - 120	
165 Ho	1	3140633	0.74	3317690	94.7	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\210_CCV.D\210_CCV.D#
 Date Acquired: Jul 8 2009 04:04 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	50.82 ppb	1.57	50	101.6	90 - 110	
51 V	72		1	49.34 ppb	0.26	50	98.7	90 - 110	
52 Cr	72		1	49.37 ppb	0.73	50	98.7	90 - 110	
55 Mn	72		1	50.56 ppb	1.15	50	101.1	90 - 110	
59 Co	72		1	48.48 ppb	0.89	50	97.0	90 - 110	
60 Ni	72		1	49.80 ppb	0.71	50	99.6	90 - 110	
63 Cu	72		1	49.25 ppb	0.53	50	98.5	90 - 110	
66 Zn	72		1	50.70 ppb	0.24	50	101.4	90 - 110	
75 As	72		1	49.26 ppb	0.85	50	98.5	90 - 110	
78 Se	72		1	51.19 ppb	1.61	50	102.4	90 - 110	
95 Mo	72		1	50.57 ppb	1.21	50	101.1	90 - 110	
107 Ag	115		1	49.35 ppb	1.30	50	98.7	90 - 110	
111 Cd	115		1	50.91 ppb	0.42	50	101.8	90 - 110	
118 Sn	115		1	49.92 ppb	1.35	50	99.8	90 - 110	
121 Sb	115		1	49.57 ppb	1.16	50	99.1	90 - 110	
137 Ba	115		1	50.10 ppb	1.48	50	100.2	90 - 110	
205 Tl	165		1	51.01 ppb	1.27	50	102.0	90 - 110	
208 Pb	165		1	51.01 ppb	1.29	50	102.0	90 - 110	
232 Th	165		1	51.10 ppb	2.12	50	102.2	90 - 110	
238 U	165		1	52.44 ppb	1.67	50	104.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	290919	0.87	329497	88.3	30 - 120	
45 Sc	1	797863	1.14	923934	86.4	30 - 120	
72 Ge	1	473414	0.73	537691	88.0	30 - 120	
115 In	1	1534632	0.69	1636252	93.8	30 - 120	
165 Ho	1	3241962	0.77	3317690	97.7	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\211_CCB.D\211_CCB.D#
 Date Acquired: Jul 8 2009 04:07 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.120	ppb	0.00	1.00
51 V	72	1		-0.121	ppb	15.11	1.00
52 Cr	72	1		-0.037	ppb	24.93	1.00
55 Mn	72	1		-0.073	ppb	10.41	1.00
59 Co	72	1		-0.062	ppb	2.00	1.00
60 Ni	72	1		-0.053	ppb	35.25	1.00
63 Cu	72	1		-0.091	ppb	18.75	1.00
66 Zn	72	1		-0.021	ppb	122.48	1.00
75 As	72	1		-0.049	ppb	17.16	1.00
78 Se	72	1		0.122	ppb	169.07	1.00
95 Mo	72	1		-0.076	ppb	31.52	1.00
107 Ag	115	1		-0.046	ppb	3.98	1.00
111 Cd	115	1		-0.065	ppb	10.94	1.00
118 Sn	115	1		0.058	ppb	18.79	1.00
121 Sb	115	1		0.008	ppb	61.48	1.00
137 Ba	115	1		-0.070	ppb	10.54	1.00
205 Tl	165	1		-0.047	ppb	3.11	1.00
208 Pb	165	1		-0.070	ppb	3.70	1.00
232 Th	165	1		1.201	ppb	19.06	1.00
238 U	165	1		-0.060	ppb	1.69	1.00

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6 Li	1	292571	0.74	329497	88.8	30 - 120		
45 Sc	1	820202	1.06	923934	88.8	30 - 120		
72 Ge	1	484175	0.35	537691	90.0	30 - 120		
115 In	1	1551306	0.26	1636252	94.8	30 - 120		
165 Ho	1	3263240	0.37	3317690	98.4	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed

0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\212WASH.D\212WASH.D#
 Date Acquired: Jul 8 2009 04:09 am
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.102 ppb	18.90	1.30	
51 V	72	1		4.865 ppb	2.31	6.50	
52 Cr	72	1		1.920 ppb	1.31	2.60	
55 Mn	72	1		0.925 ppb	5.60	1.30	
59 Co	72	1		0.937 ppb	4.37	1.30	
60 Ni	72	1		2.066 ppb	9.04	2.60	
63 Cu	72	1		1.864 ppb	2.35	2.60	
66 Zn	72	1		10.360 ppb	1.59	13.00	
75 As	72	1		4.955 ppb	2.38	6.50	
78 Se	72	1		5.032 ppb	13.31	6.50	
95 Mo	72	1		1.911 ppb	2.92	2.60	
107 Ag	115	1		4.974 ppb	1.05	6.50	
111 Cd	115	1		1.018 ppb	3.35	1.30	
118 Sn	115	1		10.310 ppb	0.54	13.00	
121 Sb	115	1		1.864 ppb	1.05	2.60	
137 Ba	115	1		0.974 ppb	2.37	1.30	
205 Tl	165	1		1.015 ppb	1.27	1.30	
208 Pb	165	1		0.991 ppb	0.79	1.30	
232 Th	165	1		2.366 ppb	1.17	2.60	
238 U	165	1		1.019 ppb	1.46	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	290814	0.85	329497	88.3	30 - 120	
45 Sc	1	819634	0.45	923934	88.7	30 - 120	
72 Ge	1	487158	0.50	537691	90.6	30 - 120	
115 In	1	1561344	0.94	1636252	95.4	30 - 120	
165 Ho	1	3289382	0.12	3317690	99.1	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D961020227

Client: Northgate Environmental

Batch(es) #: 9187175, 9187169

Associated Samples: 1-3

*I certify that, to the best of my knowledge, the attached package
represents a complete and accurate copy of the original data.*

Signature/Date: K. Hill 7/8/09

Metals Raw Data RoadMap

<i>LotID</i>	<i>Metal</i>	<i>WorkOrder</i>	<i>Anal Date</i>	<i>TestDesc</i>	<i>Batch</i>	<i>File Id</i>	<i>Instr</i>
D9G020227	1	SE	LF1VJ1AC	20090708	6020TOTA	9187169	AG070709B 024
D9G020227	1	AS	LF1VJ1AA	20090708	6020TOTA	9187169	AG070709B 024
D9G020227	2	SE	LF1V51AC	20090708	6020TOTA	9187169	AG070709B 024
D9G020227	2	AS	LF1V51AA	20090708	6020TOTA	9187169	AG070709B 024
D9G020227	3 D	SE	LF1WA1A	20090708	6020DSVD	9187175	AG070709B 024
D9G020227	3 S	SE	LF1WA1AF	20090708	6020DSVD	9187175	AG070709B 024
D9G020227	3 D	AS	LF1WA1AE	20090708	6020DSVD	9187175	AG070709B 024
D9G020227	3 S	AS	LF1WA1AD	20090708	6020DSVD	9187175	AG070709B 024
D9G020227	3	SE	LF1WA1AC	20090708	6020DSVD	9187175	AG070709B 024
D9G020227	3	AS	LF1WA1AA	20090708	6020DSVD	9187175	AG070709B 024

METALS PREPARATION LOGS ICP-MS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By:
JON HARRE

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>	
			<u>Due Date:</u>		<u>SDG:</u>
D9G060000 Water	LF30G	B	Due Date: SDG:	<u>50 mL</u>	
D9G060000 Water	LF30G	C	Due Date: SDG:	<u>50 mL</u>	
D9G020221 Water	LF1T5		Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	
D9G020227 Water	LF1WA	Dissolved	Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	
D9G020227 Water	LF1WA	S	Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	
D9G020227 Water	LF1WA	D	Due Date: 07/14/09 SDG: 8304609	<u>50 mL</u>	

Comments: _____

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

ICPMS ELEMENTS WITHIN THE BATCH:

AS SE

*Wt checked
7/7/09*

METALS PREP SHEET
SOP: DEN-IP-0014

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

DISSOLVED WATER DIGESTION FOR ICPMS (Prep code MD)

BATCH # 9187175
PREP DATE: 7/7/2009

ALLIQUOTTED BY: JRW
DIGESTED BY: JKH

CONSUMABLES USED

Digestion Cups: Manufacturer: Environmental Express **Lot #:** A901LS267

Were samples filtered in the lab?

Yes No

If "yes", then the method blank and the LCS were filtered prior to digestion.

Analyst(s) Initials: JKH

STANDARDS USED

Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-2636-09	7/1/10	100uL	15
2008Cal-2	STD-2635-09	7/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	2

TEMPERATURE CYCLES

Thermometer ID: 4082 Block & Cup #: 4,8

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃ /HCl	6:00	93	11:00	94

Samples and QC revolumed to: 50 mL Analyst's Initials KS

COMMENTS:

I certify that all information above is correct and complete.

Signature:

Date:

7/7/09

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By:
JON HARRE

<u>Lot</u>	<u>Work Order</u>		Prep Date:	07/07/09	<u>Initial Weight/Volume</u>
			Due Date:	07/13/09	
D9G060000 Water	LF3X8	B	SDG:		<u>50 mL</u>
D9G060000 Water	LF3X8	C	SDG:		<u>50 mL</u>
D9G010276 Water	LFX9W		SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1		SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1	S	SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T1	D	SDG: 8304609		<u>50 mL</u>
D9G020221 Water	LF1T6		SDG: 8304609		<u>50 mL</u>
D9G020227 Water	LF1VJ		SDG: 8304609		<u>50 mL</u>
D9G020227 Water	LF1V5	Total	SDG: 8304609		<u>50 mL</u>

Comments: _____

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

ICPMS ELEMENTS WITHIN THE BATCH:

AS SE

*Not checked
7/7/09*

METALS PREP SHEET

SOP: DEN-IP-0014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

TOTAL WATER DIGESTION FOR ICPMS (Prep code MS)

BATCH # 9187169
PREP DATE: 7/7/2009

ALLIQUOTTED BY: JRW
DIGESTED BY: JKH

CONSUMABLES USED

Digestion Cups: Manufacturer: Environmental Express **Lot #:** A901LS267

One or more samples were filtered prior to analysis at the instrument. Yes No

If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.

Analyst(s) Initials: _____

STANDARDS USED

Standard ID	Verification #	Exp. Date	Spike Amount	Pipette ID
2008Cal-1	STD-2636-09	7/1/10	100uL	15
2008Cal-2	STD-2635-09	7/1/10	100uL	15

REAGENTS USED

Reagent	Manufacturer	Lot #	Volume Used (mL)
HNO ₃	JT Baker	H12022	3

TEMPERATURE CYCLES

Thermometer ID: 25894 Block & Cup #: 2,9

Cycle	Start Time	Temperature (°C)	End Time	Temperature (°C)
HNO ₃	6:00	91	10:20	92
HNO ₃	10:30	92	11:00	91
HNO ₃				

Samples and QC revolumed to: 50 mL Analyst's Initials JKH

COMMENTS:

I certify that all information above is correct and complete.

Signature:

Date: 7/7/09

**METALS
SAMPLE DATA
ICP-MS**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ICP-MS Standard and Spike True Values

Element	Cal. Std. 100 ppb	Initial Calibration Standard	Continuing Calibration Standard	Interference Check Sample A	Interference Check Sample AB	Laboratory Control Sample and Duplicate	Matrix Spike Sample and Duplicate	Post Digestion Spike
Aluminum	100	40	50	100,000 Aluminum	--	40	40	200
Antimony	100	40	50	100,000 Calcium	100	40	40	200
Arsenic	100	40	50	100,000 Iron	100	40	40	200
Barium	100	40	50	100,000 Magnesium	100	40	40	200
Beryllium	100	40	50	100,000 Sodium	100	40	40	200
Cadmium	100	40	50	100,000 Phosphorus	100	40	40	200
Chromium	100	40	50	100,000 Potassium	100	40	40	200
Cobalt	100	40	50	100,000 Sulfur	100	40	40	200
Copper	100	40	50	200,000 Carbon	100	40	40	200
Lead	100	40	50	1,000,000 Chloride	100	40	40	200
Manganese	100	40	50	2000 Molybdenum	--	40	40	200
Molybdenum	100	40	50	2000 Titanium	100	40	40	200
Nickel	100	40	50		100	40	40	200
Selenium	100	40	50		100	40	40	200
Silver	100	40	50		100	40	40	50
Thallium	100	40	50		100	40	40	200
Tin	100	40	50		100	40	40	200
Uranium	100	40	50		100	40	40	200
Vanadium	100	40	50		100	40	40	200
Zinc	100	40	50		100	40	40	200

All units are
ug/L.

Due to the presence of trace contaminants in the ICSA solution, the % recovery for the ICSAB solution is calculated by subtracting the levels in the ICSA from the ICSAB.

Quality Control Standards

ICV = Initial Calibration Verification (Second Source)
 ICB = Initial Calibration Blank
 CCV = Continuing Calibration Verification
 CCB = Continuing Calibration Blank

TestAmerica Denver

Standards Preparation Logbook Record

Jul-07-2009

Logbook: \\Densvr06\StdsLog\metals.std

STD4841-08, 1000 Zn (Inorganic Ventures)

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-ZN02045 Vendor's Expiration Date: 10-01-2009
Solvent: 2% HNO₃
Date Prep./Opened: 09-04-2008 Date Received: 09-04-2008
Date Expires(1): 10-01-2009 (None)
Date Expires(2): 10-01-2009 (None)
(METALS)-Inventory ID: 779

Component	Initial Conc (mg/L)	Final Conc (mg/L)
1000 Zn	1,000.0	1,000.0

STD6653-08, 1000 Se

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SE02003 Vendor's Expiration Date: 12-01-2009
Solvent: 2% HNO₃
Date Prep./Opened: 11-25-2008 Date Received: 11-25-2008
Date Expires(1): 12-01-2009 (None)
Date Expires(2): 12-01-2009 (None)
(METALS)-Inventory ID: 803

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1,000.0	1,000.0

STD1198-09, 1000 mg/L Sn

Analyst: trudelll

Vendor: Inorganic Ventures Lot No.: B2-SN02016 Vendor's Expiration Date: 03-01-2010
Solvent: 1% HNO₃
Date Prep./Opened: 03-02-2009 Date Received: 03-02-2009
Date Expires(1): 03-01-2010 (None)
Date Expires(2): 03-01-2010 (None)
(METALS)-Inventory ID: 833

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	1,000.0

STD1853-09, 1 mg/l Se

Analyst: DIAZL

Solvent: 5% HN03 Lot No.: H02026
Date Prep./Opened: 04-01-2009
Date Expires(1): 12-01-2009 (1 Year)
pipette: Met 21
Volume (ml): 100.00

Parent Std No.: STD3609-09, ICP-MS 10 ppm Zn Aliquot Amount (ml): 1.0000
Parent Date Expires(1): 10-01-2009 Parent Date Expires(2): 10-01-2009
Component Initial Conc (mg/L) Final Conc (mg/L)
1000 Zn 10,000 1,0000

Parent Std No.: STD0664-09, ICPMS Interferent Check Standard	Aliquot Amount (ml): 5.0000	
Parent Date Expires(1): 02-01-2010	Parent Date Expires(2): 02-01-2010	
Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Al	1,000.0	100,000
C	2,000.0	200,000
Ca	1,000.0	100,000
Cl	10,000	1,000,000
Fe	1,000.0	100,000
K	1,000.0	100,000
Mg	1,000.0	100,000
Mo	20,000	2,000,00
Na	1,000.0	100,000
P	1,000.0	100,000
S	1,000.0	100,000
Ti	20,000	2,000,00

STD4008-09, ICP-MS (024) INT STD BRC-HIGH

Analyst: LILLT

Solvent: 5% HNO₃ Lot No.: H12022

Volume (ml): 250.00

Date Prep./Opened: 07-02-2009

Date Expires(1): 11-10-2009 (1 Year)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 20

Parent Std No.: STD1469-09, Germanium Stock

Aliquot Amount (ml): 1.2000

Parent Date Expires(1): 03-16-2010 Parent Date Expires(2): 04-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ge	1,000.0	4,800.0

Parent Std No.: STD1972-09, Lithium 6 Stock

Aliquot Amount (ml): 1.5000

Parent Date Expires(1): 04-07-2010 Parent Date Expires(2): 05-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Lithium6	1,000.0	6,000.0

Parent Std No.: STD1973-09, Indium Stock

Aliquot Amount (ml): 0.4000

Parent Date Expires(1): 04-07-2010 Parent Date Expires(2): 05-01-2010

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
In	1,000.0	1,600.0

Parent Std No.: STD6317-08, Scandium Stock

Aliquot Amount (ml): 0.4000

Parent Date Expires(1): 11-10-2009 Parent Date Expires(2): 12-01-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Sc	1,000.0	1,600.0

Parent Std No.: STD6318-08, Holmium Stock

Aliquot Amount (ml): 0.4000

Parent Date Expires(1): 11-10-2009 Parent Date Expires(2): 12-01-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Ho	1,000.0	1,600.0

STD4039-09, ICP-MS BLANK

Analyst: DIAZL

Solvent: Water

Volume (ml): 1,000.0

Date Prep./Opened: 07-07-2009

Date Expires(1): 08-07-2009 (1 Month)

Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD4040-09, NITRIC ACID

Aliquot Amount (ml): 50.000

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
HNO ₃	100.00	5.0000

STD4041-09, ICP-MS 10 ppm Sn

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
Date Prep./Opened: 07-07-2009
Date Expires(1): 07-08-2009 (1 Day)
Date Expires(2): 03-01-2010 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)
pipettes: Met 21 and Met 8

Volume (ml): 10.000

Parent Std No.: STD1198-09, 1000 mg/L Sn Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 03-01-2010 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1,000.0	10.000

STD4042-09, ICP-MS 100 ppb cal

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
Date Prep./Opened: 07-07-2009
Date Expires(1): 07-08-2009 (1 Day)
Date Expires(2): 07-08-2009 (1 Day)
Date Verified: 12-31--4714 by - (Verification ID: 0)
pipettes: Met 20

Volume (ml): 50.000

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	100.00
Al	20.000	100.00
As	20.000	100.00
Ba	20.000	100.00
Be	20.000	100.00
Cd	20.000	100.00
Co	20.000	100.00
Cr	20.000	100.00
Cu	20.000	100.00
Mn	20.000	100.00
Ni	20.000	100.00
Pb	20.000	100.00
Se	20.000	100.00
Th	20.000	100.00
Tl	20.000	100.00
U	20.000	100.00
V	20.000	100.00
Zn	20.000	100.00

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.2500

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	100.00

Fe	1,000.0	2,500.0
Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn	Aliquot Amount (ml): 0.5000	
Parent Date Expires(1): 07-08-2009	Parent Date Expires(2): 03-01-2010	
Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10,000	50,000

Parent Std No.: STD3611-09, ICP-MS 1ppm Sn/Zn Aliquot Amount (ml): 0.0900

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	1.0000	0.0090
1000 Zn	1.0000	0.0090

Parent Std No.: STD4042-09, ICP-MS 100 ppb cal Aliquot Amount (ml): 0.1000

Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 07-08-2009

Component	Initial Conc (ug/L)	Final Conc (mg/L)
Ag	100.00	0.0010
Al	100.00	0.0010
As	100.00	0.0010
Ba	100.00	0.0010
Be	100.00	0.0010
Cd	100.00	0.0010
Co	100.00	0.0010
Cr	100.00	0.0010
Cu	100.00	0.0010
Mn	100.00	0.0010
Ni	100.00	0.0010
Pb	100.00	0.0010
Se	100.00	0.0010
Th	100.00	0.0010
Tl	100.00	0.0010
U	100.00	0.0010
V	100.00	0.0010
Zn	100.00	0.0010
Mo	100.00	0.0010
Sb	100.00	0.0010
Fe	5,000.0	0.0500
Sn	100.00	0.0010

STD4045-09, ICP-MS AFCEE RL STD

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (2 Days)
 pipettes: Met 20 and Met 8

Volume (ml): 10.000

Parent Std No.: STD4044-09, ICP-MS RL STD

Aliquot Amount (ml): 2.0000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Sn	0.0090	0.0018
1000 Zn	0.0090	0.0018
Ag	0.0010	0.0002
Al	0.0010	0.0002
As	0.0010	0.0002
Ba	0.0010	0.0002
Be	0.0010	0.0002
Cd	0.0010	0.0002
Co	0.0010	0.0002
Cr	0.0010	0.0002
Cu	0.0010	0.0002
Mn	0.0010	0.0002
Ni	0.0010	0.0002
Pb	0.0010	0.0002
Se	0.0010	0.0002
Th	0.0010	0.0002
Tl	0.0010	0.0002
U	0.0010	0.0002
V	0.0010	0.0002
Zn	0.0010	0.0002
Mo	0.0010	0.0002
Sb	0.0010	0.0002
Fe	0.0500	0.0100
Sn	0.0010	0.0002

STD4046-09, ICP-MS ICSAB

Analyst: DIAZL

Solvent: 5% HNO₃ Lot No.: H12022
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 21, Met 20, and Met 8

Volume (ml): 10.000

Parent Std No.: STD1978-09, ICPMS Interferent Check Standard

Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 04-01-2010 Parent Date Expires(2): 04-01-2010

Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Al	1,000.0	100,000
C	2,000.0	200,000
Ca	1,000.0	100,000

Cl	10,000	1,000,000
Fe	1,000.0	100,000
K	1,000.0	100,000
Mg	1,000.0	100,000
Mo	20,000	2,000.0
Na	1,000.0	100,000
P	1,000.0	100,000
S	1,000.0	100,000
Ti	20,000	2,000.0

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	100.00
Al	20.000	100.00
As	20.000	100.00
Ba	20.000	100.00
Be	20.000	100.00
Cd	20.000	100.00
Co	20.000	100.00
Cr	20.000	100.00
Cu	20.000	100.00
Mn	20.000	100.00
Ni	20.000	100.00
Pb	20.000	100.00
Se	20.000	100.00
Th	20.000	100.00
Tl	20.000	100.00
U	20.000	100.00
V	20.000	100.00
Zn	20.000	100.00

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.0500
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	100.00
Sb	20.000	100.00

Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 0.1000
 Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10.000	100.00

STD4047-09, ICPMS LR STD 1000 ppb Analyst: DIAZL

Solvent: 5% HNO3 Lot No.: H12022 Volume (ml): 10.000
 Date Prep./Opened: 07-07-2009
 Date Expires(1): 07-08-2009 (1 Day)
 Date Verified: 12-31--4714 by - (Verification ID: 0)
 pipettes: Met 20 and Met 8

Parent Std No.: STD2635-09, ICPMS 2008CAL-2 Inorganic Ventures Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	20.000	1,000.0
Al	20.000	1,000.0
As	20.000	1,000.0
Ba	20.000	1,000.0
Be	20.000	1,000.0
Cd	20.000	1,000.0
Co	20.000	1,000.0
Cr	20.000	1,000.0
Cu	20.000	1,000.0
Mn	20.000	1,000.0
Ni	20.000	1,000.0
Pb	20.000	1,000.0
Se	20.000	1,000.0
Th	20.000	1,000.0
Tl	20.000	1,000.0
U	20.000	1,000.0
V	20.000	1,000.0
Zn	20.000	1,000.0

Parent Std No.: STD2636-09, ICPMS 2008CAL-1 Inorganic Ventures Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	20.000	1,000.0
Sb	20.000	1,000.0

Parent Std No.: STD4041-09, ICP-MS 10 ppm Sn Aliquot Amount (ml): 1.0000
 Parent Date Expires(1): 07-08-2009 Parent Date Expires(2): 03-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Sn	10.000	1,000.0

STD4048-09, ICPMS ICV

Analyst: DIAZL

Volume (ml): 10.000

Solvent: 5% HNO3 Lot No.: H12022

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009 (1 Day)

Date Expires(2): 02-27-2010 (None)

Date Verified: 12-31--4714 by - (Verification ID: 0)

pipettes: Met 21 and Met 8

Parent Std No.: STD1213-09, ICPMS ICV SOLUTION A (High Purity) Aliquot Amount (ml): 0.0400

Parent Date Expires(1): 02-27-2010 Parent Date Expires(2): 02-27-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Al	10.000	40.000
As	10.000	40.000
Ba	10.000	40.000
Be	10.000	40.000
Cd	10.000	40.000

Co	10.000	40.000
Cr	10.000	40.000
Cu	10.000	40.000
Fe	250.00	1,000.0
Li	10.000	40.000
Mn	10.000	40.000
Ni	10.000	40.000
Pb	10.000	40.000
Se	10.000	40.000
Th	10.000	40.000
Tl	10.000	40.000
U	10.000	40.000
V	10.000	40.000
Zn	10.000	40.000

Parent Std No : STD1214-09, ICPMS ICV SOLUTION B (High Purity) Aliquot Amount (ml): 0.0400

Parent Date Expires(1): 02-27-2010 Parent Date Expires(2): 02-27-2010

Component	Initial Conc (ug/ml)	Final Conc (ug/L)
Ag	10.000	40.000
Mo	10.000	40.000
Sb	10.000	40.000
Sn	10.000	40.000
Zr	10.000	40.000

STD4049-09, ALTSe

Analyst: DIAZL

Solvent: 5% HNO₃

Lot No.: H12022

Volume (ml): 50.000

Date Prep /Opened: 07-07-2009

Date Expires(1): 07-08-2009 (1 Day)

pinettes: Met 21 and Met 8

pipettes: Met 21 and Met 3

Parent Std No.: STD1853-09, 1 mg/l Se

Aliquot Amount (ml): 0.1000

Component	Initial Conc (mg/L)	Final Conc (mg/L)
Se	1.0000	0.0020

STD4050-09, LLCCV/RLICV

Analyst: DIAZL

Solvent: 5% HNO₃

Lot No.: H12022

Volume (ml): 100.00

Date Prep./Opened: 07-07-2009

Date Expires(1): 07-08-2009

Date Expires(1): 07-30-2009 (1 Day)

pipettes: Met 20

pipettes. Met 20

Parent Std No.: STD3106-09, ICP-MS LLCCV 1

Aliquot Amount (ml): 1.0000

Parent Date Expires(1): 05-01-2010 Parent Date Expires(2): 05-01-2010

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Ag	0.5000	5.0000
Al	3.0000	30.000
As	0.5000	5.0000

Ba	0.1000	1.0000
Be	0.1000	1.0000
Ca	5.0000	50.000
Cd	0.1000	1.0000
Co	0.1000	1.0000
Cr	0.2000	2.0000
Cu	0.2000	2.0000
Fe	5.0000	50.000
K	10.000	100.00
Mg	5.0000	50.000
Mn	0.1000	1.0000
Na	5.0000	50.000
Ni	0.2000	2.0000
Pb	0.1000	1.0000
Se	0.5000	5.0000
Th	0.2000	2.0000
Tl	0.1000	1.0000
U	0.1000	1.0000
V	0.5000	5.0000
Zn	1.0000	10.000

Parent Std No.: STD3107-09, ICP-MS LLCCV 2

Aliquot Amount (ml): 1.0000

Component	Initial Conc (mg/L)	Final Conc (ug/L)
Mo	0.2000	2.0000
Sb	0.2000	2.0000
Sn	1.0000	10.000

Reviewed By:

LRD

07/07/2009

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
2	Cal Blank			1.0	07/07/09 18:29		<input type="checkbox"/>
3	Cal Blank			1.0	07/07/09 18:32		<input type="checkbox"/>
4	100 ppb			1.0	07/07/09 18:35		<input type="checkbox"/>
5	ICV			1.0	07/07/09 18:38		<input type="checkbox"/>
6	RLIV			1.0	07/07/09 18:40		<input type="checkbox"/>
7	ICB			1.0	07/07/09 18:43		<input type="checkbox"/>
8	RL STD			1.0	07/07/09 18:46		<input type="checkbox"/>
9	AFCEE RL			1.0	07/07/09 18:49		<input type="checkbox"/>
10	ALTSe			1.0	07/07/09 18:51		<input type="checkbox"/>
11	ICSA			1.0	07/07/09 18:54		<input type="checkbox"/>
12	ICSAB			1.0	07/07/09 18:57		<input type="checkbox"/>
13	RINSE			1.0	07/07/09 18:59		<input type="checkbox"/>
14	LR			1.0	07/07/09 19:02		<input type="checkbox"/>
15	RINSE			1.0	07/07/09 19:05		<input type="checkbox"/>
16	CCV			1.0	07/07/09 19:08		<input type="checkbox"/>
17	CCB			1.0	07/07/09 19:10		<input type="checkbox"/>
18	RLCV			1.0	07/07/09 19:13		<input type="checkbox"/>
19	IDL 1			1.0	07/07/09 19:16		<input type="checkbox"/>
20	IDL 2			1.0	07/07/09 19:19		<input type="checkbox"/>
21	IDL 3			1.0	07/07/09 19:21		<input type="checkbox"/>
22	IDL 4			1.0	07/07/09 19:24		<input type="checkbox"/>
23	IDL 5			1.0	07/07/09 19:27		<input type="checkbox"/>
24	IDL 6			1.0	07/07/09 19:30		<input type="checkbox"/>
25	IDL 7			1.0	07/07/09 19:32		<input type="checkbox"/>
26	CCV			1.0	07/07/09 19:35		<input type="checkbox"/>
27	CCB			1.0	07/07/09 19:38		<input type="checkbox"/>
28	RLCV			1.0	07/07/09 19:41		<input type="checkbox"/>
29	LR STD 1			1.0	07/07/09 19:43		<input type="checkbox"/>
30	RINSE			1.0	07/07/09 19:46		<input type="checkbox"/>
31	LR STD 2			1.0	07/07/09 19:49		<input type="checkbox"/>
32	RINSE			1.0	07/07/09 19:52		<input type="checkbox"/>
33	LR STD 3			1.0	07/07/09 19:54		<input type="checkbox"/>
34	RINSE			1.0	07/07/09 19:57		<input type="checkbox"/>
35	LR STD 4			1.0	07/07/09 20:00		<input type="checkbox"/>
36	RINSE			1.0	07/07/09 20:02		<input type="checkbox"/>
37	LR STD Mn			1.0	07/07/09 20:05		<input type="checkbox"/>
38	RINSE			1.0	07/07/09 20:08		<input type="checkbox"/>
39	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 20:10		<input type="checkbox"/>
40	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 20:13		<input type="checkbox"/>
41	LFNQ3	D9F260154-1	9182405	46	1.0 07/07/09 20:16		<input type="checkbox"/>
42	LENTW	D9F260154-2	9182405	46	1.0 07/07/09 20:19	<i>Not 7/8/09 Did not use.</i>	<input type="checkbox"/>
43	CCV				1.0 07/07/09 20:21		<input type="checkbox"/>
44	CCB				1.0 07/07/09 20:24		<input type="checkbox"/>
45	RLCV				1.0 07/07/09 20:27		<input type="checkbox"/>
46	LR STD 1				1.0 07/07/09 20:30		<input type="checkbox"/>
47	RINSE				1.0 07/07/09 20:32		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
48	LR STD 2			1.0	07/07/09 20:35		<input type="checkbox"/>
49	RINSE			1.0	07/07/09 20:38		<input type="checkbox"/>
50	LR STD 3			1.0	07/07/09 20:41		<input type="checkbox"/>
51	RINSE			1.0	07/07/09 20:43		<input type="checkbox"/>
52	LR STD 4			1.0	07/07/09 20:46		<input type="checkbox"/>
53	RINSE			1.0	07/07/09 20:48		<input type="checkbox"/>
54	LR STD Mn			1.0	07/07/09 20:51		<input type="checkbox"/>
55	RINSE			1.0	07/07/09 20:54		<input type="checkbox"/>
56	CCV			1.0	07/07/09 20:57		<input type="checkbox"/>
57	CCB			1.0	07/07/09 20:59		<input type="checkbox"/>
58	RLCV			1.0	07/07/09 21:02		<input type="checkbox"/>
59	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 21:05		<input type="checkbox"/>
60	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 21:08	<i>✓ 7/8/09 Did not use.</i>	<input type="checkbox"/>
61	LF0EDB	D9G010000	9182405	46	1.0 07/07/09 21:13		<input type="checkbox"/>
62	LF0EDC	D9G010000	9182405	46	1.0 07/07/09 21:15		<input type="checkbox"/>
63	LFNQ3	D9F260154-1	9182405	46	1.0 07/07/09 21:18		<input type="checkbox"/>
64	LFNTW	D9F260154-2	9182405	46	1.0 07/07/09 21:21		<input type="checkbox"/>
65	LFNT5	D9F260154-3	9182405	46	1.0 07/07/09 21:24		<input type="checkbox"/>
66	LFNT7	D9F260154-4	9182405	46	1.0 07/07/09 21:26		<input type="checkbox"/>
67	LFNVD	D9F260154-5	9182405	46	1.0 07/07/09 21:29		<input type="checkbox"/>
68	LFNVM	D9F260154-6	9182405	46	1.0 07/07/09 21:32		<input type="checkbox"/>
69	CCV				1.0 07/07/09 21:35		<input type="checkbox"/>
70	CCB				1.0 07/07/09 21:37		<input type="checkbox"/>
71	RLCV				1.0 07/07/09 21:40		<input type="checkbox"/>
72	LFNVT	D9F260154-7	9182405	46	1.0 07/07/09 21:43		<input type="checkbox"/>
73	LFNVW	D9F260154-8	9182405	46	1.0 07/07/09 21:46		<input type="checkbox"/>
74	LFV0G	D9F300202-1	9182405	46	1.0 07/07/09 21:48		<input type="checkbox"/>
75	LFV05	D9F300202-3	9182405	46	1.0 07/07/09 21:51		<input type="checkbox"/>
76	LFV1G	D9F300202-4	9182405	46	1.0 07/07/09 21:54		<input type="checkbox"/>
77	LFV1GP5	D9F300202	9182405		5.0 07/07/09 21:57		<input type="checkbox"/>
78	LFV1GZ	D9F300202-4	9182405		1.0 07/07/09 21:59		<input type="checkbox"/>
79	LFV1GS	D9F300202-4	9182405	46	1.0 07/07/09 22:02		<input type="checkbox"/>
80	LFV1GD	D9F300202-4	9182405	46	1.0 07/07/09 22:05		<input type="checkbox"/>
81	LFV13	D9F300202-5	9182405	46	1.0 07/07/09 22:07		<input type="checkbox"/>
82	CCV				1.0 07/07/09 22:10		<input type="checkbox"/>
83	CCB				1.0 07/07/09 22:13		<input type="checkbox"/>
84	RLCV				1.0 07/07/09 22:16		<input type="checkbox"/>
85	LF1RVB	D9G020000	9183315	MS	1.0 07/07/09 22:19		<input type="checkbox"/>
86	LF1RVC	D9G020000	9183315	MS	1.0 07/07/09 22:21		<input type="checkbox"/>
87	LFXPK 2X	D9G010186-16	9183315	MS	2.0 07/07/09 22:24		<input type="checkbox"/>
88	LFXPKP10	D9G010186	9183315		10.0 07/07/09 22:27		<input type="checkbox"/>
89	LFXPKZ	D9G010186-16	9183315		1.0 07/07/09 22:30		<input type="checkbox"/>
90	LFXPKS 2X	D9G010186-16	9183315	MS	2.0 07/07/09 22:32		<input type="checkbox"/>
91	CCV				1.0 07/07/09 22:35		<input type="checkbox"/>
92	CCB				1.0 07/07/09 22:38		<input type="checkbox"/>
93	RLCV				1.0 07/07/09 22:41		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
94	LFXPKD 2X	D9G010186-16	9183315	MS	2.0	07/07/09 22:43	
95	LFXPL 2X	D9G010186-17	9183315	MS	2.0	07/07/09 22:46	
96	LFXPM 2X	D9G010186-18	9183315	MS	2.0	07/07/09 22:49	
97	LFXPN 2X	D9G010186-19	9183315	MS	2.0	07/07/09 22:52	
98	LFXPP 2X	D9G010186-20	9183315	MS	2.0	07/07/09 22:55	
99	LFXPQ 2X	D9G010186-21	9183315	MS	2.0	07/07/09 22:57	
100	CCV				1.0	07/07/09 23:00	
101	CCB				1.0	07/07/09 23:03	
102	RLCV				1.0	07/07/09 23:06	
103	LF3W3B	D9G060000	9187133	MS	1.0	07/07/09 23:08	
104	LF3W3C	D9G060000	9187133	MS	1.0	07/07/09 23:11	
105	LF1JL	D9G020188-1	9187133	MS	1.0	07/07/09 23:14	
106	LF1KR	D9G020188-2	9187133	MS	1.0	07/07/09 23:17	- Take all but Mn. <i>7/8/09</i>
107	LF1KT	D9G020188-3	9187133	MS	1.0	07/07/09 23:19	
108	LF1KW	D9G020188-4	9187133	MS	1.0	07/07/09 23:22	
109	LF1KX	D9G020188-5	9187133	MS	1.0	07/07/09 23:25	
110	LF1K1	D9G020188-6	9187133	MS	1.0	07/07/09 23:28	
111	LF1K2	D9G020188-7	9187133	MS	1.0	07/07/09 23:30	
112	CCV				1.0	07/07/09 23:33	
113	CCB				1.0	07/07/09 23:36	
114	RLCV				1.0	07/07/09 23:39	
115	LF1K3	D9G020188-8	9187133	MS	1.0	07/07/09 23:42	
116	LF1K6	D9G020188-9	9187133	MS	1.0	07/07/09 23:44	
117	LF1NP	D9G020199-1	9187133	MS	1.0	07/07/09 23:47	
118	LF1NPP5	D9G020199	9187133		5.0	07/07/09 23:50	
119	LF1NPZ	D9G020199-1	9187133		1.0	07/07/09 23:53	
120	LF1NPS	D9G020199-1	9187133	MS	1.0	07/07/09 23:55	
121	LF1NPD	D9G020199-1	9187133	MS	1.0	07/07/09 23:58	
122	LF165	D9G020272-1	9187133	MS	1.0	07/08/09 00:01	
123	LF18E	D9G020272-2	9187133	MS	1.0	07/08/09 00:04	
124	CCV				1.0	07/08/09 00:07	
125	CCB				1.0	07/08/09 00:09	
126	RLCV				1.0	07/08/09 00:12	
127	RINSE				1.0	07/08/09 00:15	
128	RINSE				1.0	07/08/09 00:18	
129	RINSE				1.0	07/08/09 00:20	
130	RINSE				1.0	07/08/09 00:23	
131	RINSE				1.0	07/08/09 00:26	
132	RINSE				1.0	07/08/09 00:28	
133	Cal Blank				1.0	07/08/09 00:31	<i>Not 7/8/09 Did not use.</i>
134	Cal Blank				1.0	07/08/09 00:34	
135	100 ppb				1.0	07/08/09 00:37	
136	CCV				1.0	07/08/09 00:39	
137	CCB				1.0	07/08/09 00:42	
138	RLCV				1.0	07/08/09 00:45	
139	LF3WAB	D9G060000	9187106	04	1.0	07/08/09 00:48	

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
140	LF3WAC	D9G060000	9187106	04	1.0 07/08/09 00:51		<input type="checkbox"/>
141	LFXTT	D9G010202-1	9187106	04	1.0 07/08/09 00:53		<input type="checkbox"/>
142	LF1JG	D9G020189-1	9187106	04	1.0 07/08/09 00:56		<input type="checkbox"/>
143	LF1KV	D9G020189-3	9187106	04	1.0 07/08/09 00:59		<input type="checkbox"/>
144	LF1K5	D9G020189-5	9187106	04	1.0 07/08/09 01:02		<input type="checkbox"/>
145	LF1LC	D9G020189-7	9187106	04	1.0 07/08/09 01:04		<input type="checkbox"/>
146	LF1LF	D9G020189-9	9187106	04	1.0 07/08/09 01:07		<input type="checkbox"/>
147	CCV				1.0 07/08/09 01:10		<input type="checkbox"/>
148	CCB				1.0 07/08/09 01:13		<input type="checkbox"/>
149	RLCV				1.0 07/08/09 01:16		<input type="checkbox"/>
150	LF1LK	D9G020189-11	9187106	04	1.0 07/08/09 01:18		<input type="checkbox"/>
151	LF1LN	D9G020189-13	9187106	04	1.0 07/08/09 01:21		<input type="checkbox"/>
152	LF1LNP5	D9G020189	9187106		5.0 07/08/09 01:24		<input type="checkbox"/>
153	LF1LNZ	D9G020189-13	9187106		1.0 07/08/09 01:27		<input type="checkbox"/>
154	LF1LNS	D9G020189-13	9187106	04	1.0 07/08/09 01:29		<input type="checkbox"/>
155	LF1LND	D9G020189-13	9187106	04	1.0 07/08/09 01:32		<input type="checkbox"/>
156	LF1LT	D9G020189-15	9187106	04	1.0 07/08/09 01:35		<input type="checkbox"/>
157	LF1LW	D9G020189-17	9187106	04	1.0 07/08/09 01:38		<input type="checkbox"/>
158	CCV				1.0 07/08/09 01:40		<input type="checkbox"/>
159	CCB				1.0 07/08/09 01:43		<input type="checkbox"/>
160	RLCV				1.0 07/08/09 01:46		<input type="checkbox"/>
161	LF315BF	D9G060000	9187204	MD	1.0 07/08/09 01:49		<input type="checkbox"/>
162	LF315CF	D9G060000	9187204	MD	1.0 07/08/09 01:51		<input type="checkbox"/>
163	LF1XCF	D9G020230-9	9187204	MD	1.0 07/08/09 01:54		<input type="checkbox"/>
164	LF1XFF	D9G020230-10	9187204	MD	1.0 07/08/09 01:57		<input type="checkbox"/>
165	LF1XHF	D9G020230-11	9187204	MD	1.0 07/08/09 02:00		<input type="checkbox"/>
166	LF1XHP5F	D9G020230	9187204		5.0 07/08/09 02:02		<input type="checkbox"/>
167	LF1XHZF	D9G020230-11	9187204		1.0 07/08/09 02:05		<input type="checkbox"/>
168	LF1XHSF	D9G020230-11	9187204	MD	1.0 07/08/09 02:08		<input type="checkbox"/>
169	LF1XHDF	D9G020230-11	9187204	MD	1.0 07/08/09 02:11		<input type="checkbox"/>
170	CCV				1.0 07/08/09 02:13		<input type="checkbox"/>
171	CCB				1.0 07/08/09 02:16		<input type="checkbox"/>
172	RLCV				1.0 07/08/09 02:19		<input type="checkbox"/>
173	LF30GBF	D9G060000	9187175	MD	1.0 07/08/09 02:22		<input type="checkbox"/>
174	LF30GCF	D9G060000	9187175	MD	1.0 07/08/09 02:25		<input type="checkbox"/>
175	LF1T5F 10X	D9G020221-2	9187175	MD	10.0 07/08/09 02:27		<input type="checkbox"/>
176	LF1WAF 10X	D9G020227-3	9187175	MD	10.0 07/08/09 02:30		<input type="checkbox"/>
177	LF1WAP50F	D9G020227	9187175		50.0 07/08/09 02:33		<input type="checkbox"/>
178	LF1WAZF	D9G020227-3	9187175		1.0 07/08/09 02:36		<input type="checkbox"/>
179	LF1WASF 10	D9G020227-3	9187175	MD	10.0 07/08/09 02:38		<input type="checkbox"/>
180	LF1WADF 10	D9G020227-3	9187175	MD	10.0 07/08/09 02:41		<input type="checkbox"/>
181	CCV				1.0 07/08/09 02:44		<input type="checkbox"/>
182	CCB				1.0 07/08/09 02:47		<input type="checkbox"/>
183	RLCV				1.0 07/08/09 02:49		<input type="checkbox"/>
184	RINSE				1.0 07/08/09 02:52		<input type="checkbox"/>
185	RINSE				1.0 07/08/09 02:55	✓ 7/8/09	<input type="checkbox"/>

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
186	RINSE			1.0	07/08/09 02:58		
187	RINSE			1.0	07/08/09 03:00		
188	RINSE			1.0	07/08/09 03:03		
189	RINSE			1.0	07/08/09 03:06		
190	Cal Blank			1.0	07/08/09 03:09	✓ 7/8/09	
191	Cal Blank			1.0	07/08/09 03:11		
192	100 ppb			1.0	07/08/09 03:14		
193	CCV			1.0	07/08/09 03:17		
194	CCB			1.0	07/08/09 03:20		
195	RLCV			1.0	07/08/09 03:22		
196	LF3X8B	D9G060000	9187169	MS	1.0	07/08/09 03:25	
197	LF3X8C	D9G060000	9187169	MS	1.0	07/08/09 03:28	
198	LFX9W 10X	D9G010276-1	9187169	MS	10.0	07/08/09 03:31	
199	LF1T1 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:33	
200	LF1T1P50	D9G020221	9187169		50.0	07/08/09 03:36	
201	LF1T1Z	D9G020221-1	9187169		1.0	07/08/09 03:39	
202	CCV				1.0	07/08/09 03:42	
203	CCB				1.0	07/08/09 03:44	
204	RLCV				1.0	07/08/09 03:47	
205	LF1T1S 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:50	
206	LF1T1D 10X	D9G020221-1	9187169	MS	10.0	07/08/09 03:53	
207	LF1T6 10X	D9G020221-3	9187169	MS	10.0	07/08/09 03:56	
208	LF1VJ 10X	D9G020227-1	9187169	MS	10.0	07/08/09 03:58	
209	LF1V5 10X	D9G020227-2	9187169	MS	10.0	07/08/09 04:01	
210	CCV				1.0	07/08/09 04:04	
211	CCB				1.0	07/08/09 04:07	
212	RLCV				1.0	07/08/09 04:09	
213	RINSE				1.0	07/08/09 04:12	
214	RINSE				1.0	07/08/09 04:15	
215	RINSE				1.0	07/08/09 04:18	
216	RINSE				1.0	07/08/09 04:20	
217	RINSE				1.0	07/08/09 04:23	
218	RINSE				1.0	07/08/09 04:26	
219	Cal Blank				1.0	07/08/09 04:29	✓ 7/8/09
220	Cal Blank				1.0	07/08/09 04:31	
221	100 ppb				1.0	07/08/09 04:34	
222	CCV				1.0	07/08/09 04:37	
223	CCB				1.0	07/08/09 04:40	
224	RLCV				1.0	07/08/09 04:42	
225	LF31NB	D9G060000	9187199	46	1.0	07/08/09 04:45	
226	LF31NC	D9G060000	9187199	46	1.0	07/08/09 04:48	
227	LF0NV	D9G010332-7	9187199	46	1.0	07/08/09 04:51	
228	LF0NVP5	D9G010332	9187199		5.0	07/08/09 04:54	
229	LF0NVZ	D9G010332-7	9187199		1.0	07/08/09 04:56	
230	LF0NVS	D9G010332-7	9187199	46	1.0	07/08/09 04:59	
231	LF0NVD	D9G010332-7	9187199	46	1.0	07/08/09 05:02	

Denver

RUN SUMMARY

Method: 6020 (ICP/MS)

ICPMS_024 (024)

Reported: 07/08/09 09:49:24

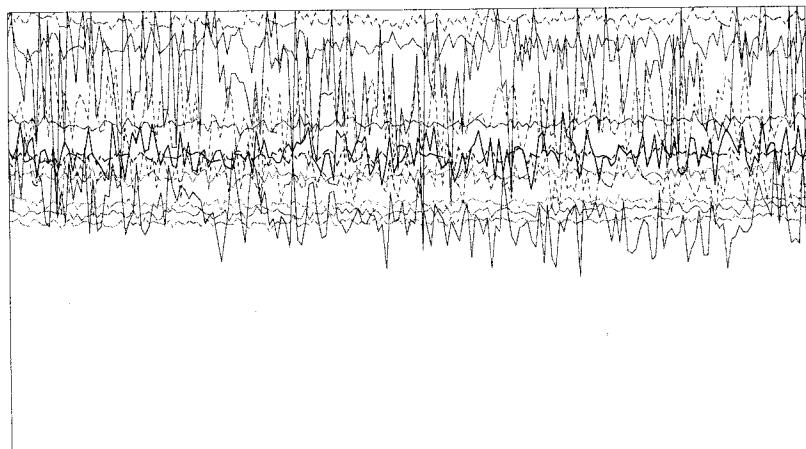
File ID: AG070709B

Analyst: TEL

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
232	CCV			1.0	07/08/09 05:05		<input type="checkbox"/>
233	CCB			1.0	07/08/09 05:07		<input type="checkbox"/>
234	RLCV			1.0	07/08/09 05:10		<input type="checkbox"/>
235	LF31XB	D9G060000	9187202	46	1.0 07/08/09 05:13		<input type="checkbox"/>
236	LF31XC	D9G060000	9187202	46	1.0 07/08/09 05:16		<input type="checkbox"/>
237	LF2FT	D9G020311-1	9187202	46	1.0 07/08/09 05:19		<input type="checkbox"/>
238	LF2FTP5	D9G020311	9187202		5.0 07/08/09 05:21		<input type="checkbox"/>
239	LF2FTZ	D9G020311-1	9187202		1.0 07/08/09 05:24	- Take all but Ni. <i>7/8/09</i>	<input type="checkbox"/>
240	LF2FTS	D9G020311-1	9187202	46	1.0 07/08/09 05:27		<i>7/8/09</i> <input type="checkbox"/>
241	LF2FTD	D9G020311-1	9187202	46	1.0 07/08/09 05:30		<input type="checkbox"/>
242	CCV				1.0 07/08/09 05:33		<input type="checkbox"/>
243	CCB				1.0 07/08/09 05:35		<input type="checkbox"/>
244	RLCV				1.0 07/08/09 05:38		<input type="checkbox"/>
245	LF2JL	D9G020311-2	9187202	46	1.0 07/08/09 05:41		<input type="checkbox"/>
246	LF2JQ	D9G020311-3	9187202	46	1.0 07/08/09 05:44		<input type="checkbox"/>
247	LF2J3	D9G020311-4	9187202	46	1.0 07/08/09 05:46		<input type="checkbox"/>
248	LF2J5	D9G020311-5	9187202	46	1.0 07/08/09 05:49		<input type="checkbox"/>
249	LF2KJ	D9G020311-6	9187202	46	1.0 07/08/09 05:52		<input type="checkbox"/>
250	LF2KN	D9G020311-7	9187202	46	1.0 07/08/09 05:55		<input type="checkbox"/>
251	LF2KT	D9G020311-8	9187202	46	1.0 07/08/09 05:58		<input type="checkbox"/>
252	CCV				1.0 07/08/09 06:00		<input type="checkbox"/>
253	CCB				1.0 07/08/09 06:03		<input type="checkbox"/>
254	RLCV				1.0 07/08/09 06:06		<input type="checkbox"/>
255	LF2FT	D9G020311-1	9187202	46	1.0 07/08/09 06:09		<input type="checkbox"/>
256	LF2FTS	D9G020311-1	9187202	46	1.0 07/08/09 06:12		<input type="checkbox"/>
257	LF2FTD	D9G020311-1	9187202	46	1.0 07/08/09 06:14		<input type="checkbox"/>
258	CCV				1.0 07/08/09 06:17		<input type="checkbox"/>
259	CCB				1.0 07/08/09 06:20		<input type="checkbox"/>
260	RLCV				1.0 07/08/09 06:23	<i>7/8/09 Did not use.</i>	<input type="checkbox"/>

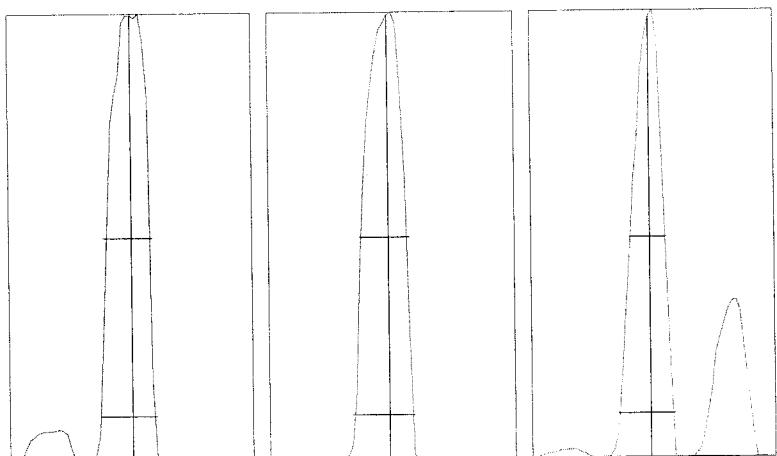
Tune Report

Tune File : NORM.U
 Comment :



Integration Time: 0.1000 sec
 Sampling Period: 1.5300 sec
 n: 200
 Oxide: 156/140 2.082%
 Doubly Charged: 70/140 1.123%

m/z	Range	Count	Mean	RSD%	Background
6	2,000	1889.0	1841.3	2.59	0.60
7	50,000	27559.0	27403.0	1.40	0.60
59	50,000	33030.0	31479.0	1.53	0.50
63	200	87.0	107.9	11.91	0.30
70	1,000	686.0	677.4	4.99	0.70
75	50	31.0	42.9	16.22	0.60
78	500	280.0	313.4	6.24	0.30
89	100,000	51516.0	52575.3	1.19	0.70
115	100,000	57158.0	56755.0	1.31	0.70
118	200	162.0	152.3	8.33	0.70
137	10,000	6656.0	6727.9	1.69	1.00
205	50,000	48630.0	48760.9	1.18	2.00
238	100,000	74601.0	74494.1	1.21	2.10
156/140	5	2.193%	2.125%	4.06	
70/140	2	1.184%	1.169%	5.10	



m/z:	7	89	205
Height:	27,543	52,894	49,644
Axis:	7.05	89.00	205.00
W-50%:	0.60	0.60	0.45
W-10%:	0.700	0.7500	0.700

Integration Time: 0.1000 sec
 Acquisition Time: 22.7600 sec

Y axis : Linear

Tune Report

Tune File : NORM.U
Comment :

Tuning Parameters

====Plasma Condition====

RF Power : 1550 W
RF Matching : 1.7 V
Smp1 Depth : 7.5 mm
Torch-H : -0.8 mm
Torch-V : -0.3 mm
Carrier Gas : 0.83 L/min
Makeup Gas : 0.2 L/min
Optional Gas : --- %
Nebulizer Pump : 0.1 rps
Sample Pump : --- rps
S/C Temp : 2 degC

====Ion Lenses====

Extract 1 : 0 V
Extract 2 : -175 V
Omega Bias-ce : -30 V
Omega Lens-ce : -0.2 V
Cell Entrance : -30 V
QP Focus : 5 V
Cell Exit : -30 V

====Q-Pole Parameters====

AMU Gain : 133
AMU Offset : 123
Axis Gain : 1.0005
Axis Offset : -0.01
QP Bias : -10 V

====Detector Parameters====

Discriminator : 8 mV
Analog HV : 1720 V
Pulse HV : 1390 V

====Reaction Cell====

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

P/A Factor Tuning Report

Acquired:Jul 7 2009 04:18 pm

Mass[amu]	Element	P/A Factor
6	Li	0.060118
7	(Li)	Sensitivity too low
9	Be	0.068010
45	Sc	0.082686
51	V	0.084596
52	Cr	0.087721
53	(Cr)	Sensitivity too low
55	Mn	0.089784
59	Co	0.093112
60	Ni	0.095012
63	Cu	0.097299
66	Zn	0.097070
72	Ge	0.095471
75	As	0.094654
77	(Se)	Sensitivity too low
78	Se	Sensitivity too low
82	(Se)	Sensitivity too low
83	(Se)	Sensitivity too low
95	Mo	0.095555
98	(Mo)	0.095635
99	(Mo)	0.097324
106	(Cd)	0.101627
107	Ag	Sensitivity too low
108	(Cd)	0.102086
111	Cd	0.102705
114	Cd	0.102655
115	In	0.101852
118	Sn	0.101508
121	Sb	0.101313
137	Ba	Sensitivity too low
165	Ho	Sensitivity too low
205	Tl	0.111470
206	(Pb)	0.110400
207	(Pb)	0.110479
208	Pb	0.110219
232	Th	0.108817
238	U	0.108862

====Detector Parameters=====

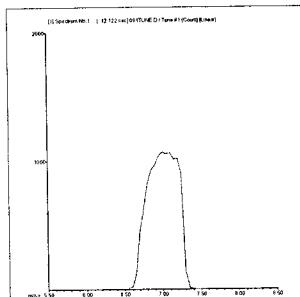
Discriminator: 8.0 mV
Analog HV: 1720 V
Pulse HV: 1390 V

200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\001TUNE.D
 Date Acquired: Jul 7 2009 06:26 pm
 Acq. Method: tun_isis.M
 Operator: TEL
 Sample Name: 200.8 TUNE
 Misc Info:
 Vial Number: 4
 Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

RSD (%)

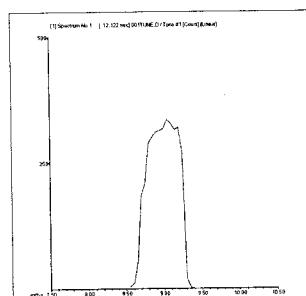
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	22453	22562	22678	22654	22339	22032	2.26	5.00	
9 Be	2557	2614	2568	2613	2528	2458	3.87	5.00	
24 Mg	10195	10333	10161	10163	10347	9970	1.30	5.00	
59 Co	66238	66281	66746	66790	66601	64770	3.53	5.00	
115 In	958916	951553	962857	960080	958978	961111	0.77	5.00	
208 Pb	77867	78896	77667	77197	77617	77956	1.00	5.00	
238 U	160452	162185	164035	161529	160468	154041	1.94	5.00	

**7 Li****Mass Calib.**

Actual: 7.05
 Required: 6.90 - 7.10
 Flag:

Peak Width

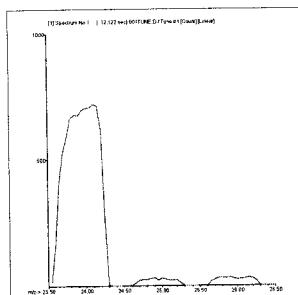
Actual: 0.65
 Required: 0.90
 Flag:

**9 Be****Mass Calib.**

Actual: 9.10
 Required: 8.90 - 9.10
 Flag:

Peak Width

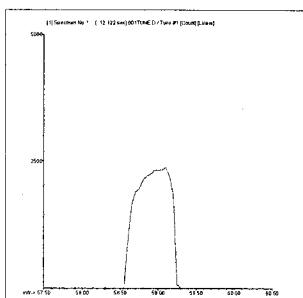
Actual: 0.60
 Required: 0.90
 Flag:

**24 Mg****Mass Calib.**

Actual: 24.05
 Required: 23.90 - 24.10
 Flag:

Peak Width

Actual: 0.65
 Required: 0.90
 Flag:

**59 Co****Mass Calib.**

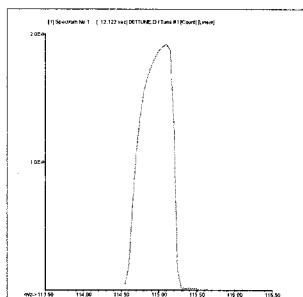
Actual:	59.00		
Required:	58.90	-	59.10

Flag:

Peak Width

Actual:	0.60		
Required:	0.90		

Flag:

**115 In****Mass Calib.**

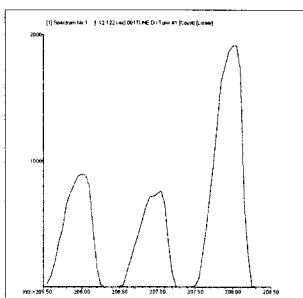
Actual:	115.05		
Required:	114.90	-	115.10

Flag:

Peak Width

Actual:	0.55		
Required:	0.90		

Flag:

**208 Pb****Mass Calib.**

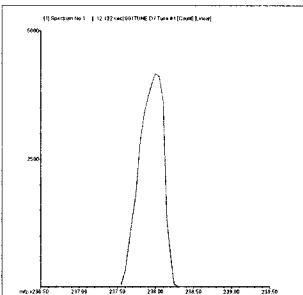
Actual:	208.00		
Required:	207.90	-	208.10

Flag:

Peak Width

Actual:	0.60		
Required:	0.90		

Flag:

**238 U****Mass Calib.**

Actual:	238.00		
Required:	237.90	-	238.10

Flag:

Peak Width

Actual:	0.55		
Required:	0.90		

Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\002CALB.D\002CALB.D#
 Date Acquired: Jul 7 2009 06:29 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:30 pm
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		-61	307.06
52	Cr	72	1		1703	4.99
55	Mn	72	1		127	24.12
59	Co	72	1		27	94.37
60	Ni	72	1		10	100.00
63	Cu	72	1		207	16.99
66	Zn	72	1		281	13.82
75	As	72	1		29	24.50
78	Se	72	1		57	36.74
95	Mo	72	1		10	100.00
107	Ag	115	1		7	86.60
111	Cd	115	1		5	136.25
118	Sn	115	1		157	13.29
121	Sb	115	1		13	66.14
137	Ba	115	1		16	53.93
205	Tl	165	1		142	24.84
208	Pb	165	1		238	8.45
232	Th	165	1		167	24.98
238	U	165	1		100	12.02

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	400758	1.34
45	Sc	1	936208	0.95
72	Ge	1	542425	0.31
115	In	1	1772725	1.04
165	Ho	1	4029283	0.79

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#
 Date Acquired: Jul 7 2009 06:32 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:30 pm
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		124	45.09
52	Cr	72	1		1643	7.31
55	Mn	72	1		140	21.43
59	Co	72	1		13	43.30
60	Ni	72	1		37	31.49
63	Cu	72	1		283	14.26
66	Zn	72	1		173	16.69
75	As	72	1		24	22.05
78	Se	72	1		57	26.96
95	Mo	72	1		13	43.30
107	Ag	115	1		10	100.00
111	Cd	115	1		8	89.21
118	Sn	115	1		187	27.49
121	Sb	115	1		13	66.14
137	Ba	115	1		17	52.92
205	Tl	165	1		96	12.25
208	Pb	165	1		224	8.95
232	Th	165	1		143	28.20
238	U	165	1		19	73.47

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	399164	0.09
45	Sc	1	940817	0.93
72	Ge	1	543541	0.91
115	In	1	1769666	0.69
165	Ho	1	4052095	0.70

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\004ICAL.D\004ICAL.D#
 Date Acquired: Jul 7 2009 06:35 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:33 pm
 Sample Type: ICAL

QC Elements

Element	IS	Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	45057	2.44
51	V	72	1	635517	1.35
52	Cr	72	1	740365	0.51
55	Mn	72	1	696026	0.68
59	Co	72	1	1072796	0.30
60	Ni	72	1	253152	0.72
63	Cu	72	1	623666	0.91
66	Zn	72	1	116172	1.28
75	As	72	1	70648	0.92
78	Se	72	1	10825	1.36
95	Mo	72	1	298414	1.62
107	Ag	115	1	1006118	0.15
111	Cd	115	1	173188	0.75
118	Sn	115	1	439651	0.54
121	Sb	115	1	464508	0.62
137	Ba	115	1	189823	0.35
205	Tl	165	1	2375887	1.05
208	Pb	165	1	3257719	0.92
232	Th	165	1	3073849	2.20
238	U	165	1	3744584	1.20

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6	Li	1	382426	1.59	399164	95.8	30 - 120
45	Sc	1	907089	1.38	940817	96.4	30 - 120
72	Ge	1	520511	0.60	543541	95.8	30 - 120
115	In	1	1740539	0.58	1769666	98.4	30 - 120
165	Ho	1	4011984	1.19	4052095	99.0	30 - 120

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\005_ICV.D\005_ICV.D#
 Date Acquired: Jul 7 2009 06:38 pm
 Operator: TEL
 Sample Name: ICV
 Misc Info:
 Vial Number: 2103
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: ICV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6	1		38.73 ppb	2.14	40	96.8	90 - 110	
51 V	72	1		39.83 ppb	1.86	40	99.6	90 - 110	
52 Cr	72	1		40.55 ppb	1.29	40	101.4	90 - 110	
55 Mn	72	1		40.32 ppb	1.65	40	100.8	90 - 110	
59 Co	72	1		39.47 ppb	0.43	40	98.7	90 - 110	
60 Ni	72	1		41.03 ppb	0.27	40	102.6	90 - 110	
63 Cu	72	1		40.32 ppb	0.60	40	100.8	90 - 110	
66 Zn	72	1		40.30 ppb	0.46	40	100.8	90 - 110	
75 As	72	1		39.90 ppb	1.04	40	99.8	90 - 110	
78 Se	72	1		39.38 ppb	6.26	40	98.5	90 - 110	
95 Mo	72	1		40.14 ppb	0.13	40	100.4	90 - 110	
107 Ag	115	1		39.43 ppb	0.35	40	98.6	90 - 110	
111 Cd	115	1		40.26 ppb	0.38	40	100.7	90 - 110	
118 Sn	115	1		39.20 ppb	0.85	40	98.0	90 - 110	
121 Sb	115	1		38.07 ppb	0.76	40	95.2	90 - 110	
137 Ba	115	1		39.65 ppb	1.27	40	99.1	90 - 110	
205 Tl	165	1		40.61 ppb	1.35	40	101.5	90 - 110	
208 Pb	165	1		40.53 ppb	1.09	40	101.3	90 - 110	
232 Th	165	1		45.82 ppb	0.29	40	114.6	90 - 110	
238 U	165	1		41.02 ppb	0.38	40	102.6	90 - 110	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	380889	0.43	399164	95.4	30 - 120	
45 Sc	1	897908	0.41	940817	95.4	30 - 120	
72 Ge	1	510491	0.99	543541	93.9	30 - 120	
115 In	1	1725161	0.55	1769666	97.5	30 - 120	
165 Ho	1	3965758	0.76	4052095	97.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\006WASH.D\006WASH.D#
 Date Acquired: Jul 7 2009 06:40 pm
 Operator: TEL
 Sample Name: RLIV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6		1	1.089 ppb	17.74	1.30	
51 V	72		1	5.159 ppb	1.25	6.50	
52 Cr	72		1	2.056 ppb	4.36	2.60	
55 Mn	72		1	0.996 ppb	5.33	1.30	
59 Co	72		1	0.986 ppb	5.16	1.30	
60 Ni	72		1	2.089 ppb	5.01	2.60	
63 Cu	72		1	2.053 ppb	2.76	2.60	
66 Zn	72		1	10.520 ppb	1.83	13.00	
75 As	72		1	5.027 ppb	1.20	6.50	
78 Se	72		1	4.447 ppb	23.34	6.50	
95 Mo	72		1	2.089 ppb	0.78	2.60	
107 Ag	115		1	5.193 ppb	1.84	6.50	
111 Cd	115		1	1.042 ppb	3.41	1.30	
118 Sn	115		1	10.480 ppb	0.85	13.00	
121 Sb	115		1	2.185 ppb	1.55	2.60	
137 Ba	115		1	1.068 ppb	5.38	1.30	
205 Tl	165		1	1.176 ppb	2.26	1.30	
208 Pb	165		1	1.073 ppb	0.23	1.30	
232 Th	165		1	3.179 ppb	4.03	2.60	
238 U	165		1	1.102 ppb	1.37	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	379446	0.32	399164	95.1	30 - 120	
45 Sc	1	894440	1.04	940817	95.1	30 - 120	
72 Ge	1	517374	0.11	543541	95.2	30 - 120	
115 In	1	1715545	0.68	1769666	96.9	30 - 120	
165 Ho	1	3947602	0.56	4052095	97.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\007 ICB.D\007 ICB.D#
 Date Acquired: Jul 7 2009 06:43 pm **QC Summary:**
 Operator: TEL **Analytes:** Pass
 Sample Name: ICB **ISTD:** Pass
 Misc Info:
 Vial Number: 2104
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: ICB
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	ppb	0.00	1.00
51 V	72	1		-0.01	ppb	278.49	1.00
52 Cr	72	1		0.01	ppb	361.44	1.00
55 Mn	72	1		-0.01	ppb	36.80	1.00
59 Co	72	1		0.00	ppb	359.57	1.00
60 Ni	72	1		0.00	ppb	857.45	1.00
63 Cu	72	1		0.00	ppb	170.49	1.00
66 Zn	72	1		0.00	ppb	285.00	1.00
75 As	72	1		0.01	ppb	88.24	1.00
78 Se	72	1		0.02	ppb	872.43	1.00
95 Mo	72	1		0.01	ppb	14.64	1.00
107 Ag	115	1		0.00	ppb	129.33	1.00
111 Cd	115	1		0.00	ppb	333.20	1.00
118 Sn	115	1		0.09	ppb	12.11	1.00
121 Sb	115	1		0.08	ppb	3.49	1.00
137 Ba	115	1		0.00	ppb	216.96	1.00
205 Tl	165	1		0.07	ppb	7.69	1.00
208 Pb	165	1		0.00	ppb	101.76	1.00
232 Th	165	1		0.33	ppb	6.92	1.00
238 U	165	1		0.00	ppb	13.68	1.00

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6 Li	1	382408	0.87	399164	95.8	30 - 120		
45 Sc	1	907229	0.95	940817	96.4	30 - 120		
72 Ge	1	521075	0.30	543541	95.9	30 - 120		
115 In	1	1702190	0.54	1769666	96.2	30 - 120		
165 Ho	1	3975956	0.45	4052095	98.1	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\008RLST.D\008RLST.D#
 Date Acquired: Jul 7 2009 06:46 pm
 Operator: TEL
 Sample Name: RL STD
 Misc Info:
 Vial Number: 2105
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: RLSTD
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	1.04 ppb	12.32	1	103.7	50 - 150	
51 V	72		1	1.01 ppb	9.81	1	100.5	50 - 150	
52 Cr	72		1	0.99 ppb	5.47	1	99.4	50 - 150	
55 Mn	72		1	0.98 ppb	4.30	1	98.4	50 - 150	
59 Co	72		1	0.98 ppb	4.26	1	98.4	50 - 150	
60 Ni	72		1	0.98 ppb	3.81	1	98.5	50 - 150	
63 Cu	72		1	0.96 ppb	4.85	1	96.3	50 - 150	
66 Zn	72		1	10.22 ppb	0.29	10	102.2	50 - 150	
75 As	72		1	1.01 ppb	2.72	1	100.7	50 - 150	
78 Se	72		1	0.79 ppb	53.55	1	78.9	50 - 150	
95 Mo	72		1	1.07 ppb	4.00	1	107.1	50 - 150	
107 Ag	115		1	0.99 ppb	3.27	1	99.3	50 - 150	
111 Cd	115		1	1.03 ppb	1.34	1	103.2	50 - 150	
118 Sn	115		1	10.17 ppb	1.04	10	101.7	50 - 150	
121 Sb	115		1	1.03 ppb	5.66	1	102.9	50 - 150	
137 Ba	115		1	1.04 ppb	2.53	1	103.6	50 - 150	
205 Tl	165		1	1.06 ppb	0.83	1	106.2	50 - 150	
208 Pb	165		1	1.01 ppb	1.71	1	101.3	50 - 150	
232 Th	165		1	1.16 ppb	1.52	1	115.9	50 - 150	
238 U	165		1	1.06 ppb	1.52	1	105.6	50 - 150	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	381752	0.66	399164	95.6	30 - 120	
45 Sc	1	908450	0.62	940817	96.6	30 - 120	
72 Ge	1	523170	0.29	543541	96.3	30 - 120	
115 In	1	1727746	0.37	1769666	97.6	30 - 120	
165 Ho	1	3986580	0.86	4052095	98.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\009AFCE.D\009AFCE.D#
 Date Acquired: Jul 7 2009 06:49 pm
 Operator: TEL
 Sample Name: AFCEE RL
 Misc Info:
 Vial Number: 2106
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: AFCEE RL
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6		1	0.18 ppb	36.20	0	88.9	80 - 120	
51 V	72		1	0.15 ppb	7.13	0	73.5	80 - 120	
52 Cr	72		1	0.18 ppb	3.37	0	88.4	80 - 120	
55 Mn	72		1	0.20 ppb	12.94	0	101.5	80 - 120	
59 Co	72		1	0.20 ppb	5.47	0	100.2	80 - 120	
60 Ni	72		1	0.19 ppb	8.01	0	94.7	80 - 120	
63 Cu	72		1	0.20 ppb	4.43	0	102.8	80 - 120	
66 Zn	72		1	2.02 ppb	0.83	2	98.9	80 - 120	
75 As	72		1	0.21 ppb	14.22	0	101.8	80 - 120	
78 Se	72		1	0.11 ppb	92.40	0	70.8	80 - 120	
95 Mo	72		1	0.21 ppb	12.83	0	96.0	80 - 120	
107 Ag	115		1	0.19 ppb	14.07	0	93.7	80 - 120	
111 Cd	115		1	0.20 ppb	13.72	0	98.7	80 - 120	
118 Sn	115		1	2.10 ppb	1.98	2	103.2	80 - 120	
121 Sb	115		1	0.21 ppb	3.22	0	103.6	80 - 120	
137 Ba	115		1	0.19 ppb	8.30	0	92.8	80 - 120	
205 Tl	165		1	0.23 ppb	2.69	0	107.3	80 - 120	
208 Pb	165		1	0.21 ppb	2.25	0	102.4	80 - 120	
232 Th	165		1	0.30 ppb	1.72	0	130.8	80 - 120	
238 U	165		1	0.21 ppb	1.37	0	97.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	383219	0.57	399164	96.0	30 - 120	
45 Sc	1	910744	0.99	940817	96.8	30 - 120	
72 Ge	1	523238	0.51	543541	96.3	30 - 120	
115 In	1	1749677	0.22	1769666	98.9	30 - 120	
165 Ho	1	3982865	0.61	4052095	98.3	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\010SMPL.D\010SMPL.D#
 Date Acquired: Jul 7 2009 06:51 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ALTSe
 Misc Info: 2 ppb
 Vial Number: 2107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.01	-0.01	ppb	147.72	3600	
52 Cr	72	1		0.00	0.00	ppb	1241.60	3600	
55 Mn	72	1		0.00	0.00	ppb	472.13	3600	
59 Co	72	1		0.00	0.00	ppb	369.37	3600	
60 Ni	72	1		0.01	0.01	ppb	136.71	3600	
63 Cu	72	1		-0.01	-0.01	ppb	86.24	3600	
66 Zn	72	1		0.10	0.10	ppb	20.02	3600	
75 As	72	1		0.00	0.00	ppb	488.01	3600	
78 Se	72	1		1.71	1.71	ppb	19.19	3600	
95 Mo	72	1		0.00	0.00	ppb	42.52	3600	
107 Ag	115	1		0.00	0.00	ppb	89.97	3600	
111 Cd	115	1		0.00	0.00	ppb	483.30	3600	
118 Sn	115	1		0.44	0.44	ppb	3.98	3600	
121 Sb	115	1		0.01	0.01	ppb	51.24	3600	
137 Ba	115	1		0.00	0.00	ppb	2235.70	3600	
205 Tl	165	1		0.02	0.02	ppb	13.37	3600	
208 Pb	165	1		0.00	0.00	ppb	155.70	3600	
232 Th	165	1		0.05	0.05	ppb	11.74	1000	
238 U	165	1		0.00	0.00	ppb	34.75	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	381988	0.77	399164	95.7	30 - 120	
45 Sc	1	909120	0.30	940817	96.6	30 - 120	
72 Ge	1	524636	0.43	543541	96.5	30 - 120	
115 In	1	1729729	0.54	1769666	97.7	30 - 120	
165 Ho	1	3992746	0.71	4052095	98.5	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\011ICSA.D\011ICSA.D#
 Date Acquired: Jul 7 2009 06:54 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSA
 QC Summary:
 Analytes: Pass
 ISTD: Pass
 Misc Info:
 Vial Number: 2108
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High	Limit ppb	Flag
9 Be	6	1		0.01 ppb	173.19		1.00	
51 V	72	1		-0.12 ppb	145.18		1.00	
52 Cr	72	1		1.00 ppb	3.09		1.00	
55 Mn	72	1		2.15 ppb	3.13		1.00	
59 Co	72	1		0.05 ppb	8.09		1.00	
60 Ni	72	1		0.76 ppb	3.84		1.00	
63 Cu	72	1		0.31 ppb	8.08		1.00	
66 Zn	72	1		2.84 ppb	2.36		10.00	
75 As	72	1		0.16 ppb	4.86		1.00	
78 Se	72	1		-0.20 ppb	83.63		1.00	
95 Mo	72	1		2043.00 ppb	1.61		2000.00	
107 Ag	115	1		0.06 ppb	1.56		1.00	
111 Cd	115	1		0.46 ppb	24.91		1.00	
118 Sn	115	1		0.20 ppb	17.21		10.00	
121 Sb	115	1		0.24 ppb	6.95		1.00	
137 Ba	115	1		1.57 ppb	4.74		1.00	
205 Tl	165	1		0.05 ppb	32.86		1.00	
208 Pb	165	1		0.12 ppb	5.36		1.00	
232 Th	165	1		0.10 ppb	10.63		1.00	
238 U	165	1		0.02 ppb	3.23		1.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	365243	0.79	399164	91.5		30 - 120	
45 Sc	1	788222	0.65	940817	83.8		30 - 120	
72 Ge	1	427827	0.97	543541	78.7		30 - 120	
115 In	1	1437454	0.58	1769666	81.2		30 - 120	
165 Ho	1	3581671	0.93	4052095	88.4		30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\012ICSB.D\012ICSB.D#
 Date Acquired: Jul 7 2009 06:57 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: ICSAB
 Misc Info:
 Vial Number: 2109
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: ICSAB
 Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	6	1		95.41	1.50	100	95.4	80 - 120	
51 V	72	1		103.80	1.00	100	103.8	80 - 120	
52 Cr	72	1		103.20	0.47	100	103.2	80 - 120	
55 Mn	72	1		103.00	0.69	100	103.0	80 - 120	
59 Co	72	1		95.34	0.69	100	95.3	80 - 120	
60 Ni	72	1		92.36	1.58	100	92.4	80 - 120	
63 Cu	72	1		89.22	0.72	100	89.2	80 - 120	
66 Zn	72	1		101.20	0.80	100	101.2	80 - 120	
75 As	72	1		101.20	0.94	100	101.2	80 - 120	
78 Se	72	1		111.30	2.75	100	111.3	80 - 120	
95 Mo	72	1		2173.00	1.31	2100	103.5	80 - 120	
107 Ag	115	1		85.76	1.92	100	85.8	80 - 120	
111 Cd	115	1		96.48	1.43	100	96.5	80 - 120	
118 Sn	115	1		103.80	1.68	100	103.8	80 - 120	
121 Sb	115	1		103.90	1.74	100	103.9	80 - 120	
137 Ba	115	1		106.00	2.12	100	106.0	80 - 120	
205 Tl	165	1		94.99	0.53	100	95.0	80 - 120	
208 Pb	165	1		94.09	0.42	100	94.1	80 - 120	
232 Th	165	1		111.20	1.41	100	111.2	80 - 120	
238 U	165	1		103.30	0.40	100	103.3	80 - 120	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	363601	0.94	399164	91.1	91.1	30 - 120	
45 Sc	1	745518	1.62	940817	79.2	79.2	30 - 120	
72 Ge	1	408166	0.77	543541	75.1	75.1	30 - 120	
115 In	1	1402003	0.59	1769666	79.2	79.2	30 - 120	
165 Ho	1	3568659	0.29	4052095	88.1	88.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\013SMPL.D\013SMPL.D#
 Date Acquired: Jul 7 2009 06:59 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: RINSE
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.01	0.01	ppb	173.16	3600	
51 V	72	1		-0.07	-0.07	ppb	35.08	3600	
52 Cr	72	1		0.00	0.00	ppb	168.71	3600	
55 Mn	72	1		0.01	0.01	ppb	62.67	3600	
59 Co	72	1		0.01	0.01	ppb	53.27	3600	
60 Ni	72	1		0.02	0.02	ppb	71.92	3600	
63 Cu	72	1		0.01	0.01	ppb	25.23	3600	
66 Zn	72	1		0.08	0.08	ppb	9.50	3600	
75 As	72	1		0.04	0.04	ppb	24.44	3600	
78 Se	72	1		0.02	0.02	ppb	1280.40	3600	
95 Mo	72	1		1.48	1.48	ppb	11.41	3600	
107 Ag	115	1		0.01	0.01	ppb	57.64	3600	
111 Cd	115	1		0.01	0.01	ppb	88.95	3600	
118 Sn	115	1		0.07	0.07	ppb	39.85	3600	
121 Sb	115	1		0.05	0.05	ppb	18.44	3600	
137 Ba	115	1		0.01	0.01	ppb	59.77	3600	
205 Tl	165	1		0.01	0.01	ppb	15.32	3600	
208 Pb	165	1		0.01	0.01	ppb	36.06	3600	
232 Th	165	1		0.85	0.85	ppb	23.15	1000	
238 U	165	1		0.02	0.02	ppb	9.73	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	392230	1.00	399164	98.3	30 - 120	
45 Sc	1	847933	1.38	940817	90.1	30 - 120	
72 Ge	1	494469	0.21	543541	91.0	30 - 120	
115 In	1	1662200	1.03	1769666	93.9	30 - 120	
165 Ho	1	4011358	1.54	4052095	99.0	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\014_LR.D\014_LR.D#
 Date Acquired: Jul 7 2009 07:02 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LR
 Misc Info:
 Vial Number: 2110
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: LR
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		983.40 ppb	1.01	1000	98.3	90 - 110	
51 V	72	1		947.80 ppb	1.93	1000	94.8	90 - 110	
52 Cr	72	1		970.60 ppb	1.54	1000	97.1	90 - 110	
55 Mn	72	1		980.00 ppb	1.74	1000	98.0	90 - 110	
59 Co	72	1		949.60 ppb	1.88	1000	95.0	90 - 110	
60 Ni	72	1		987.80 ppb	1.07	1000	98.8	90 - 110	
63 Cu	72	1		955.00 ppb	1.51	1000	95.5	90 - 110	
66 Zn	72	1		1033.00 ppb	1.84	1000	103.3	90 - 110	
75 As	72	1		994.00 ppb	0.73	1000	99.4	90 - 110	
78 Se	72	1		1029.00 ppb	2.04	1000	102.9	90 - 110	
95 Mo	72	1		1009.00 ppb	1.74	1000	100.9	90 - 110	
107 Ag	115	1		964.50 ppb	1.98	1000	96.5	90 - 110	
111 Cd	115	1		1029.00 ppb	1.52	1000	102.9	90 - 110	
118 Sn	115	1		1005.00 ppb	0.95	1000	100.5	90 - 110	
121 Sb	115	1		998.10 ppb	1.44	1000	99.8	90 - 110	
137 Ba	115	1		1023.00 ppb	0.46	1000	102.3	90 - 110	
205 Tl	165	1		972.10 ppb	0.66	1000	97.2	90 - 110	
208 Pb	165	1		965.00 ppb	0.85	1000	96.5	90 - 110	
232 Th	165	1		1087.00 ppb	2.42	1000	108.7	90 - 110	
238 U	165	1		1004.00 ppb	0.93	1000	100.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	374397	1.09	399164	93.8	30 - 120	
45 Sc	1	839630	1.54	940817	89.2	30 - 120	
72 Ge	1	487501	1.32	543541	89.7	30 - 120	
115 In	1	1652784	1.56	1769666	93.4	30 - 120	
165 Ho	1	4011589	1.51	4052095	99.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\015SMPL.D\015SMPL.D#
 Date Acquired: Jul 7 2009 07:05 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: RINSE
 Misc Info:
 Vial Number: 1101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr	Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1			0.10	0.10	ppb	44.89	3600	
51 V	72	1			0.04	0.04	ppb	13.03	3600	
52 Cr	72	1			0.06	0.06	ppb	24.31	3600	
55 Mn	72	1			0.06	0.06	ppb	39.96	3600	
59 Co	72	1			0.08	0.08	ppb	29.64	3600	
60 Ni	72	1			0.07	0.07	ppb	35.89	3600	
63 Cu	72	1			0.07	0.07	ppb	26.63	3600	
66 Zn	72	1			0.17	0.17	ppb	20.43	3600	
75 As	72	1			0.10	0.10	ppb	31.17	3600	
78 Se	72	1			0.20	0.20	ppb	197.18	3600	
95 Mo	72	1			0.78	0.78	ppb	8.80	3600	
107 Ag	115	1			0.05	0.05	ppb	29.15	3600	
111 Cd	115	1			0.08	0.08	ppb	11.89	3600	
118 Sn	115	1			1.34	1.34	ppb	4.00	3600	
121 Sb	115	1			0.53	0.53	ppb	4.95	3600	
137 Ba	115	1			0.06	0.06	ppb	16.69	3600	
205 Tl	165	1			0.14	0.14	ppb	16.45	3600	
208 Pb	165	1			0.08	0.08	ppb	29.48	3600	
232 Th	165	1			5.32	5.32	ppb	21.32	1000	
238 U	165	1			0.15	0.15	ppb	8.24	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	379584	0.33	399164	95.1	30 - 120	
45 Sc	1	873362	0.60	940817	92.8	30 - 120	
72 Ge	1	506731	0.43	543541	93.2	30 - 120	
115 In	1	1692278	0.36	1769666	95.6	30 - 120	
165 Ho	1	4003631	0.89	4052095	98.8	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\016_CCV.D\016_CCV.D#

Date Acquired: Jul 7 2009 07:08 pm

Operator: TEL

Sample Name: CCV

Misc Info:

Vial Number: 1107

Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M

Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C

Last Cal Update: Jul 07 2009 06:35 pm

Sample Type: CCV

Total Dil Factor: 1.00

QC Summary:**Analytes:** Pass**ISTD:** Pass**QC Elements**

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		49.62 ppb	3.63	50	99.2	90 - 110	
51 V	72	1		49.33 ppb	0.48	50	98.7	90 - 110	
52 Cr	72	1		49.99 ppb	0.15	50	100.0	90 - 110	
55 Mn	72	1		50.16 ppb	0.63	50	100.3	90 - 110	
59 Co	72	1		49.28 ppb	0.34	50	98.6	90 - 110	
60 Ni	72	1		49.82 ppb	0.86	50	99.6	90 - 110	
63 Cu	72	1		50.32 ppb	0.27	50	100.6	90 - 110	
66 Zn	72	1		51.12 ppb	0.39	50	102.2	90 - 110	
75 As	72	1		50.01 ppb	0.76	50	100.0	90 - 110	
78 Se	72	1		51.33 ppb	1.78	50	102.7	90 - 110	
95 Mo	72	1		51.04 ppb	0.26	50	102.1	90 - 110	
107 Ag	115	1		50.64 ppb	2.48	50	101.3	90 - 110	
111 Cd	115	1		51.08 ppb	3.26	50	102.2	90 - 110	
118 Sn	115	1		51.20 ppb	2.24	50	102.4	90 - 110	
121 Sb	115	1		50.97 ppb	2.72	50	101.9	90 - 110	
137 Ba	115	1		50.72 ppb	2.33	50	101.4	90 - 110	
205 Tl	165	1		51.22 ppb	0.82	50	102.4	90 - 110	
208 Pb	165	1		50.99 ppb	0.59	50	102.0	90 - 110	
232 Th	165	1		52.84 ppb	2.82	50	105.7	90 - 110	
238 U	165	1		52.33 ppb	1.04	50	104.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	376555	0.66	399164	94.3	30 - 120	
45 Sc	1	876739	1.55	940817	93.2	30 - 120	
72 Ge	1	505139	0.71	543541	92.9	30 - 120	
115 In	1	1690240	2.01	1769666	95.5	30 - 120	
165 Ho	1	3974864	0.42	4052095	98.1	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures

0 :Max. Number of Failures Allowed

0 :ISTD Failures

0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\017_CCB.D\017_CCB.D#
 Date Acquired: Jul 7 2009 07:10 pm
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.015 ppb	86.59	1.00	
51 V	72	1		0.001 ppb	2310.60	1.00	
52 Cr	72	1		0.015 ppb	77.74	1.00	
55 Mn	72	1		0.007 ppb	71.46	1.00	
59 Co	72	1		0.007 ppb	43.33	1.00	
60 Ni	72	1		0.005 ppb	124.14	1.00	
63 Cu	72	1		0.008 ppb	32.43	1.00	
66 Zn	72	1		-0.004 ppb	189.55	1.00	
75 As	72	1		0.039 ppb	52.57	1.00	
78 Se	72	1		0.034 ppb	988.42	1.00	
95 Mo	72	1		0.152 ppb	12.74	1.00	
107 Ag	115	1		0.008 ppb	0.82	1.00	
111 Cd	115	1		0.001 ppb	1452.00	1.00	
118 Sn	115	1		0.279 ppb	24.24	1.00	
121 Sb	115	1		0.108 ppb	14.18	1.00	
137 Ba	115	1		0.007 ppb	63.36	1.00	
205 Tl	165	1		0.063 ppb	13.43	1.00	
208 Pb	165	1		0.005 ppb	37.30	1.00	
232 Th	165	1		1.413 ppb	14.76	1.00	
238 U	165	1		0.015 ppb	3.77	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	376366	0.39	399164	94.3	30 - 120	
45 Sc	1	871292	1.51	940817	92.6	30 - 120	
72 Ge	1	509432	0.21	543541	93.7	30 - 120	
115 In	1	1694548	0.74	1769666	95.8	30 - 120	
165 Ho	1	3930648	0.63	4052095	97.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\018WASH.D\018WASH.D#
 Date Acquired: Jul 7 2009 07:13 pm
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.950 ppb	34.59	1.30	
51 V	72	1		5.092 ppb	2.34	6.50	
52 Cr	72	1		2.116 ppb	1.95	2.60	
55 Mn	72	1		1.041 ppb	3.33	1.30	
59 Co	72	1		0.977 ppb	1.97	1.30	
60 Ni	72	1		2.082 ppb	1.15	2.60	
63 Cu	72	1		2.096 ppb	0.80	2.60	
66 Zn	72	1		10.630 ppb	0.64	13.00	
75 As	72	1		5.058 ppb	3.38	6.50	
78 Se	72	1		5.432 ppb	1.49	6.50	
95 Mo	72	1		2.180 ppb	2.74	2.60	
107 Ag	115	1		5.324 ppb	0.74	6.50	
111 Cd	115	1		1.066 ppb	6.36	1.30	
118 Sn	115	1		10.810 ppb	0.98	13.00	
121 Sb	115	1		2.023 ppb	2.76	2.60	
137 Ba	115	1		1.068 ppb	2.92	1.30	
205 Tl	165	1		1.140 ppb	1.37	1.30	
208 Pb	165	1		1.064 ppb	2.30	1.30	
232 Th	165	1		2.562 ppb	0.69	2.60	
238 U	165	1		1.114 ppb	1.20	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	375609	0.51	399164	94.1	30 - 120		
45 Sc	1	888298	1.26	940817	94.4	30 - 120		
72 Ge	1	513002	0.31	543541	94.4	30 - 120		
115 In	1	1688757	0.59	1769666	95.4	30 - 120		
165 Ho	1	3965900	1.10	4052095	97.9	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\019SMPL.D\019SMPL.D#
 Date Acquired: Jul 7 2009 07:16 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 1
 Misc Info: IDL 1
 Vial Number: 2201
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.04	-0.04	ppb	68.44	3600	
52 Cr	72	1		0.04	0.04	ppb	29.24	3600	
55 Mn	72	1		0.00	0.00	ppb	256.13	3600	
59 Co	72	1		0.00	0.00	ppb	382.70	3600	
60 Ni	72	1		0.01	0.01	ppb	49.38	3600	
63 Cu	72	1		0.01	0.01	ppb	55.64	3600	
66 Zn	72	1		0.14	0.14	ppb	21.68	3600	
75 As	72	1		0.01	0.01	ppb	203.55	3600	
78 Se	72	1		-0.13	-0.13	ppb	125.58	3600	
95 Mo	72	1		0.05	0.05	ppb	16.98	3600	
107 Ag	115	1		0.00	0.00	ppb	52.68	3600	
111 Cd	115	1		0.00	0.00	ppb	214.07	3600	
118 Sn	115	1		0.15	0.15	ppb	19.57	3600	
121 Sb	115	1		0.06	0.06	ppb	6.05	3600	
137 Ba	115	1		0.00	0.00	ppb	349.53	3600	
205 Tl	165	1		0.12	0.12	ppb	50.04	3600	
208 Pb	165	1		0.00	0.00	ppb	22.86	3600	
232 Th	165	1		0.34	0.34	ppb	17.39	1000	
238 U	165	1		0.00	0.00	ppb	16.51	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	379285	0.19	399164	95.0	30 - 120	
45 Sc	1	892144	1.83	940817	94.8	30 - 120	
72 Ge	1	515237	0.27	543541	94.8	30 - 120	
115 In	1	1718488	1.06	1769666	97.1	30 - 120	
165 Ho	1	3986789	1.41	4052095	98.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\020SMPL.D\020SMPL.D#
 Date Acquired: Jul 7 2009 07:19 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 2
 Misc Info: IDL 2
 Vial Number: 2202
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		0.00	0.00	ppb	377.77	3600	
52 Cr	72	1		0.10	0.10	ppb	6.96	3600	
55 Mn	72	1		0.01	0.01	ppb	45.86	3600	
59 Co	72	1		0.00	0.00	ppb	145.74	3600	
60 Ni	72	1		0.00	0.00	ppb	1196.50	3600	
63 Cu	72	1		0.01	0.01	ppb	103.69	3600	
66 Zn	72	1		0.18	0.18	ppb	23.83	3600	
75 As	72	1		0.02	0.02	ppb	70.21	3600	
78 Se	72	1		-0.01	-0.01	ppb	2560.20	3600	
95 Mo	72	1		0.05	0.05	ppb	46.21	3600	
107 Ag	115	1		0.00	0.00	ppb	49.01	3600	
111 Cd	115	1		0.00	0.00	ppb	135.26	3600	
118 Sn	115	1		0.10	0.10	ppb	15.66	3600	
121 Sb	115	1		0.03	0.03	ppb	4.43	3600	
137 Ba	115	1		0.00	0.00	ppb	232.64	3600	
205 Tl	165	1		0.02	0.02	ppb	15.52	3600	
208 Pb	165	1		0.00	0.00	ppb	48.86	3600	
232 Th	165	1		0.15	0.15	ppb	8.53	1000	
238 U	165	1		0.00	0.00	ppb	25.79	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	380373	0.78	399164	95.3	30 ~ 120	
45 Sc	1	911770	1.04	940817	96.9	30 ~ 120	
72 Ge	1	519249	0.73	543541	95.5	30 ~ 120	
115 In	1	1724932	1.14	1769666	97.5	30 ~ 120	
165 Ho	1	4028099	0.29	4052095	99.4	30 ~ 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\021SMPL.D\021SMPL.D#
 Date Acquired: Jul 7 2009 07:21 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 3
 Misc Info: IDL 3
 Vial Number: 2203
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr	Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1			0.00	0.00	ppb	0.00	3600	
51 V	72	1			-0.03	-0.03	ppb	36.00	3600	
52 Cr	72	1			0.07	0.07	ppb	28.56	3600	
55 Mn	72	1			0.01	0.01	ppb	52.10	3600	
59 Co	72	1			0.00	0.00	ppb	355.28	3600	
60 Ni	72	1			0.01	0.01	ppb	40.66	3600	
63 Cu	72	1			0.02	0.02	ppb	44.24	3600	
66 Zn	72	1			0.26	0.26	ppb	8.74	3600	
75 As	72	1			0.01	0.01	ppb	60.02	3600	
78 Se	72	1			-0.04	-0.04	ppb	585.23	3600	
95 Mo	72	1			0.03	0.03	ppb	22.63	3600	
107 Ag	115	1			0.00	0.00	ppb	178.94	3600	
111 Cd	115	1			0.00	0.00	ppb	352.78	3600	
118 Sn	115	1			0.08	0.08	ppb	24.98	3600	
121 Sb	115	1			0.03	0.03	ppb	8.44	3600	
137 Ba	115	1			0.00	0.00	ppb	67.24	3600	
205 Tl	165	1			0.01	0.01	ppb	19.44	3600	
208 Pb	165	1			0.01	0.01	ppb	13.68	3600	
232 Th	165	1			0.08	0.08	ppb	3.77	1000	
238 U	165	1			0.00	0.00	ppb	12.12	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	382171	0.47	399164	95.7	30 - 120	
45 Sc	1	913266	0.67	940817	97.1	30 - 120	
72 Ge	1	522994	0.15	543541	96.2	30 - 120	
115 In	1	1746978	0.26	1769666	98.7	30 - 120	
165 Ho	1	4035614	0.63	4052095	99.6	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\022SMPL.D\022SMPL.D#
 Date Acquired: Jul 7 2009 07:24 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 4
 Misc Info: IDL 4
 Vial Number: 2204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		0.02	0.02	ppb	152.96	3600	
52 Cr	72	1		0.06	0.06	ppb	24.25	3600	
55 Mn	72	1		0.00	0.00	ppb	144.92	3600	
59 Co	72	1		0.00	0.00	ppb	1117.00	3600	
60 Ni	72	1		0.01	0.01	ppb	53.84	3600	
63 Cu	72	1		0.01	0.01	ppb	130.03	3600	
66 Zn	72	1		0.16	0.16	ppb	19.17	3600	
75 As	72	1		0.01	0.01	ppb	137.11	3600	
78 Se	72	1		0.08	0.08	ppb	286.30	3600	
95 Mo	72	1		0.03	0.03	ppb	66.91	3600	
107 Ag	115	1		0.04	0.04	ppb	167.18	3600	
111 Cd	115	1		0.00	0.00	ppb	1323.30	3600	
118 Sn	115	1		0.07	0.07	ppb	30.62	3600	
121 Sb	115	1		0.02	0.02	ppb	25.73	3600	
137 Ba	115	1		0.00	0.00	ppb	126.77	3600	
205 Tl	165	1		0.00	0.00	ppb	17.01	3600	
208 Pb	165	1		0.01	0.01	ppb	11.23	3600	
232 Th	165	1		0.05	0.05	ppb	3.48	1000	
238 U	165	1		0.00	0.00	ppb	41.01	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	380990	0.19	399164	95.4	30 - 120	
45 Sc	1	921642	0.31	940817	98.0	30 - 120	
72 Ge	1	522994	0.54	543541	96.2	30 - 120	
115 In	1	1746663	0.41	1769666	98.7	30 - 120	
165 Ho	1	4031298	0.35	4052095	99.5	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\023SMPL.D\023SMPL.D#
 Date Acquired: Jul 7 2009 07:27 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 5
 Misc Info: IDL 5
 Vial Number: 2205
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.03	-0.03	ppb	69.22	3600	
52 Cr	72	1		0.06	0.06	ppb	39.69	3600	
55 Mn	72	1		0.01	0.01	ppb	116.00	3600	
59 Co	72	1		0.00	0.00	ppb	153.25	3600	
60 Ni	72	1		0.01	0.01	ppb	36.95	3600	
63 Cu	72	1		0.03	0.03	ppb	48.62	3600	
66 Zn	72	1		0.38	0.38	ppb	10.97	3600	
75 As	72	1		0.01	0.01	ppb	58.58	3600	
78 Se	72	1		0.14	0.14	ppb	113.36	3600	
95 Mo	72	1		0.02	0.02	ppb	9.44	3600	
107 Ag	115	1		0.00	0.00	ppb	49.32	3600	
111 Cd	115	1		0.00	0.00	ppb	66.69	3600	
118 Sn	115	1		0.05	0.05	ppb	18.47	3600	
121 Sb	115	1		0.01	0.01	ppb	39.88	3600	
137 Ba	115	1		0.04	0.04	ppb	25.01	3600	
205 Tl	165	1		0.00	0.00	ppb	42.60	3600	
208 Pb	165	1		0.00	0.00	ppb	11.74	3600	
232 Th	165	1		0.03	0.03	ppb	10.68	1000	
238 U	165	1		0.00	0.00	ppb	43.23	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	381108	1.08	399164	95.5	30 - 120	
45 Sc	1	917609	0.68	940817	97.5	30 - 120	
72 Ge	1	526581	0.40	543541	96.9	30 - 120	
115 In	1	1753078	0.65	1769666	99.1	30 - 120	
165 Ho	1	4051353	0.90	4052095	100.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\024SMPL.D\024SMPL.D#
 Date Acquired: Jul 7 2009 07:30 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 6
 Misc Info: IDL 6
 Vial Number: 2206
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.03	-0.03	ppb	46.47	3600	
52 Cr	72	1		0.04	0.04	ppb	30.72	3600	
55 Mn	72	1		0.01	0.01	ppb	69.39	3600	
59 Co	72	1		0.00	0.00	ppb	147.86	3600	
60 Ni	72	1		0.00	0.00	ppb	209.95	3600	
63 Cu	72	1		0.00	0.00	ppb	636.32	3600	
66 Zn	72	1		0.12	0.12	ppb	19.15	3600	
75 As	72	1		0.01	0.01	ppb	57.82	3600	
78 Se	72	1		-0.14	-0.14	ppb	174.84	3600	
95 Mo	72	1		0.02	0.02	ppb	42.62	3600	
107 Ag	115	1		0.00	0.00	ppb	112.75	3600	
111 Cd	115	1		0.00	0.00	ppb	155.48	3600	
118 Sn	115	1		0.03	0.03	ppb	40.76	3600	
121 Sb	115	1		0.01	0.01	ppb	30.69	3600	
137 Ba	115	1		0.00	0.00	ppb	630.14	3600	
205 Tl	165	1		0.00	0.00	ppb	28.37	3600	
208 Pb	165	1		0.01	0.01	ppb	14.13	3600	
232 Th	165	1		0.02	0.02	ppb	13.98	1000	
238 U	165	1		0.00	0.00	ppb	61.03	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	379484	0.58	399164	95.1	30 - 120	
45 Sc	1	919710	0.59	940817	97.8	30 - 120	
72 Ge	1	529558	0.14	543541	97.4	30 - 120	
115 In	1	1740330	0.31	1769666	98.3	30 - 120	
165 Ho	1	4028294	0.54	4052095	99.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\025SMPL.D\025SMPL.D#
 Date Acquired: Jul 7 2009 07:32 pm
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: IDL 7
 Misc Info: IDL 7
 Vial Number: 2207
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 07 2009 06:35 pm
 Sample Type: SA
 Dilution Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-0.02	-0.02	ppb	66.88	3600	
52 Cr	72	1		0.09	0.09	ppb	22.46	3600	
55 Mn	72	1		0.01	0.01	ppb	119.57	3600	
59 Co	72	1		0.00	0.00	ppb	26.53	3600	
60 Ni	72	1		0.01	0.01	ppb	81.48	3600	
63 Cu	72	1		0.01	0.01	ppb	162.49	3600	
66 Zn	72	1		0.46	0.46	ppb	7.54	3600	
75 As	72	1		0.00	0.00	ppb	826.57	3600	
78 Se	72	1		0.10	0.10	ppb	199.05	3600	
95 Mo	72	1		0.03	0.03	ppb	36.36	3600	
107 Ag	115	1		0.00	0.00	ppb	86.85	3600	
111 Cd	115	1		0.00	0.00	ppb	439.55	3600	
118 Sn	115	1		0.07	0.07	ppb	34.83	3600	
121 Sb	115	1		0.01	0.01	ppb	25.15	3600	
137 Ba	115	1		0.01	0.01	ppb	107.25	3600	
205 Tl	165	1		0.00	0.00	ppb	136.49	3600	
208 Pb	165	1		0.00	0.00	ppb	56.94	3600	
232 Th	165	1		0.02	0.02	ppb	11.50	1000	
238 U	165	1		0.00	0.00	ppb	52.38	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	382232	0.33	399164	95.8	30 - 120	
45 Sc	1	914289	2.86	940817	97.2	30 - 120	
72 Ge	1	528909	0.57	543541	97.3	30 - 120	
115 In	1	1760439	0.96	1769666	99.5	30 - 120	
165 Ho	1	4061949	1.79	4052095	100.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\026_CCV.D\026_CCV.D#
 Date Acquired: Jul 7 2009 07:35 pm
 Operator: TEL
 Sample Name: CCV
 QC Summary:
 Sample Type: CCV
 ISTD: Pass
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	49.11	ppb	1.59	50	98.2	90 - 110
51 V	72		1	49.65	ppb	0.84	50	99.3	90 - 110
52 Cr	72		1	49.85	ppb	0.52	50	99.7	90 - 110
55 Mn	72		1	50.18	ppb	0.98	50	100.4	90 - 110
59 Co	72		1	49.63	ppb	0.79	50	99.3	90 - 110
60 Ni	72		1	50.44	ppb	0.39	50	100.9	90 - 110
63 Cu	72		1	49.99	ppb	0.78	50	100.0	90 - 110
66 Zn	72		1	50.56	ppb	0.39	50	101.1	90 - 110
75 As	72		1	50.04	ppb	0.28	50	100.1	90 - 110
78 Se	72		1	51.86	ppb	3.17	50	103.7	90 - 110
95 Mo	72		1	50.35	ppb	0.60	50	100.7	90 - 110
107 Ag	115		1	50.41	ppb	1.84	50	100.8	90 - 110
111 Cd	115		1	50.40	ppb	1.73	50	100.8	90 - 110
118 Sn	115		1	50.13	ppb	1.43	50	100.3	90 - 110
121 Sb	115		1	50.25	ppb	1.11	50	100.5	90 - 110
137 Ba	115		1	50.69	ppb	1.75	50	101.4	90 - 110
205 Tl	165		1	50.76	ppb	0.57	50	101.5	90 - 110
208 Pb	165		1	50.43	ppb	0.52	50	100.9	90 - 110
232 Th	165		1	50.82	ppb	2.31	50	101.6	90 - 110
238 U	165		1	51.44	ppb	0.54	50	102.9	90 - 110

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	371672	0.71	399164	93.1	30 - 120	
45 Sc	1	912752	0.78	940817	97.0	30 - 120	
72 Ge	1	522215	0.41	543541	96.1	30 - 120	
115 In	1	1743103	0.73	1769666	98.5	30 - 120	
165 Ho	1	4005312	0.25	4052095	98.8	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\027_CCB.D\027_CCB.D#
 Date Acquired: Jul 7 2009 07:38 pm
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.015 ppb	86.57	1.00	
51 V	72	1		0.000 ppb	19711.00	1.00	
52 Cr	72	1		-0.001 ppb	6169.20	1.00	
55 Mn	72	1		0.001 ppb	190.49	1.00	
59 Co	72	1		0.008 ppb	39.18	1.00	
60 Ni	72	1		0.019 ppb	96.35	1.00	
63 Cu	72	1		-0.005 ppb	50.33	1.00	
66 Zn	72	1		0.021 ppb	90.07	1.00	
75 As	72	1		0.019 ppb	36.03	1.00	
78 Se	72	1		0.143 ppb	130.86	1.00	
95 Mo	72	1		0.058 ppb	40.81	1.00	
107 Ag	115	1		0.007 ppb	31.96	1.00	
111 Cd	115	1		0.005 ppb	147.19	1.00	
118 Sn	115	1		0.092 ppb	9.40	1.00	
121 Sb	115	1		0.047 ppb	17.39	1.00	
137 Ba	115	1		0.007 ppb	25.78	1.00	
205 Tl	165	1		0.027 ppb	8.32	1.00	
208 Pb	165	1		0.004 ppb	29.24	1.00	
232 Th	165	1		1.122 ppb	18.47	1.00	
238 U	165	1		0.009 ppb	11.87	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	372423	1.23	399164	93.3	30 - 120	
45 Sc	1	912447	0.67	940817	97.0	30 - 120	
72 Ge	1	523888	0.45	543541	96.4	30 - 120	
115 In	1	1734442	0.69	1769666	98.0	30 - 120	
165 Ho	1	3981000	0.53	4052095	98.2	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\028WASH.D\028WASH.D#
 Date Acquired: Jul 7 2009 07:41 pm
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 07 2009 06:35 pm
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.085 ppb	15.68	1.30	
51 V	72	1		5.132 ppb	0.96	6.50	
52 Cr	72	1		2.054 ppb	3.48	2.60	
55 Mn	72	1		1.017 ppb	4.38	1.30	
59 Co	72	1		1.024 ppb	2.60	1.30	
60 Ni	72	1		2.076 ppb	8.39	2.60	
63 Cu	72	1		2.034 ppb	0.60	2.60	
66 Zn	72	1		10.510 ppb	1.39	13.00	
75 As	72	1		5.147 ppb	1.98	6.50	
78 Se	72	1		4.531 ppb	13.79	6.50	
95 Mo	72	1		2.009 ppb	2.89	2.60	
107 Ag	115	1		5.317 ppb	1.44	6.50	
111 Cd	115	1		1.104 ppb	9.81	1.30	
118 Sn	115	1		10.490 ppb	2.91	13.00	
121 Sb	115	1		1.965 ppb	2.52	2.60	
137 Ba	115	1		1.095 ppb	3.49	1.30	
205 Tl	165	1		1.097 ppb	0.49	1.30	
208 Pb	165	1		1.060 ppb	0.29	1.30	
232 Th	165	1		2.347 ppb	1.47	2.60	
238 U	165	1		1.092 ppb	1.22	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	372721	0.46	399164	93.4	30 - 120	
45 Sc	1	900076	1.60	940817	95.7	30 - 120	
72 Ge	1	524566	0.72	543541	96.5	30 - 120	
115 In	1	1735347	1.19	1769666	98.1	30 - 120	
165 Ho	1	4009833	0.10	4052095	99.0	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

... "During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: R. J. H.

Date: 7/8/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#
 Date Acquired: Jul 8 2009 12:34 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:32 am
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS	Mean	RSD(%)
9	Be	6	1		0	0.00
51	V	72	1		-108	246.57
52	Cr	72	1		1653	5.08
55	Mn	72	1		180	17.07
59	Co	72	1		53	59.97
60	Ni	72	1		60	49.96
63	Cu	72	1		533	20.71
66	Zn	72	1		196	14.00
75	As	72	1		38	45.31
78	Se	72	1		217	11.91
95	Mo	72	1		320	5.86
107	Ag	115	1		27	57.06
111	Cd	115	1		9	94.56
118	Sn	115	1		363	7.25
121	Sb	115	1		31	53.98
137	Ba	115	1		28	24.75
205	Tl	165	1		36	19.54
208	Pb	165	1		318	9.95
232	Th	165	1		933	10.49
238	U	165	1		32	6.43

Internal Standard Elements

Element	Tune	CPS	Mean	RSD(%)
6	Li	1	359710	0.64
45	Sc	1	999296	0.68
72	Ge	1	590607	0.42
115	In	1	1756110	0.38
165	Ho	1	3599124	0.59

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\135ICAL.D\135ICAL.D#
 Date Acquired: Jul 8 2009 12:37 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:35 am
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD (%)
9 Be	6	1	42456	0.79
51 V	72	1	677901	0.51
52 Cr	72	1	771532	0.97
55 Mn	72	1	701977	0.22
59 Co	72	1	1096247	1.62
60 Ni	72	1	262850	0.23
63 Cu	72	1	658157	0.06
66 Zn	72	1	119936	0.74
75 As	72	1	80646	0.43
78 Se	72	1	11832	3.06
95 Mo	72	1	303504	0.38
107 Ag	115	1	975217	1.48
111 Cd	115	1	166334	0.80
118 Sn	115	1	422146	0.57
121 Sb	115	1	468819	1.26
137 Ba	115	1	186995	0.82
205 Tl	165	1	1941640	2.52
208 Pb	165	1	2617843	1.23
232 Th	165	1	2474288	4.07
238 U	165	1	2935507	0.82

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	357075	1.18	359710	99.3	30 - 120	
45 Sc	1	1009477	1.71	999296	101.0	30 - 120	
72 Ge	1	575763	0.70	590607	97.5	30 - 120	
115 In	1	1747144	0.55	1756110	99.5	30 - 120	
165 Ho	1	3577226	0.83	3599124	99.4	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\136_CCV.D\136_CCV.D#
 Date Acquired: Jul 8 2009 12:39 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		50.03 ppb	0.56	50	100.1	90 - 110	
51 V	72	1		49.80 ppb	0.84	50	99.6	90 - 110	
52 Cr	72	1		48.81 ppb	0.12	50	97.6	90 - 110	
55 Mn	72	1		49.22 ppb	0.79	50	98.4	90 - 110	
59 Co	72	1		48.81 ppb	0.80	50	97.6	90 - 110	
60 Ni	72	1		49.71 ppb	0.88	50	99.4	90 - 110	
63 Cu	72	1		49.20 ppb	0.30	50	98.4	90 - 110	
66 Zn	72	1		50.04 ppb	1.12	50	100.1	90 - 110	
75 As	72	1		49.55 ppb	0.66	50	99.1	90 - 110	
78 Se	72	1		48.70 ppb	7.53	50	97.4	90 - 110	
95 Mo	72	1		49.10 ppb	0.65	50	98.2	90 - 110	
107 Ag	115	1		49.02 ppb	1.24	50	98.0	90 - 110	
111 Cd	115	1		48.83 ppb	0.79	50	97.7	90 - 110	
118 Sn	115	1		49.21 ppb	0.47	50	98.4	90 - 110	
121 Sb	115	1		48.89 ppb	1.07	50	97.8	90 - 110	
137 Ba	115	1		49.18 ppb	0.88	50	98.4	90 - 110	
205 Tl	165	1		49.43 ppb	0.66	50	98.9	90 - 110	
208 Pb	165	1		49.64 ppb	0.67	50	99.3	90 - 110	
232 Th	165	1		51.45 ppb	2.27	50	102.9	90 - 110	
238 U	165	1		49.34 ppb	1.31	50	98.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	348155	0.34	359710	96.8	30 - 120	
45 Sc	1	976535	2.40	999296	97.7	30 - 120	
72 Ge	1	566977	0.68	590607	96.0	30 - 120	
115 In	1	1731189	0.46	1756110	98.6	30 - 120	
165 Ho	1	3536295	0.16	3599124	98.3	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\137_CCB.D\137_CCB.D#
 Date Acquired: Jul 8 2009 12:42 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.024 ppb	99.58	1.00	
51 V	72	1		0.018 ppb	61.07	1.00	
52 Cr	72	1		0.001 ppb	352.73	1.00	
55 Mn	72	1		0.009 ppb	40.91	1.00	
59 Co	72	1		0.004 ppb	59.53	1.00	
60 Ni	72	1		0.011 ppb	122.18	1.00	
63 Cu	72	1		-0.021 ppb	21.33	1.00	
66 Zn	72	1		0.001 ppb	4545.90	1.00	
75 As	72	1		0.007 ppb	98.54	1.00	
78 Se	72	1		-0.199 ppb	427.62	1.00	
95 Mo	72	1		-0.036 ppb	15.25	1.00	
107 Ag	115	1		0.005 ppb	44.75	1.00	
111 Cd	115	1		0.002 ppb	424.36	1.00	
118 Sn	115	1		0.109 ppb	9.40	1.00	
121 Sb	115	1		0.074 ppb	8.54	1.00	
137 Ba	115	1		0.002 ppb	210.19	1.00	
205 Tl	165	1		0.040 ppb	5.51	1.00	
208 Pb	165	1		0.004 ppb	85.66	1.00	
232 Th	165	1		1.629 ppb	17.97	1.00	
238 U	165	1		0.015 ppb	10.32	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	350828	0.66	359710	97.5	30 - 120	
45 Sc	1	973486	2.25	999296	97.4	30 - 120	
72 Ge	1	570555	0.38	590607	96.6	30 - 120	
115 In	1	1720156	0.91	1756110	98.0	30 - 120	
165 Ho	1	3509645	0.62	3599124	97.5	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\138WASH.D\138WASH.D#
 Date Acquired: Jul 8 2009 12:45 am
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.979 ppb	34.30	1.30	
51 V	72	1		5.068 ppb	3.72	6.50	
52 Cr	72	1		2.018 ppb	2.07	2.60	
55 Mn	72	1		1.014 ppb	4.96	1.30	
59 Co	72	1		0.964 ppb	1.37	1.30	
60 Ni	72	1		2.014 ppb	1.39	2.60	
63 Cu	72	1		1.962 ppb	1.29	2.60	
66 Zn	72	1		10.290 ppb	2.60	13.00	
75 As	72	1		4.998 ppb	2.58	6.50	
78 Se	72	1		5.245 ppb	9.66	6.50	
95 Mo	72	1		1.966 ppb	4.66	2.60	
107 Ag	115	1		5.162 ppb	1.02	6.50	
111 Cd	115	1		1.074 ppb	10.21	1.30	
118 Sn	115	1		10.220 ppb	1.85	13.00	
121 Sb	115	1		1.873 ppb	2.04	2.60	
137 Ba	115	1		1.017 ppb	3.52	1.30	
205 Tl	165	1		1.072 ppb	1.31	1.30	
208 Pb	165	1		1.039 ppb	0.84	1.30	
232 Th	165	1		2.457 ppb	2.48	2.60	
238 U	165	1		1.060 ppb	0.72	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	352388	0.22	359710	98.0	30 - 120		
45 Sc	1	974978	1.17	999296	97.6	30 - 120		
72 Ge	1	572889	0.46	590607	97.0	30 - 120		
115 In	1	1728325	1.17	1756110	98.4	30 - 120		
165 Ho	1	3531685	0.46	3599124	98.1	30 - 120		

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\170_CCV.D\170_CCV.D#
 Date Acquired: Jul 8 2009 02:13 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6	1		52.25 ppb	2.31	50	104.5	90 - 110	
51 V	72	1		48.28 ppb	0.15	50	96.6	90 - 110	
52 Cr	72	1		47.98 ppb	0.91	50	96.0	90 - 110	
55 Mn	72	1		48.02 ppb	0.49	50	96.0	90 - 110	
59 Co	72	1		47.40 ppb	0.99	50	94.8	90 - 110	
60 Ni	72	1		48.09 ppb	0.72	50	96.2	90 - 110	
63 Cu	72	1		48.41 ppb	0.48	50	96.8	90 - 110	
66 Zn	72	1		51.25 ppb	0.79	50	102.5	90 - 110	
75 As	72	1		51.11 ppb	0.68	50	102.2	90 - 110	
78 Se	72	1		47.31 ppb	1.42	50	94.6	90 - 110	
95 Mo	72	1		49.09 ppb	0.32	50	98.2	90 - 110	
107 Ag	115	1		49.14 ppb	1.32	50	98.3	90 - 110	
111 Cd	115	1		50.26 ppb	0.53	50	100.5	90 - 110	
118 Sn	115	1		50.08 ppb	0.55	50	100.2	90 - 110	
121 Sb	115	1		52.86 ppb	0.74	50	105.7	90 - 110	
137 Ba	115	1		50.79 ppb	0.56	50	101.6	90 - 110	
205 Tl	165	1		49.91 ppb	1.62	50	99.8	90 - 110	
208 Pb	165	1		50.25 ppb	1.06	50	100.5	90 - 110	
232 Th	165	1		52.19 ppb	2.46	50	104.4	90 - 110	
238 U	165	1		50.74 ppb	1.41	50	101.5	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	297820	1.09	359710	82.8	30 - 120	
45 Sc	1	821190	0.56	999296	82.2	30 - 120	
72 Ge	1	496911	0.76	590607	84.1	30 - 120	
115 In	1	1472311	0.13	1756110	83.8	30 - 120	
165 Ho	1	3081621	0.70	3599124	85.6	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\171_CCB.D\171_CCB.D#
 Date Acquired: Jul 8 2009 02:16 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.009 ppb	173.25	1.00	
51 V	72	1		-0.013 ppb	179.76	1.00	
52 Cr	72	1		0.003 ppb	753.01	1.00	
55 Mn	72	1		0.022 ppb	41.71	1.00	
59 Co	72	1		0.005 ppb	45.50	1.00	
60 Ni	72	1		0.003 ppb	613.52	1.00	
63 Cu	72	1		-0.010 ppb	29.29	1.00	
66 Zn	72	1		0.013 ppb	30.26	1.00	
75 As	72	1		0.000 ppb	1972.40	1.00	
78 Se	72	1		0.083 ppb	601.56	1.00	
95 Mo	72	1		-0.048 ppb	23.13	1.00	
107 Ag	115	1		0.006 ppb	71.17	1.00	
111 Cd	115	1		0.020 ppb	73.98	1.00	
118 Sn	115	1		0.082 ppb	37.20	1.00	
121 Sb	115	1		0.080 ppb	18.41	1.00	
137 Ba	115	1		0.002 ppb	137.02	1.00	
205 Tl	165	1		0.029 ppb	15.84	1.00	
208 Pb	165	1		0.004 ppb	61.81	1.00	
232 Th	165	1		1.587 ppb	15.59	1.00	
238 U	165	1		0.015 ppb	17.02	1.00	Fail

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	311145	0.41	359710	86.5	30 - 120		
45 Sc	1	865887	2.51	999296	86.6	30 - 120		
72 Ge	1	521021	0.41	590607	88.2	30 - 120		
115 In	1	1566375	1.62	1756110	89.2	30 - 120		
165 Ho	1	3235774	0.99	3599124	89.9	30 - 120		

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\172WASH.D\172WASH.D#
 Date Acquired: Jul 8 2009 02:19 am
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.108 ppb	11.14	1.30	
51 V	72	1		4.987 ppb	2.20	6.50	
52 Cr	72	1		2.019 ppb	0.87	2.60	
55 Mn	72	1		1.026 ppb	4.94	1.30	
59 Co	72	1		0.990 ppb	1.52	1.30	
60 Ni	72	1		1.993 ppb	4.57	2.60	
63 Cu	72	1		2.003 ppb	0.52	2.60	
66 Zn	72	1		10.600 ppb	0.57	13.00	
75 As	72	1		5.166 ppb	2.10	6.50	
78 Se	72	1		5.617 ppb	6.11	6.50	
95 Mo	72	1		1.915 ppb	2.54	2.60	
107 Ag	115	1		5.106 ppb	0.39	6.50	
111 Cd	115	1		1.021 ppb	4.92	1.30	
118 Sn	115	1		10.420 ppb	0.80	13.00	
121 Sb	115	1		1.987 ppb	4.16	2.60	
137 Ba	115	1		1.085 ppb	5.30	1.30	
205 Tl	165	1		1.081 ppb	1.19	1.30	
208 Pb	165	1		1.061 ppb	1.33	1.30	
232 Th	165	1		2.515 ppb	1.76	2.60	
238 U	165	1		1.093 ppb	1.74	1.30	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	316333	0.07	359710	87.9	30 - 120		
45 Sc	1	887198	0.56	999296	88.8	30 - 120		
72 Ge	1	530843	0.48	590607	89.9	30 - 120		
115 In	1	1618138	0.95	1756110	92.1	30 - 120		
165 Ho	1	3373797	0.53	3599124	93.7	30 - 120		

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\173_BLK.D\173_BLK.D#
 Date Acquired: Jul 8 2009 02:22 am
 Operator: TEL
 Sample Name: LF30GBF
 Misc Info: BLANK 9187175 6020
 Vial Number: 3407
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: BLK
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.009 ppb	173.20	2.00	
51 V	72	1		0.016 ppb	193.58	2.00	
52 Cr	72	1		-0.017 ppb	101.97	2.00	
55 Mn	72	1		0.015 ppb	39.29	2.00	
59 Co	72	1		-0.002 ppb	61.70	2.00	
60 Ni	72	1		0.017 ppb	28.07	2.00	
63 Cu	72	1		0.016 ppb	65.20	2.00	
66 Zn	72	1		0.287 ppb	11.22	2.00	
75 As	72	1		0.000 ppb	600.84	2.00	
78 Se	72	1		-0.429 ppb	19.76	2.00	
95 Mo	72	1		-0.082 ppb	4.37	2.00	
107 Ag	115	1		0.002 ppb	2.08	2.00	
111 Cd	115	1		0.002 ppb	233.83	2.00	
118 Sn	115	1		0.041 ppb	43.39	2.00	
121 Sb	115	1		0.037 ppb	22.69	2.00	
137 Ba	115	1		0.008 ppb	21.06	2.00	
205 Tl	165	1		0.018 ppb	19.84	2.00	
208 Pb	165	1		0.070 ppb	8.60	2.00	
232 Th	165	1		0.117 ppb	17.60	2.00	
238 U	165	1		0.002 ppb	24.74	2.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	312470	0.98	359710	86.9	30 - 120		
45 Sc	1	890718	0.47	999296	89.1	30 - 120		
72 Ge	1	534914	0.67	590607	90.6	30 - 120		
115 In	1	1609641	0.81	1756110	91.7	30 - 120		
165 Ho	1	3377369	1.08	3599124	93.8	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\174_LCS.D\174_LCS.D#
 Date Acquired: Jul 8 2009 02:25 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF30GCF
 Misc Info: LCS
 Vial Number: 3408
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: LCS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS	Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		43.71	2.91	40	109.3	80 - 120	
51 V	72	1		40.21	0.96	40	100.5	80 - 120	
52 Cr	72	1		40.76	0.52	40	101.9	80 - 120	
55 Mn	72	1		40.91	0.49	40	102.3	80 - 120	
59 Co	72	1		40.46	0.50	40	101.2	80 - 120	
60 Ni	72	1		40.74	0.86	40	101.9	80 - 120	
63 Cu	72	1		41.20	1.05	40	103.0	80 - 120	
66 Zn	72	1		43.82	0.87	40	109.6	80 - 120	
75 As	72	1		42.53	0.80	40	106.3	80 - 120	
78 Se	72	1		44.13	6.30	40	110.3	80 - 120	
95 Mo	72	1		41.94	0.76	40	104.9	80 - 120	
107 Ag	115	1		41.04	0.30	40	102.6	80 - 120	
111 Cd	115	1		41.99	0.31	40	105.0	80 - 120	
118 Sn	115	1		0.09	3.85	40	0.2	80 - 120	
121 Sb	115	1		42.29	0.73	40	105.7	80 - 120	
137 Ba	115	1		42.00	0.38	40	105.0	80 - 120	
205 Tl	165	1		42.77	1.11	40	106.9	80 - 120	
208 Pb	165	1		43.10	1.20	40	107.8	80 - 120	
232 Th	165	1		41.54	2.51	40	103.9	80 - 120	
238 U	165	1		43.86	1.68	40	109.7	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	310470	1.14	359710	86.3	30 - 120	
45 Sc	1	869016	0.47	999296	87.0	30 - 120	
72 Ge	1	515847	0.72	590607	87.3	30 - 120	
115 In	1	1617308	1.07	1756110	92.1	30 - 120	
165 Ho	1	3378777	0.93	3599124	93.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\175SMPL.D\175SMPL.D#
 Date Acquired: Jul 8 2009 02:27 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T5F 10X
 Misc Info: D9G020221
 Vial Number: 3409
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		27.07	2.71	ppb	2.42	3600	
52 Cr	72	1		35.58	3.56	ppb	1.14	3600	
55 Mn	72	1		19.49	1.95	ppb	4.84	3600	
59 Co	72	1		0.64	0.06	ppb	23.42	3600	
60 Ni	72	1		2.82	0.28	ppb	22.12	3600	
63 Cu	72	1		0.50	0.05	ppb	7.45	3600	
66 Zn	72	1		1.07	0.11	ppb	26.36	3600	
75 As	72	1		154.50	15.45	ppb	0.76	3600	
78 Se	72	1		-0.09	-0.01	ppb	4730.40	3600	
95 Mo	72	1		30.17	3.02	ppb	1.71	3600	
107 Ag	115	1		0.06	0.01	ppb	88.96	3600	
111 Cd	115	1		0.08	0.01	ppb	139.88	3600	
118 Sn	115	1		-0.12	-0.01	ppb	38.81	3600	
121 Sb	115	1		0.68	0.07	ppb	7.31	3600	
137 Ba	115	1		34.70	3.47	ppb	2.00	3600	
205 Tl	165	1		0.75	0.08	ppb	6.93	3600	
208 Pb	165	1		0.09	0.01	ppb	16.66	3600	
232 Th	165	1		14.75	1.48	ppb	16.90	1000	
238 U	165	1		53.47	5.35	ppb	1.31	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	305670	1.08	359710	85.0	30 - 120	
45 Sc	1	855518	1.05	999296	85.6	30 - 120	
72 Ge	1	502137	0.59	590607	85.0	30 - 120	
115 In	1	1525563	0.50	1756110	86.9	30 - 120	
165 Ho	1	3233358	1.02	3599124	89.8	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\176AREF.D\176AREF.D#
 Date Acquired: Jul 8 2009 02:30 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1WAF 10X
 Misc Info: D9G020227
 Vial Number: 3410
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: AllRef
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		0.00	0.00	ppb	0.00	3600	
51 V	72	1		-243.20	-24.32	ppb	14.30	3600	
52 Cr	72	1		10,060.00	1006.00	ppb	1.32	3600	
55 Mn	72	1		2.09	0.21	ppb	11.67	3600	
59 Co	72	1		0.49	0.05	ppb	21.48	3600	
60 Ni	72	1		1.79	0.18	ppb	9.91	3600	
63 Cu	72	1		0.68	0.07	ppb	23.73	3600	
66 Zn	72	1		1.27	0.13	ppb	13.90	3600	
75 As	72	1		748.60	74.86	ppb	0.91	3600	
78 Se	72	1		-0.22	-0.02	ppb	1295.20	3600	
95 Mo	72	1		47.17	4.72	ppb	3.51	3600	
107 Ag	115	1		0.13	0.01	ppb	43.50	3600	
111 Cd	115	1		0.01	0.00	ppb	1569.70	3600	
118 Sn	115	1		-0.04	0.00	ppb	295.47	3600	
121 Sb	115	1		0.68	0.07	ppb	9.26	3600	
137 Ba	115	1		16.07	1.61	ppb	0.97	3600	
205 Tl	165	1		0.19	0.02	ppb	9.45	3600	
208 Pb	165	1		0.05	0.00	ppb	28.89	3600	
232 Th	165	1		4.37	0.44	ppb	11.63	1000	
238 U	165	1		34.87	3.49	ppb	1.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	292204	0.60	359710	81.2	30 - 120	
45 Sc	1	798598	0.22	999296	79.9	30 - 120	
72 Ge	1	469323	0.66	590607	79.5	30 - 120	
115 In	1	1402216	0.73	1756110	79.8	30 - 120	
165 Ho	1	3007910	0.68	3599124	83.6	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\177SDIL.D\177SDIL.D#

Date Acquired: Jul 8 2009 02:33 am

Acq. Method: NormISIS.M

Operator: TEL

Sample Name: LF1WAP50F

Misc Info: SERIAL DILUTION

Vial Number: 3411

Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M

Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C

Last Cal. Update: Jul 08 2009 12:37 am

Sample Type: SDIL

Dilution Factor: 10.00

QC Summary:**Analytes: Pass****ISTD: Pass**

Dilution Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\176AREF.D\176AREF.D#

QC elements

Element	IS	Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC	Range(%)	Flag
9 Be	6	1		0.00 ppb	0.00	0.00	#DIV/0!	90	-	110
51 V	72	1		-1.38 ppb	52.12	-4.86	28.5	90	-	110
52 Cr	72	1		206.70 ppb	0.94	201.20	102.7	90	-	110
55 Mn	72	1		0.07 ppb	21.68	0.04	158.1	90	-	110
59 Co	72	1		0.01 ppb	44.53	0.01	128.0	90	-	110
60 Ni	72	1		0.18 ppb	3.53	0.04	507.0	90	-	110
63 Cu	72	1		0.02 ppb	63.64	0.01	125.0	90	-	110
66 Zn	72	1		0.09 ppb	5.33	0.03	342.1	90	-	110
75 As	72	1		14.28 ppb	0.31	14.97	95.4	90	-	110
78 Se	72	1		-0.57 ppb	89.60	0.00	12705.7	90	-	110
95 Mo	72	1		0.89 ppb	3.87	0.94	93.9	90	-	110
107 Ag	115	1		0.00 ppb	60.93	0.00	179.7	90	-	110
111 Cd	115	1		0.00 ppb	301.38	0.00	-2239.2	90	-	110
118 Sn	115	1		0.01 ppb	88.94	0.00	-1832.6	90	-	110
121 Sb	115	1		0.01 ppb	23.30	0.01	108.0	90	-	110
137 Ba	115	1		0.31 ppb	3.06	0.32	96.8	90	-	110
205 Tl	165	1		0.01 ppb	12.17	0.00	136.5	90	-	110
208 Pb	165	1		0.00 ppb	662.23	0.00	41.1	90	-	110
232 Th	165	1		0.13 ppb	12.39	0.09	145.4	90	-	110
238 U	165	1		0.70 ppb	1.15	0.70	99.9	90	-	110

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC	Range(%)	Flag
6 Li	1	305980	0.72	359710	85.1	30	-	120
45 Sc	1	813394	0.50	999296	81.4	30	-	120
72 Ge	1	488705	0.23	590607	82.7	30	-	120
115 In	1	1498043	1.32	1756110	85.3	30	-	120
165 Ho	1	3190430	0.79	3599124	88.6	30	-	120

Tune File# 1 c:\icpcchem\1\7500\he.u

Tune File# 2 C:\ICPCHEM\1\7500\

Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures

0 :Max. Number of Failures Allowed

0 :ISTD Failures

0 :Max. Number of ISTD Failures Allowed

Denver

SERIAL DILUTION

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:33

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1WAP50F

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500
 File: AG070709B # 177
 Acquired: 07/08/2009 02:33:00
 Calibrated: 07/08/2009 00:34:00

Channel 272
 Method 6020_
 ICPMS_024

Matrix: AQUEOUS
 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9		0	0			*	
7440-62-2	Vanadium	51	-8065	-69.200	-243.20			*	
7440-47-3	Chromium	52	1352420	10335	10060	2.73		*	
7439-96-5	Manganese	55	543	3.3095	2.0930	58.1		*	
7440-48-4	Cobalt	59	160	0.62250	0.48650	28.0		*	
7440-02-0	Nickel	60	453	9.0500	1.7850	407		*	
7440-50-8	Copper	63	537	0.85400	0.68310	25.0		*	
7440-66-6	Zinc	66	251	4.3555	1.2730	242		*	
7440-38-2	Arsenic	75	9804	714.00	748.60	4.62	0.21	4.6	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	123	-28.410	-0.22360		0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	2544	44.275	47.170	6.14		*	
7440-22-4	Silver	107	63	0.24240	0.13490	79.7		*	
7440-43-9	Cadmium	111	4	-0.12280	0.00548	2340		*	
7440-31-5	Tin	118	363	0.73250	-0.03997			*	
7440-36-0	Antimony	121	86	0.73550	0.68100	8.00		*	
7440-39-3	Barium	137	522	15.550	16.070	3.24		*	
7440-28-0	Thallium	205	123	0.26490	0.19410	36.5		*	
7439-92-1	Lead	208	291	0.01991	0.04846	58.9		*	
7440-61-1	Uranium	238	18272	34.840	34.870	0.0860		*	
7440-29-1	Thorium	232	3631	6.3600	4.3740	45.4		*	
7439-93-2	Lithium	6			0			*	
7440-20-2	Scandium	45			0			*	
7440-74-6	Indium	115			0			*	
7440-56-4	Germanium	72			0			*	
7440-60-0	Holmium	165			0			*	

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: LRD

Date: 7/8/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\178PDS.D\178PDS.D#
 Date Acquired: Jul 8 2009 02:36 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1WAZF
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3412
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: PDS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD (%)	Spk Amt	Rec (%)	QC Range (%)	QC Flag
9 Be	6	1		201.20	0.00 ppb	0.25	200	100.6	75 - 125	
51 V	72	1		167.50	-24.32 ppb	4.36	200	95.3	75 - 125	
52 Cr	72	1		1158.00	1006.00 ppb	0.96	200	96.0	75 - 125	
55 Mn	72	1		199.00	0.21 ppb	0.53	200	99.4	75 - 125	
59 Co	72	1		189.10	0.05 ppb	1.23	200	94.5	75 - 125	
60 Ni	72	1		181.90	0.18 ppb	0.33	200	90.9	75 - 125	
63 Cu	72	1		181.90	0.07 ppb	0.91	200	90.9	75 - 125	
66 Zn	72	1		193.70	0.13 ppb	0.42	200	96.8	75 - 125	
75 As	72	1		269.10	74.86 ppb	0.55	200	97.9	75 - 125	
78 Se	72	1		205.60	-0.02 ppb	2.08	200	102.8	75 - 125	
95 Mo	72	1		207.00	4.72 ppb	0.30	200	101.1	75 - 125	
107 Ag	115	1		43.59	0.01 ppb	0.43	50	87.2	75 - 125	
111 Cd	115	1		189.70	0.00 ppb	0.73	200	94.8	75 - 125	
118 Sn	115	1		175.70	0.00 ppb	0.85	200	87.9	75 - 125	
121 Sb	115	1		197.20	0.07 ppb	0.38	200	98.6	75 - 125	
137 Ba	115	1		198.70	1.61 ppb	0.32	200	98.6	75 - 125	
205 Tl	165	1		183.30	0.02 ppb	1.60	200	91.6	75 - 125	
208 Pb	165	1		184.40	0.00 ppb	0.94	200	92.2	75 - 125	
232 Th	165	1		0.10	0.44 ppb	16.57	200	0.1	75 - 125	
238 U	165	1		192.90	3.49 ppb	0.88	200	94.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD (%)	Ref. Counts	Rec (%)	QC Range (%)	QC Flag
6 Li	1	297444	0.90	359710	82.7	30 - 120	
45 Sc	1	818816	0.91	999296	81.9	30 - 120	
72 Ge	1	465209	1.25	590607	78.8	30 - 120	
115 In	1	1448516	1.43	1756110	82.5	30 - 120	
165 Ho	1	3126678	1.34	3599124	86.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Denver

SAMPLE SPIKE

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:37

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1WAZF

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500
 File: AG070709B # 178
 Acquired: 07/08/2009 02:36:00
 Calibrated: 07/08/2009 00:34:00

Channel 272
 Method 6020_
 ICPMS_024

Matrix: AQUEOUS
 Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	71147	201.20	0	101	200	<input checked="" type="checkbox"/>	
7440-62-2	Vanadium	51	917399	167.50	-24.320	83.8	200	<input type="checkbox"/>	
7440-47-3	Chromium	52	7203880	1158.0	1006.0	76.0	200	*	<input type="checkbox"/>
7439-96-5	Manganese	55	1128500	199.00	0.20930	99.4	200	<input checked="" type="checkbox"/>	
7440-48-4	Cobalt	59	1674600	189.10	0.04865	94.5	200	<input type="checkbox"/>	
7440-02-0	Nickel	60	386226	181.90	0.17850	90.9	200	<input checked="" type="checkbox"/>	
7440-50-8	Copper	63	966930	181.90	0.06831	90.9	200	<input type="checkbox"/>	
7440-66-6	Zinc	66	187534	193.70	0.12730	96.8	200	<input type="checkbox"/>	
7440-38-2	Arsenic	75	175287	269.10	74.860	97.1	200	<input checked="" type="checkbox"/>	
7782-49-2	Selenium	78	19481	205.60	-0.02236	103	200	<input checked="" type="checkbox"/>	
7439-98-7	Molybdenum	95	507446	207.00	4.7170	101	200	<input type="checkbox"/>	
7440-22-4	Silver	107	352504	43.590	0.01349	87.2	50.0	<input checked="" type="checkbox"/>	
7440-43-9	Cadmium	111	261645	189.70	0.00055	94.8	200	<input checked="" type="checkbox"/>	
7440-31-5	Tin	118	614805	175.70	-0.00400	87.8	200	<input type="checkbox"/>	
7440-36-0	Antimony	121	766415	197.20	0.06810	98.6	200	<input checked="" type="checkbox"/>	
7440-39-3	Barium	137	308052	198.70	1.6070	98.5	200	<input checked="" type="checkbox"/>	
7440-28-0	Thallium	205	3110570	183.30	0.01941	91.6	200	<input checked="" type="checkbox"/>	
7439-92-1	Lead	208	4219680	184.40	0.00485	92.2	200	<input checked="" type="checkbox"/>	
7440-61-1	Uranium	238	4948960	192.90	3.4870	94.7	200	<input type="checkbox"/>	
7440-29-1	Thorium	232	2987	0.10060	0.43740				
7439-93-2	Lithium	6			0				
7440-20-2	Scandium	45			0				
7440-74-6	Indium	115			0				
7440-56-4	Germanium	72			0				
7440-60-0	Holmium	165			0				

Reviewed by: LRD

Date: 7/8/09

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\179_MS.D\179_MS.D#
Date Acquired: Jul 8 2009 02:38 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: LF1WASF 10X
Misc Info: MATRIX SPIKE
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Jul 08 2009 12:37 am
Sample Type: MS
Prep Dil. Factor: 10.00
Autodil Factor: Undiluted
Final Dil. Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS	Ref	Tune	Conc.	Ref	Conc	RSD(%)	Spk	Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1		3.85		0.00	ppb	10.07	40	9.6	50 - 150	
51 V	72	1		-16.16		-24.32	ppb	25.63	40	-103.1	50 - 150	
52 Cr	72	1		977.90		1006.00	ppb	0.87	40	93.5	50 - 150	
55 Mn	72	1		4.13		0.21	ppb	2.94	40	10.3	50 - 150	
59 Co	72	1		3.88		0.05	ppb	1.59	40	9.7	50 - 150	
60 Ni	72	1		4.13		0.18	ppb	2.80	40	10.3	50 - 150	
63 Cu	72	1		3.84		0.07	ppb	1.54	40	9.6	50 - 150	
66 Zn	72	1		4.09		0.13	ppb	2.91	40	10.2	50 - 150	
75 As	72	1		75.55		74.86	ppb	1.26	40	65.8	50 - 150	
78 Se	72	1		5.18		-0.02	ppb	18.02	40	13.0	50 - 150	
95 Mo	72	1		8.73		4.72	ppb	1.69	40	19.5	50 - 150	
107 Ag	115	1		3.74		0.01	ppb	0.81	40	9.3	50 - 150	
111 Cd	115	1		4.00		0.00	ppb	0.38	40	10.0	50 - 150	
118 Sn	115	1		0.38		0.00	ppb	23.74	40	1.0	50 - 150	
121 Sb	115	1		4.35		0.07	ppb	2.68	40	10.8	50 - 150	
137 Ba	115	1		5.58		1.61	ppb	4.46	40	13.4	50 - 150	
205 Tl	165	1		3.92		0.02	ppb	1.41	40	9.8	50 - 150	
208 Pb	165	1		3.89		0.00	ppb	0.55	40	9.7	50 - 150	
232 Th	165	1		4.08		0.44	ppb	2.39	40	10.1	50 - 150	
238 U	165	1		7.45		3.49	ppb	0.40	40	17.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD (%)	Ref.	Counts	Rec (%)	QC Range (%)	QC Flag
6 Li	1	304405	0.41		359710	84.6	30 - 120	
45 Sc	1	832710	0.88		999296	83.3	30 - 120	
72 Ge	1	474308	0.59		590607	80.3	30 - 120	
115 In	1	1452546	0.74		1756110	82.7	30 - 120	
165 Ho	1	3119868	0.20		3599124	86.7	30 - 120	

Tune File# 1 C:\ICPCHEM\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CAL.B.D\134CAL.B.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\180_MSD.D\180_MSD.D#
 Date Acquired: Jul 8 2009 02:41 am **QC Summary:**
 Acq. Method: NormISIS.M **Analytes:** Pass
 Operator: TEL **ISTD:** Pass
 Sample Name: LF1WADF 10X
 Misc Info: MATRIX SPIKE DUPLICATE
 Vial Number: 3502
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 12:37 am
 Sample Type: MSD
 Dilution Factor: 10.00

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\179 MS.D\179 MS.D#

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1		4.03 ppb	9.92	3.85	4.49	20	
51 V	72	1		-16.74 ppb	16.41	-16.16	-3.53	20	
52 Cr	72	1		974.30 ppb	0.61	977.90	0.37	20	
55 Mn	72	1		4.17 ppb	3.28	4.13	1.04	20	
59 Co	72	1		3.94 ppb	0.45	3.88	1.76	20	
60 Ni	72	1		3.99 ppb	2.75	4.13	3.35	20	
63 Cu	72	1		3.91 ppb	2.16	3.84	1.78	20	
66 Zn	72	1		4.03 ppb	0.40	4.09	1.60	20	
75 As	72	1		75.48 ppb	0.78	75.55	0.09	20	
78 Se	72	1		5.20 ppb	4.58	5.18	0.25	20	
95 Mo	72	1		8.71 ppb	1.88	8.73	0.24	20	
107 Ag	115	1		3.69 ppb	1.68	3.73	1.19	20	
111 Cd	115	1		4.08 ppb	4.07	4.00	1.88	20	
118 Sn	115	1		0.08 ppb	50.39	0.38	131.65	20	
121 Sb	115	1		4.29 ppb	2.60	4.35	1.34	20	
137 Ba	115	1		5.59 ppb	4.46	5.58	0.13	20	
205 Tl	165	1		3.93 ppb	1.29	3.92	0.25	20	
208 Pb	165	1		3.96 ppb	0.31	3.89	1.68	20	
232 Th	165	1		4.29 ppb	2.85	4.08	5.02	20	
238 U	165	1		7.56 ppb	0.86	7.45	1.45	20	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	304960	0.65	359710	84.8	30 - 120	
45 Sc	1	824410	1.54	999296	82.5	30 - 120	
72 Ge	1	473176	0.55	590607	80.1	30 - 120	
115 In	1	1456082	1.44	1756110	82.9	30 - 120	
165 Ho	1	3134679	0.47	3599124	87.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File :C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\181_CCV.D\181_CCV.D#
 Date Acquired: Jul 8 2009 02:44 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		48.16 ppb	3.07	50	96.3	90 - 110	
51 V	72	1		48.18 ppb	0.80	50	96.4	90 - 110	
52 Cr	72	1		47.77 ppb	0.92	50	95.5	90 - 110	
55 Mn	72	1		48.53 ppb	0.91	50	97.1	90 - 110	
59 Co	72	1		47.39 ppb	0.96	50	94.8	90 - 110	
60 Ni	72	1		47.86 ppb	0.70	50	95.7	90 - 110	
63 Cu	72	1		47.47 ppb	1.18	50	94.9	90 - 110	
66 Zn	72	1		49.49 ppb	0.45	50	99.0	90 - 110	
75 As	72	1		48.57 ppb	1.54	50	97.1	90 - 110	
78 Se	72	1		48.70 ppb	5.98	50	97.4	90 - 110	
95 Mo	72	1		49.01 ppb	0.48	50	98.0	90 - 110	
107 Ag	115	1		47.17 ppb	0.50	50	94.3	90 - 110	
111 Cd	115	1		48.30 ppb	1.94	50	96.6	90 - 110	
118 Sn	115	1		48.12 ppb	1.16	50	96.2	90 - 110	
121 Sb	115	1		48.14 ppb	0.35	50	96.3	90 - 110	
137 Ba	115	1		48.90 ppb	0.71	50	97.8	90 - 110	
205 Tl	165	1		49.40 ppb	0.74	50	98.8	90 - 110	
208 Pb	165	1		49.70 ppb	0.94	50	99.4	90 - 110	
232 Th	165	1		49.92 ppb	4.88	50	99.8	90 - 110	
238 U	165	1		50.45 ppb	0.43	50	100.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	312690	0.38	359710	86.9	30 - 120	
45 Sc	1	834535	1.50	999296	83.5	30 - 120	
72 Ge	1	488872	0.27	590607	82.8	30 - 120	
115 In	1	1560860	0.36	1756110	88.9	30 - 120	
165 Ho	1	3285970	0.31	3599124	91.3	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\182_CCB.D\182_CCB.D#
 Date Acquired: Jul 8 2009 02:47 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		0.000 ppb	0.00	1.00	
51 V	72	1		-0.003 ppb	1027.40	1.00	
52 Cr	72	1		0.042 ppb	47.13	1.00	
55 Mn	72	1		0.010 ppb	53.11	1.00	
59 Co	72	1		0.007 ppb	55.97	1.00	
60 Ni	72	1		0.004 ppb	493.27	1.00	
63 Cu	72	1		-0.004 ppb	176.29	1.00	
66 Zn	72	1		0.041 ppb	68.39	1.00	
75 As	72	1		0.009 ppb	63.97	1.00	
78 Se	72	1		-0.761 ppb	66.46	1.00	
95 Mo	72	1		-0.023 ppb	74.18	1.00	
107 Ag	115	1		0.007 ppb	42.91	1.00	
111 Cd	115	1		0.014 ppb	29.55	1.00	
118 Sn	115	1		0.119 ppb	24.58	1.00	
121 Sb	115	1		0.064 ppb	12.71	1.00	
137 Ba	115	1		0.000 ppb	3826.60	1.00	
205 Tl	165	1		0.027 ppb	13.20	1.00	
208 Pb	165	1		0.005 ppb	42.53	1.00	
232 Th	165	1		1.282 ppb	15.40	1.00	
238 U	165	1		0.015 ppb	11.17	1.00	Fail

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	315065	0.86	359710	87.6		30 - 120	
45 Sc	1	842095	0.82	999296	84.3		30 - 120	
72 Ge	1	499567	0.38	590607	84.6		30 - 120	
115 In	1	1565358	0.48	1756110	89.1		30 - 120	
165 Ho	1	3279903	0.89	3599124	91.1		30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\183WASH.D\183WASH.D#
 Date Acquired: Jul 8 2009 02:49 am
 Operator: TEL
 Sample Name: RLCV
QC Summary:
 Sample Name: RLCV **Analytes: Pass**
 Misc Info: **ISTD: Pass**
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 12:37 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.997 ppb	30.40	1.30	
51 V	72	1		5.014 ppb	3.16	6.50	
52 Cr	72	1		1.992 ppb	0.95	2.60	
55 Mn	72	1		0.992 ppb	4.21	1.30	
59 Co	72	1		0.973 ppb	2.46	1.30	
60 Ni	72	1		1.951 ppb	4.01	2.60	
63 Cu	72	1		1.976 ppb	1.42	2.60	
66 Zn	72	1		10.220 ppb	1.26	13.00	
75 As	72	1		4.882 ppb	4.79	6.50	
78 Se	72	1		4.697 ppb	25.19	6.50	
95 Mo	72	1		1.978 ppb	8.06	2.60	
107 Ag	115	1		4.923 ppb	1.61	6.50	
111 Cd	115	1		0.992 ppb	5.92	1.30	
118 Sn	115	1		9.899 ppb	1.21	13.00	
121 Sb	115	1		1.882 ppb	5.37	2.60	
137 Ba	115	1		1.003 ppb	2.73	1.30	
205 Tl	165	1		1.056 ppb	1.70	1.30	
208 Pb	165	1		1.034 ppb	1.79	1.30	
232 Th	165	1		2.355 ppb	0.47	2.60	
238 U	165	1		1.066 ppb	1.29	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	314494	0.56	359710	87.4	30 - 120	
45 Sc	1	851256	0.46	999296	85.2	30 - 120	
72 Ge	1	501855	0.60	590607	85.0	30 - 120	
115 In	1	1571422	1.33	1756110	89.5	30 - 120	
165 Ho	1	3292934	0.34	3599124	91.5	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\134CALB.D\134CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Reslope Before Continuing Analytical Run

Corrective action was taken as stated in method 6020 section 7.8

..."During the course of an analytical run, the instrument may be "resloped" or recalibrated to correct for instrument drift. A recalibration must then be followed immediately by a new analysis of a CCV and CCB before any further samples are analyzed."

Analyst: R. Hill

Date: 7/8/09

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#
 Date Acquired: Jul 8 2009 03:11 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: Cal Blank
 Misc Info:
 Vial Number: 2101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:09 am
 Sample Type: CalBlk

QC Elements

Element	IS	Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	47	12.40
51	V	72	1	787	32.57
52	Cr	72	1	2124	8.83
55	Mn	72	1	710	12.00
59	Co	72	1	793	13.54
60	Ni	72	1	193	12.58
63	Cu	72	1	983	2.95
66	Zn	72	1	233	6.23
75	As	72	1	80	6.77
78	Se	72	1	123	41.18
95	Mo	72	1	393	12.48
107	Ag	115	1	520	5.05
111	Cd	115	1	120	31.74
118	Sn	115	1	470	10.83
121	Sb	115	1	266	8.80
137	Ba	115	1	160	12.69
205	Tl	165	1	1422	3.79
208	Pb	165	1	2148	3.03
232	Th	165	1	2184	2.94
238	U	165	1	2117	5.20

Internal Standard Elements

Element	Tune	CPS Mean	RSD(%)
6	Li	1	329497
45	Sc	1	923934
72	Ge	1	537691
115	In	1	1636252
165	Ho	1	3317690

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\192ICAL.D\192ICAL.D#
 Date Acquired: Jul 8 2009 03:14 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: 100 ppb
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:12 am
 Sample Type: ICAL

QC Elements

Element	IS Ref	Tune	CPS Mean	RSD (%)
9 Be	6	1	37983	0.96
51 V	72	1	590758	0.60
52 Cr	72	1	673559	0.37
55 Mn	72	1	620805	0.16
59 Co	72	1	967031	2.23
60 Ni	72	1	227670	1.37
63 Cu	72	1	571687	0.80
66 Zn	72	1	106169	0.59
75 As	72	1	72411	0.33
78 Se	72	1	10728	2.94
95 Mo	72	1	270653	0.50
107 Ag	115	1	869708	0.62
111 Cd	115	1	148986	0.81
118 Sn	115	1	379638	0.60
121 Sb	115	1	426526	0.88
137 Ba	115	1	171103	0.67
205 Tl	165	1	1790669	1.13
208 Pb	165	1	2428403	1.42
232 Th	165	1	2283140	3.94
238 U	165	1	2703171	1.85

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	320799	1.12	329497	97.4	30 - 120	
45 Sc	1	893683	1.39	923934	96.7	30 - 120	
72 Ge	1	515008	0.49	537691	95.8	30 - 120	
115 In	1	1607003	0.57	1636252	98.2	30 - 120	
165 Ho	1	3289965	1.41	3317690	99.2	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\193_CCV.D\193_CCV.D#
 Date Acquired: Jul 8 2009 03:17 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1		51.37 ppb	1.18	50	102.7	90 - 110	
51 V	72	1		49.40 ppb	0.29	50	98.8	90 - 110	
52 Cr	72	1		49.31 ppb	0.30	50	98.6	90 - 110	
55 Mn	72	1		49.21 ppb	0.48	50	98.4	90 - 110	
59 Co	72	1		48.56 ppb	0.78	50	97.1	90 - 110	
60 Ni	72	1		49.78 ppb	0.43	50	99.6	90 - 110	
63 Cu	72	1		49.47 ppb	0.77	50	98.9	90 - 110	
66 Zn	72	1		50.01 ppb	1.68	50	100.0	90 - 110	
75 As	72	1		49.44 ppb	0.35	50	98.9	90 - 110	
78 Se	72	1		48.63 ppb	2.94	50	97.3	90 - 110	
95 Mo	72	1		48.81 ppb	1.21	50	97.6	90 - 110	
107 Ag	115	1		48.99 ppb	0.59	50	98.0	90 - 110	
111 Cd	115	1		49.48 ppb	1.23	50	99.0	90 - 110	
118 Sn	115	1		49.38 ppb	0.49	50	98.8	90 - 110	
121 Sb	115	1		49.15 ppb	0.49	50	98.3	90 - 110	
137 Ba	115	1		49.39 ppb	0.43	50	98.8	90 - 110	
205 Tl	165	1		49.73 ppb	0.25	50	99.5	90 - 110	
208 Pb	165	1		49.61 ppb	0.24	50	99.2	90 - 110	
232 Th	165	1		52.01 ppb	3.77	50	104.0	90 - 110	
238 U	165	1		50.63 ppb	2.22	50	101.3	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	312657	0.23	329497	94.9	30 - 120	
45 Sc	1	867791	0.16	923934	93.9	30 - 120	
72 Ge	1	507091	0.42	537691	94.3	30 - 120	
115 In	1	1598177	0.57	1636252	97.7	30 - 120	
165 Ho	1	3265322	0.69	3317690	98.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\194_CCB.D\194_CCB.D#
 Date Acquired: Jul 8 2009 03:20 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.084 ppb	18.39	1.00	
51 V	72	1		-0.120 ppb	38.41	1.00	
52 Cr	72	1		-0.087 ppb	16.03	1.00	
55 Mn	72	1		-0.075 ppb	5.53	1.00	
59 Co	72	1		-0.070 ppb	4.75	1.00	
60 Ni	72	1		-0.049 ppb	22.79	1.00	
63 Cu	72	1		-0.104 ppb	7.77	1.00	
66 Zn	72	1		-0.042 ppb	50.42	1.00	
75 As	72	1		-0.052 ppb	34.22	1.00	
78 Se	72	1		0.406 ppb	70.84	1.00	
95 Mo	72	1		-0.035 ppb	27.06	1.00	
107 Ag	115	1		-0.049 ppb	7.23	1.00	
111 Cd	115	1		-0.064 ppb	15.98	1.00	
118 Sn	115	1		0.104 ppb	9.70	1.00	
121 Sb	115	1		0.027 ppb	34.63	1.00	
137 Ba	115	1		-0.070 ppb	20.68	1.00	
205 Tl	165	1		-0.039 ppb	2.30	1.00	
208 Pb	165	1		-0.071 ppb	0.34	1.00	
232 Th	165	1		1.621 ppb	15.08	1.00	
238 U	165	1		-0.059 ppb	2.23	1.00	Fail

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	314922	1.32	329497	95.6	30 - 120		
45 Sc	1	871707	1.17	923934	94.3	30 - 120		
72 Ge	1	510835	0.37	537691	95.0	30 - 120		
115 In	1	1597977	0.22	1636252	97.7	30 - 120		
165 Ho	1	3242965	0.51	3317690	97.7	30 - 120		

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\195WASH.D\195WASH.D#
 Date Acquired: Jul 8 2009 03:22 am
 Operator: TEL
 Sample Name: RLCV
 QC Summary:
 Misc Info: Analytes: Pass
 Vial Number: ISTD: Pass
 Current Method: 1204
 Calibration File: C:\ICPCHEM\1\METHODS\NormISIS.M
 Last Cal Update: C:\ICPCHEM\1\CALIB\NormISIS.C
 Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6		1	0.890 ppb	14.75	1.30	
51 V	72		1	4.897 ppb	2.77	6.50	
52 Cr	72		1	1.911 ppb	3.39	2.60	
55 Mn	72		1	0.949 ppb	2.25	1.30	
59 Co	72		1	0.903 ppb	4.78	1.30	
60 Ni	72		1	2.026 ppb	4.41	2.60	
63 Cu	72		1	1.955 ppb	4.91	2.60	
66 Zn	72		1	10.300 ppb	0.93	13.00	
75 As	72		1	4.965 ppb	1.73	6.50	
78 Se	72		1	4.916 ppb	5.07	6.50	
95 Mo	72		1	1.920 ppb	6.90	2.60	
107 Ag	115		1	5.018 ppb	2.30	6.50	
111 Cd	115		1	0.983 ppb	5.18	1.30	
118 Sn	115		1	10.270 ppb	2.27	13.00	
121 Sb	115		1	1.861 ppb	3.73	2.60	
137 Ba	115		1	0.993 ppb	1.75	1.30	
205 Tl	165		1	0.996 ppb	0.64	1.30	
208 Pb	165		1	0.959 ppb	1.63	1.30	
232 Th	165		1	2.396 ppb	0.80	2.60	
238 U	165		1	0.989 ppb	0.61	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	315380	0.22	329497	95.7	30 - 120	
45 Sc	1	870144	1.46	923934	94.2	30 - 120	
72 Ge	1	515151	0.12	537691	95.8	30 - 120	
115 In	1	1604946	1.44	1636252	98.1	30 - 120	
165 Ho	1	3272545	0.17	3317690	98.6	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\196_BLK.D\196_BLK.D#
 Date Acquired: Jul 8 2009 03:25 am
 Operator: TEL
 Sample Name: LF3X8B
 Misc Info: BLANK 9187169 6020
 Vial Number: 3503
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: BLK
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.111 ppb	14.37	2.00	
51 V	72	1		-0.143 ppb	22.14	2.00	
52 Cr	72	1		0.088 ppb	25.46	2.00	
55 Mn	72	1		0.022 ppb	72.49	2.00	
59 Co	72	1		-0.073 ppb	1.68	2.00	
60 Ni	72	1		-0.048 ppb	47.35	2.00	
63 Cu	72	1		-0.075 ppb	17.97	2.00	
66 Zn	72	1		0.343 ppb	6.48	2.00	
75 As	72	1		-0.065 ppb	10.25	2.00	
78 Se	72	1		0.073 ppb	198.06	2.00	
95 Mo	72	1		-0.093 ppb	14.21	2.00	
107 Ag	115	1		-0.056 ppb	4.86	2.00	
111 Cd	115	1		-0.069 ppb	7.37	2.00	
118 Sn	115	1		0.028 ppb	29.66	2.00	
121 Sb	115	1		-0.022 ppb	12.73	2.00	
137 Ba	115	1		0.049 ppb	34.11	2.00	
205 Tl	165	1		-0.048 ppb	14.71	2.00	
208 Pb	165	1		-0.072 ppb	4.45	2.00	
232 Th	165	1		0.357 ppb	15.29	2.00	
238 U	165	1		-0.073 ppb	0.85	2.00	

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	308912	0.48	329497	93.8	30 - 120		
45 Sc	1	855299	0.36	923934	92.6	30 - 120		
72 Ge	1	504085	0.32	537691	93.7	30 - 120		
115 In	1	1565996	0.39	1636252	95.7	30 - 120		
165 Ho	1	3239289	0.59	3317690	97.6	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\197_LCS.D\197_LCS.D#
 Date Acquired: Jul 8 2009 03:28 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF3X8C
 Misc Info: LCS
 Vial Number: 3504
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: LCS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS	Ref	Tune	Conc. ppb	RSD (%)	Expected	Rec (%)	QC	Range (%)	Flag
9 Be	6	1		38.86	1.75	40	97.2	80	-	120
51 V	72	1		39.63	0.49	40	99.1	80	-	120
52 Cr	72	1		40.02	0.68	40	100.1	80	-	120
55 Mn	72	1		40.62	0.35	40	101.6	80	-	120
59 Co	72	1		39.25	1.08	40	98.1	80	-	120
60 Ni	72	1		39.95	1.18	40	99.9	80	-	120
63 Cu	72	1		40.14	1.29	40	100.4	80	-	120
66 Zn	72	1		40.71	1.59	40	101.8	80	-	120
75 As	72	1		38.49	1.93	40	96.2	80	-	120
78 Se	72	1		40.01	5.25	40	100.0	80	-	120
95 Mo	72	1		39.16	1.42	40	97.9	80	-	120
107 Ag	115	1		39.55	0.32	40	98.9	80	-	120
111 Cd	115	1		39.19	0.84	40	98.0	80	-	120
118 Sn	115	1		0.02	139.60	40	0.1	80	-	120
121 Sb	115	1		38.95	0.64	40	97.4	80	-	120
137 Ba	115	1		40.06	0.36	40	100.2	80	-	120
205 Tl	165	1		40.26	0.62	40	100.7	80	-	120
208 Pb	165	1		40.13	0.65	40	100.3	80	-	120
232 Th	165	1		42.28	2.59	40	105.7	80	-	120
238 U	165	1		40.83	2.22	40	102.1	80	-	120

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC	Range (%)	Flag
6 Li	1	309475	0.68	329497	93.9	30	-	120
45 Sc	1	847752	1.13	923934	91.8	30	-	120
72 Ge	1	491519	0.71	537691	91.4	30	-	120
115 In	1	1562031	0.44	1636252	95.5	30	-	120
165 Ho	1	3240093	0.07	3317690	97.7	30	-	120

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\198SMPL.D\198SMPL.D#
 Date Acquired: Jul 8 2009 03:31 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LFX9W 10X
 Misc Info: D9G010276
 Vial Number: 3505
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		-1.01	-0.10	ppb	16.17	3600	
51 V	72	1		61.18	6.12	ppb	1.67	3600	
52 Cr	72	1		63.45	6.35	ppb	1.27	3600	
55 Mn	72	1		50.25	5.03	ppb	0.75	3600	
59 Co	72	1		-0.09	-0.01	ppb	147.90	3600	
60 Ni	72	1		5.70	0.57	ppb	1.70	3600	
63 Cu	72	1		0.71	0.07	ppb	15.94	3600	
66 Zn	72	1		3.77	0.38	ppb	12.56	3600	
75 As	72	1		122.60	12.26	ppb	2.27	3600	
78 Se	72	1		2.11	0.21	ppb	143.15	3600	
95 Mo	72	1		38.17	3.82	ppb	1.52	3600	
107 Ag	115	1		-0.49	-0.05	ppb	11.51	3600	
111 Cd	115	1		-0.23	-0.02	ppb	115.49	3600	
118 Sn	115	1		-0.15	-0.02	ppb	88.84	3600	
121 Sb	115	1		0.18	0.02	ppb	24.20	3600	
137 Ba	115	1		36.07	3.61	ppb	1.17	3600	
205 Tl	165	1		-0.14	-0.01	ppb	67.32	3600	
208 Pb	165	1		-0.53	-0.05	ppb	7.58	3600	
232 Th	165	1		10.00	1.00	ppb	19.72	1000	
238 U	165	1		31.50	3.15	ppb	1.87	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	298817	0.21	329497	90.7	30 - 120	
45 Sc	1	813176	1.09	923934	88.0	30 - 120	
72 Ge	1	476045	0.77	537691	88.5	30 - 120	
115 In	1	1460770	1.60	1636252	89.3	30 - 120	
165 Ho	1	3099895	1.11	3317690	93.4	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\199AREF.D\199AREF.D#
 Date Acquired: Jul 8 2009 03:33 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1 10X
 Misc Info: D9G020221
 Vial Number: 3506
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: AllRef
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	14.58	3600	
51 V	72	1		26.83	2.68	ppb	5.07	3600	
52 Cr	72	1		35.13	3.51	ppb	5.16	3600	
55 Mn	72	1		21.07	2.11	ppb	3.46	3600	
59 Co	72	1		-0.22	-0.02	ppb	17.03	3600	
60 Ni	72	1		2.83	0.28	ppb	3.65	3600	
63 Cu	72	1		-0.57	-0.06	ppb	4.46	3600	
66 Zn	72	1		4.00	0.40	ppb	14.70	3600	
75 As	72	1		146.20	14.62	ppb	0.84	3600	
78 Se	72	1		1.49	0.15	ppb	173.83	3600	
95 Mo	72	1		28.76	2.88	ppb	1.48	3600	
107 Ag	115	1		-0.52	-0.05	ppb	3.71	3600	
111 Cd	115	1		-0.73	-0.07	ppb	11.57	3600	
118 Sn	115	1		-0.15	-0.02	ppb	80.22	3600	
121 Sb	115	1		-0.20	-0.02	ppb	46.22	3600	
137 Ba	115	1		35.77	3.58	ppb	3.81	3600	
205 Tl	165	1		-0.26	-0.03	ppb	5.20	3600	
208 Pb	165	1		-0.34	-0.03	ppb	6.60	3600	
232 Th	165	1		2.33	0.23	ppb	11.27	1000	
238 U	165	1		51.74	5.17	ppb	0.84	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	302264	0.35	329497	91.7	30 - 120	
45 Sc	1	828840	0.29	923934	89.7	30 - 120	
72 Ge	1	473915	0.52	537691	88.1	30 - 120	
115 In	1	1472330	0.26	1636252	90.0	30 - 120	
165 Ho	1	3122477	0.43	3317690	94.1	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :Max. Number of Failures Allowed
 0 :ISTD Failures
 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\200SDIL.D\200SDIL.D#
 Date Acquired: Jul 8 2009 03:36 am **QC Summary:**
 Acq. Method: NormISIS.M **Analytes:** Pass
 Operator: TEL **ISTD:** Pass
 Sample Name: LF1T1P50
 Misc Info: SERIAL DILUTION
 Vial Number: 3507
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SDIL
 Dilution Factor: 10.00

 Dilution Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\199AREF.D\199AREF.D#

QC elements

Element	IS	Ref	Tune	Conc.ppb	RSD(%)	Ref Conc.	Actual(%)	QC	Range(%)	Flag
9 Be	6	1		-0.12 ppb	0.00	-0.02	542.1	90	-	110
51 V	72	1		0.43 ppb	22.54	0.54	80.8	90	-	110
52 Cr	72	1		0.77 ppb	2.96	0.70	110.0	90	-	110
55 Mn	72	1		0.41 ppb	7.95	0.42	96.3	90	-	110
59 Co	72	1		-0.06 ppb	12.54	0.00	1445.1	90	-	110
60 Ni	72	1		0.14 ppb	10.79	0.06	239.0	90	-	110
63 Cu	72	1		-0.09 ppb	8.69	-0.01	769.3	90	-	110
66 Zn	72	1		0.06 ppb	12.53	0.08	69.5	90	-	110
75 As	72	1		2.91 ppb	1.88	2.92	99.6	90	-	110
78 Se	72	1		0.18 ppb	93.39	0.03	604.0	90	-	110
95 Mo	72	1		0.51 ppb	14.47	0.58	88.1	90	-	110
107 Ag	115	1		-0.06 ppb	2.15	-0.01	556.9	90	-	110
111 Cd	115	1		-0.07 ppb	7.09	-0.01	494.4	90	-	110
118 Sn	115	1		-0.04 ppb	26.17	0.00	1459.1	90	-	110
121 Sb	115	1		-0.04 ppb	2.06	0.00	1060.0	90	-	110
137 Ba	115	1		0.66 ppb	3.84	0.72	91.7	90	-	110
205 Tl	165	1		-0.07 ppb	1.98	-0.01	1246.5	90	-	110
208 Pb	165	1		-0.07 ppb	1.76	-0.01	1003.2	90	-	110
232 Th	165	1		0.02 ppb	32.04	0.05	44.4	90	-	110
238 U	165	1		1.01 ppb	1.78	1.03	97.1	90	-	110

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC	Range(%)	Flag
6 Li	1	306409	0.97	329497	93.0	30	-	120
45 Sc	1	817720	1.55	923934	88.5	30	-	120
72 Ge	1	487420	0.68	537691	90.7	30	-	120
115 In	1	1501254	0.50	1636252	91.7	30	-	120
165 Ho	1	3122338	0.78	3317690	94.1	30	-	120

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Denver

SERIAL DILUTION

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:47

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1T1P50

Serial Dilution: 50.00

Sample Dilution: 10.00

Instrument: Agilent7500
 File: AG070709B # 200
 Acquired: 07/08/2009 03:36:00
 Calibrated: 07/08/2009 03:11:00

Channel 272
 Method 6020
 ICPMS_024

Matrix: AQUEOUS
 Units: ug/L

CASN	Analyte Name	M/S	Area	Dilution	Sample	%Diff.	MDL	Flag	Q
7440-41-7	Beryllium	9		-5.9850	-1.1040			*	
7440-62-2	Vanadium	51	3138	21.690	26.830	19.2		*	
7440-47-3	Chromium	52	6839	38.655	35.130	10.0		*	
7439-96-5	Manganese	55	3024	20.280	21.070	3.75		*	
7440-48-4	Cobalt	59	137	-3.1835	-0.22030			*	
7440-02-0	Nickel	60	467	6.7700	2.8330	139		*	
7440-50-8	Copper	63	417	-4.3940	-0.57120			*	
7440-66-6	Zinc	66	267	2.7800	3.9980	30.5		*	
7440-38-2	Arsenic	75	2067	145.65	146.20	0.376	0.21	NC	<input checked="" type="checkbox"/>
7782-49-2	Selenium	78	130	9.0000	1.4900	504	0.70	NC	<input checked="" type="checkbox"/>
7439-98-7	Molybdenum	95	1653	25.350	28.760	11.9		*	
7440-22-4	Silver	107	10	-2.8760	-0.51640			*	
7440-43-9	Cadmium	111	10	-3.6020	-0.72860			*	
7440-31-5	Tin	118	273	-2.2280	-0.15270			*	
7440-36-0	Antimony	121	76	-2.1105	-0.19910			*	
7440-39-3	Barium	137	1195	32.805	35.770	8.29		*	
7440-28-0	Thallium	205	229	-3.2670	-0.26210			*	
7439-92-1	Lead	208	436	-3.4430	-0.34320			*	
7440-61-1	Uranium	238	27759	50.250	51.740	2.88		*	
7440-29-1	Thorium	232	2504	1.0345	2.3280	55.6		*	
7439-93-2	Lithium	6			0			*	
7440-20-2	Scandium	45			0			*	
7440-74-6	Indium	115			0			*	
7440-56-4	Germanium	72			0			*	
7440-60-0	Holmium	165			0			*	

* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: LRD

Date: 7/8/09

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\201PDS.D\201PDS.D#
 Date Acquired: Jul 8 2009 03:39 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1Z
 Misc Info: POST DIGESTION SPIKE
 Vial Number: 3508
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: PDS
 Prep Dil. Factor: 1.00
 Autodil Factor: Undiluted
 Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1		195.00	-0.11	ppb	1.02	200	97.6	75 - 125
51 V	72	1		206.10	2.68	ppb	0.66	200	101.7	75 - 125
52 Cr	72	1		202.40	3.51	ppb	1.34	200	99.5	75 - 125
55 Mn	72	1		201.50	2.11	ppb	1.74	200	99.7	75 - 125
59 Co	72	1		186.40	-0.02	ppb	1.81	200	93.2	75 - 125
60 Ni	72	1		180.40	0.28	ppb	0.96	200	90.1	75 - 125
63 Cu	72	1		179.90	-0.06	ppb	0.07	200	90.0	75 - 125
66 Zn	72	1		189.50	0.40	ppb	0.35	200	94.6	75 - 125
75 As	72	1		208.70	14.62	ppb	0.45	200	97.2	75 - 125
78 Se	72	1		192.40	0.15	ppb	2.03	200	96.1	75 - 125
95 Mo	72	1		201.50	2.88	ppb	0.53	200	99.3	75 - 125
107 Ag	115	1		44.66	-0.05	ppb	1.40	50	89.4	75 - 125
111 Cd	115	1		190.00	-0.07	ppb	1.02	200	95.0	75 - 125
118 Sn	115	1		174.80	-0.02	ppb	1.29	200	87.4	75 - 125
121 Sb	115	1		193.50	-0.02	ppb	1.11	200	96.8	75 - 125
137 Ba	115	1		195.30	3.58	ppb	1.09	200	95.9	75 - 125
205 Tl	165	1		183.40	-0.03	ppb	0.91	200	91.7	75 - 125
208 Pb	165	1		183.10	-0.03	ppb	0.56	200	91.6	75 - 125
232 Th	165	1		0.04	0.23	ppb	25.36	200	0.0	75 - 125
238 U	165	1		195.00	5.17	ppb	0.71	200	95.0	75 - 125

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	295099	0.92	329497	89.6	30 - 120	
45 Sc	1	798746	0.54	923934	86.5	30 - 120	
72 Ge	1	458704	0.57	537691	85.3	30 - 120	
115 In	1	1449786	0.98	1636252	88.6	30 - 120	
165 Ho	1	3084504	0.31	3317690	93.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Denver

SAMPLE SPIKE

Method: 6020 (ICP/MS)

ICPMS_024

Reported: 07/08/09 09:50:52

Department: 090 (Metals)

Source: Spreadsheet

Sample: LF1T1Z

Spike Dilution: 1.00

Sample Dilution: 10.00

Instrument: Agilent7500

Channel 272

File: AG070709B # 201

Method 6020_

Acquired: 07/08/2009 03:39:00

ICPMS_024

Calibrated: 07/08/2009 03:11:00

Matrix: AQUEOUS

Units: ug/L

CASN	Analyte Name	M/S	Area	Amount	Sample	%Rec.	Spike	Flag	Q
7440-41-7	Beryllium	9	68089	195.00	-0.11040	97.5	200	<input checked="" type="checkbox"/>	
7440-62-2	Vanadium	51	1083840	206.10	2.6830	102	200	<input type="checkbox"/>	
7440-47-3	Chromium	52	1212510	202.40	3.5130	99.4	200	<input checked="" type="checkbox"/>	
7439-96-5	Manganese	55	1113340	201.50	2.1070	99.7	200	<input checked="" type="checkbox"/>	
7440-48-4	Cobalt	59	1605230	186.40	-0.02203	93.2	200	<input type="checkbox"/>	
7440-02-0	Nickel	60	365567	180.40	0.28330	90.1	200	<input checked="" type="checkbox"/>	
7440-50-8	Copper	63	915406	179.90	-0.05712	89.9	200	<input type="checkbox"/>	
7440-66-6	Zinc	66	179019	189.50	0.39980	94.6	200	<input type="checkbox"/>	
7440-38-2	Arsenic	75	134530	208.70	14.620	97.0	200	<input checked="" type="checkbox"/>	
7782-49-2	Selenium	78	18293	192.40	0.14900	96.1	200	<input checked="" type="checkbox"/>	
7439-98-7	Molybdenum	95	485366	201.50	2.8760	99.3	200	<input type="checkbox"/>	
7440-22-4	Silver	107	350636	44.660	-0.05164	89.3	50.0	<input checked="" type="checkbox"/>	
7440-43-9	Cadmium	111	255254	190.00	-0.07286	95.0	200	<input checked="" type="checkbox"/>	
7440-31-5	Tin	118	598539	174.80	-0.01527	87.4	200	<input type="checkbox"/>	
7440-36-0	Antimony	121	744129	193.50	-0.01991	96.8	200	<input checked="" type="checkbox"/>	
7440-39-3	Barium	137	301297	195.30	3.5770	95.9	200	<input checked="" type="checkbox"/>	
7440-28-0	Thallium	205	3077580	183.40	-0.02621	91.7	200	<input checked="" type="checkbox"/>	
7439-92-1	Lead	208	4167550	183.10	-0.03432	91.6	200	<input checked="" type="checkbox"/>	
7440-61-1	Uranium	238	4940350	195.00	5.1740	94.9	200	<input type="checkbox"/>	
7440-29-1	Thorium	232	2814	0.03664	0.23280				
7439-93-2	Lithium	6			0				
7440-20-2	Scandium	45			0				
7440-74-6	Indium	115			0				
7440-56-4	Germanium	72			0				
7440-60-0	Holmium	165			0				

Reviewed by:

LRD

Date:

7/3/09

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\202_CCV.D\202_CCV.D#
 Date Acquired: Jul 8 2009 03:42 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	47.32 ppb	4.45	50	94.6	90 - 110	
51 V	72	1	48.56 ppb	2.15	50	97.1	90 - 110	
52 Cr	72	1	48.47 ppb	1.10	50	96.9	90 - 110	
55 Mn	72	1	48.67 ppb	1.05	50	97.3	90 - 110	
59 Co	72	1	47.81 ppb	0.57	50	95.6	90 - 110	
60 Ni	72	1	48.91 ppb	2.39	50	97.8	90 - 110	
63 Cu	72	1	48.60 ppb	0.23	50	97.2	90 - 110	
66 Zn	72	1	49.34 ppb	0.33	50	98.7	90 - 110	
75 As	72	1	48.30 ppb	0.91	50	96.6	90 - 110	
78 Se	72	1	47.24 ppb	3.83	50	94.5	90 - 110	
95 Mo	72	1	48.94 ppb	0.93	50	97.9	90 - 110	
107 Ag	115	1	48.30 ppb	1.69	50	96.6	90 - 110	
111 Cd	115	1	48.40 ppb	0.91	50	96.8	90 - 110	
118 Sn	115	1	49.12 ppb	1.53	50	98.2	90 - 110	
121 Sb	115	1	48.80 ppb	0.84	50	97.6	90 - 110	
137 Ba	115	1	49.06 ppb	1.12	50	98.1	90 - 110	
205 Tl	165	1	49.87 ppb	0.87	50	99.7	90 - 110	
208 Pb	165	1	49.89 ppb	0.70	50	99.8	90 - 110	
232 Th	165	1	49.03 ppb	4.45	50	98.1	90 - 110	
238 U	165	1	50.92 ppb	0.04	50	101.8	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300696	0.39	329497	91.3	30 - 120	
45 Sc	1	800121	0.63	923934	86.6	30 - 120	
72 Ge	1	474172	0.25	537691	88.2	30 - 120	
115 In	1	1518112	0.41	1636252	92.8	30 - 120	
165 Ho	1	3159432	0.87	3317690	95.2	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\203_CCB.D\203_CCB.D#
 Date Acquired: Jul 8 2009 03:44 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.073 ppb	22.56	1.00	
51 V	72	1		-0.148 ppb	13.57	1.00	
52 Cr	72	1		-0.089 ppb	20.09	1.00	
55 Mn	72	1		-0.080 ppb	7.45	1.00	
59 Co	72	1		-0.066 ppb	7.61	1.00	
60 Ni	72	1		-0.058 ppb	13.80	1.00	
63 Cu	72	1		-0.087 ppb	11.82	1.00	
66 Zn	72	1		-0.044 ppb	19.48	1.00	
75 As	72	1		-0.050 ppb	50.18	1.00	
78 Se	72	1		0.148 ppb	196.07	1.00	
95 Mo	72	1		-0.064 ppb	34.61	1.00	
107 Ag	115	1		-0.046 ppb	7.97	1.00	
111 Cd	115	1		-0.062 ppb	4.81	1.00	
118 Sn	115	1		0.151 ppb	2.16	1.00	
121 Sb	115	1		0.041 ppb	24.96	1.00	
137 Ba	115	1		-0.069 ppb	2.93	1.00	
205 Tl	165	1		-0.047 ppb	4.47	1.00	
208 Pb	165	1		-0.069 ppb	2.47	1.00	
232 Th	165	1		1.189 ppb	15.23	1.00	
238 U	165	1		-0.059 ppb	2.72	1.00	Fail

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	300372	0.94	329497	91.2	30 - 120	
45 Sc	1	824755	0.34	923934	89.3	30 - 120	
72 Ge	1	487346	0.22	537691	90.6	30 - 120	
115 In	1	1530334	0.08	1636252	93.5	30 - 120	
165 Ho	1	3250949	0.58	3317690	98.0	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\204WASH.D\204WASH.D#
 Date Acquired: Jul 8 2009 03:47 am
 Operator: TEL
 Sample Name: RLCV
 Misc Info:
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		0.887 ppb	13.84	1.30	
51 V	72	1		4.966 ppb	1.32	6.50	
52 Cr	72	1		1.952 ppb	4.40	2.60	
55 Mn	72	1		0.945 ppb	4.12	1.30	
59 Co	72	1		0.923 ppb	1.79	1.30	
60 Ni	72	1		1.869 ppb	6.37	2.60	
63 Cu	72	1		1.957 ppb	3.56	2.60	
66 Zn	72	1		10.410 ppb	1.14	13.00	
75 As	72	1		4.964 ppb	3.35	6.50	
78 Se	72	1		4.239 ppb	29.58	6.50	
95 Mo	72	1		1.941 ppb	1.48	2.60	
107 Ag	115	1		5.096 ppb	0.81	6.50	
111 Cd	115	1		0.983 ppb	4.20	1.30	
118 Sn	115	1		10.320 ppb	1.14	13.00	
121 Sb	115	1		1.875 ppb	1.91	2.60	
137 Ba	115	1		0.954 ppb	4.91	1.30	
205 Tl	165	1		1.003 ppb	1.63	1.30	
208 Pb	165	1		0.988 ppb	1.52	1.30	
232 Th	165	1		2.372 ppb	1.00	2.60	
238 U	165	1		1.026 ppb	1.50	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	296961	0.40	329497	90.1	30 - 120	
45 Sc	1	804867	0.71	923934	87.1	30 - 120	
72 Ge	1	480975	0.57	537691	89.5	30 - 120	
115 In	1	1508499	0.40	1636252	92.2	30 - 120	
165 Ho	1	3156976	0.99	3317690	95.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\205_MS.D\205_MS.D#
 Date Acquired: Jul 8 2009 03:50 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1S 10X
 Misc Info: MATRIX SPIKE
 Vial Number: 3509
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: MS
 Prep Dil. Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00
 Spike Ref. File: ---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	Ref Conc	RSD (%)	Spk Amt	Rec (%)	QC Range (%)	QC Flag
9 Be	6	1		3.75	-0.11	ppb	4.17	40	9.4	50 - 150
51 V	72	1		6.95	2.68	ppb	4.03	40	16.3	50 - 150
52 Cr	72	1		7.67	3.51	ppb	1.78	40	17.6	50 - 150
55 Mn	72	1		6.18	2.11	ppb	1.38	40	14.7	50 - 150
59 Co	72	1		3.84	-0.02	ppb	1.21	40	9.6	50 - 150
60 Ni	72	1		4.04	0.28	ppb	3.33	40	10.0	50 - 150
63 Cu	72	1		3.74	-0.06	ppb	0.63	40	9.4	50 - 150
66 Zn	72	1		4.77	0.40	ppb	2.06	40	11.8	50 - 150
75 As	72	1		19.07	14.62	ppb	1.00	40	34.9	50 - 150
78 Se	72	1		4.80	0.15	ppb	15.90	40	12.0	50 - 150
95 Mo	72	1		6.83	2.88	ppb	2.62	40	15.9	50 - 150
107 Ag	115	1		3.76	-0.05	ppb	4.01	40	9.4	50 - 150
111 Cd	115	1		3.95	-0.07	ppb	0.84	40	9.9	50 - 150
118 Sn	115	1		0.04	-0.02	ppb	46.43	40	0.1	50 - 150
121 Sb	115	1		4.16	-0.02	ppb	1.15	40	10.4	50 - 150
137 Ba	115	1		7.82	3.58	ppb	1.25	40	17.9	50 - 150
205 Tl	165	1		4.00	-0.03	ppb	1.75	40	10.0	50 - 150
208 Pb	165	1		3.90	-0.03	ppb	0.41	40	9.7	50 - 150
232 Th	165	1		4.37	0.23	ppb	1.58	40	10.9	50 - 150
238 U	165	1		9.47	5.17	ppb	0.53	40	21.0	50 - 150

ISTD Elements

Element	Tune	Counts	RSD (%)	Ref. Counts	Rec (%)	QC Range (%)	QC Flag
6 Li	1	291491	1.20	329497	88.5	30 - 120	
45 Sc	1	807321	0.80	923934	87.4	30 - 120	
72 Ge	1	464643	0.54	537691	86.4	30 - 120	
115 In	1	1450544	1.06	1636252	88.7	30 - 120	
165 Ho	1	3126884	0.81	3317690	94.2	30 - 120	

Tune File# 1 C:\icpchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\206_MSD.D\206_MSD.D#
 Date Acquired: Jul 8 2009 03:53 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T1D 10X
 Misc Info: MATRIX SPIKE DUPLICATE
 Vial Number: 3510
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: MSD
 Dilution Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG070709B.B\205 MS.D\205 MS.D#

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1		3.96	ppb	5.95	3.75	5.37	20
51 V	72	1		6.72	ppb	1.77	6.95	3.38	20
52 Cr	72	1		7.43	ppb	0.96	7.67	3.13	20
55 Mn	72	1		6.04	ppb	1.66	6.18	2.23	20
59 Co	72	1		3.82	ppb	1.52	3.84	0.50	20
60 Ni	72	1		4.01	ppb	3.51	4.04	0.87	20
63 Cu	72	1		3.60	ppb	1.79	3.74	3.68	20
66 Zn	72	1		4.45	ppb	2.73	4.76	6.93	20
75 As	72	1		18.88	ppb	0.50	19.07	1.00	20
78 Se	72	1		5.03	ppb	3.39	4.80	4.64	20
95 Mo	72	1		6.94	ppb	1.78	6.83	1.58	20
107 Ag	115	1		3.78	ppb	2.01	3.76	0.61	20
111 Cd	115	1		3.99	ppb	0.62	3.95	0.91	20
118 Sn	115	1		-0.01	ppb	50.03	0.04	390.80	20
121 Sb	115	1		4.12	ppb	2.27	4.16	0.97	20
137 Ba	115	1		7.61	ppb	0.56	7.82	2.66	20
205 Tl	165	1		3.93	ppb	0.97	4.00	1.94	20
208 Pb	165	1		3.92	ppb	1.72	3.90	0.67	20
232 Th	165	1		4.29	ppb	1.48	4.37	1.85	20
238 U	165	1		9.40	ppb	1.00	9.47	0.70	20

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	295331	0.98	329497	89.6	30 - 120	
45 Sc	1	812994	0.19	923934	88.0	30 - 120	
72 Ge	1	471214	0.24	537691	87.6	30 - 120	
115 In	1	1474525	0.10	1636252	90.1	30 - 120	
165 Ho	1	3150130	0.66	3317690	94.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File :C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\207SMPL.D\207SMPL.D#
 Date Acquired: Jul 8 2009 03:56 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1T6 10X
 Misc Info: D9G020221
 Vial Number: 3511
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	14.76	3600	
51 V	72	1		-10.24	-1.02	ppb	48.40	3600	
52 Cr	72	1		1,146.00	114.60	ppb	1.16	3600	
55 Mn	72	1		13.07	1.31	ppb	2.67	3600	
59 Co	72	1		-0.30	-0.03	ppb	34.55	3600	
60 Ni	72	1		2.50	0.25	ppb	18.96	3600	
63 Cu	72	1		-0.67	-0.07	ppb	36.84	3600	
66 Zn	72	1		25.23	2.52	ppb	2.67	3600	
75 As	72	1		103.70	10.37	ppb	2.32	3600	
78 Se	72	1		8.03	0.80	ppb	86.08	3600	
95 Mo	72	1		25.07	2.51	ppb	3.73	3600	
107 Ag	115	1		-0.52	-0.05	ppb	9.10	3600	
111 Cd	115	1		-0.80	-0.08	ppb	11.66	3600	
118 Sn	115	1		-0.09	-0.01	ppb	370.24	3600	
121 Sb	115	1		-0.32	-0.03	ppb	11.33	3600	
137 Ba	115	1		37.49	3.75	ppb	3.03	3600	
205 Tl	165	1		-0.06	-0.01	ppb	153.28	3600	
208 Pb	165	1		-0.69	-0.07	ppb	3.12	3600	
232 Th	165	1		1.49	0.15	ppb	14.85	1000	
238 U	165	1		36.87	3.69	ppb	2.59	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	299657	0.37	329497	90.9	30 - 120	
45 Sc	1	842209	2.69	923934	91.2	30 - 120	
72 Ge	1	488819	0.90	537691	90.9	30 - 120	
115 In	1	1505724	1.38	1636252	92.0	30 - 120	
165 Ho	1	3258359	1.30	3317690	98.2	30 - 120	

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\208SMPL.D\208SMPL.D#
 Date Acquired: Jul 8 2009 03:58 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1VJ 10X
 Misc Info: D9G020227
 Vial Number: 3512
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD (%)	High Limit	Flag
9 Be	6	1		-1.10	-0.11	ppb	15.22	3600	
51 V	72	1		-427.80	-42.78	ppb	7.41	3600	
52 Cr	72	1		11,230.00	1123.00	ppb	0.84	3600	
55 Mn	72	1		21.53	2.15	ppb	4.11	3600	
59 Co	72	1		-0.31	-0.03	ppb	7.40	3600	
60 Ni	72	1		3.02	0.30	ppb	6.37	3600	
63 Cu	72	1		-0.52	-0.05	ppb	22.39	3600	
66 Zn	72	1		1.37	0.14	ppb	23.30	3600	
75 As	72	1		103.60	10.36	ppb	0.84	3600	
78 Se	72	1		6.32	0.63	ppb	86.78	3600	
95 Mo	72	1		15.81	1.58	ppb	5.44	3600	
107 Ag	115	1		-0.52	-0.05	ppb	6.45	3600	
111 Cd	115	1		-0.47	-0.05	ppb	26.18	3600	
118 Sn	115	1		-0.15	-0.02	ppb	120.07	3600	
121 Sb	115	1		-0.26	-0.03	ppb	25.25	3600	
137 Ba	115	1		34.45	3.45	ppb	2.28	3600	
205 Tl	165	1		-0.50	-0.05	ppb	2.50	3600	
208 Pb	165	1		-0.68	-0.07	ppb	3.22	3600	
232 Th	165	1		-0.02	0.00	ppb	286.46	1000	
238 U	165	1		45.31	4.53	ppb	0.22	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	291984	0.51	329497	88.6	30 - 120	
45 Sc	1	815966	1.80	923934	88.3	30 - 120	
72 Ge	1	472962	0.83	537691	88.0	30 - 120	
115 In	1	1433448	0.71	1636252	87.6	30 - 120	
165 Ho	1	3081614	0.18	3317690	92.9	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\
 ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\209SMPL.D\209SMPL.D#
 Date Acquired: Jul 8 2009 04:01 am
 Acq. Method: NormISIS.M
 Operator: TEL
 Sample Name: LF1V5 10X
 Misc Info: D9G020227
 Vial Number: 4101
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal. Update: Jul 08 2009 03:15 am
 Sample Type: SA
 Dilution Factor: 10.00
 Autodil Factor: Undiluted
 Final Dil Factor: 10.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1		-0.62	-0.06	ppb	0.57	3600	
51 V	72	1		-216.50	-21.65	ppb	9.09	3600	
52 Cr	72	1		10,330.00	1033.00	ppb	0.77	3600	
55 Mn	72	1		691.40	69.14	ppb	1.09	3600	
59 Co	72	1		6.06	0.61	ppb	3.72	3600	
60 Ni	72	1		5.38	0.54	ppb	6.96	3600	
63 Cu	72	1		5.00	0.50	ppb	7.24	3600	
66 Zn	72	1		12.79	1.28	ppb	0.55	3600	
75 As	72	1		757.00	75.70	ppb	0.81	3600	
78 Se	72	1		7.69	0.77	ppb	139.98	3600	
95 Mo	72	1		46.91	4.69	ppb	5.34	3600	
107 Ag	115	1		0.04	0.00	ppb	353.81	3600	
111 Cd	115	1		-0.33	-0.03	ppb	93.08	3600	
118 Sn	115	1		-0.21	-0.02	ppb	58.27	3600	
121 Sb	115	1		0.07	0.01	ppb	57.53	3600	
137 Ba	115	1		42.06	4.21	ppb	2.69	3600	
205 Tl	165	1		-0.55	-0.06	ppb	4.17	3600	
208 Pb	165	1		4.01	0.40	ppb	2.47	3600	
232 Th	165	1		4.96	0.50	ppb	1.87	1000	
238 U	165	1		35.55	3.56	ppb	1.34	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	291934	0.60	329497	88.6	30 - 120	
45 Sc	1	828690	2.38	923934	89.7	30 - 120	
72 Ge	1	480972	0.44	537691	89.5	30 - 120	
115 In	1	1454738	0.51	1636252	88.9	30 - 120	
165 Ho	1	3140633	0.74	3317690	94.7	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\210_CCV.D\210_CCV.D#
 Date Acquired: Jul 8 2009 04:04 am
 Operator: TEL
 Sample Name: CCV
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	Expected	Rec (%)	QC Range (%)	Flag
9 Be	6		1	50.82 ppb	1.57	50	101.6	90 - 110	
51 V	72		1	49.34 ppb	0.26	50	98.7	90 - 110	
52 Cr	72		1	49.37 ppb	0.73	50	98.7	90 - 110	
55 Mn	72		1	50.56 ppb	1.15	50	101.1	90 - 110	
59 Co	72		1	48.48 ppb	0.89	50	97.0	90 - 110	
60 Ni	72		1	49.80 ppb	0.71	50	99.6	90 - 110	
63 Cu	72		1	49.25 ppb	0.53	50	98.5	90 - 110	
66 Zn	72		1	50.70 ppb	0.24	50	101.4	90 - 110	
75 As	72		1	49.26 ppb	0.85	50	98.5	90 - 110	
78 Se	72		1	51.19 ppb	1.61	50	102.4	90 - 110	
95 Mo	72		1	50.57 ppb	1.21	50	101.1	90 - 110	
107 Ag	115		1	49.35 ppb	1.30	50	98.7	90 - 110	
111 Cd	115		1	50.91 ppb	0.42	50	101.8	90 - 110	
118 Sn	115		1	49.92 ppb	1.35	50	99.8	90 - 110	
121 Sb	115		1	49.57 ppb	1.16	50	99.1	90 - 110	
137 Ba	115		1	50.10 ppb	1.48	50	100.2	90 - 110	
205 Tl	165		1	51.01 ppb	1.27	50	102.0	90 - 110	
208 Pb	165		1	51.01 ppb	1.29	50	102.0	90 - 110	
232 Th	165		1	51.10 ppb	2.12	50	102.2	90 - 110	
238 U	165		1	52.44 ppb	1.67	50	104.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	290919	0.87	329497	88.3	30 - 120	
45 Sc	1	797863	1.14	923934	86.4	30 - 120	
72 Ge	1	473414	0.73	537691	88.0	30 - 120	
115 In	1	1534632	0.69	1636252	93.8	30 - 120	
165 Ho	1	3241962	0.77	3317690	97.7	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\211_CCB.D\211_CCB.D#
 Date Acquired: Jul 8 2009 04:07 am
 Operator: TEL
 Sample Name: CCB
 Misc Info:
 Vial Number: 1307
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS	Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1		-0.120	ppb	0.00	1.00
51 V	72	1		-0.121	ppb	15.11	1.00
52 Cr	72	1		-0.037	ppb	24.93	1.00
55 Mn	72	1		-0.073	ppb	10.41	1.00
59 Co	72	1		-0.062	ppb	2.00	1.00
60 Ni	72	1		-0.053	ppb	35.25	1.00
63 Cu	72	1		-0.091	ppb	18.75	1.00
66 Zn	72	1		-0.021	ppb	122.48	1.00
75 As	72	1		-0.049	ppb	17.16	1.00
78 Se	72	1		0.122	ppb	169.07	1.00
95 Mo	72	1		-0.076	ppb	31.52	1.00
107 Ag	115	1		-0.046	ppb	3.98	1.00
111 Cd	115	1		-0.065	ppb	10.94	1.00
118 Sn	115	1		0.058	ppb	18.79	1.00
121 Sb	115	1		0.008	ppb	61.48	1.00
137 Ba	115	1		-0.070	ppb	10.54	1.00
205 Tl	165	1		-0.047	ppb	3.11	1.00
208 Pb	165	1		-0.070	ppb	3.70	1.00
232 Th	165	1		1.201	ppb	19.06	1.00
238 U	165	1		-0.060	ppb	1.69	1.00

ISTD Elements

Element	Tune	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range(%)	Flag
6 Li	1	292571	0.74	329497	88.8	30 - 120		
45 Sc	1	820202	1.06	923934	88.8	30 - 120		
72 Ge	1	484175	0.35	537691	90.0	30 - 120		
115 In	1	1551306	0.26	1636252	94.8	30 - 120		
165 Ho	1	3263240	0.37	3317690	98.4	30 - 120		

Tune File# 1 C:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

1 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG070709B.B\212WASH.D\212WASH.D#
 Date Acquired: Jul 8 2009 04:09 am
 Operator: TEL **QC Summary:**
 Sample Name: RLCV **Analytes: Pass**
 Misc Info: **ISTD: Pass**
 Vial Number: 1204
 Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
 Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
 Last Cal Update: Jul 08 2009 03:15 am
 Sample Type: WASH
 Total Dil Factor: 1.00

QC Elements

Element	IS	Ref	Tune	Conc.	RSD (%)	High Limit	Flag
9 Be	6	1		1.102 ppb	18.90	1.30	
51 V	72	1		4.865 ppb	2.31	6.50	
52 Cr	72	1		1.920 ppb	1.31	2.60	
55 Mn	72	1		0.925 ppb	5.60	1.30	
59 Co	72	1		0.937 ppb	4.37	1.30	
60 Ni	72	1		2.066 ppb	9.04	2.60	
63 Cu	72	1		1.864 ppb	2.35	2.60	
66 Zn	72	1		10.360 ppb	1.59	13.00	
75 As	72	1		4.955 ppb	2.38	6.50	
78 Se	72	1		5.032 ppb	13.31	6.50	
95 Mo	72	1		1.911 ppb	2.92	2.60	
107 Ag	115	1		4.974 ppb	1.05	6.50	
111 Cd	115	1		1.018 ppb	3.35	1.30	
118 Sn	115	1		10.310 ppb	0.54	13.00	
121 Sb	115	1		1.864 ppb	1.05	2.60	
137 Ba	115	1		0.974 ppb	2.37	1.30	
205 Tl	165	1		1.015 ppb	1.27	1.30	
208 Pb	165	1		0.991 ppb	0.79	1.30	
232 Th	165	1		2.366 ppb	1.17	2.60	
238 U	165	1		1.019 ppb	1.46	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	1	290814	0.85	329497	88.3	30 - 120	
45 Sc	1	819634	0.45	923934	88.7	30 - 120	
72 Ge	1	487158	0.50	537691	90.6	30 - 120	
115 In	1	1561344	0.94	1636252	95.4	30 - 120	
165 Ho	1	3289382	0.12	3317690	99.1	30 - 120	

Tune File# 1 c:\icpcchem\1\7500\he.u
 Tune File# 2 C:\ICPCHEM\1\7500\
 Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File :

C:\ICPCHEM\1\DATA\AG070709B.B\191CALB.D\191CALB.D#

0 :Element Failures
 0 :ISTD Failures

0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed